2008 Surface Water and Groundwater Monitoring Report

New World Mining District Response and Restoration Project

United States Department of Agriculture
Forest Service
Gallatin National Forest

2008 SURFACE WATER AND GROUNDWATER MONITORING REPORT NEW WORLD MINING DISTRICT RESPONSE AND RESTORATION PROJECT

Prepared for:

USDA FOREST SERVICE
GALLATIN NATIONAL FOREST
BOZEMAN, MONTANA

Prepared by:

Tetra Tech
851 Bridger Drive
Bozeman, Montana 59715

MARCH 25, 2009

TABLE OF CONTENTS

Page

1.0 INTRODUCTION 1

1.1 PROJECT BACKGROUND 1
1.2 PURPOSE 2
1.3 SITE DESCRIPTION 2

2.0 METHODS 4

2.1 SURFACE WATER MONITORING 4
2.1.1 Long-Term Monitoring 4
2.1.2 Supplemental Water Quality Monitoring 5
2.1.3 Adit Water Quality Monitoring 5
2.2 GROUNDWATER MONITORING 5
2.2.1 Long-Term Monitoring 5
2.2.2 McLaren Pit Monitoring 6
2.2.3 New World Waste Repository Well Monitoring 6
2.3 DEVIATIONS FROM 2008/2009 WORK PLAN 7

3.0 RESULTS 8

3.1 SURFACE WATER 8
3.1.1 Discussion of Long-Term Surface Water Quality Data - Daisy Creek 8
3.1.2 Discussion of Long-Term Surface Water Quality Data – Fisher Creek 11
3.1.3 Discussion of Long-Term Surface Water Quality Data - Miller Creek 14
3.1.4 Discussion of Long-Term Surface Water Quality Data - Soda Butte Creek 14
3.1.5 Discussion of Adit Discharge Monitoring 15
3.2 GROUNDWATER 17
3.2.1 Fisher Creek Drainage 17
3.2.2 New World Waste Repository 18
3.3 MCLAREN PIT AREA SURFACE WATER AND GROUNDWATER MONITORING 20
3.3.1 Surface Water 20
3.3.2 Groundwater 22

4.0 SUMMARY 27

4.1 DAISY CREEK AND THE STILLWATER DRAINAGE 27
4.2 FISHER CREEK DRAINAGE 28
4.3 MILLER CREEK AND SODA BUTTE CREEK 28
4.4 NEW WORLD WASTE REPOSITORY 28

5.0 DATA VALIDATION 30

5.1 SURFACE WATER DATA VALIDATION 30
5.1.1 Field QA/QC 30
5.1.2 Laboratory QA/QC 31
5.1.3 Data Completeness 32

TABLE OF CONTENTS (continued)

Page

5.2 GROUNDWATER DATA VALIDATION 32
5.2.1 Field QA/QC 32
5.2.2 Laboratory QA/QC 32
5.2.3 Data Completeness 33

6.0 REFERENCES CITED 34

LIST OF APPENDICES

APPENDIX A - Figures

1 Project Vicinity Map
2 2008 Surface Water Monitoring Stations
3 2008 Adit Discharge Monitoring Sites
4 2008 Groundwater Monitoring Stations
5 2008 McLaren Pit Area Monitoring Stations
6 Concentration vs. Flow and Time Graphs for Station DC-2
7 Percent Decrease in Mean Metals Concentrations and Loads at Station DC-2 Compared to McLaren Pit Pre-Capping Means
8 Concentration vs. Flow and Time Graphs for Station DC-5
9 Percent Decrease in Mean Metals Concentrations and Loads at Station DC-5 Compared to McLaren Pit Pre-Capping Means
10 Concentration vs. Flow and Time Graphs for Station SW-7
11 Concentration vs. Flow and Time Graphs for Station FCT-11
12 Concentration vs. Flow and Time Graphs for Station FCT-12
13 Concentration vs. Flow and Time Graphs for Station SW-3
14 Percent Decrease in Mean Metals Concentrations and Loads at Station SW-3 Compared to Mean Concentrations Measured Prior to Closing the Glengarry Adit
15 Concentration vs. Flow and Time Graphs for Station SW-4
16 Concentration vs. Flow and Time Graphs for Station CFY-2
17 Concentration vs. Flow and Time Graphs for Station SW-2
18 Depth to Groundwater in Repository Wells SBGW-105T and SBGW-107T
19 Groundwater Elevation in Shallow Till - New World Waste Repository
20 Repository Sump Water Level Compared to Groundwater Levels in Well SBGW-107T and Surface Water Flow in Soda Butte Creek at Station SBC-4
21 Metal Loads Calculated for McLaren Pit Subsurface Drains at Station DC-2
22 Trends in pH & Specific Conductance at McLaren Pit Tributary Stations and Station DC-2
23 Trends in Sulfate, Copper, and Iron at Daisy Creek Tributary Stations and Station DC-2

LIST OF APPENDICES (continued)

24 Total Recoverable Copper and Iron Concentrations Measured at Stations DCT-8 and DCT-9
25 Total Recoverable Copper and Iron Concentrations vs. Flow at Stations DCT-8 and DCT-9
26 Groundwater Hydrographs for Waste Rock Wells 105 and 104 in McLaren Pit Cap Area
27 Paired Well Groundwater Hydrographs in the McLaren Pit Area
28 Groundwater Hydrographs in Select Wells in the McLaren Pit Area
29 Potentiometric Surface in Shallow Colluvium – McLaren Pit Area
30 2008 Field Parameter Measurements for Select Wells in the McLaren Pit Area
31 August 2008 Copper, Iron, and Sulfate Concentrations in Select Wells in the McLaren Pit Area
32 Comparison of Field Parameters and Analytical Data for Select Wells in the McLaren Pit Area for 2002 to 2008
33 Comparison of Field Parameters and Analytical Data for Background Wells, Waste Rock Wells, and the McLaren Pit Subsurface Drain - August 2008 Data

APPENDIX B - Tables

1 2008 Surface Water Sampling Stations
2 2008 Adit Discharge Monitoring Sites
3 McLaren Pit Area Monitoring Wells
4 Other District Monitoring Wells
5 Daisy Creek/Stillwater River Surface Water Results Comparison to Standards
6 Fisher Creek/Clarks Fork River Surface Water Results Comparison to Standards
7 Miller Creek Surface Water Results Comparison to Standards
8 Soda Butte Creek Surface Water Results Comparison to Standards
9 Tributary to Soda Butte Creek Surface Water Results Comparison to Standards
10 2008 Mine Adit Discharge Monitoring and Field Parameter Data
11 2008 Field Parameter Data – Como Basin Monitoring Wells
12 Comparison of Como Basin Well Monitoring Data
13 Groundwater Quality Data – New World Waste Repository Area
14 2008 Surface Water QA/QC Samples
15 2008 Groundwater QA/QC Samples

APPENDIX C - 2008 SURFACE WATER DATA

C-1 2008 Surface Water Summary
Table C-1 - 2008 Surface Water Summary
Table C-2 - 1989 To 2008 Surface Water Database
C-2 2008 Surface Water Field Forms

LIST OF APPENDICES (continued)

APPENDIX D - 2008 GROUNDWATER DATA

D-1 2008 Groundwater Summary
Table D-1 – 2008 Groundwater Summary
Table D-2 – McLaren Pit Monitoring Well Field Parameter Data - 2002 through 2008
D-2 2008 Groundwater Field Forms

APPENDIX E - FIELD NOTES

APPENDIX F - LABORATORY ANALYTICAL REPORTS

1.0 INTRODUCTION

Tetra Tech prepared this Surface Water and Groundwater Monitoring Report for the United States Department of Agriculture (USDA) Forest Service, Gallatin National Forest. This document presents surface water and groundwater data collected during the 2008 calendar year. Surface water and groundwater monitoring activities are being conducted in conjunction with on-going response and restoration work that is being completed in the New World Mining District (District).

Monitoring of surface water and groundwater quality falls within the purpose and objectives of the overall project, which are described in detail in the Overall Project Work Plan (Maxim 1999a). To avoid redundancy, only generalized descriptions of the project are provided in this report. The reader is encouraged to review the Overall Project Work Plan and the 2008/2009 Work Plan (Tetra Tech 2007b) to gain a comprehensive understanding of the overall project.

All figures referenced in this report are included in **Appendix A**. Data summary tables are included in **Appendix B** and complete surface and groundwater data are presented in **Appendix C** and **D**, respectively. Field notes and analytical laboratory reports are included in **Appendices E** and **F**. The project database and other project documents referenced in this report are available on the project website at the following address:

http:/www.fs.fed.us/r1/gallatin

1.1 PROJECT BACKGROUND

The District, which includes a mixture of National Forest System (NFS) and private lands, is a historic metals-mining district located in the vicinity of Cooke City, Montana. This historic mining district is centered about four miles northeast of the northeast gate to Yellowstone National Park, and contains hard rock mining wastes and acid discharges that impact human health and the environment. Human health and environmental issues are related to elevated levels of heavy metals present in acidic water discharging from mine openings, surface water, stream sediments, and groundwater. Issues related to mine waste dumps and open pits were also present but have been largely addressed through reclamation activities.

On August 12, 1996, the United States signed a Settlement Agreement with Crown Butte Mines, Inc. (CBMI) to purchase CBMI's interest in their District holdings. The resulting transfer of property to the United States effectively ended CBMI's proposed mine development plans and provided $22.5 million to cleanup historic mining impacts on specific properties in the District. In June 1998, a Consent Decree was signed by all interested parties and CBMI, and approved by the U.S. District Court, that finalized the terms of the Settlement Agreement and made available the funds that are being used for mine cleanup.

The USDA Forest Service, as the lead agency responsible for implementing the cleanup of the District, has assembled an organization and guiding objectives to proceed with response actions and restoration of historic mining impacts in the District. Under their Superfund authority, the USDA Forest Service is conducting response and restoration activities by following guidance

provided by the United States Environmental Protection Agency (U.S. EPA) for non-time-critical removal actions (U.S. EPA 1993).

1.2 PURPOSE

The primary purpose of surface water and groundwater monitoring conducted during 2008 was to continue to collect data to document changes in water quality that result from response and restoration actions. Surface water quality monitoring is also being conducted in the District to comply with the requirements of the rule adopting temporary water quality standards for segments of Daisy Creek, the Stillwater River, and Fisher Creek (Maxim 2003a) in accordance with the Montana Water Quality Act (§ 75-5-201 et seq.).

In addition to long-term surface water monitoring conducted in 2008 at specific stations in the Daisy Creek, Fisher Creek, Miller Creek, and Soda Butte Creek drainages, surface water monitoring was performed at other select sites in support of more detailed studies of water quality. These select sites include the Glengarry Adit, Gold Dust Adit, Como Basin areas, the reclaimed McLaren Pit area, and the New World Waste Repository area.

Long-term groundwater monitoring was also conducted in 2008 along with additional groundwater monitoring performed in the McLaren Pit and New World Waste Repository areas in support of more detailed studies of groundwater characteristics.

1.3 SITE DESCRIPTION

The New World Mining District is located in the southern end of Park County in south-central Montana. The District is bounded on the south by the Montana-Wyoming state line, on the west by Yellowstone National Park, and on the north and east by the Absaroka-Beartooth Wilderness Area boundary (**Figure 1**). The communities of Cooke City and Silver Gate, Montana, are the only population centers near the District. The neighboring communities of Mammoth, Wyoming, and Gardiner, Montana, are located about 85 kilometers (50 miles) to the west.

The District is characteristic of sub-alpine regions of the northern Rocky Mountains with elevations ranging from approximately 2,400 meters (7,900 feet) to over 3,100 meters (10,200 feet). Accumulated snow pack in the higher elevations ranges in depth from three meters (10 feet) to over six meters (20 feet) where drifting occurs. The ground is generally snow covered from late October through mid May at the lower elevations and from early October through late June at the higher elevations. Perennial and semi-perennial snowfields occupy the north facing slopes of the highest mountain peaks.

Area streams are high energy, first and second order tributaries of the Yellowstone River system. These streams occupy glacially carved valleys and are fed largely by melting snow pack. Peak streamflow is characteristically reached by mid June or early July and may be several orders of magnitude higher than base flow conditions, which typically occur from late August through early spring. Three drainage basins have been identified as being impacted by historic mining activities: 1) Fisher Creek and the Clarks Fork of the Yellowstone River, 2) Daisy Creek and the Stillwater River, and 3) Miller Creek and Soda Butte Creek.

The District covers an area of about 10,360 hectares (25,600 acres). Historic mining disturbances affect about 20 hectares (50 acres) located on District Property, which includes all lands or interest in lands transferred to the United States by CBMI. The main mining disturbances on District Property include the McLaren Pit, the Como Basin, and numerous small waste dumps and adit discharges. Many of these sites have been reclaimed since the project was initiated in 1999. Mining disturbances on non-District Property include the McLaren Tailings and Mill Site, which cover an additional 6.9 hectares (17 acres), the Great Republic Smelter (0.2 hectares; 0.5 acres), and waste associated with numerous scattered mines and prospects. A portion of the McLaren Mill Site (1 hectare; 2.5 acres) and the Great Republic Smelter were reclaimed in 2005 by the USDA Forest Service and the EPA in conjunction with reclamation activities on District properties.

2.0 METHODS

Surface water and groundwater monitoring activities were conducted in accordance with the 2008/2009 Work Plan (Tetra Tech 2007b), the Site-Wide Sampling and Analysis Plan (Site-Wide SAP; Maxim 1999b), and the Long-Term Surface Water Quality Monitoring Plan (Maxim 1999c). More detailed descriptions of sampling methods can be found in these documents. A summary of methods used to complete monitoring activities during 2008 is provided in this section.

The winter of 2007/2008 was exceptional in terms of accumulated snowpack. With a total snowfall of 260 inches, the winter of 2007/2008 had the greatest amount of snowfall recorded in Cooke City since 1978 and was 42 inches above the 20-year average snowfall of 218 inches (WRCC 2008).

The winter of relatively high snow accumulation was followed by a cool and wet spring that delayed snowmelt. As a result, peak streamflows were realized a month or more past the previous five to ten years of record. Persistent snow pack prevented access to surface water sites during June and groundwater sites during July. Hence, surface water sites were monitored in July and groundwater sites were monitored in August. The September monitoring schedule was consistent with previous years.

2.1 SURFACE WATER MONITORING

Surface water monitoring was conducted at 12 long-term stations and 14 supplemental stations during 2008. Eight adit stations were also monitored during 2008. Surface water sampling stations are shown on **Figure 2** and listed in **Table 1**. Adit locations are shown on **Figure 3** and listed in **Table 2**.

Sampling and analytical methods are described in the Tetra Tech's 2008/2009 Work Plan and the Long-Term Surface Water Quality Monitoring Plan (Maxim 1999c). Samples were analyzed for total recoverable metals, dissolved metals (except the four Soda Butte Creek stations), common ions, and other parameters including alkalinity, acidity, total suspended solids (TSS), and total dissolved solids (TDS).

2.1.1 Long-Term Monitoring

The 12 long-term surface water monitoring stations have been consistently monitored since 1999, with many of the sites monitored more frequently during the 1990's. Long-term surface water monitoring was conducted in April, July, and September 2008. Monitoring occurred at or near winter low flow conditions (April), at or near high flow conditions (July), and during fall low flow conditions (September). All surface water samples were submitted to Northern Analytical Laboratories, Inc., (NAL) in Billings, Montana, for analysis of parameters listed in the 2008/2009 Work Plan (Tetra Tech 2007b). Discharge measurements, field parameters, and field observations were recorded at all surface water monitoring stations during each sampling event following established standard operating procedures.

2.1.2 Supplemental Water Quality Monitoring

Supplemental water quality monitoring was conducted at stations located in tributaries to Daisy Creek, on the Stillwater River, in Fisher Creek, Soda Butte Creek, and in a tributary to Soda Butte Creek. **Table 1** identifies these supplemental stations and the frequency sampled. Field parameters were collected at the stations listed in **Table 1** during each monitoring event and included measuring streamflow, pH, specific conductance (SC), and temperature. Samples were collected for laboratory analysis. Samples were shipped to NAL for analysis of parameters listed in the 2008/2009 Work Plan (Tetra Tech 2007b).

2.1.3 Adit Water Quality Monitoring

Eight adit stations were monitored during September 2008 to determine base flow conditions (**Table 2**). Three of these adit stations were dry at the time of the site visit in September. The Locations of the adits monitored are shown in **Figure 3**. Where adit discharges were occurring, monitoring involved measuring field parameters including flow, temperature, pH, and specific conductivity (SC). Samples were also collected from discharging adits and shipped to NAL for laboratory analysis of surface water parameters listed in the 2008/2009 Work Plan (Tetra Tech 2007b).

2.2 GROUNDWATER MONITORING

Groundwater monitoring was conducted at 43 well locations in 2008. Wells monitored are listed in **Tables 3** and **4** and are shown on **Figures 4** and **5**. Samples were collected at select wells for laboratory analysis of dissolved metals, common ions, and other parameters including alkalinity, acidity, and total dissolved solids.

For the collection of field parameters, depth to groundwater was first measured in monitoring wells using a decontaminated electric water level indicator. The well was then purged to allow formation water to enter the well. If the water level in the well was less than about 65 feet (or 20 meters) then field parameters were measured in the well using a down-hole multi-probe (YSI 556 with a 20 meter cable). Deeper water levels would necessitate the use of a flow-through cell while purging the well with a submersible pump or bringing water samples to the surface using a bailer. Field parameters measured included temperature, pH, SC, dissolved oxygen, and oxidation/reduction potential (ORP).

2.2.1 Long-Term Monitoring

Long-term groundwater monitoring was conducted at 13 (of the 43) monitoring wells during August 2008 when groundwater levels were at or near seasonal highs. These stations have been monitored consistently since 1999 and occasionally during the previous 15 years, depending on the date of installation. Wells monitored for long-term monitoring purposes included three wells in the McLaren Pit area and 10 wells in Fisher Creek (**Figures 4** and **5** and **Tables 3** and **4**). Monitoring included measuring depth to water, purging wells, measuring field parameters using a down-hole multi-probe, collecting samples, and submitting samples to NAL for analysis of parameters listed in the 2008/2009 Work Plan (Tetra Tech 2007b).

2.2.2 McLaren Pit Monitoring

Supplemental groundwater monitoring was conducted in the McLaren Pit area during 2008 to document changes in groundwater conditions downgradient of the McLaren Pit area following the construction of the McLaren Pit cap (completed in October 2003). In addition to the August monitoring event, groundwater monitoring was conducted at select well locations in September. August monitoring activities consisted of measuring depth to water, purging wells, measuring field parameters, and collecting samples for laboratory analysis (**Table 2**). Samples were shipped to NAL for analysis of parameters listed in the 2008/2009 Work Plan (Tetra Tech 2007b).

September monitoring activities consisted of measuring depth to water, and purging wells to measure field parameters in the groundwater recharging the wells. Any exceptions to the method for collecting field parameters were made based on specific field conditions and are noted in **Table D-2** in **Appendix D-1**.

McLaren Pit monitoring also included continuous recording of water levels in two waste rock wells (DCGW-104 and DCGW-105) using down-hole water level instruments. These instruments were initially installed in these wells during 2005.

2.2.3 New World Waste Repository Well Monitoring

Three well pairs installed in glacial till and bedrock on the margins of the New World Waste Repository were monitored in 2008 to document groundwater conditions adjacent to the repository. The till and bedrock wells were monitored in May (high groundwater levels) and August (low groundwater levels). Monitoring activities consisted of measuring depth to water, measuring field parameters, purging wells, and collecting samples for laboratory analysis. Samples were submitted to NAL for analysis of parameters listed in the 2008/2009 Work Plan (Tetra Tech 2007b).

In addition to monitoring during May and August 2008, continuous recording of water levels was conducted in the repository sump and two wells screened in the glacial till (SBGW-105T and SBGW-107T) using water level instrumentation. These instruments were initially installed in 2003. Water level data were downloaded regularly throughout the year and the instruments were inspected to insure proper operation. Samples of the sump water were collected in May and September for laboratory analysis.

Sump fluids were removed by pumping on September 24 and 25, 2008. The water level instrument and related piping in the sump was withdrawn to allow the sump to be emptied of accumulated fluid.

2.3 DEVIATIONS FROM 2008/2009 WORK PLAN

As previously mentioned, exceptional snowpack followed by a cool Spring resulted in a delay of about 30 days for surface water and groundwater monitoring events (e.g., July and August instead of June and July). Other deviations from the 2008/2009 Work Plan are listed below:

- The repository sump was sampled in May and September 2008 to determine water chemistry of accumulated fluids.
- At surface water stations SW-3 and DC-2, additional samples were collected and filtered for dissolved metals analysis in September 2008. The degree of dissolved metal contribution at these sites will be compared to previous data in consideration of completed reclamation upstream and future remediation alternatives in Daisy Creek.

3.0 RESULTS

Surface water and groundwater data collected for the New World Mining District Response and Restoration Project during 2008 are summarized in this section. Field sample forms and laboratory analytical reports are contained in separate appendices at the end of this report.

3.1 SURFACE WATER

This section presents a discussion of surface water quality data collected in 2008. Figures and data summary tables are included in **Appendices A and B**, respectively. **Appendix C** contains a summary of surface water results for 2008 (**Appendix C-1**, **Table C-1**), the surface water database since 1989 (**Appendix C-1**, **Table C-2**), and surface water field forms (**Appendix C-2**). **Appendix D** contains a summary of groundwater results for 2008 (**Appendix D-1**, **Table D-1**), McLaren Pit monitoring well field parameter data since 2002 (**Appendix D-1**, **Table D-2**), and groundwater field forms (**Appendix D-2**). **Appendix E** contains additional 2008 field season notes. **Appendix F** contains the laboratory analytical reports and chain of custody forms.

3.1.1 Discussion of Long-Term Surface Water Quality Data - Daisy Creek

Table 5 compares selected 2008 surface water analytical data with corresponding regulatory standards for surface water stations on Daisy Creek and the Stillwater River. The shading and/or color of concentration values for each monitoring station indicate exceedances of regulatory standards or guidelines (e.g., yellow shading indicates exceedance of the acute aquatic life standard). Metals concentrations measured in samples collected from the Daisy Creek and Stillwater River stations in 2008 did not exceed temporary or narrative water quality standards.

Much of the foregoing discussion of the 2008 data for stations DC-2 and DC-5 compares mean concentrations of metals that were measured prior to the completion of the cap over the McLaren Pit waste rock with mean concentrations of metals measured after that date. The construction of the cap was completed in October 2003. These data have been divided into low flow and high flow data sets, with the low flow data defined as any measurement taken during the months of August through May, and the high flow data defined as any measurement taken during the months of June and July. As previously mentioned, the exceptional snowpack and cool Spring resulted in a slower than normal melt-off of snow and sustained surface water runoff in 2008.

As in 2007, mean value comparisons were used to measure changes in chemistry since the cap was constructed. As the post-capping data set becomes larger with continued monitoring (currently there are 11 low flow data points and five high flow data points), other statistical measures of central tendency may be better suited for the comparisons presented in this report.

Station DC-2

Monitoring of station DC-2 during 2008 indicated a continued improvement in water quality since emplacement of the McLaren Pit cap in October 2003. With the cap in place, there is a greater contribution of uncontaminated water during the Spring snowmelt period in upper Daisy Creek. Also, infiltration of snowmelt has been greatly reduced into metal and sulfide rich soil, waste materials, and bedrock of the McLaren Pit. In addition, this lack of infiltration in the McLaren Pit is believed to result in lower stream flow of the tributaries to upper Daisy Creek during "low flow" periods (August to May) (Maxim 2005 and **Appendix C-1**, **Table C-2**).

At surface water station, DC-2, water quality was poor and acidic in April and September (**Table 5**), which is consistent with previous data collected at this station during these months, both pre- and post-capping. In July, the pH of water sampled at this station was near neutral (i.e., 6.8) and metals concentrations were much lower. Similar conditions were recorded during 2004 through 2007 in high flow (June) monitoring events at this station. Concentrations of dissolved metals were analyzed in September 2008 and were about the same as total recoverable concentrations with exception to dissolved iron which was 38% lower than total recoverable iron. Based on the very acidic pH measured at this station, this result is expected, as metals tend to stay in the dissolved form in acidic environments.

Cadmium, copper, and iron exceeded acute and/or chronic aquatic life standards in all three 2008 monitoring events at station DC-2 (**Table 5**). In addition, lead and zinc exceeded the acute and/or chronic aquatic life standards during June and September. Human health standards and/or guidelines for copper, iron, and manganese were also exceeded in most samples collected from station DC-2.

Figure 6 shows copper, iron, and zinc concentrations vs. flow and time graphs for DC-2 and **Figure 7** shows the percent decrease/increase in mean metal concentrations and load when comparing pre-capping data to post-capping data (post-October 2003) for both high flows (June and July data) and low flows (August through May data). Supporting data for these figures are presented in **Table C-2** of **Appendix C-1**. Concentrations vs. time graphs indicate that post-capping metal concentrations during high flows have been some of the lowest measured (**Figure 6**).

There has been an overall decrease of 62% in metal concentrations (aluminum, cadmium, copper, iron, lead, manganese, and zinc) in high flows averaged since capping of the McLaren pit. There has been an overall decrease of 10% in metal concentrations in low flows averaged since capping. The average concentration of zinc increased slightly (about 5%) during the post-capping, low flow category (**Figure 7**).

Average stream flow during low flow periods, after capping of the McLaren pit, was 64% lower than the average stream flow during low flow periods, before capping. This decline in stream flow has resulted in substantial decreases in metal loads during low flow periods.

There has been an overall decrease of 38% in metal loads (aluminum, cadmium, copper, iron, lead, manganese, and zinc) in high flows averaged since capping of the McLaren pit. There has been an overall decrease of 49% in metal loads in low flows averaged since capping (**Figure 7** and **Appendix C-1**, **Table C-2**).

Station DC-5

At station DC-5, pH of the water increases notably from that measured at station DC-2 due to the addition of more carbonate-rich water from bedrock and tributary sources located downstream of station DC-2 (**Table 5**). Total recoverable metal concentrations are also considerably lower at this station, as the higher pH results in precipitation of much of the metals load upstream of DC-5.

Copper exceeded acute or chronic aquatic life standards in all 2008 monitoring events (**Table 5**). Cadmium, iron, lead, and zinc exceeded acute and/or chronic aquatic life standards in at least one of the three monitoring events. Manganese exceeded the human health guideline during all three monitoring events and iron exceeded the human health guideline in April and September. **Table 5** also shows dissolved metal concentrations measured at station DC-5. Dissolved concentrations of cadmium and copper, at this station, exceeded aquatic water quality standards in at least two of the three monitoring events. Nearly all of the cadmium and manganese measured at station DC-5 exist in dissolved concentrations.

Figure 8 shows copper, iron, and zinc concentrations vs. flow and time graphs for DC-5. **Figure 9** shows the percent decrease/increase in mean metals concentrations and load when comparing pre-capping data to post-capping data (post-October 2003) for high flows (June and July data) and low flows (August through May data). Supporting data for these figures are presented in **Table C-2** in **Appendix C-1**. Concentration vs. flow and time graphs indicate that post-capping metal concentrations during high flows have been some of the lowest measured, similar to station DC-2.

There has been an overall decrease of 50% in metal concentrations (aluminum, cadmium, copper, iron, lead, manganese, and zinc) in high flows averaged since capping of the McLaren pit. There has been an overall decrease of 31% in metal concentrations in low flows averaged since capping (**Figure 9**).

There has been an overall decrease of 34% in metal loads (aluminum, cadmium, copper, iron, lead, manganese, and zinc) in high flows averaged since capping of the McLaren pit. There has been an overall decrease of 26% in metal loads in low flows averaged since capping. Average lead load has increased 12% during high flow events and average iron load has increased 3% during low flow events between pre- and post- McLaren cap emplacement (**Figure 9** and **Appendix C-1**, **Table C-2**).

Station USGS-11890

Station USGS-11890 was monitored in September 2008. The pH of the water at this station increases from that measured at station DC-5 due to the continued addition of more carbonate-rich water from bedrock sources and confluence with the Stillwater River. Total recoverable metal concentrations are also considerably lower at this station (**Appendix C-1**, **Table C-1**).

Cadmium and copper exceeded acute or chronic aquatic life standards in the September 2008 monitoring event (**Appendix C-1**, **Table C-1**). Manganese exceeded the human health guideline during this event. Dissolved cadmium exceeded the chronic aquatic water quality

standard. All of the cadmium and manganese measured at station USGS-11890 exist in dissolved concentrations.

Station SW-7

Data collected at station SW-7 indicate that total recoverable copper concentrations exceeded the chronic and/or acute aquatic life standard in July and September (**Table 5**). Iron exceeded the human health guideline in July. Dissolved analyses for metal concentrations at station SW-7 were below applicable standards or guidelines in 2008, with the exception of copper exceeding the chronic aquatic life standard in July.

Figure 10 shows copper, iron, and zinc concentrations vs. flow and time graphs for station SW-7. Copper concentrations measured at this station generally increase as flow increases. Iron concentrations increase slightly with increasing flows. Zinc concentrations are not as strongly related to flow conditions (i.e. concentrations increase or decrease independent of flow). The copper data indicate that suspended sediment is entrained during higher flow conditions. Aluminum and copper concentrations presented in **Table 5** support this observation as total recoverable concentrations measured during high flow in 2008 (July) are about four times higher than dissolved concentrations. Dissolved iron concentrations in July were below analytical reporting limits indicating that all of the iron was in the suspended fraction.

3.1.2 Discussion of Long-Term Surface Water Quality Data – Fisher Creek

Table 6 compares selected 2008 surface water analytical data with corresponding regulatory standards for surface water stations on Fisher Creek and Clarks Fork of the Yellowstone River. Shading and/or color of the concentration values for each monitoring station indicates which regulatory standard was exceeded. As in Daisy Creek, water quality in Fisher Creek improves downstream, with considerable improvements noted at stations CFY-2 and SW-6 (Clarks Fork of the Yellowstone River). Metals concentrations measured in samples collected from the Fisher Creek and Clarks Fork of the Yellowstone River stations in 2008 did not exceed temporary or narrative water quality standards.

Closure of the Glengarry Adit in September 2004 significantly improved water quality in Fisher Creek (Tetra Tech 2008a). The Como Basin Cap was completed in October 2006. Changes in water quality at supplemental surface water station FCT-11 immediately below the Como Basin and station FCT-12 in upper Fisher creek, will be discussed below.

Stations FCT-11 and FCT-12

Surface water station FCT-11 is a major tributary to Fisher creek that drains the Como Basin. At station FCT-11, pH was acidic in July (4.5 s.u.) and September (3.4 s.u.). Concentration vs. flow and time graphs at station FCT-11 (**Figure 11**) indicate that metal concentrations increased when the Como Basin response action (capping) was initiated (2005) and have remained at or above mean concentrations. However, there is an indication that metal concentrations are decreasing at this station where there was an overall decrease of 60% in metal concentrations between September 2006 and 2008 monitoring events (**Appendix**, **C-1**, **Table C-1**; Maxim 2007a and Tetra Tech 2008a).

Surface water station FCT-12 is located on a tributary to Fisher Creek that drains an undisturbed area of mineralized Fisher Mountain Intrusive porphyry rock (south of the Como Basin). At station FCT-12, pH was acidic in July (3.5 s.u.) and September (4.6 s.u.). Concentration vs. flow and time graphs at station FCT-12 (**Figure 12**) indicate no significant change in metal concentrations through initiation and completion of the Como Basin response action.

Station SW-3

At surface water station, SW-3, water quality was poor and acidic in each of the three 2008 monitoring events, which is consistent with previous data collected at this station. Total recoverable cadmium, copper, iron, lead, and zinc exceeded acute and/or chronic aquatic life standards in at least two of the three 2008 monitoring events (**Table 6**). Human health guidelines for iron and manganese were exceeded during all three 2008 monitoring events.

Concentration vs. flow and time graphs for copper, iron, and zinc are presented in **Figure 13**. Data collected since closure of the Glengarry Adit in September 2004, indicate that metal concentrations have decreased to some of the lowest levels measured during low and high flow monitoring events.

Figure 14 shows the percent decrease in mean metal concentrations and load when comparing pre-Glengarry adit closure to post-Glengarry adit closure (completed in September 2004) for both high flows (June and July data) and low flows (August through May data). The percent decrease in low flow metal concentrations since the adit was closed range from 5% (for copper) to 82% (for iron) for a combined average decrease of 41 %. For high flow, the decrease in metal concentrations range from 27% (for aluminum) to 76% (for cadmium) for a combined average decrease of 54%.

Average stream flow, post-Glengarry adit closure, has averaged 45% lower than the average stream flow before Glengarry adit closure. This decline in stream flow has resulted in substantial decreases in metal loads.

There has been an overall decrease of 47% in metal loads (aluminum, cadmium, copper, iron, lead, manganese, and zinc) in high flows averaged since adit closure. There has been an overall decrease of 72% in metal loads (92% for iron) in low flows averaged adit closure (**Appendix C-1**, **Table C-2**). As mentioned previously, characterizing the central tendency of a data set using the mean value is just one way to describe changes observed in chemistry at this station since the Glengarry adit was closed.

Dissolved concentrations of metals were measured in September 2008 at station SW-3 and were nearly identical to total recoverable concentrations. Based on the acidic pH measured at this station (field pH of 3.8 s.u.), this result is expected, as metals tend to stay in the dissolved form in acidic environments.

Station FC-4

Station FC-4 is located on Fisher Creek, above the Gold Dust Adit tributary and former road crossing to the Gold Dust Adit. The station had been monitored sporadically between October

1989 and May 1998 (URS, 1998). Monitoring was again initiated in 2007 and continued in 2008 during the month of September.

The pH and SC measured in September 2008 were 4.4 s.u. and 153 micromhos/centimeter (µmhos/cm), respectively. The range of pH in previous low (base) flow monitoring events (October 1989, April 1992, September 1993, September 1996, and March and April 1998) was between 3.0 and 3.9 s.u.. The range of SC for these monitoring events was 243 to 1,273 µmhos/cm. Metals including aluminum, copper, iron, manganese, and zinc measured in September 2008 were lower than the average of each of these metals for the five historical base flow monitoring events. Total recoverable and/or dissolved concentrations of cadmium, copper, and zinc exceeded acute and/or chronic aquatic life standards in the September 2008 monitoring event. Human health guidelines for iron and manganese were also exceeded (**Appendix C-1**, **Table C-1**).

Station SW-4

At station SW-4, total recoverable and dissolved cadmium concentrations exceeded the chronic aquatic life standard in the April and September monitoring events. Total recoverable and dissolved copper concentrations exceeded the chronic and acute aquatic life standards in all three monitoring events (**Table 6**).

Concentration vs. flow and time graphs for copper, iron, and zinc are presented in **Figure 15** since 1989. These data indicate that the 2005 through 2008 data (post Glengarry Adit closure monitoring) for copper, iron, and zinc are at the low end of historic concentration data measured at comparable flows. Geochemically, the reach of Fisher Creek, between station SW-3 and SW-4, changes considerably with a rise in pH (toward the near-neutral range) that allows metals to precipitate. The increase in pH with metals precipitation is one reason for the order of magnitude reduction in aluminum, copper, iron, and manganese concentrations measured at this station.

Station CFY-2

At station CFY-2, total recoverable copper concentrations exceeded the chronic and acute aquatic life standards in each of the three 2008 monitoring events. Dissolved copper concentrations also exceeded the chronic and acute aquatic life standards during July and September monitoring events. The dissolved concentration of aluminum exceeded the chronic aquatic life standard in the July monitoring event (**Table 6**). Geochemically, the reach of Fisher Creek between station SW-4 and station CFY-2 changes with an increase in pH and a decrease in metal concentrations.

Concentration vs. flow and time graphs for copper, iron, and zinc are presented in **Figure 16** since 1989. These data show that the 2005 through 2008 data (post Glengarry adit closure monitoring) for copper, iron, and zinc are at or below normal historic ranges at comparable flows. Concentrations range widely with flow, with higher concentrations of copper and iron associated with higher flows. The 2008 data had the lowest copper concentration measured during high flow and that zinc concentrations are independent of flow conditions.

Station SW-6

At station SW-6, on the Clarks Fork of the Yellowstone River, pH was similar to station CFY-2 although metals concentrations measured were lower than station CFY-2. Total recoverable copper concentrations exceeded the chronic and/or acute aquatic life standards during the April and July monitoring events. Dissolved copper concentrations exceeded chronic and acute aquatic life standards during the July event (**Table 6**).

3.1.3 Discussion of Long-Term Surface Water Quality Data - Miller Creek

Table 7 compares 2008 surface water analytical data with corresponding regulatory standards for two surface water stations, SW-2 and SW-5, on Miller Creek. Human health standards or guidelines for metals were not exceeded in the 2008 monitoring events and this is consistent with monitoring of these stations in previous years.

At station SW-2, total recoverable and dissolved copper concentrations exceeded acute and/or chronic aquatic life standards during all three 2008 monitoring events. **Figure 17** shows concentration vs. flow and time graphs for copper, iron, and zinc at station SW-2 for the period of record. Copper and iron concentrations measured in 2008 appeared to be within historic ranges. The zinc concentration has decreased to near or below the detection limit since June 2005. As documented in previous years, copper continues to be the only metal of concern in Miller Creek, with a potential source of copper being the mineralized slopes of Henderson Mountain that contain above normal concentrations of copper in the soil (Maxim 2003b).

At station SW-5, total recoverable and dissolved copper concentrations exceeded acute and chronic aquatic life standards in the July monitoring event. Miller Creek was flowing at this station during the 2008 low flow (April and September) monitoring events.

3.1.4 Discussion of Long-Term Surface Water Quality Data - Soda Butte Creek

Table 8 compares selected 2007 and 2008 surface water analytical data with corresponding regulatory standards for the four surface water stations on Soda Butte Creek. Monitoring during 2008 was conducted during April, July, and September. Metal concentrations measured, in 2008, at all main stem Soda Butte Creek stations (i.e., SBC-1, -2, -4, and SBSW-102) appear to be within historic ranges. Removal of mine waste from a portion of the McLaren Mill Site, and removal of slag and soil containing elevated metals from the Great Republic Smelter in 2005 has contributed to improvement of water quality in Soda Butte Creek (Tetra Tech 2008b and 2008c). Continuing detection of metals in Soda Butte Creek at these stations may also originate from other sources that remain in the watershed including the remaining McLaren Tailings and mine waste sites located in the Woody Creek and Republic Creek drainages.

Station SBC-1

Station SBC-1 is on the downstream margin of the McLaren Mill site and McLaren Tailings on the main stem of Soda Butte Creek. No exceedance of applicable standards occurred during any of the three monitoring events at this station.

Station SBC-2

Station SBC-2 is situated downstream of the McLaren Mill site and McLaren Tailings site. Copper concentrations exceeded the chronic aquatic life standard in the July monitoring event and iron concentrations exceeded the chronic aquatic life standard in the April and September monitoring events. The human health guideline for iron was also exceeded at this station in April and September. The human health guideline for manganese was exceeded in September.

Results of the 2006 through 2008 monitoring of station SBC-2 have indicated water quality improvements in comparison with 2005 and earlier monitoring results. A decrease in metal concentrations and load in Soda Butte Creek at station SBC-2 has been attributed to removal of the McLaren Mill site waste on NFS land, along Soda Butte Creek, during 2005. Additional details of this analysis are provided in a Technical Memorandum, McLaren Mill Site Water Quality Monitoring Results (Tetra Tech 2008b).

Stations SBSW-102 and SBC-4

Station SBSW-102 is located immediately below the confluence of Woody Creek and Soda Butte Creek and downstream of the Great Republic Smelter site. Copper concentrations exceeded the chronic aquatic life standard in July 2008 and iron concentrations exceeded the chronic aquatic life standard in April 2008. The human health guideline for iron was also exceeded at this station in all 2008 monitoring events.

Station SBC-4 is located at the Yellowstone National Park boundary. Iron concentrations exceeded the human health guideline at April and July monitoring in 2008 while the copper concentration exceeded the chronic aquatic life standard in July.

Stations SBT-3 and SBT-6

Table 9 compares 2008 surface water analytical data with corresponding regulatory standards for stations SBT-3 and SBT-6, which lie along a tributary to Soda Butte Creek that drains the repository area (**Figure 2**).

At station SBT-3, concentrations of aluminum, copper, iron, lead, and manganese were detected in at least one of the three monitoring events (April, May, and/or September 2008). However, no exceedance of aquatic life standards or human health standard/guidelines occurred during any of these monitoring events.

At station SBT-6, during May 2008 there were increases in metal concentrations over that measured during May 2007. Chronic aquatic life standards for copper, iron, and lead and human health guidelines for iron and manganese were exceeded during the May 2008 monitoring event.

3.1.5 Discussion of Adit Discharge Monitoring

Eight adit discharges were monitored in the District during 2008 (**Figure 4** and **Table 2**). These sites were monitored in September to characterize discharge during low (base) flow conditions.

Additionally, the Glengarry adit site was observed for flow and was monitored for several field parameters.

Three of these adits, Henderson Mountain Dump 7, the Black Warrior Adit, and Henderson Mountain Adit, were dry by the time the site visits were made in September. The remaining five adit discharge sites were considered to be perennial flow with water quality exceeding aquatic standards and human health standards or guidelines. Monitoring results including field data are summarized in **Table 10**. Laboratory analytical results for samples are summarized in **Appendix C-1**, **Table C-1**). A brief discussion of each adit monitored is presented below.

Glengarry Adit

The Glengarry adit discharge (F-8A) was not scheduled for monitoring in the 2008/2009 Work Plan (Tetra Tech 2007b). However, a visual estimate of flow and measurement of field parameters was conducted in September 2008. Flow out of the reclaimed adit was estimated at 0.5 (gallons per minute) gpm. The pH of the discharge was 5.9 s.u. and SC was 426 µmhos/cm. As reported previously, adit closure has resulted in a reduction of adit discharge by 98% and a significant improvement in the water quality of the remaining discharge (Tetra Tech, 2008a).

Glengarry Mill Site Adit

The Glengarry Mill Site adit (F-8B) discharge was monitored at the portal in August 2008. Adit discharge was measured at 3.1 gpm, pH was 6.2 s.u, and SC was 268 µmhos/cm. Concentrations of cadmium, copper, iron, lead, and zinc exceeded acute and/or chronic aquatic standards. Human health guidelines for iron and manganese were also exceeded (**Table 10**). During August and September 2008, an underground grouting program was implemented at the Glengarry Mill Site adit and the adit portal was backfilled with site soil.

Gold Dust Adit

The Gold Dust Adit discharge (F-28) was monitored in September 2008. Measured adit discharge was 4.41 gpm. Human health guidelines for iron and manganese were the only standards exceeded in 2008 (**Table 10**).

Lower Tredennic Dump 1

The Lower Tredennic Dump 1 discharge (FCSI-96-5) was monitored in September 2008. Measured adit discharge was 1.64 gpm. Of the metals analyzed, only manganese exceeded the human health guideline (**Table 10**).

Henderson Mountain Dump 7

The Henderson Mountain Dump 7 (AE-17) did not have any discharge during adit monitoring activities in September 2008.

McLaren Adit

The McLaren Adit discharge (D-18) was monitored in September 2008. Measured discharge was 5.95 gpm and pH was 5.9 s.u. The concentration of iron exceeded the chronic aquatic standard and human health guidelines for iron and manganese were also exceeded (**Table 10**).

Black Warrior Adit

The Black Warrior Adit discharge (M-8) did not have any discharge during adit monitoring activities in September 2008.

Little Daisy Adit

The Little Daisy Adit discharge (M-1) was monitored in September 2008. Measured discharge was 8.93 gpm and pH was 6.7 s.u. The concentration of iron exceeded the chronic aquatic standard and human health guidelines for iron and manganese were also exceeded (**Table 10**).

Henderson Mountain Adit

The Henderson Mountain Adit (M-25) did not have any discharge during adit monitoring activities in September 2008.

3.2 GROUNDWATER

Groundwater monitoring was conducted during 2008 in monitoring wells located in the McLaren Pit area, the Fisher Creek drainage, and the New World Waste Repository area. Wells monitored in 2008 are listed in **Tables 3** and **4** and well locations are shown on **Figures 4** and **5**. Included in **Appendix D-1** are **Tables D-1** and **D-2** that summarize groundwater monitoring data collected in 2007. Supporting documentation for the 2008 groundwater monitoring events is included in **Appendix D-2** (groundwater field forms), **Appendix E** (field notes), and **Appendix F** (laboratory analytical reports and chain of custody forms). The discussion of McLaren Pit area groundwater monitoring is presented in a separate section (Section 3.3).

3.2.1 Fisher Creek Drainage

Field parameter data collected in 2008 from Como Basin monitoring wells MW-1, EPA-11, EPA-12, FCGW-100 (headwaters of Fisher Creek), and Tracer 5 are presented in **Table 11**. The wells are completed in various bedrock formations. Well MW-1 is completed and screened in Wolsey Shale, well EPA-11 in a Tertiary intrusive dike, EPA-12 in the Scotch Bonnet Diorite of the Fisher Mountain Tertiary Intrusive Complex (URS 1998), and FCGW-100 in the former Glengarry drift (approximately 385 feet below ground surface) of the Fisher Mountain Tertiary Intrusive Complex. Monitoring in August and September 2008 indicated that the pH of wells in the Como Basin ranged from 3.6 s.u. (Tracer 5) to 6.4 s.u. (EPA-12). Artesian flow existed in wells FCGW-100 and Tracer 5. Groundwater levels declined in wells EPA-11 and EPA-12 between the July and September monitoring events. Water levels were approximately one to four feet higher in wells EPA-11, EPA-12, and MW-1 compared to 2007 monitoring events. Bedrock water levels in the Como Basin follow the seasonal hydrograph (which was delayed in

2008), with highest levels coincident with spring runoff and associated high flows in the Fisher Creek drainage.

A comparison of groundwater chemistry in Como Basin monitoring wells including Tracer 5 is presented in **Table 12**. Groundwater in these wells is mineralized with hardness and SC greater than 100 mg/L and 400 µmhos/cm, respectively. The exception to this is well Tracer 5 with a hardness of 30 mg/L. Well Tracer 5 is located in a tributary drainage to Fisher Creek, southeast of the Como Basin. The 2008 monitoring data indicates high concentrations of aluminum, iron, lead, manganese, and zinc in groundwater of the Como Basin in comparison with groundwater sampled from monitoring wells down-basin in the Fisher Creek drainage (wells MW-10A/10B, MW-9A/9B, SB-16, and MW-11). Cation/anion data collected in 2008 and in previous years indicate that groundwater in the Como Basin is predominantly a calcium-magnesium-sulfate type water.

During August 2008, monitoring was conducted in wells MW-10A/10B, MW-9A/9B, SB-16, and MW-11 (**Appendix D**, **Table D-1**). Downstream of the Glengarry Adit, groundwater tends to be less mineralized. Wells MW-9B and MW-10B screened in shallow bedrock exhibited artesian conditions consistent with previous monitoring events. Monitoring of well pairs MW-9A/9B and MW-10A/10B (**Figure 3**) indicated an upward hydraulic gradient in 2008 as with previous monitoring events. Cation/anion data collected in 2008 and in previous years indicate that groundwater in bedrock at this location (wells MW-9B and MW-10B) is a calcium-sulfate type water.

Concentrations of iron and manganese in groundwater at well MW-9B exceeded the human health guidelines but were one to two orders of magnitude lower than concentrations measured in the Como Basin wells. Sulfate and hardness were less than 60 mg/L in wells MW-9A and 9B.

Wells SB-16 and MW-11 are completed in Precambrian granite. Well SB-16 is located upstream of the MW-10 well pair. Well MW-11 is located the farthest downstream of the wells monitored in the Fisher Creek drainage. Monitoring of well SB-16 in 2008 indicated lower sulfate and iron concentrations compared with well MW-10B. Monitoring well MW-11 in 2008 indicated that it was only slightly mineralized (hardness 14 mg/L, sulfate 13 mg/L, and total dissolved solids 89 mg/L) with the only metal detections being copper and iron detected near their respective PQLs.

3.2.2 New World Waste Repository

Six wells at three paired-well locations were monitored at the New World Waste Repository site in 2008. Each well pair consists of a well completed in glacial *till* material (the till well has a “T” designation) and a deeper well completed in Precambrian granite bedrock. These wells were monitored during May and August. Depth to groundwater levels were also measured on a daily schedule in *till* wells SBGW-105T and -107T using continuous water level monitoring devices (data loggers). **Figure 18** shows water level changes in the two wells since the water level monitors were installed in October 2003. **Figure 19** shows the shallow *till* groundwater elevation and flow direction measured at the repository site. Groundwater contours appear to be generally parallel to pre-repository topographic contours. **Table 13** summarizes field parameter measurements and analytical results for the monitoring wells and compares 2008 water quality data with June 2007 data.

The 2008 monitoring data indicated a downward hydraulic gradient in the vicinity of the SBGW-105 well pair (the *till* well has a shallower depth to water/groundwater than the bedrock well, **Table 13**). A downward gradient was also documented at this location in 2007 and 2006. Upward hydraulic gradients were documented at the SBGW-105 well pair location previous to 2006. The change in gradient direction was attributed to excavation and removal of *till* material between well pairs SBGW-105 and SBGW-108 as part of construction of the repository cap in 2006 (Tetra Tech 2007a). The 2008 monitoring of groundwater in the SBGW-107 well pair exhibited a downward hydraulic gradient which is consistent with previous years. The SBGW-108 well pair exhibited a slight downward hydraulic gradient in May and no clear upward or downward hydraulic gradient in August 2008. Monitoring of the SBGW-108 well pair in previous years had indicated a slight downward hydraulic gradient.

Continuous water level monitoring in wells SBGW-105T and SBGW-107T indicated that groundwater levels increased coincident with the melting of the accumulated snowpack in the repository area on about April 13, 2008. As in previous years, this coincided with an increase in streamflow at Soda Butte Creek station SBC-4, at the Yellowstone Park Boundary at Silver Gate (USGS Station #06187915). Water levels in wells SBGW-105T and SBGW-107T began rising within eight days after April 13, 2008, with peak levels reached on May 21 and 22, 2008. Between late July and mid August, water levels in both wells had dropped to pre-snowmelt period levels. Groundwater levels in the till had dropped below the water level monitoring sensor (and the screened interval) in well SBGW-107T by August 16th and did not rise again through September 2008 (the end of the monitoring field season). Water levels in SBGW-105T continued to decline through September 2008.

All three well pairs sampled in 2008 had pH values in the neutral to alkaline range, with the highest pH of 9.0 s.u. measured in well SBGW-107 (**Table 13**). Review of data in **Table 13** shows that copper continues to be detected in wells SBGW-107 and -108 at or near the PQL. Iron continues to be detected in well SBGW-105T. Manganese continues to be detected in the SBGW-105 and 107 well pairs and was detected near the PQL in well SBGW-108 in August 2008. The concentration of manganese in well SBGW-105T exceeded the human health guideline during the May and August monitoring events, consistent with historical data.

Repository Sump

Fluids accumulating in the repository sump were monitored using a continuous water level recorder and by collecting samples of sump fluids in May and September 2008 for laboratory analysis. **Figure 20** is a combination graph depicting sump water level through 2008, the groundwater level in the downgradient till well SBGW-107T, and streamflow at station SBC-4 on Soda Butte Creek (USGS station #06187915). **Figure 20** shows that a steeper water level rise in the sump, in 2005 through 2008, was coincident with the onset of snowmelt, which was also indicated by increasing stream flow in Soda Butte Creek and rising groundwater levels in the repository wells.

As in previous years, water level in the sump began to rise soon after the sump was emptied of fluid (22,500 gallons removed) in late September 2007. The sump's continuous water level recorder indicated a steady accumulation of fluid through the winter with a slight inflection toward a steeper rate of accumulation beginning around May 20, 2008 and lessening around

mid-July 2008 (**Figure 20**). On September 26, 2008, approximately 21,900 gallons of sump fluids were removed.

Water chemistry of the sump fluids collected in May and September 2008 (**Appendix D**, **Table D-1**) was similar to that measured in 2005 through 2007 (Maxim 2006; Tetra Tech 2007a, 2008b, and 2008a). The pH of the fluid was slightly acidic to near-neutral, 5.8 s.u. in May and 6.3 s.u. in September. Concentrations of alkalinity, sulfate, TDS, iron, and manganese are one to several orders of magnitude higher than groundwater sampled from the repository wells. Other than iron and manganese, all other metals in the sump fluid were at or near the PQL. Comparison of analytical results of sump fluids with those of the paired wells indicates that there have been no impacts to groundwater from leakage of sump fluids.

3.3 MCLAREN PIT AREA SURFACE WATER AND GROUNDWATER MONITORING

This section presents surface water and groundwater data collected in the McLaren Pit area during 2008 and compares it to previously collected data. Monitoring in the McLaren Pit area has been continued to evaluate surface water and groundwater conditions following capping of the McLaren Pit in October 2003.

3.3.1 Surface Water

In the McLaren Pit area, seven surface water stations were monitored in 2008, as in previous years. Stations DCT-7, DCT-8, DCT-9, and USGS-1700 are located on tributaries to Daisy Creek below the McLaren Pit. Stations DCSW-101, DCSW-102, and DCSW-103 are subsurface drains (also termed drains or underdrains) from under the McLaren Pit cap that discharge into a Daisy Creek tributary, upon which station DCT-8 is located (also know as the DCT-8 tributary, **Figure 5**). The subsurface drains were installed during the McLaren Pit Response Action to convey water created by springs originating from bedrock in the area of the McLaren pit high wall and downslope of the pit high wall. McLaren Pit area surface water stations were monitored in July, August, and September 2008.

As previously mentioned, the slow melt-off of the snowpack resulted in a later and more prolonged “high flow” period at the site. Hence, “high flow” monitoring was conducted in July when most of the surface water stations became accessible. Stations DCT-7 and -9 could not be accessed, due to overlying snowpack, until August. Field measurements and analytical results for these stations are contained in **Appendix C-1**, **Table C-1**.

Combined flow from the subsurface drains was 42.5 gpm in mid-July, falling to 7.5 gpm in late September. Combined flow from the drains has averaged 30.3 gpm during the high flow periods (June through August monitoring events) and 5.3 gpm during the low flow periods (September and October monitoring events).

Measured flows at station DCT-8 were 0.974 cubic feet per second (cfs or 437 gpm), 0.135 cfs (60 gpm), and 0.130 cfs (58 gpm) in July, August, and September, respectively. Assuming that flow is conserved in the channel between the drain discharge points and station DCT-8, the combined flow of the drains contributed 10 and 13 percent of the total flow at DCT-8 in July and September, respectively. Flow from the subsurface drains contributed considerably less to the overall flow measured at DCT-8 in September 2008, compared to 20% to 73% contribution in

previous low flow (September and October) monitoring events in 2005 through 2007. This may have been due to increased flow at DCT-8 in response to a relatively greater amount of late season snow melt in 2008. Flow measurements had indicated that drain flow is relatively sustained whereas streamflow in DCT-8 declines through the summer and fall seasons. Drain monitoring data collected between 2004 and 2007 indicates that the drains contributed 8-12% of the flow at DCT-8 in June, 48% in July and August, 20-36% in September, and 73% in October.

Table C-1 (Appendix C-1) shows water quality data collected from the McLaren Pit subsurface drains in 2008. Water from these drains exhibited very acidic pH values, ranging between 2.2 and 2.7 s.u., with generally poor water quality. This equates to aluminum, copper, iron, and manganese concentrations in the one to 100 milligram per liter (mg/L) range. Using an average of high flow measurements and an average of low flow measurements collected between 2005 and 2008, the metals contribution from the drains to Daisy Creek at surface water station DC-2 (for the same flow events) is shown in **Figure 21**. The average load contribution from the drains, at station DC-2, during high flow events between 2005 and 2008 was 74% for iron with considerable contributions of aluminum (21%), cadmium (34%), copper (52%), lead (12%), manganese (20%), and zinc (35%). The average load contribution from the drains, at station DC-2, during low flow events between 2005 and 2008 was 96% for iron with continued significant contributions of aluminum (15%), cadmium (16%), copper (26%), lead (22%), manganese (12%), and zinc (21%). As determined by monitoring during 2008 and previous years, most of the combined load from the three subsurface drains is from DCSW-101, which has the highest flow.

Station DCT-7 is considered to be upgradient and beyond the margin of influence of the McLaren Pit, although it does receive drainage from the borrow area from which cover soil was excavated to cover the McLaren cap. Flow at this station during August and September was 0.0485 cfs (21.8 gpm) and 0.0022 cfs (1.0 gpm), respectively. Surface water quality for both monitoring events at station DCT-7 was similar, with near-neutral pH and SC below 350 µmhos/cm. Although considered a tributary upgradient of the McLaren pit area, total recoverable and/or dissolved concentrations of cadmium and copper exceeded aquatic life standards at this station during both 2008 monitoring events and zinc exceeded acute and chronic standards in September. The concentration of manganese exceeded the human health guideline in September. Monitoring results indicate that concentrations of aluminum, cadmium, copper, and zinc have decreased at this station, since capping of the McLaren pit.

Water quality during the 2008 monitoring events at stations DCT-8 and DCT-9 was strongly acidic (pH 3.5 and 3.6 s.u.). Station USGS-1700 had mildly acidic pH values in 2008 (pH 4.7 and 6.1 s.u.). Specific conductance at stations DCT-8 and DCT-9 in 2008 ranged from 354 µmhos/cm (DCT-9) to 1,276 µmhos/cm (DCT-8). **Figures 22** and **23** display trends of laboratory pH, SC, sulfate, copper, and iron during June/July monitoring events (July/August for 2008) at tributary stations and station DC-2 for the years 2002 through 2008. For the most part, field and laboratory results indicated improved water quality in 2008 when compared to 2003 data (prior to the capping of the McLaren pit). Water quality also appears to be similar to slightly improved over 2007 field and analytical results.

Except for lead in the sample collected at station USGS 1700, surface water at station DCT-8 contained the highest metals and sulfate concentrations of the four tributaries sampled in 2008 (**Appendix C-1**, **Table C-1**). The higher lead concentrations measured at station USGS 1700 in

2008 are consistent with monitoring results in previous years. As in previous monitoring events, 2008 surface water quality data suggest that tributary DCT-8 is a principal pathway for the transport of low pH water containing high metals concentrations from the capped McLaren Pit area (Tetra Tech 2008a).

Figure 24 shows total recoverable copper and iron concentrations at stations DCT-8 and DCT-9 for all measurements collected to date. These graphs indicate that copper concentrations were generally higher in these two Daisy Creek tributaries prior to capping the McLaren Pit (prior to October 2003) and iron concentrations are either lower than previous data or at the lower range of concentrations measured pre-capping. The two groups of data, pre-and post-capping, are distinctly different, with the post-capping data showing much less variability and no extreme concentrations measured in the five years of data collected since October 2003.

Figure 25 shows copper and iron concentrations at stations DCT-8 and DCT-9 plotted against flow. As shown in the graphs, concentrations are lower during higher flow conditions than those measured during lower flow conditions, presumably due to the dilution effect of the melting snowpack. This relationship is similar with that of station DC-2 (see Section 3.1.1).

3.3.2 Groundwater

Figure 5 shows all monitoring well locations in the McLaren Pit area. **Table 3** indicates the wells that were monitored and when groundwater samples were collected for laboratory analysis. Monitoring wells DCGW-100 and Tracer 2 are completed in the Meagher Limestone and the Fisher Mountain Intrusive, respectively. These wells are situated upgradient of the former McLaren Pit, and considered as background wells for these two bedrock formations. Wells DCGW-104 and DCGW-105 are completed in waste rock within the McLaren Pit capped area. Two sets of paired wells are located downhill of the capped area and are used to evaluate the hydrologic interaction between the shallow colluvium (S designation) and shallow bedrock (D designation). These paired wells are DCGW-101S/D and DCGW-111S/D (**Figure 4**). A third well pair (DCGW-103S/D) is located west of the capped area. Only field parameters were collected from this well pair in August 2008.

Other wells sampled below the McLaren pit are completed in shallow colluvium. These wells define the limits of acidic groundwater containing elevated levels of metals between the McLaren Pit and Daisy Creek. Laboratory analytical data are presented in **Appendix D-1**, **Table D-1** and field parameter data, including depth to groundwater, is included in **Table D-2** of **Appendix D-1**. For brevity in the following groundwater discussion, the prefix (DCGW) used in the monitoring well designation for wells beginning with the number 100 is not used.

Groundwater Level Data

Groundwater levels in wells 104 and 105 were measured using continuous water level instruments (data loggers) that were installed in the wells in May 2005. Hydrographs for these two wells are shown in **Figure 26** for the entire period of record that continuous measurements have been collected.

As shown in the hydrographs, groundwater levels fall below the data loggers and total depth of the wells 104 and 105 through the late fall and winter. The data logger maximum depth to water

measurements was recorded on November 28, 2007 in well 105 and June 15, 2008 in well 104. As in the previous two years, the 2008 well hydrographs indicate a quick response to snowmelt, where groundwater levels rise in the spring/early summer (response began on May 31st in well 105 and on June 16th in well 104) and reached their peak height in July (peak reached on July 5th in well 105 and July 19th in well 104). The total data logger-measured rise in well 105 was 6.7 feet and in well 104 was 6.8 feet. Water levels in these wells were still declining on the last monitoring and data downloading event on September 16, 2008.

The 2008 continuous water level measurements show a two-week delay between the beginning of water level rise in well 105 and the beginning of water level rise in 104 (one week shorter than the delay period observed in 2006 and 2007). The apparent earlier water level response and peak in well 105 is attributed to the well's location which may be closer to groundwater sources in the McLaren pit high wall.

In 2008 and the previous three monitoring seasons, hydrographs for the two waste rock wells show that groundwater under the McLaren Pit cap follows the seasonal hydrograph. This indicates that groundwater beneath the cap is recharged in May through June. The source of recharge could be from groundwater moving laterally beneath the cap and/or groundwater moving upward from the Meagher Limestone and Wolsey Shale formations. Groundwater wells installed in bedrock units located in the pit prior to capping exhibited vertical upward gradients, indicating recharge from deeper bedrock was possible (URS 1998). In addition, the McLaren Pit subsurface drains (DCSW-101, DCSW-102, and DCSW-103), installed during construction of the cap, intercept springs that emanate from bedrock fractures.

Groundwater elevation trends for paired wells 101S/D and 111S/D are shown in **Figure 27**, with the elevation plotted in meters above mean sea level (AMSL). Groundwater levels declined in 101S/D and increased in 111S/D between August and September 2008.

Consistent with past monitoring, 2008 water level elevations in well pair 111S/D show a downward hydraulic gradient (groundwater elevations in shallow colluvium are higher than in the deeper well). Also consistent with past monitoring, 2008 water level elevations in well pair 101S/D exhibit upward hydraulic gradients and indicate that groundwater from shallow bedrock recharges both the shallow colluvium and likely discharges into Daisy Creek as groundwater encounters the valley bottom.

Other shallow colluvial wells downslope and downgradient of the McLaren Pit include 132, 133, 134, 135, 136, and 137. Groundwater hydrographs of these wells are compared in **Figure 28** since monitoring was initiated in 2002. Groundwater levels decreased slightly between August and September 2008 in wells 132, 133, 135, 136, and 137 but increased 0.46 meters (1.5 feet) in 134 during this same time. Data collected in previous years indicate that groundwater levels usually decline between July and September but may also be influenced by precipitation events. The magnitude and direction of groundwater level change appears variable in the well network moving downslope from the McLaren Pit and west, away from the trace of the Crown Butte Fault (wells 135, 101S, 136, and 137).

A groundwater elevation map in shallow colluvium in the McLaren Pit area is shown in **Figure 29** for data collected during the August 2008 monitoring event. Groundwater in the McLaren Pit area generally flows downslope and perpendicular to topographic contours, as it approaches

Daisy Creek and then, is assumed to swing parallel to Daisy Creek and flow down valley. Groundwater flow direction is essentially the same as that measured in previous July monitoring events (Tetra Tech 2008a) and prior to completion of the McLaren Pit cap. The Crown Butte Fault, which is shown by the dashed line in **Figure 29**, has been identified as an important conduit for poor quality groundwater flowing from the former pit area into the Daisy Creek drainage (Maxim 2004).

Field and Laboratory Analytical Data

Groundwater field parameter measurements were collected in August 2008 in the majority of wells listed in **Table 3**. The locations of these wells in the McLaren Pit Area are shown in **Figure 5**. A select set of wells were also monitored in September 2008 (**Table 3**) and include the waste rock wells, the well pairs, wells along the trace of the Crown Butte Fault, and wells located along or near the margin of the acidic and metals enriched groundwater. August and September 2008 field parameter data from selected wells are shown in **Figure 30**. **Figure 31** presents copper, iron, and sulfate concentrations measured in August 2008. Groundwater field parameter and analytical data are summarized in **Appendix D-1**, **Tables D-1** and **D-2**.

Figure 30 indicates that measured field parameter values did not vary substantially between August and September 2008. Field pH remained within one s.u. and SC decreased in all wells except for wells 133, and 136, located down-gradient of the McLaren Pit, where slight increases were measured. As SC is an indicator of the total concentration of dissolved solids in groundwater, it is likely that major ion concentrations did not change appreciably in these wells during monitoring in 2008. Similar conditions were observed in comparisons made between July/August and September monitoring events of these wells in previous years (Maxim 2006, Tetra Tech 2007a and 2008a).

Oxidation/reduction potential decreased in all wells, with exception to well 101D, between August and September monitoring events. The dissolved oxygen content in wells 101D and 132 remained below one mg/L during August and September monitoring events. These results are consistent with the 2006 and 2007 monitoring results (Tetra Tech 2007a and 2008a). Dissolved oxygen concentrations decreased between August and September 2008 in all wells except for 133 which had a slight increase in dissolved oxygen concentration.

Field pH in waste rock well 104 continues to be the lowest measured in the McLaren Pit area and concentrations of most constituents were the highest in this well (**Figures 30** through **32**). The furthest downgradient wells (101S/101D, 136, and 137) exhibited the highest pH and the lowest concentrations of sulfate, copper, and iron in groundwater. Well 101S exhibited a lower pH and a higher concentration of copper than 101D (the shallow bedrock well). This is consistent with previous monitoring events (Tetra Tech 2008a). As reported previously, groundwater in 101S may be considerably impacted by acidic and metals-enriched surface water flows in tributaries DCT-8 and DCT-9 (Maxim 2006).

Water quality in paired wells 111S/111D was similar in quality to wells 133 and 132 except for pH, which was notably higher (**Figures 30** and **31)**. Dissolved concentrations of copper and iron were higher in the shallow bedrock well (111D) than the shallow colluvial well (111S) (**Figure 31**). This is consistent with results of previous monitoring events for this well pair, back to 2003 (Maxim 2004, 2005, 2006; and Tetra Tech 2007a and 2008a).

Figure 32 shows a comparison of groundwater data collected during July in shallow colluvial wells for the past seven years (2002 to 2008). Data from select wells are arranged from the McLaren Pit area (left side) downslope (right side) or from wells 105 to 137. Changes in pH measurements (**Figure 32** and **Table D-2** in **Appendix D-1**) were typically less than 0.5 s.u. throughout the period of record with the exception of wells 136 and 137 which had pH values that varied up to 1.2 s.u. Most wells had similar measured conductivity in 2008 compared with 2007 SC measurements. In addition, SC appears to have decreased in most wells since July 2004.

Measurements of ORP were consistently greater in 2008 as compared with 2007 (**Figure 32**). ORP measurements in some of these wells appear more consistent with monitoring events previous to 2007. Measurements of DO made in 2008 were similar to those made in 2007 and also within the range for measurements conducted since 2003 (**Table D-2** in **Appendix D**).

Copper and iron concentrations in the shallow colluvial wells have been variable since 2002 with decreases of these metals in several wells. Copper and iron concentrations dropped below the PQL in well 137 between 2003 and 2007 and then increased to 0.001 and 0.04 mg/L, respectively, in August 2008. Iron concentrations have been below the PQL in wells 101S and 136 since 2004 (**Figure 32**).

Figure 33 presents selected water quality parameters from samples collected in August 2008, for comparison of several wells screened in bedrock units (100, Tracer 2, and MW-2), two wells screened in the waste rock (104 and 105), and the subsurface drain with the greatest discharge (DCSW-101).

The wells adjacent and upgradient to the McLaren pit (100, Tracer 2, and MW-2) are screened in bedrock units that had not been disturbed by mining activities and, hence, are considered to have background groundwater quality. Groundwater from these wells is relatively deep, compared with other district monitoring wells, and is under reducing conditions. Well 100 is screened in the Meagher Limestone, well Tracer 2 is screened in the Fisher Mountain Intrusive, and well MW-2 is screened in the Wolsey Shale.

Well 100 had the highest pH of the wells and the lowest concentrations of all parameters shown in **Figure 33**. Well 100 is completed in the same mineralized section of the Meagher limestone formation that was mined in the pit and is believed to be indicative of the quality of groundwater in this formation where undisturbed. Groundwater in wells Tracer 2 and MW-2 is more mineralized. Concentrations of copper, iron, and manganese in wells Tracer 2 and MW-2 exceed human health standards and guidelines. Except for lower aluminum and copper concentrations in MW-2, representing the Wolsey Shale, groundwater quality is similar in these two wells with regard to pH, sulfate, iron, manganese, and zinc. Groundwater quality in these wells is also similar to groundwater in well 105.

Well 105 is located near the uphill margin of the McLaren pit cap area and near the base of the bedrock highwall (the highwall is east of well 105, **Figure 4**). Groundwater in this well exhibits similar acidity, sulfate, iron, and aluminum concentrations as well Tracer 2. Concentrations of copper, aluminum, manganese, and zinc are notably lower in well 105 than well 104. These differences are consistent with the last several years of monitoring data (Maxim, 2006; Tetra

Tech 2007a and 2008a). Also consistent with previous results, groundwater in well 104 has the lowest pH, highest acidity, and highest concentrations of sulfate and metals (i.e., intercepts the poorest quality groundwater in the pit area, **Figures 32** and **33**).

Water quality in the subsurface drain DCSW-101, is also shown in **Figure 33**. Subsurface drain water quality has similarities with groundwater quality in well 105, Tracer 2, and MW-2.

The lower metal concentrations in groundwater in the vicinity of well 105 compared with well 104 may be due to one or a combination of several factors: there is a relatively shorter amount of time that groundwater is in contact with the waste rock in the vicinity of well 105, there is a relatively greater contact time of groundwater with the waste rock in the vicinity of well 104, well 104 may be screened in waste rock containing a higher concentration of metals and sulfides than in the vicinity of well 105, and/or there may be groundwater recharge in the vicinity of well 104 that is sourced from bedrock with a greater metal and sulfide content.

4.0 SUMMARY

Surface and groundwater monitoring conducted in 2008 indicates continued improvement in water quality in the Daisy Creek/Stillwater River and the Fisher Creek drainages. Water quality improvements can be attributed to completed response actions that include capping and reclamation of the McLaren Pit area, closure (plugging) of the Glengarry Adit, and capping and reclamation activities in the Como Basin. Exceptions to improved water quality include McLaren Pit area groundwater quality, which remains relatively unchanged following the McLaren Response Action and the Como Basin surface water quality (at station FCT-11) that remains relatively unchanged following the Como Basin Response Action. A brief summary of the results is provided below.

4.1 DAISY CREEK AND STILLWATER RIVER DRAINAGE

Surface water quality in Daisy Creek and the Stillwater River has improved since the McLaren Pit Response Action was completed in October 2003. These improvements have been documented at the furthest downstream station, SW-7, on the Stillwater River. At station SW-7, over the last five years, only total recoverable copper concentrations exceeded the aquatic life standards. These exceedances have occurred during high flow events (June) and in several subsequent low flow events (September/October) during 2004, 2005, and 2008.

For the most part, mean concentration values and loads of metals, in Daisy Creek, have declined since capping of the McLaren Pit under both low and high flow conditions. The greatest changes have been manifest during high flow, when a relatively greater amount of uncontaminated water moves off the McLaren Pit's impermeable cap during the snowmelt period in the spring and early summer, resulting in increased dilution and decreased contaminant concentrations in Daisy Creek. Average low flow, metals concentration values, and metal loads are also lower at each of the Daisy Creek tributary (DCT-) and main stem (DC-) monitoring stations since capping of the McLaren Pit.

The McLaren Pit subsurface drains contribute a significant percentage of the metals load to upper Daisy Creek (as measured at station DC-2) under both high and low flow conditions. These drains were installed during the McLaren Pit Response Action to provide outlets for springs discharging from bedrock in the area of the McLaren Pit highwall. The drains exhibit water quality characteristics that are very similar to background groundwater quality as measured in wells screened in un-mined bedrock units within and upgradient of the McLaren Pit.

Monitoring of groundwater quality in the McLaren Pit area indicates that conditions are similar to those observed during previous years, after the cap (over the McLaren Pit) had been emplaced. A plume of low pH, metal-enriched groundwater flows from the McLaren Pit, parallel to Daisy Creek tributary, DCT-8, toward Daisy Creek. The position and water quality of this plume has remained relatively unchanged since monitoring was initiated. One hypothesis that explains the existence of this plume is that poor quality groundwater from mineralized bedrock sources (Fisher Mountain Intrusive, Meagher Limestone, and Wolsey Shale) mix with groundwater in waste rock in the McLaren Pit area, and this combined groundwater source flows directly downgradient toward Daisy Creek. Some of this water discharges as ferricrete-forming springs

just below the southernmost margin of the capped area. This plume is also believed to be related to the Crown Butte Fault.

4.2 FISHER CREEK DRAINAGE

Surface water quality in Fisher Creek has improved since the Glengarry Adit Response Action was completed in September 2005. The improvement has been documented as far downstream as surface water station SW-4. Water quality data below station SW-4 to the confluence of the Clarks Fork of the Yellowstone River (measured at station CFY-2) is similar to water quality data collected before closure of the Glengarry Adit. As in previous years, the copper concentration at station CFY-2 exceeds aquatic life standards during the high flow period (June). Similar to the Stillwater River, this is believed to be due to scouring of the streambed sediments that creates a suspended sediment load during the high flow period.

Water quality in upper Fisher Creek continues to be poor and acidic although metals concentrations, metal loads, and stream flow have been significantly reduced by closure of the Glengarry Adit. Post-closure stream flow at station SW-3 has been reduced by as much as 45% in comparison with pre-closure flow. Post-closure metal loads in upper Fisher Creek have been reduced by about 72% during low flow periods and 47% during high flow periods.

4.3 MILLER CREEK AND SODA BUTTE CREEK

In lower Miller Creek, near its confluence with Soda Butte Creek (station SW-5), copper concentrations exceeded aquatic life standards during the high flow period (July 2008). In upper Miller Creek (station SW-2), copper concentrations exceeded aquatic life standards during all three 2008 monitoring events.

Results of monitoring in 2008 at stations along Soda Butte Creek are similar with previous years results in that copper concentrations exceeded the chronic aquatic life standard during June/July (stations SBC-2 and SBSW-102) and iron concentrations exceeded the chronic aquatic life standard and human health guidelines in at least one of the three monitoring events. In addition, 2006, 2007, and 2008 monitoring results at station SBC-2 indicate water quality improvements to Soda Butte Creek resulting from upstream removal of the McLaren Mill site waste on NFS land in 2005.

4.4 NEW WORLD WASTE REPOSITORY

Fluids continue to accumulate in the repository sump following completion of the final cap in 2006. However, the rate of fluid accumulation appears to have decreased since cap completion. In addition, a smaller total volume of fluid accumulation was measured in 2008 despite the occurrence of a greater volume of snowmelt, compared to 2007. As in 2007, due to a lower rate of fluid accumulation, the sump only needed to be pumped once in 2008. This occurred in late September when approximately 21,900 gallons of water was removed.

Water chemistry of the sump fluid is similar to that measured in previous years. Other than iron and manganese, all other metals in the sump fluid are at or near the PQL.

Consistent with previous years, 2008 groundwater quality data from the monitoring well network around the repository did not indicate any impacts to groundwater from leakage of sump fluids. Monitoring of a surface water station (SBT-3) immediately downstream of the repository did not indicate any impacts to surface water from leakage of sump fluids. At station SBT-6, downstream of station SBT-3, there were increases in metal concentrations during May 2008 over that measured during May 2007. Metal concentrations at station SBT-6 exceeded aquatic life standards for copper, iron, and lead. Human health guidelines for iron and manganese were also exceeded during May 2008.

5.0 DATA VALIDATION

This section describes the data validation process used to determine the adequacy and quality of laboratory analytical data collected for surface water and groundwater monitoring conducted in 2008. The objective of data validation is to identify any unreliable or invalid measurements and qualify that data for interpretive use. Data validation was performed according to guidelines established by the U.S. EPA (1994).

5.1 SURFACE WATER DATA VALIDATION

The 2008 surface water monitoring events were validated independently as separate sample matrices. Data qualifiers used to flag data in the laboratory reports are as follows:

- '<' indicates the material was analyzed for but not detected above the level of the associated value practical quantitation limit (PQL)
- 'HT' indicates that the analysis was performed after the holding time had passed
- 'B' indicates the analyte was detected in the method blank and may not represent true concentration of the analyte in the sample
- 'J' indicates the associated value is an estimated quantity
- 'UJ' indicates that the analyte was not detected above an approximate PQL
- '(2)', '(3)', and '(4)' indicate that laboratory quality control limits were not entirely satisfied for the analyte

Not all of these qualifiers are shown in the 2008 Surface Water Summary (**Appendix C-1**, **Table C-1**).

5.1.1 Field QA/QC

During 2008, field duplicates were prepared and containerized by Tetra Tech field personnel in accordance with the Site-Wide SAP (Maxim 1999b). Field Quality Assurance/Quality Control (QA/QC) samples collected/prepared during the 2008 surface water monitoring events are summarized in **Table 14**.

Field duplicate results aid in the assessment of sampling and analytical accuracy. Analytical results for the original and duplicate samples collected from each sampling event were evaluated using relative percent difference (RPD) and absolute value difference (AVD). The RPD between the two samples was calculated when both values of the natural/duplicate pair were greater than five times the PQL for a given analyte. The AVD between the natural and duplicate sample for a given analyte was calculated when one or both values were less than five times the PQL.

RPDs are calculated by dividing the difference between the two reported values for a given parameter by the average of the two parameters. Analytical results of parameters where the RPD was greater than 20 percent are considered estimated concentrations. The following parameters were flagged in **Appendix C-1**, **Table C-1** as estimated due to the RPD, in the natural/field duplicate pair, being greater than 20% for the 2008 monitoring events/sample digestion groups:

- Total suspended solids for the September 22 to 24, 2008 sampling event
- Total recoverable lead for the September 22 to 24, 2008 sampling event

No other parameters exhibited an RPD greater than 20 percent in the 2008 sampling events.

Results from natural/duplicate pairs with values less than five times the PQL are considered estimated when the AVD exceeds the PQL. The following parameters were flagged in **Appendix C-1**, **Table C-1** as estimated due to the AVD, in the natural/field duplicate pair, exceeding the respective PQL, for the 2008 monitoring events/sample digestion groups:

- Total suspended solids for the July 14 to 16, 2008 sampling event

No other parameters exhibited an AVD greater than the PQL in the 2008 sampling events.

5.1.2 Laboratory QA/QC

In 2008, Northern Analytical Laboratories received surface water samples from Tetra Tech on the following dates: April 18, May 30, July 17, August 8, August 15, and September 25. All samples arrived at the laboratory within the required temperature range and were analyzed within the required holding time for the parameters of interest with the following exceptions:

- Acidity analysis was performed past the required holding time (HT) for sample DC-2 collected April 17, 2008.

Northern Analytical Laboratories reviewed the majority of the analytical data, set the calibration standards, verified calibration, implemented laboratory controls, and analyzed laboratory duplicates and laboratory spikes on a daily basis. When data did not meet NAL's QA/QC criteria and precision and accuracy guidelines as specified in NAL's *Laboratory Quality Assurance Plan* (submitted to MDEQ, June 1997), then the data were flagged and appropriately qualified by the laboratory. Data qualifiers used to flag data in the laboratory reports are explained in Section 5.1. Flags on surface water samples included the following:

- Total recoverable iron was flagged 'B' for sample SBT-3 collected May 29, 2008.

Accuracy is measured as the ability of the analytical procedure to determine the actual or known quantity of a particular substance in a sample. Accuracy acceptance or rejection is based on the percent recovery (%R) of the laboratory matrix spike for water samples. To determine accuracy, the %R for each matrix spike is compared to the acceptable range as specified in the applicable laboratory method. Natural results associated with percent recoveries outside acceptable limits are considered estimated. Natural results associated with percent recoveries

of less than 50 percent are considered rejected, as recommended by U.S. EPA (1988). Under this criterion, some of the data was qualified but no data was rejected. Estimated natural results and other data qualifiers are detailed in laboratory reports contained in **Appendix F**.

5.1.3 Data Completeness

No surface water data were rejected on the basis of field QA/QC or laboratory QA/QC for the 2008 sampling event. Sampling frequency and locations were in general accordance with the Site-Wide SAP and the work plan prepared for the 2008 sampling event. Therefore, a data completeness of 100 percent was achieved for the 2008 sampling events.

5.2 GROUNDWATER DATA VALIDATION

The 2008 groundwater monitoring event was validated independently as a separate sample matrix. Data flagging conventions are the same as that used for surface water samples. However, not all of the qualifiers described in Section 5.1 Surface Water Data Validation are applicable or shown in the 2008 Groundwater Summary (**Appendix D-1**, **Table D-1**).

5.2.1 Field QA/QC

During 2008, field duplicates were prepared and containerized by Tetra Tech field personnel in accordance with the Site-Wide SAP (Maxim 1999b). Field QA/QC samples collected/prepared during the 2008 groundwater monitoring events are summarized in **Table 15**.

Analytical results of parameters where the RPD was greater than 20 percent are considered estimated concentrations. The following parameter was flagged in **Appendix D-1**, **Table D-1** as estimated due to the RPD, in the natural/field duplicate pair, being greater than 20% for the 2008 monitoring events/sample digestion groups:

- Acidity as $CaCO_3$ for the August 4 to 6, 2008 sampling event

No other parameters exhibited an RPD greater than 20 percent in the 2008 sampling events.

Results from natural/duplicate pairs with values less than five times the PQL are considered estimated when the AVD exceeds the PQL. No parameters exhibited an AVD greater than the PQL in the 2008 sampling events.

5.2.2 Laboratory QA/QC

In 2008, Northern Analytical Laboratories received groundwater samples from Tetra Tech on the following dates: May 30, August 8, and August 15. All samples arrived at the laboratory within the required temperature range and were analyzed within the required holding time for the parameters of interest.

Northern Analytical Laboratories reviewed the majority of the groundwater analytical data, calibration standards, calibration verification, laboratory controls, laboratory duplicates, and laboratory spikes on a daily basis. When data did not meet NAL's QA/QC criteria and precision

and accuracy guidelines as specified in NAL's *Laboratory Quality Assurance Plan* (submitted to MDEQ, June 1997), then the data were flagged and appropriately qualified by the laboratory (**Appendix F**). Data qualifiers used to flag data in the laboratory reports are explained in Section 5.1. Flags on groundwater samples included the following:

- Acidity detection limit was flagged 'UJ' for sample SBGW-105T collected May 29, 2008.
- Total recoverable iron was flagged 'B' for sample SUMP collected May 29, 2008.
- Acidity detection limit was flagged 'UJ' for sample DCGW-137 collected August 12, 2008.

Accuracy is measured as the ability of the analytical procedure to determine the actual or known quantity of a particular substance in a sample. Accuracy acceptance or rejection is based on the %R of the laboratory matrix spike for water samples. To determine accuracy, the %R for each matrix spike is compared to the acceptable range as specified in the applicable laboratory method. Natural results associated with percent recoveries outside acceptable limits are considered estimated. Natural results associated with percent recoveries of less than 50 percent are considered rejected, as recommended by U.S. EPA (1988). Under this criterion, some of the data was qualified but no data was rejected. Estimated natural results and other data qualifiers are detailed in laboratory reports contained in **Appendix F**.

5.2.3 Data Completeness

No groundwater data were rejected on the basis of field QA/QC or laboratory QA/QC for the 2008 sampling event. Sampling frequency and locations were in general accordance with the Site-Wide SAP and the work plan prepared for the 2008 sampling events. Therefore, a data completeness of 100 percent was achieved for the 2008 sampling events.

6.0 REFERENCES CITED

Maxim Technologies, Inc. 2006. 2005 Surface Water and Groundwater Monitoring Report, New World Mining District Response and Restoration Project. Prepared for USDA Forest Service, Gallatin National Forest, Bozeman, Montana. March.

_____2005. Technical Memorandum, Summary of McLaren Pit Area Groundwater and Surface Water Monitoring, New World Mining District Response and Restoration Project. Prepared for USDA Forest Service, Gallatin National Forest. January 18.

_____2004. Technical Memorandum, 2003 McLaren Pit Area Groundwater Monitoring. New World Mining District Response and Restoration Project. Prepared for USDA Forest Service, Gallatin National Forest. January 7.

_____2003a. Revised Support Document and Implementation Plan for Temporary Water Quality Standards. New World Mining District Response and Restoration Project. Prepared for USDA Forest Service, Northern Region, Missoula, Montana. May 20.

_____2003b. Miller Creek Response Action, Engineering Evaluation/Cost Analysis. New World Mining District Response and Restoration Project. Prepared for USDA Forest Service, Northern Region, Missoula, Montana. June.

_____1999a. Overall Project Work Plan, New World Mining District Response and Restoration Project. Prepared for USDA Forest Service, Northern Region, Missoula, Montana. November.

_____1999b. Site-Wide Sampling and Analysis Plan. New World Mining District Response and Restoration Project. Appendix B of the Overall Project Work Plan. Final. Prepared for the USDA Forest Service, Northern Region, Missoula, Montana. November.

_____1999c. Long-Term Surface Water Quality Monitoring Plan. New World Mining District Response and Restoration Project. Appendix D of the Overall Project Work Plan. Final. Prepared for the USDA Forest Service, Northern Region, Missoula, MT. November.

Montana Department of Environmental Quality (MDEQ) 2008. Circular DEQ-7, Montana Numeric Water Quality Standards, Planning, Prevention and Assistance Division, Water Quality Standards Section, February 2008.

Tetra Tech 2008a. 2007 Surface Water and Groundwater Monitoring Report, New World Mining District Response and Restoration Project. Prepared for USDA Forest Service, Gallatin National Forest, Bozeman, Montana. March.

_____2008b. Technical Memorandum, McLaren Mill Site Water Quality Monitoring Results, New World Mining District Response and Restoration Project. Prepared for USDA Forest Service, Gallatin National Forest, Bozeman, Montana. April.

_____2008c. Technical Memorandum, Station SBSW-102 Water Quality Monitoring Analysis, New World Mining District Response and Restoration Project. Prepared for USDA Forest Service, Gallatin National Forest, Bozeman, Montana. June.

_____2007a. 2006 Surface Water and Groundwater Monitoring Report, New World Mining District Response and Restoration Project. Prepared for USDA Forest Service, Gallatin National Forest, Bozeman, Montana. April.

_____2007b. Draft 2008/2009 Work Plan, New World Mining District Response and Restoration Project. Prepared for USDA Forest Service, Gallatin National Forest, Bozeman, Montana. December.

URS 1998. Site Assessment Summary and Sampling Activities Report, New World Mine, Cooke City, Montana. For USEPA Contract No. 68-W5-0031. September 11.

U.S. EPA 1988. Laboratory Data Validation, Functional Guidelines for Evaluating Inorganics Analysis. July 1, 1988.

_____1994. Office of Emergency and Remedial Response. USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data review. February.

_____1993. Guidance on Conducting Non-Time-Critical Removal Actions Under CERCLA. EPA/540-R-93-057. Publication 9360.0-32. Office of Emergency and Remedial Response. Washington D.C. August.

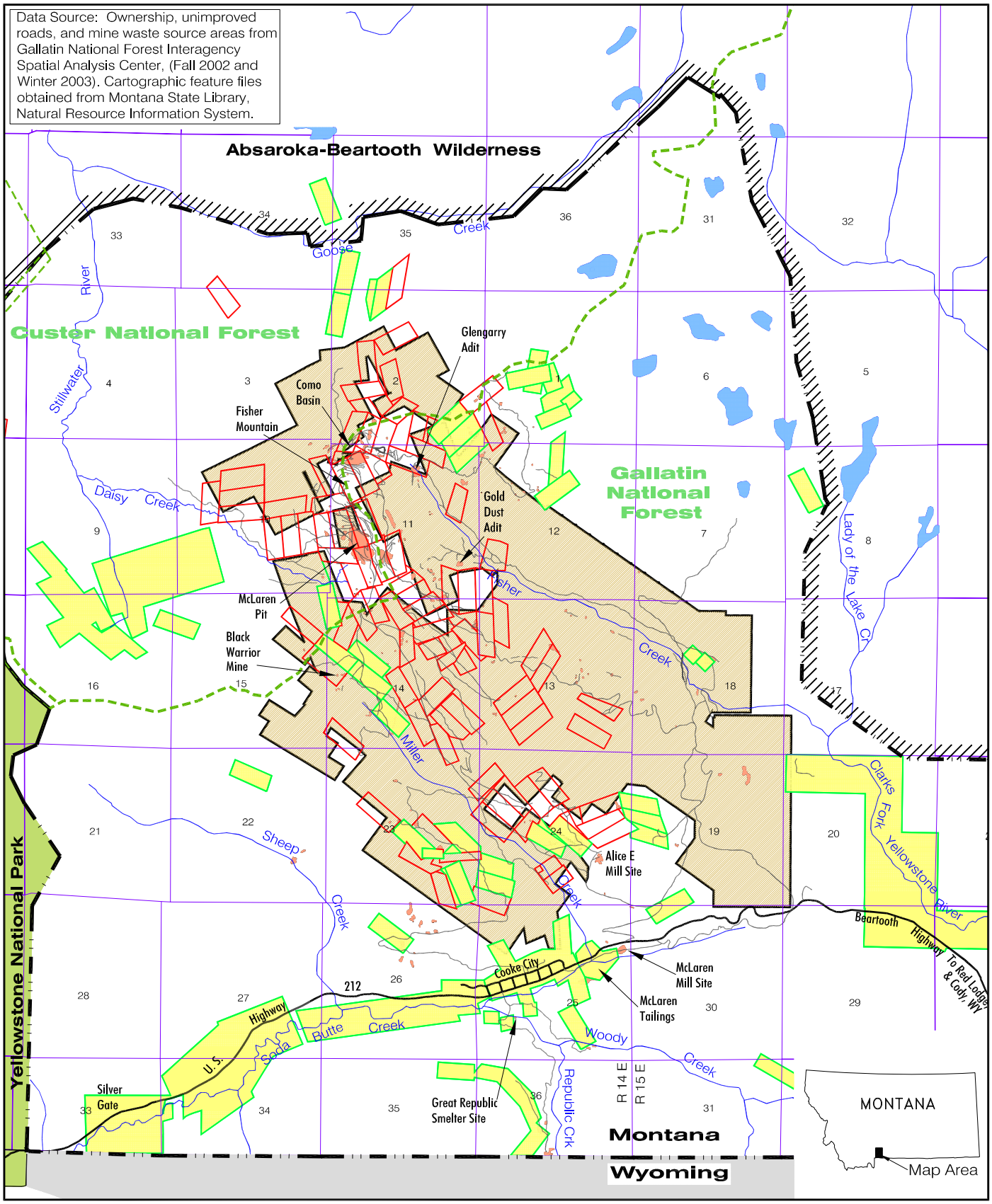
Western Regional Climate Center (WRCC) 2008. Monthly Total Snowfall Statistics. http://www.wrcc.dri.edu/cgi-bin/cliMAIN.pl?mt1995. Accessed December 17, 2008.

APPENDIX A

FIGURES
2008 SURFACE WATER AND GROUNDWATER MONITORING REPORT
New World Mining District Response and Restoration Project

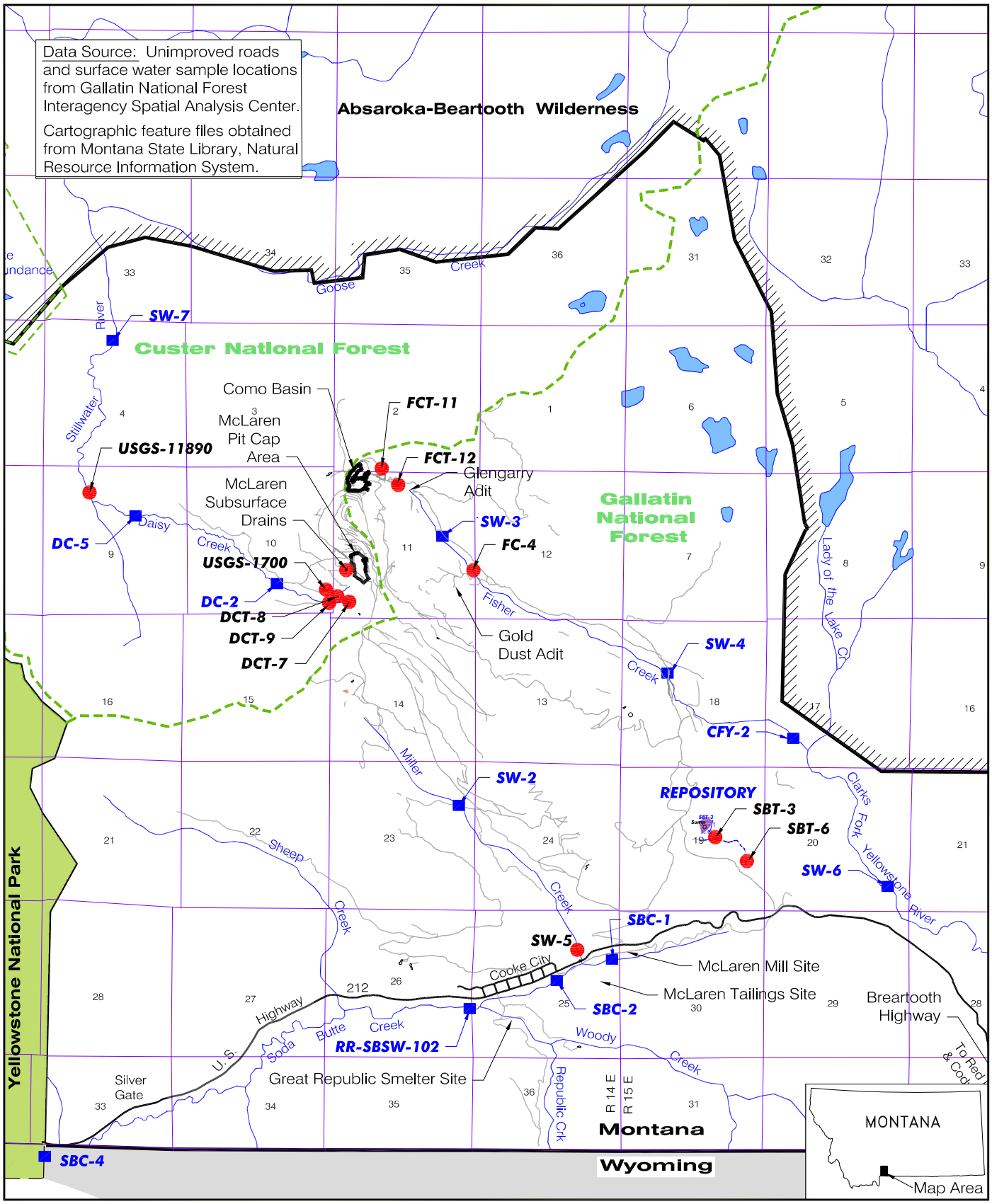
1 Project Vicinity Map
2 2008 Surface Water Monitoring Stations
3 2008 Adit Discharge Monitoring Sites
4 2008 Groundwater Monitoring Stations
5 2008 McLaren Pit Area Monitoring Stations
6 Concentration vs. Flow and Time Graphs for Station DC-2
7 Percent Decrease in Mean Metals Concentrations and Loads at Station DC-2 Compared to McLaren Pit Pre-Capping Means
8 Concentration vs. Flow and Time Graphs for Station DC-5
9 Percent Decrease in Mean Metals Concentrations and Loads at Station DC-5 Compared to McLaren Pit Pre-Capping Means
10 Concentration vs. Flow and Time Graphs for Station SW-7
11 Concentration vs. Flow and Time Graphs for Station FCT-11
12 Concentration vs. Flow and Time Graphs for Station FCT-12
13 Concentration vs. Flow and Time Graphs for Station SW-3
14 Percent Decrease in Mean Metals Concentrations and Loads at Station SW-3 Compared to Mean Concentrations Measured Prior to Closing the Glengarry Adit
15 Concentration vs. Flow and Time Graphs for Station SW-4
16 Concentration vs. Flow and Time Graphs for Station CFY-2
17 Concentration vs. Flow and Time Graphs for Station SW-2
18 Depth to Groundwater in Repository Wells SBGW-105T and SBGW-107T
19 Groundwater Elevation in Shallow Till - New World Waste Repository
20 Repository Sump Water Level Compared to Groundwater Levels in Well SBGW-107T and Surface Water Flow in Soda Butte Creek at Station SBC-4
21 Metal Loads Calculated for McLaren Pit Subsurface Drains at Station DC-2
22 Trends in pH & Specific Conductance at McLaren Pit Tributary Stations and Station DC-2
23 Trends in Sulfate, Copper, and Iron at Daisy Creek Tributary Stations and Station DC-2
24 Total Recoverable Copper and Iron Concentrations Measured at Stations DCT-8 and DCT-9
25 Total Recoverable Copper and Iron Concentrations vs. Flow at Stations DCT-8 and DCT-9
26 Groundwater Hydrographs for Waste Rock Wells 105 and 104 in McLaren Pit Cap Area
27 Paired Well Groundwater Hydrographs in the McLaren Pit Area
28 Groundwater Hydrographs in Select Wells in the McLaren Pit Area
29 Potentiometric Surface in Shallow Colluvium – McLaren Pit Area
30 2008 Field Parameter Measurements for Select Wells in the McLaren Pit Area

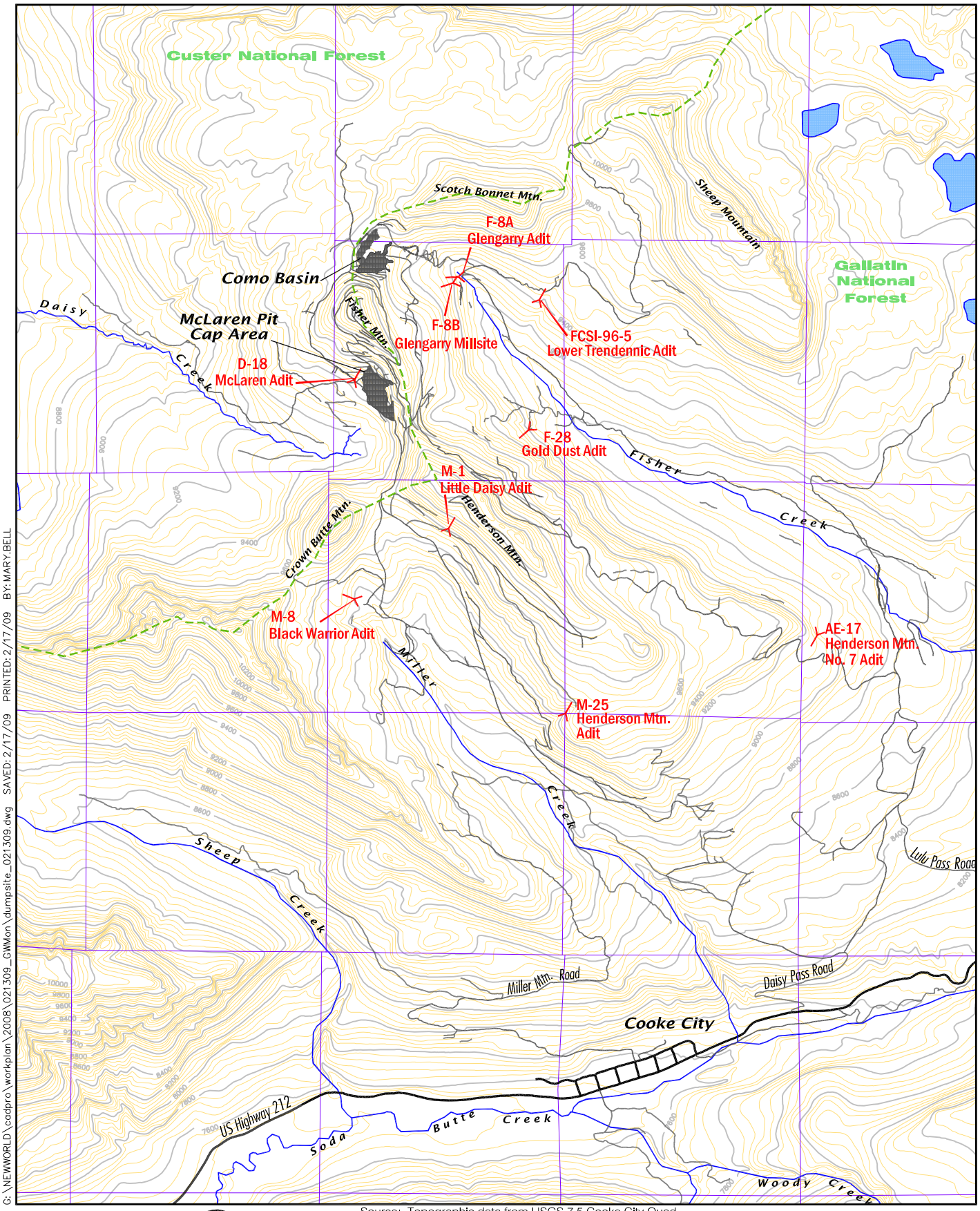
31 August 2008 Copper, Iron, and Sulfate Concentrations in Select Wells in the McLaren Pit Area
32 Comparison of Field Parameters and Analytical Data for Select Wells in the McLaren Pit Area for 2002 to 2008
33 Comparison of Field Parameters and Analytical Data for Background Wells, Waste Rock Wells, and the McLaren Pit Subsurface Drain - August 2008 Data



7561506A.210

Project Vicinity Map
New World Mining District
Response and Restoration Project
Cooke City Area, Montana
FIGURE 1


Data Source: Unimproved roads and surface water sample locations from Gallatin National Forest Interagency Spatial Analysis Center.
Cartographic feature files obtained from Montana State Library, Natural Resource Information System.
Absaroka-Beartooth Wilderness
Custer National Forest
Gallatin National Forest
Yellowstone National Park
Como Basin
McLaren Pit Cap Area
McLaren Subsurface Drains
Glengarry Adit
Gold Dust Adit
SW-7
USGS-11890
DC-5
USGS-1700
DC-2
DCT-8
DCT-9
DCT-7
FCT-11
FCT-12
SW-3
FC-4
SW-4
CFY-2
SW-2
REPOSITORY
SBT-3
SBT-6
SW-6
SBC-1
SW-5
SBC-2
RR-SBSW-102
SBC-4
McLaren Mill Site
McLaren Tailings Site
Great Republic Smelter Site
Cooke City
Silver Gate
Breartooth Highway
U.S. Highway 212
Stillwater River
Daisy Creek
Goose Creek
Fisher Creek
Miller Creek
Sheep Creek
Soda Butte Creek
Woody Creek
Republic Crk
Lady of the Lake Cr
Clarks Fork Yellowstone River
R 14 E
R 15 E
Montana
Wyoming
MONTANA
Map Area
District Boundary
Unimproved Road
National Forest Boundary
Wilderness Boundary
Long-Term Monitoring Station
Supplemental Monitoring Station
N
0 Meters 1500
7561506A.210
McLaren Subsurface Drains include DCSW-101, DCSW-102, and DCSW-103
2008 Surface Water Monitoring Stations
New World Mining District
Response and Restoration Project
Cooke City Area, Montana
FIGURE 2
G:\NEWWORLD\cadpro\workplan\2008\021309_GWMon\Swsamp2_021309.dwg SAVED: 2/17/09 PRINTED: 2/17/09 BY: MARY.BELL



G:\NEWWORLD\cadpro\workplan\2008\021309_GWMon\dumpsite_021309.dwg SAVED: 2/17/09 PRINTED: 2/17/09 BY: MARY BELL

Source: Topographic data from USGS 7.5 Cooke City Quad
Contour Interval = 40'

NORTH

SCALE: 1:36,000

0 Meters 900

7561506A.210

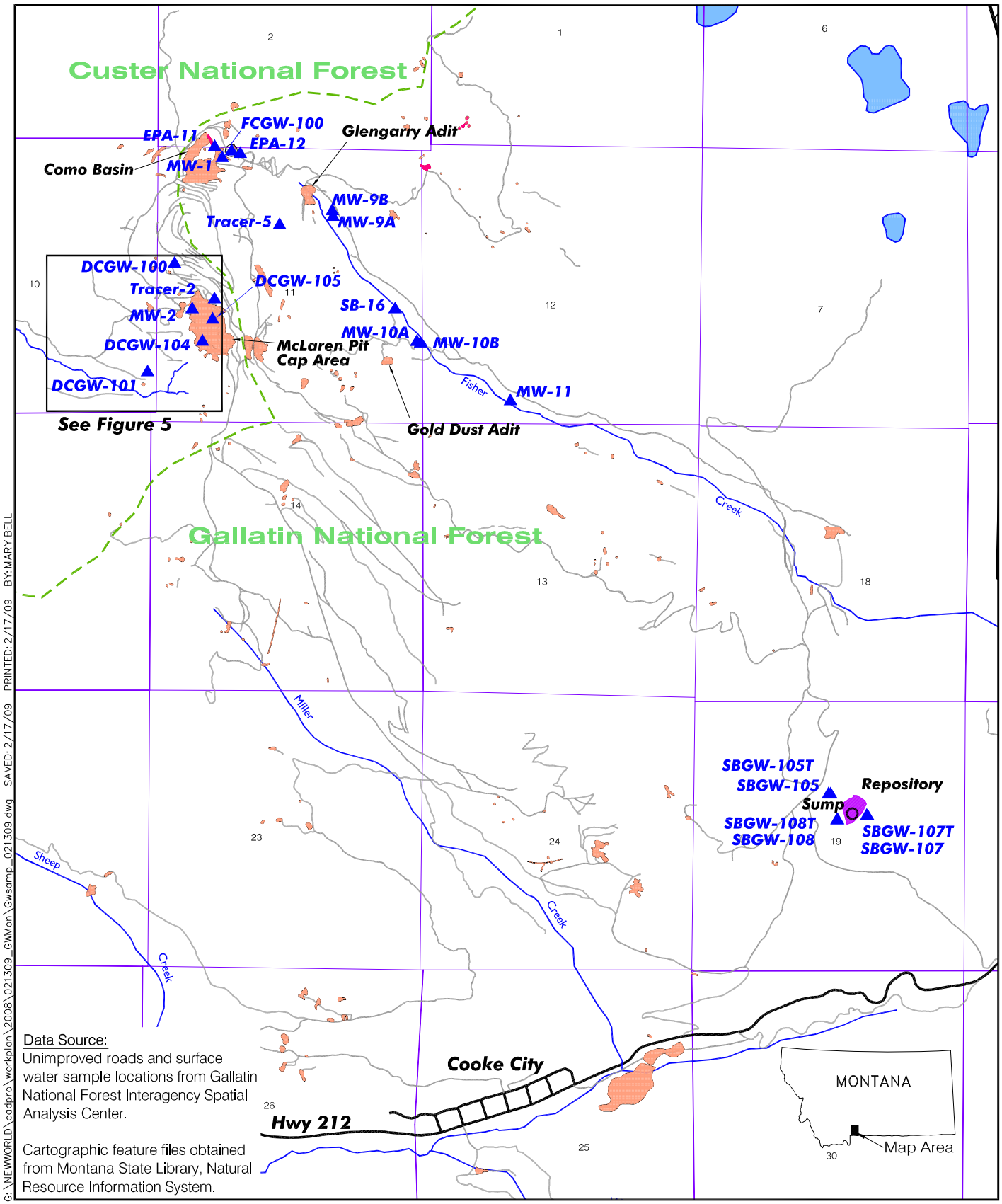
Forest Boundary

Roads

Adit Discharge Sample Site

NDP Non District Property

2008 Adit Discharge Monitoring Sites
New World Mining District
Response and Restoration Project
Cooke City Area, Montana
FIGURE 3



Data Source:
Unimproved roads and surface water sample locations from Gallatin National Forest Interagency Spatial Analysis Center.

Cartographic feature files obtained from Montana State Library, Natural Resource Information System.

G:\NEWWORLD\cadpro\workplan\2008\021309_GWMon\Gwsamp_021309.dwg SAVED: 2/17/09 PRINTED: 2/17/09 BY: MARY.BELL

0 Meters 800

N

DCGW-100 Groundwater Monitoring Location

National Forest Boundary

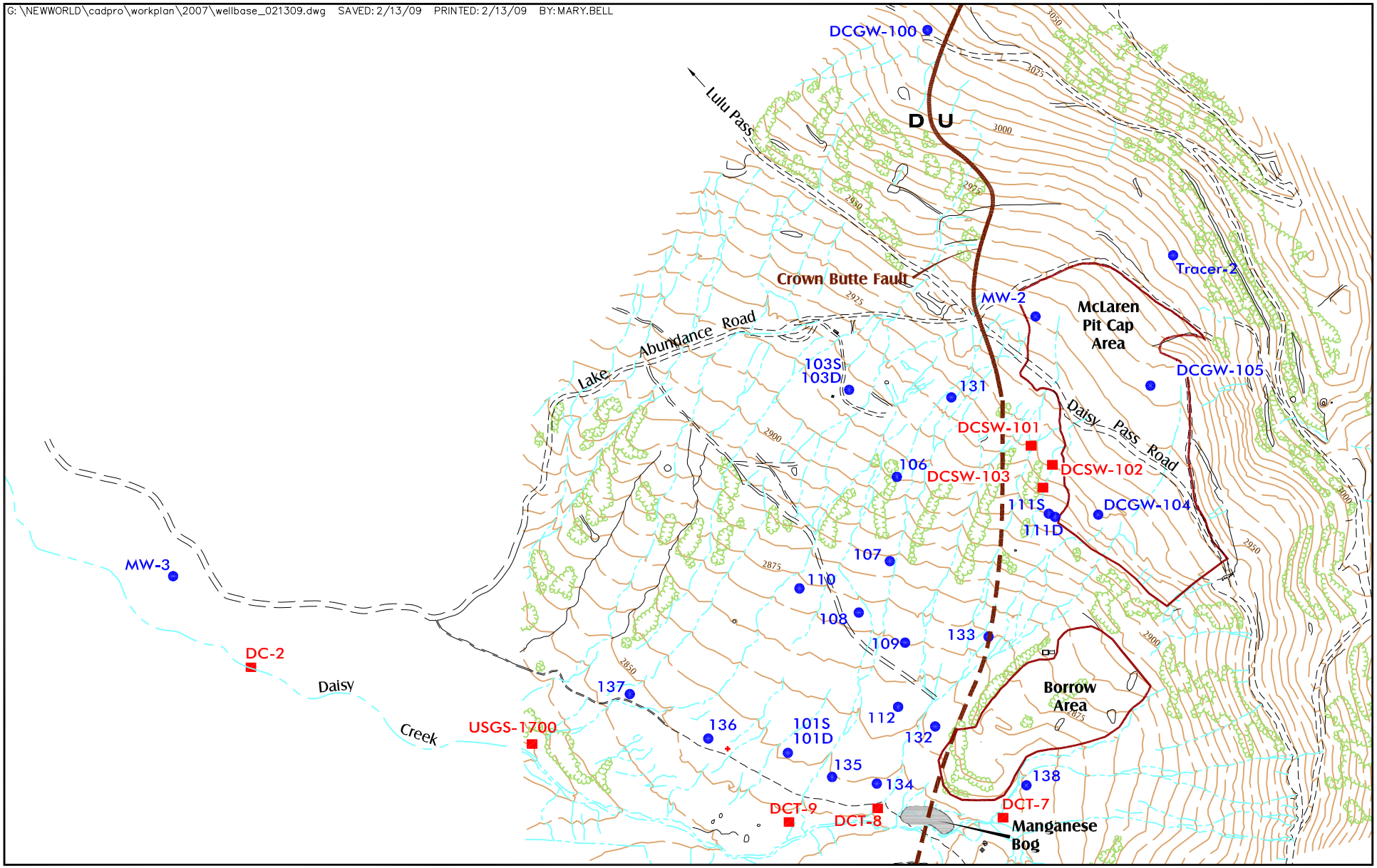
Mine Waste Source Area

Unimproved Road

7561506A.210

2008 Groundwater Monitoring Stations
New World Mining District
Response and Restoration Project
Cooke City Area, Montana
FIGURE 4

G:\NEWWORLD\cadpro\workplan\2007\wellbase_021309.dwg SAVED: 2/13/09 PRINTED: 2/13/09 BY: MARY.BELL



N

0 10 Meters 40
1:5000
Contour Interval = 5 meters

D
U
Crown Butte Fault
(D - down thrown; U - up thrown)
(dashed where inferred)

Surface Water Station

101 Monitoring Well (DCGW prefix may not be included)

Creek/Drainage

Road/Trail

7561506A.210

2008 McLaren Pit Area Monitoring Stations
New World Mining District
Response and Restoration Project
Cooke City Area, Montana
FIGURE 5

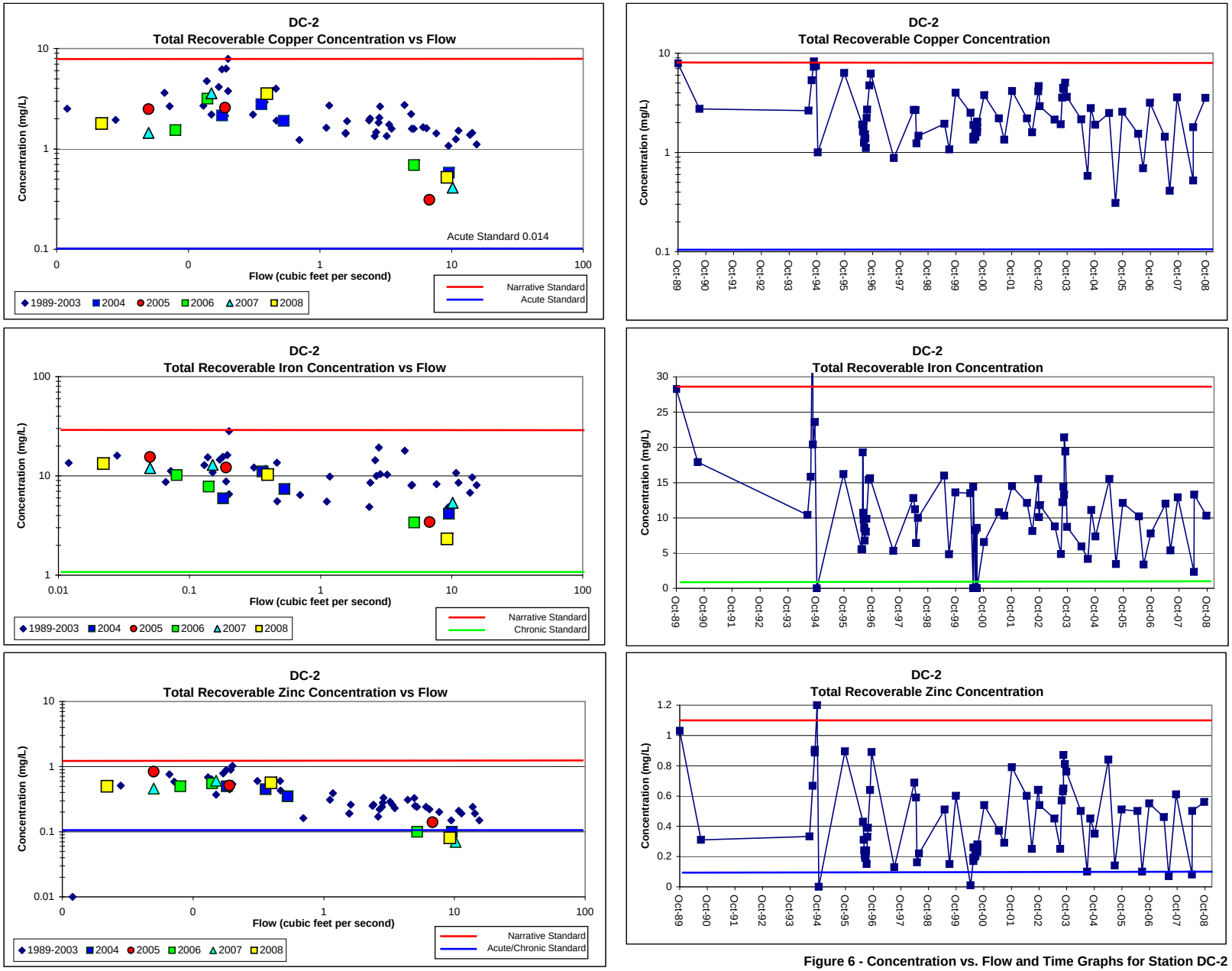
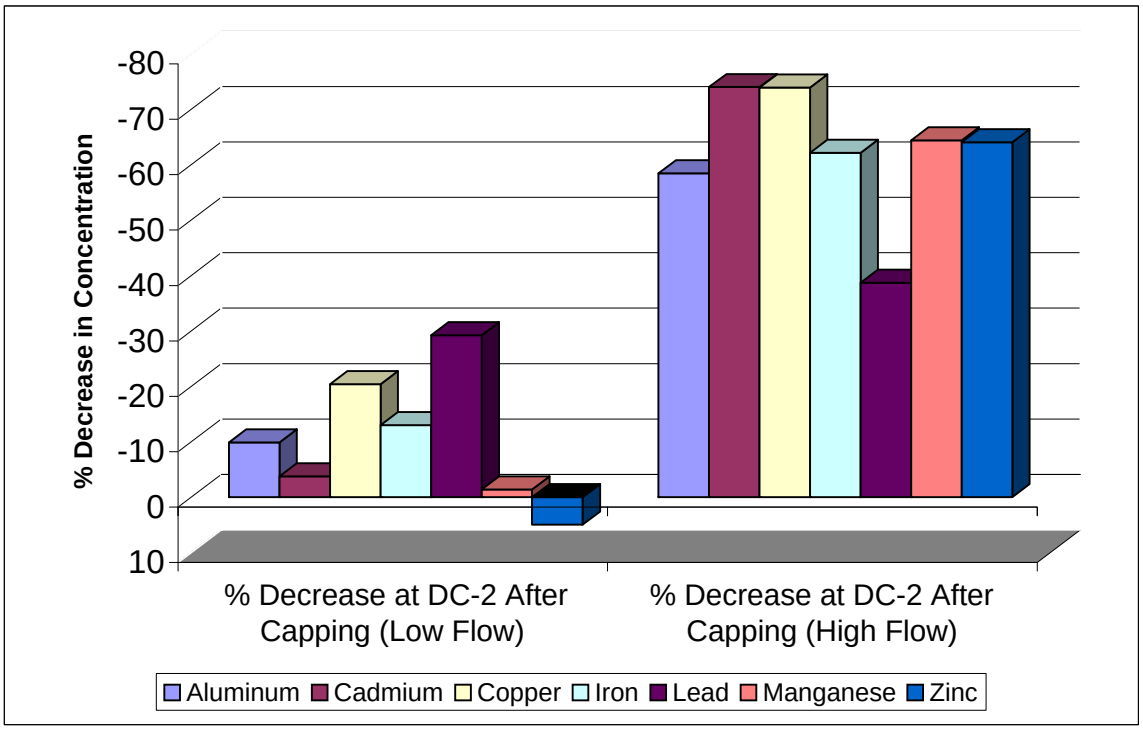


Figure 6 - Concentration vs. Flow and Time Graphs for Station DC-2



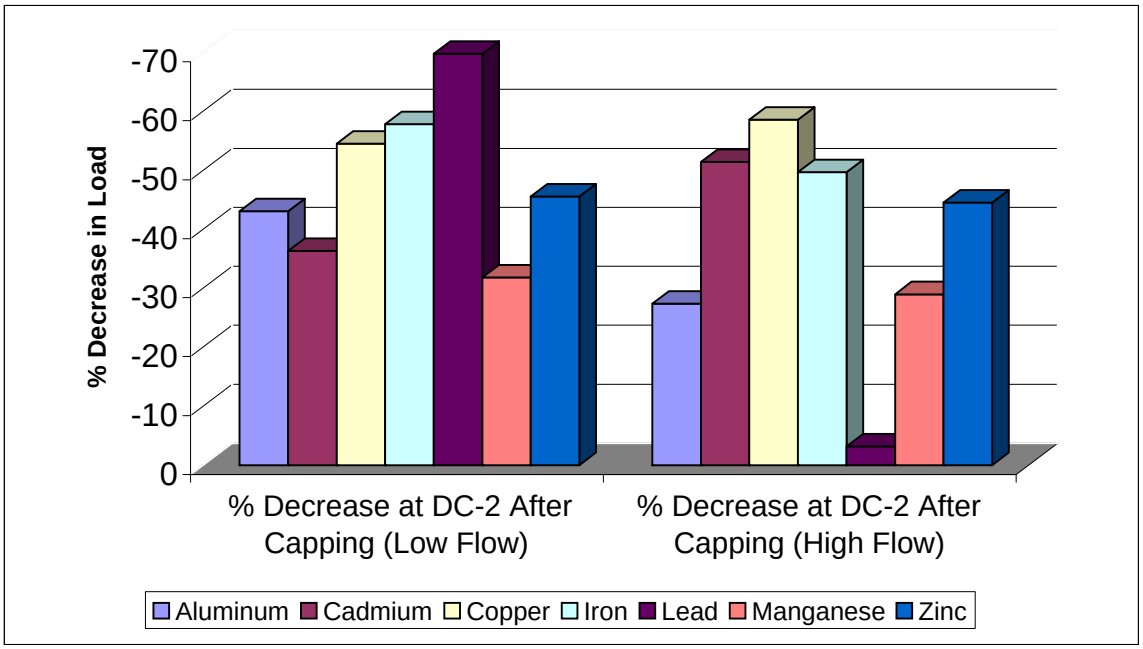


Figure 7. Percent Decrease in Mean Metals Concentrations and Loads at Station DC-2 Compared to McLaren Pit Pre-Capping Means.

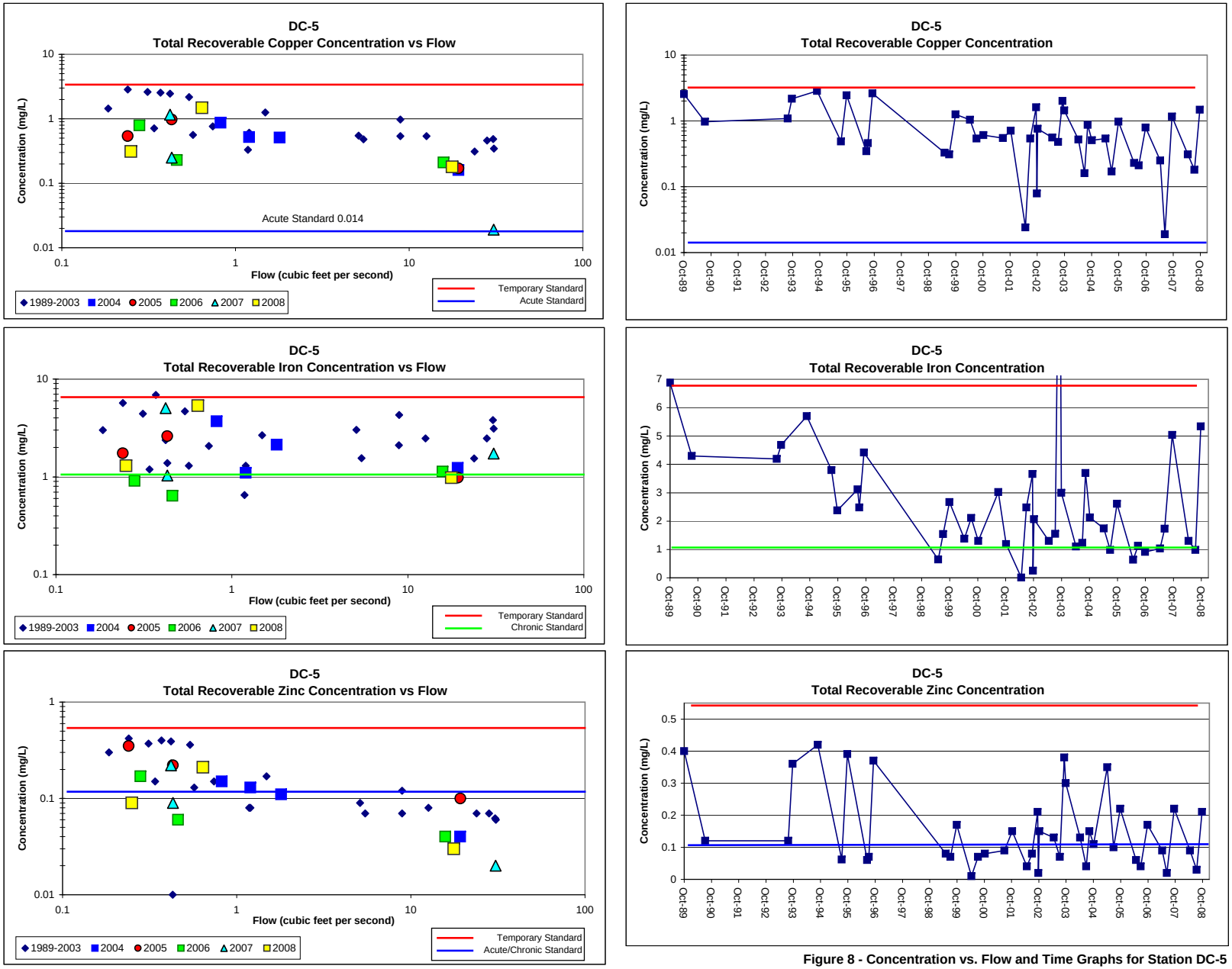
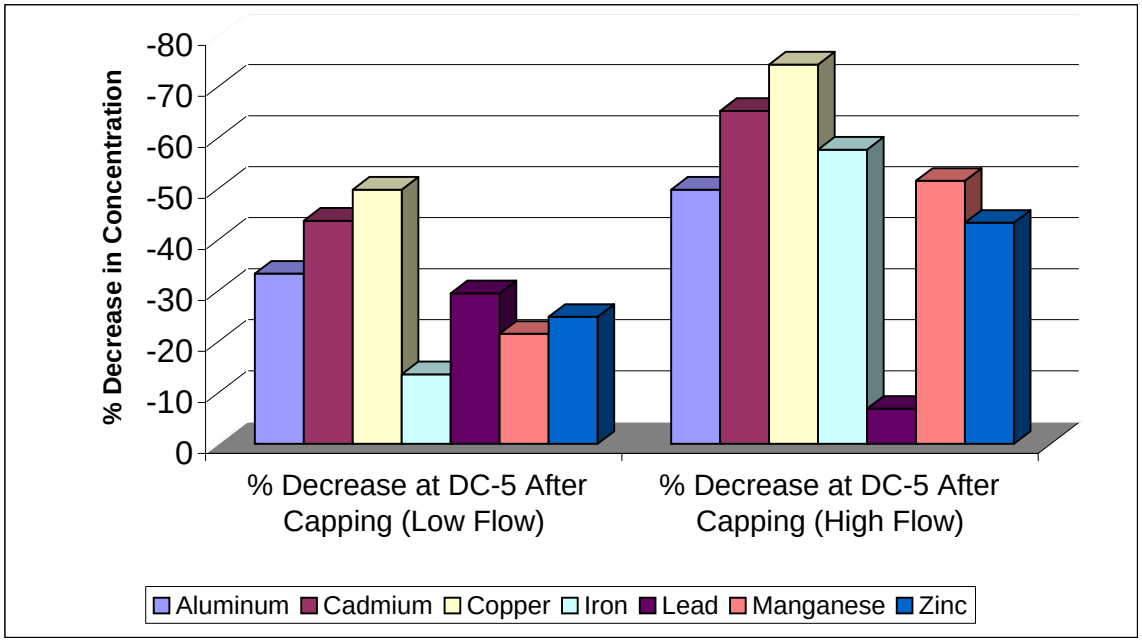


Figure 8 - Concentration vs. Flow and Time Graphs for Station DC-5



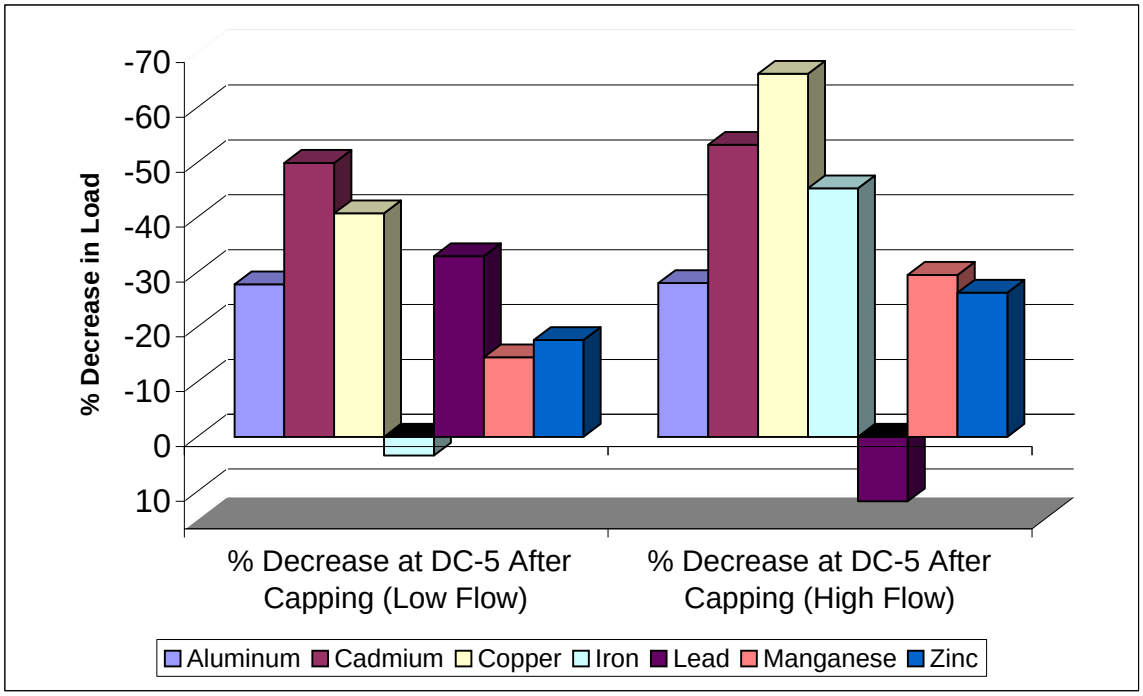


Figure 9. Percent Decrease in Mean Metals Concentrations and Loads at Station DC-5 Compared to McLaren Pit Pre-Capping Means.

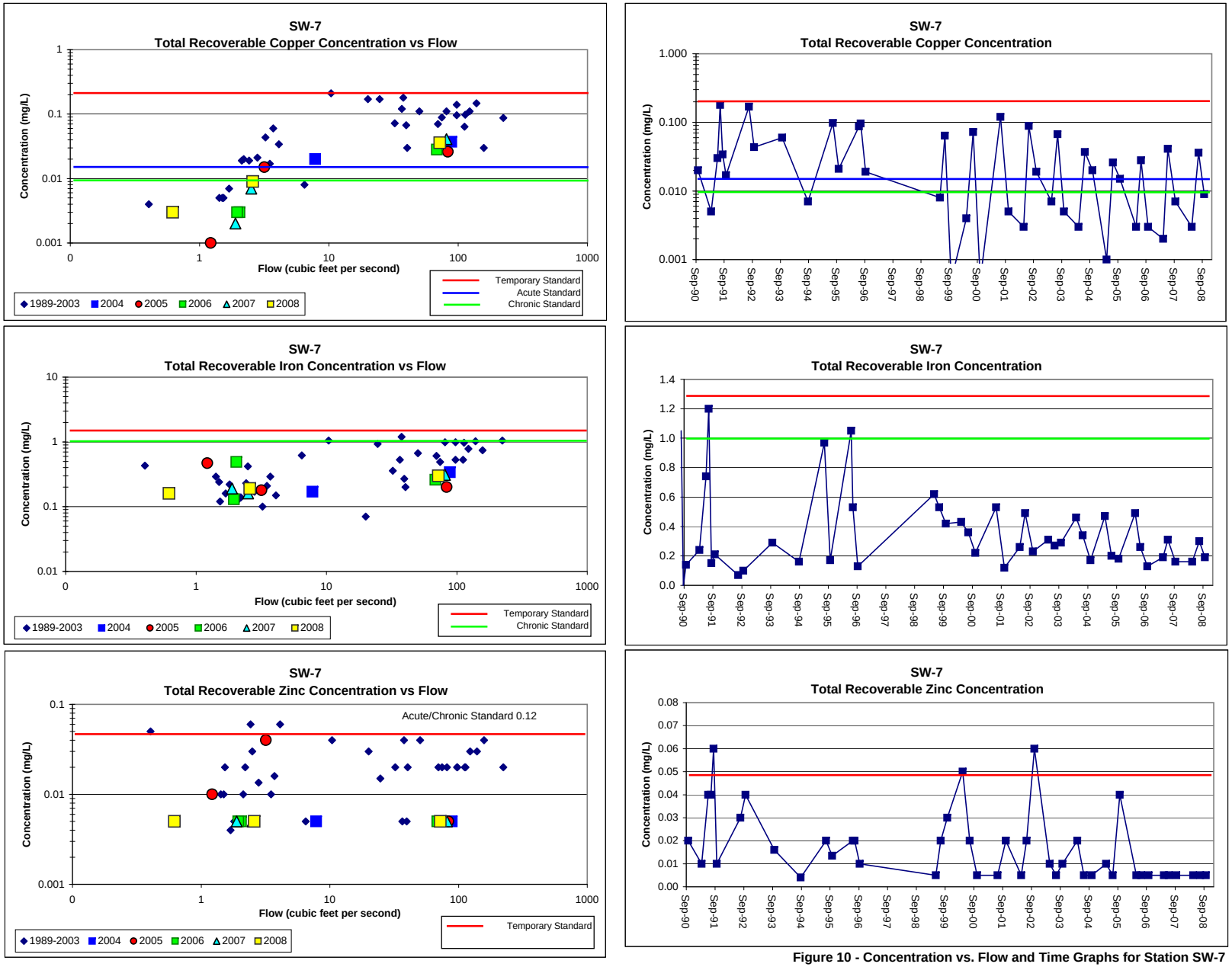


Figure 10 - Concentration vs. Flow and Time Graphs for Station SW-7

Figure 11 - Concentration vs. Flow and Time Graphs for Station FCT-11

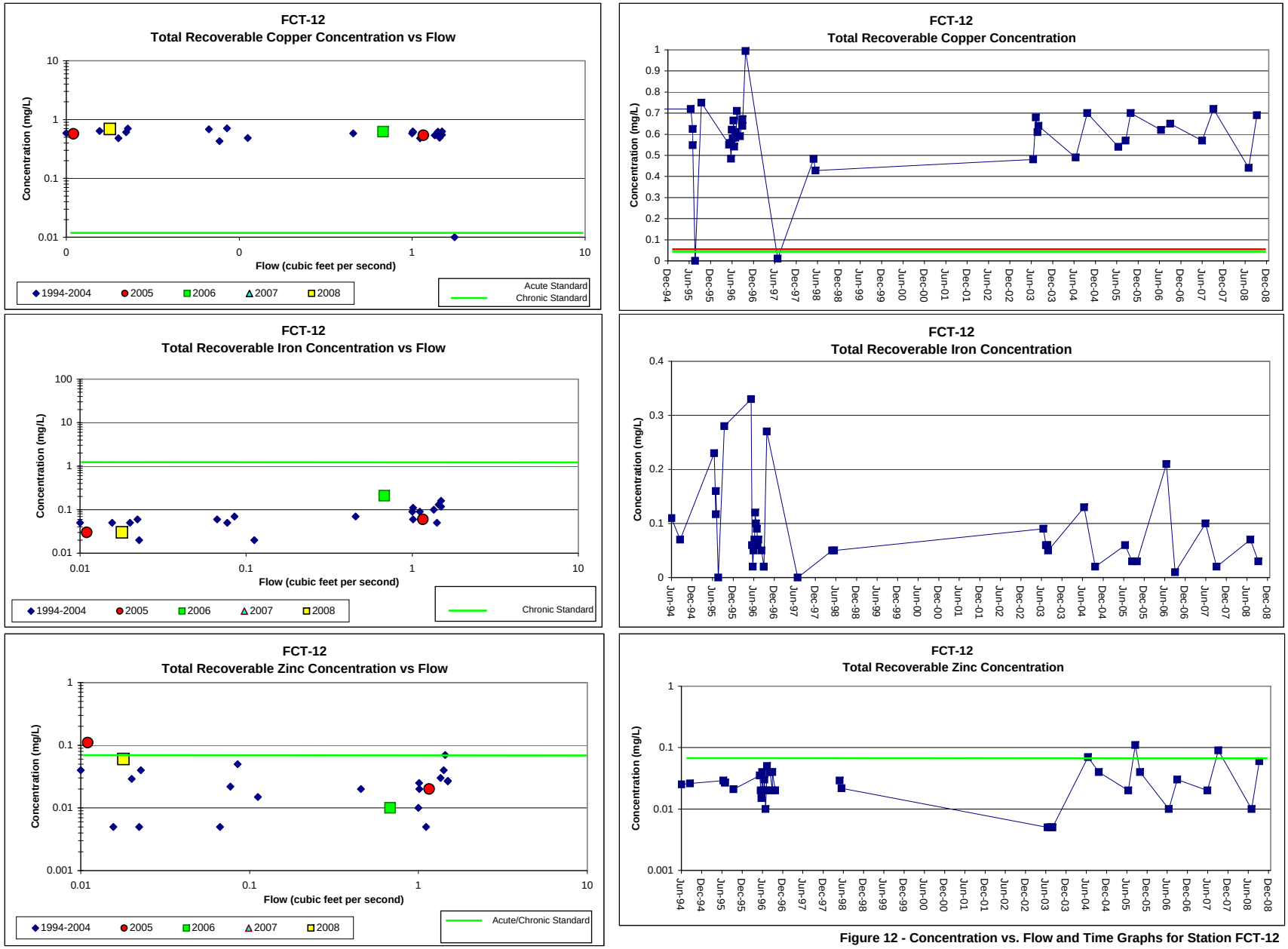


Figure 12 - Concentration vs. Flow and Time Graphs for Station FCT-12

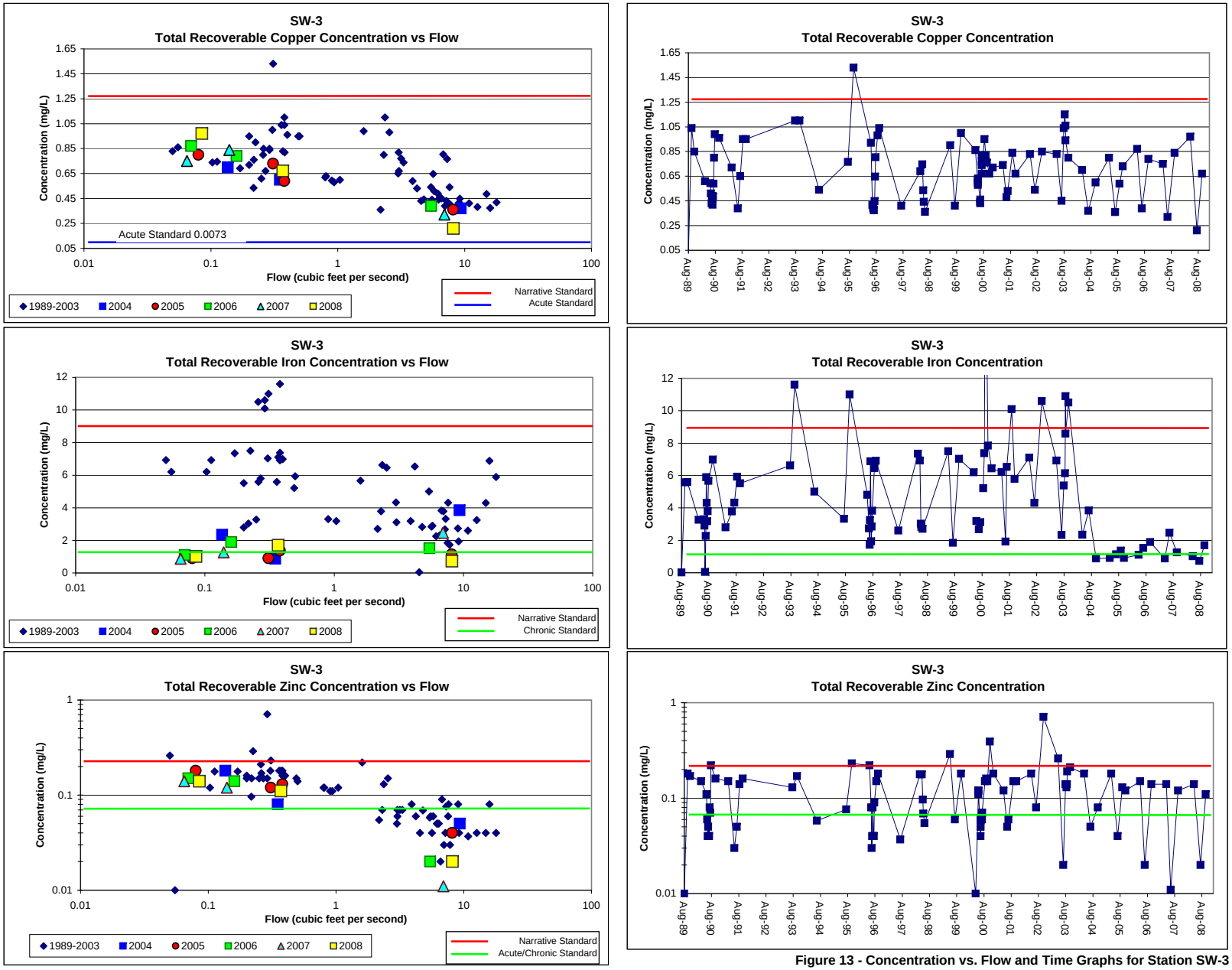
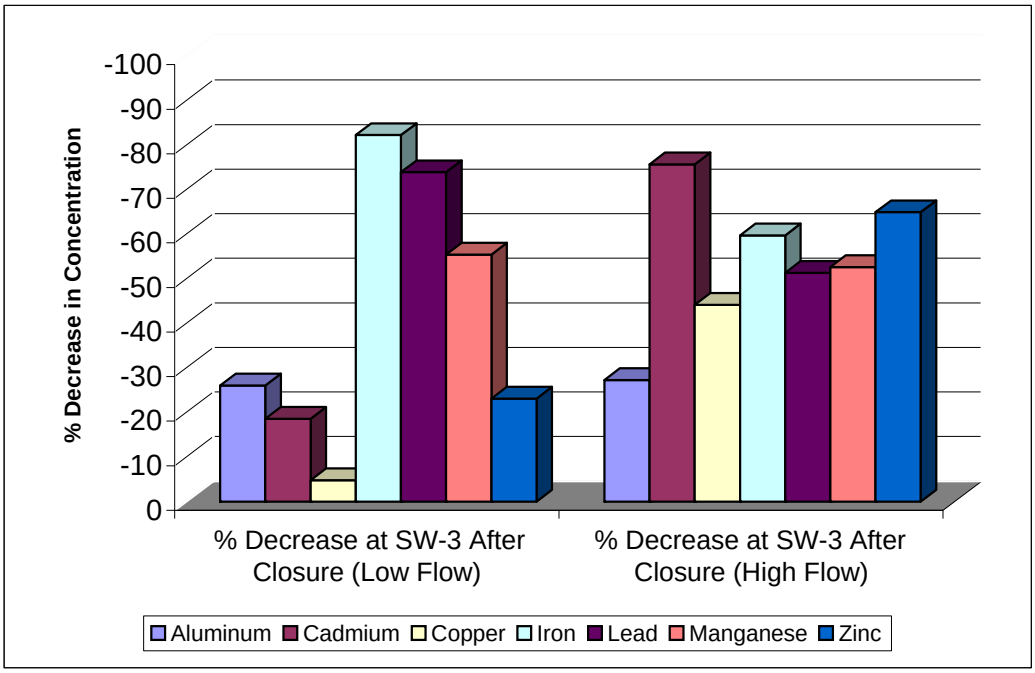


Figure 13 - Concentration vs. Flow and Time Graphs for Station SW-3



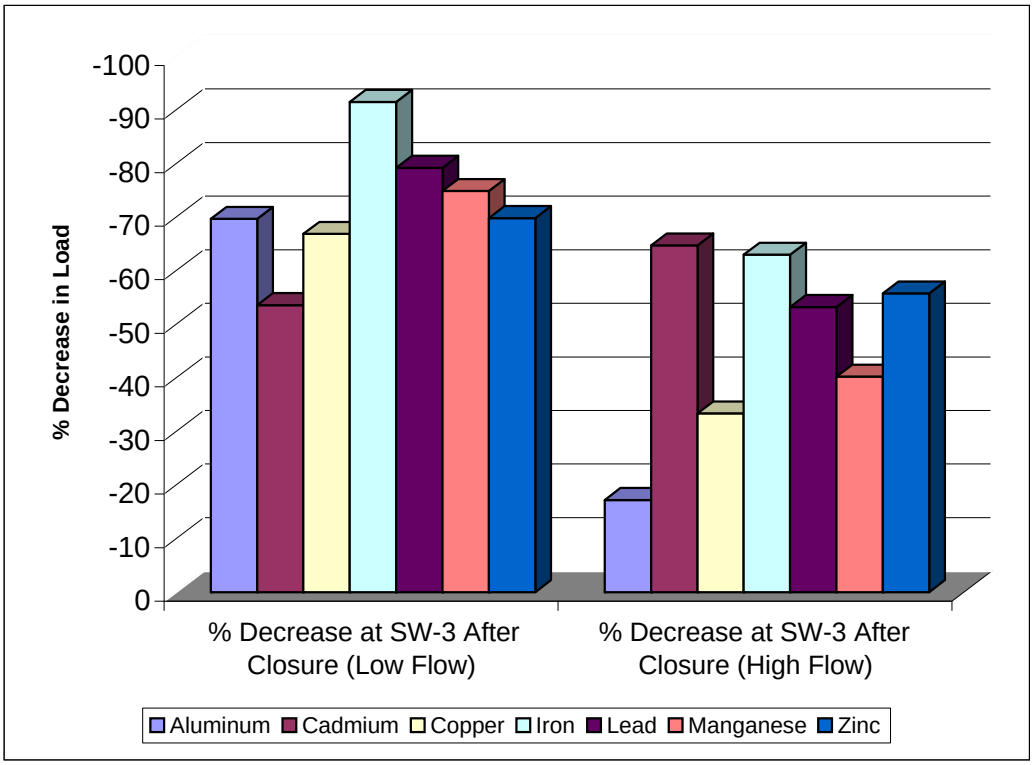


Figure 14. Percent Decrease in Mean Metals Concentrations and Loads at Station SW-3 Compared to Mean Concentrations Measured Prior to Closing the Glengarry Adit

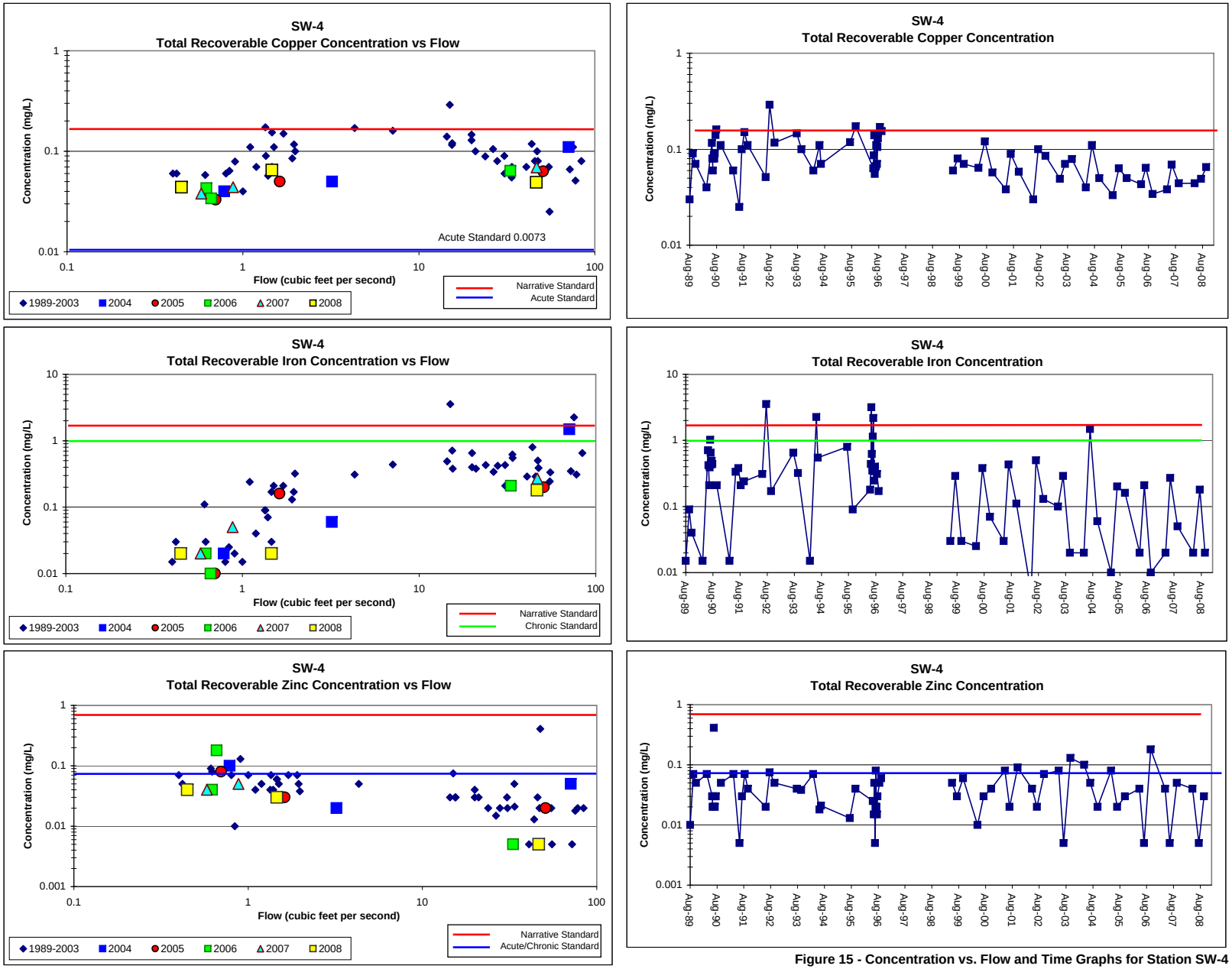


Figure 15 - Concentration vs. Flow and Time Graphs for Station SW-4

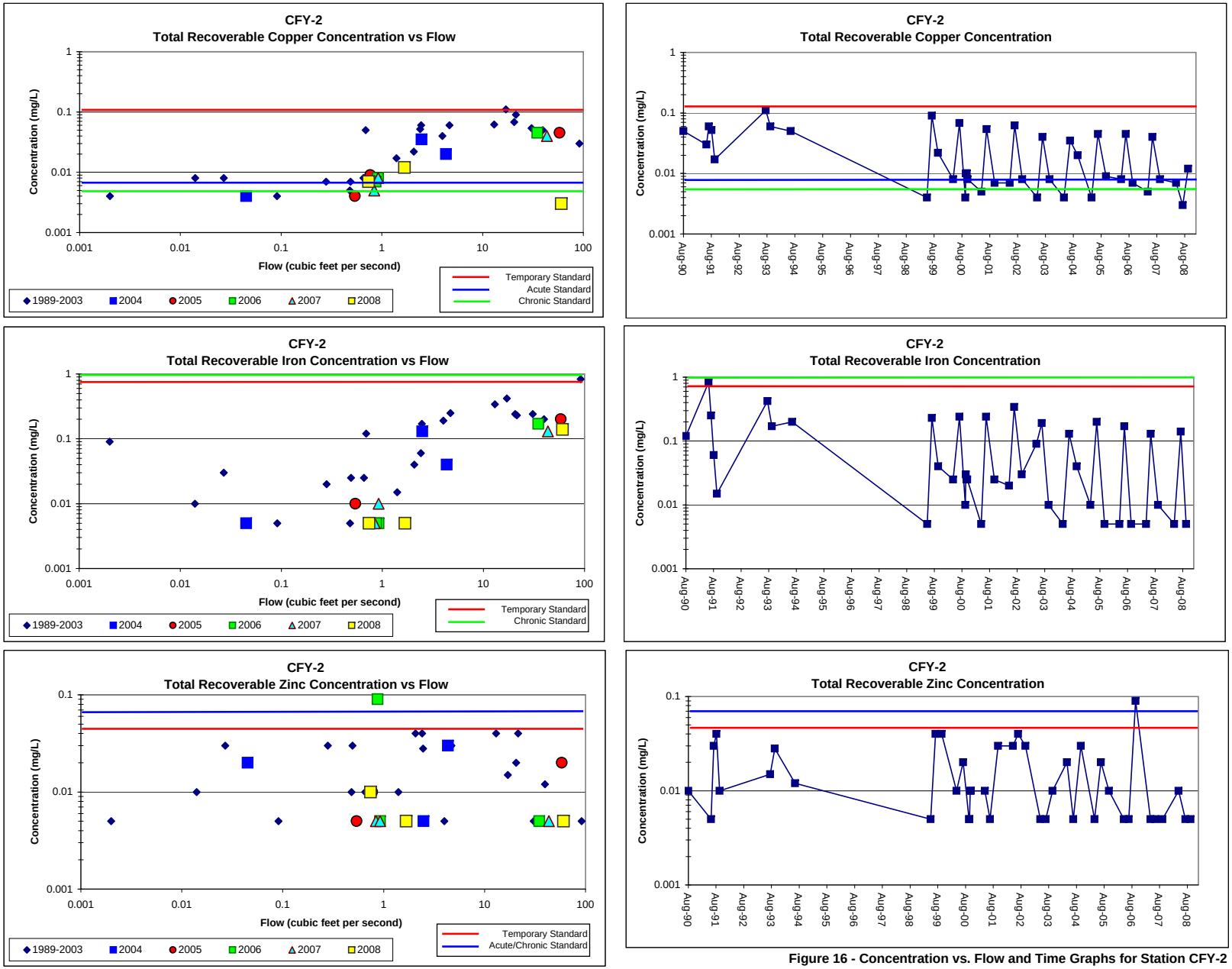
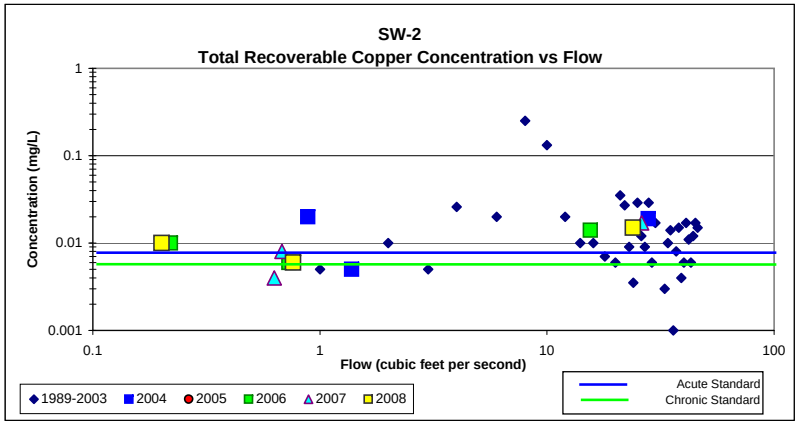
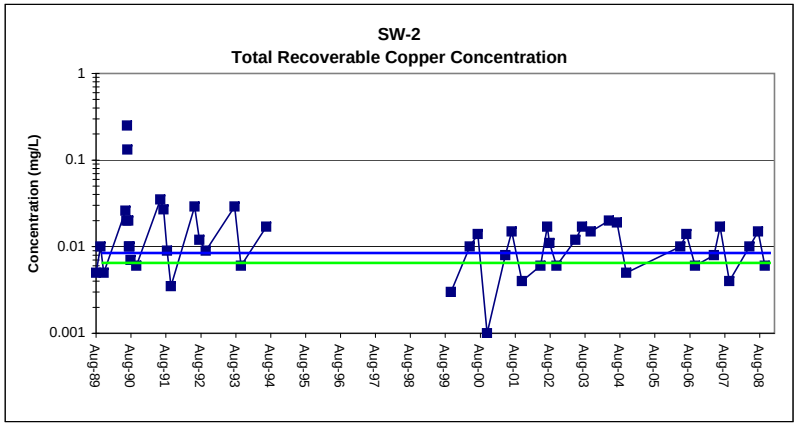
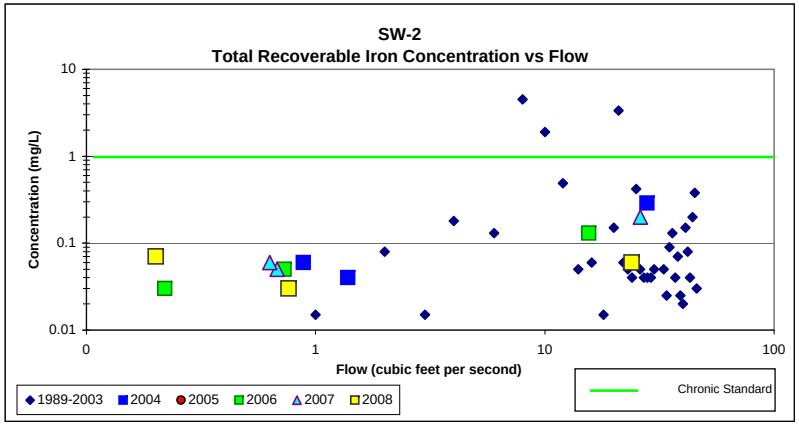
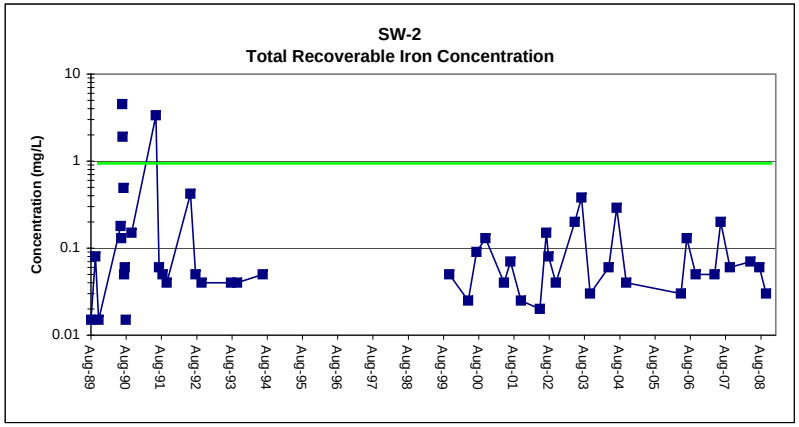


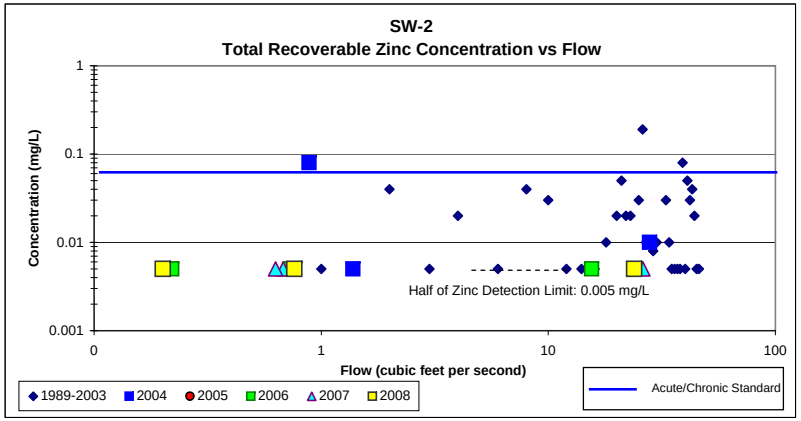
Figure 16 - Concentration vs. Flow and Time Graphs for Station CFY-2











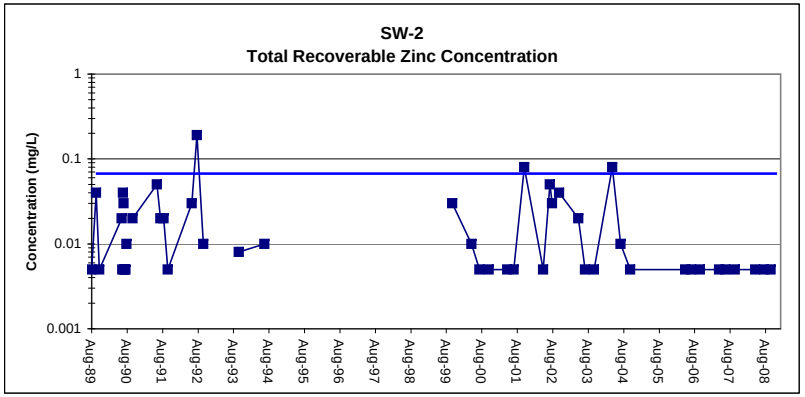
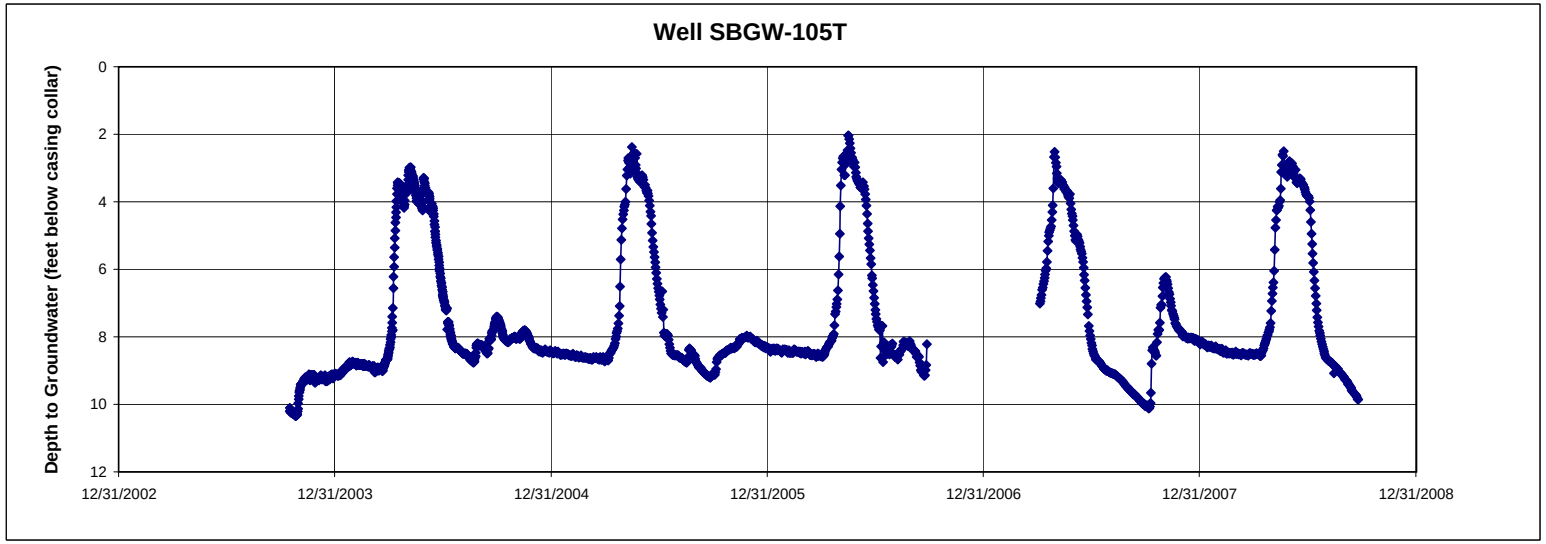


Figure 17 - Concentration vs. Flow and Time Graphs for Station SW-2



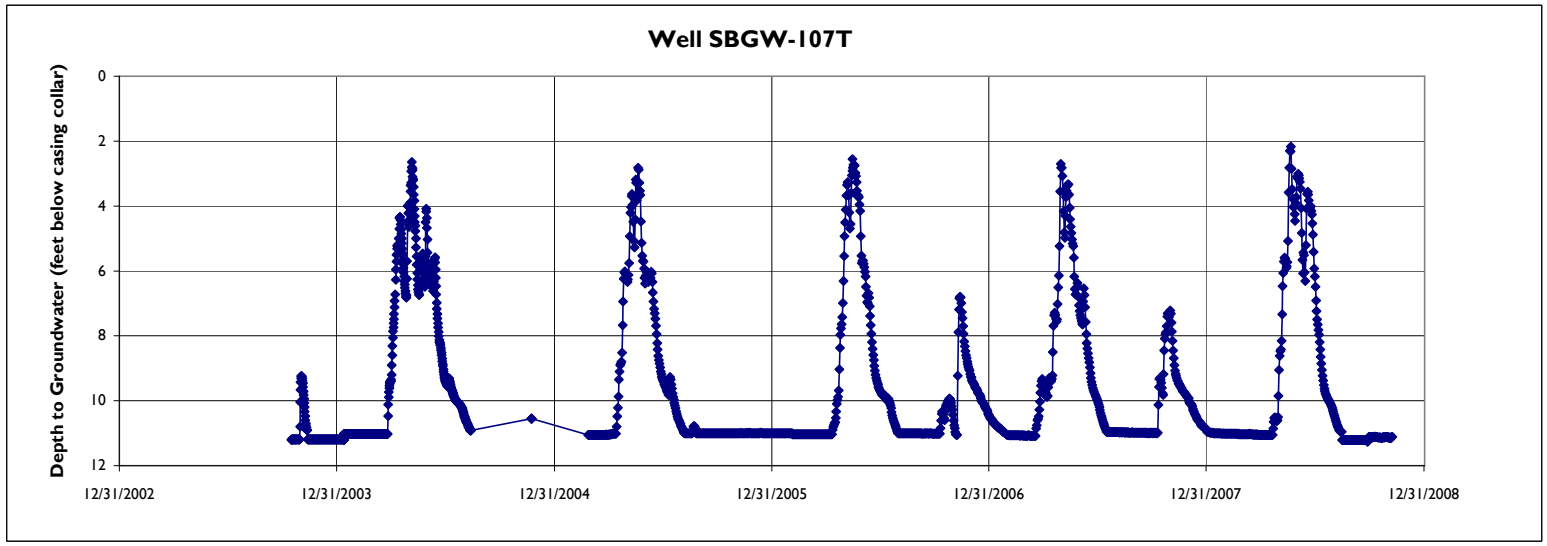
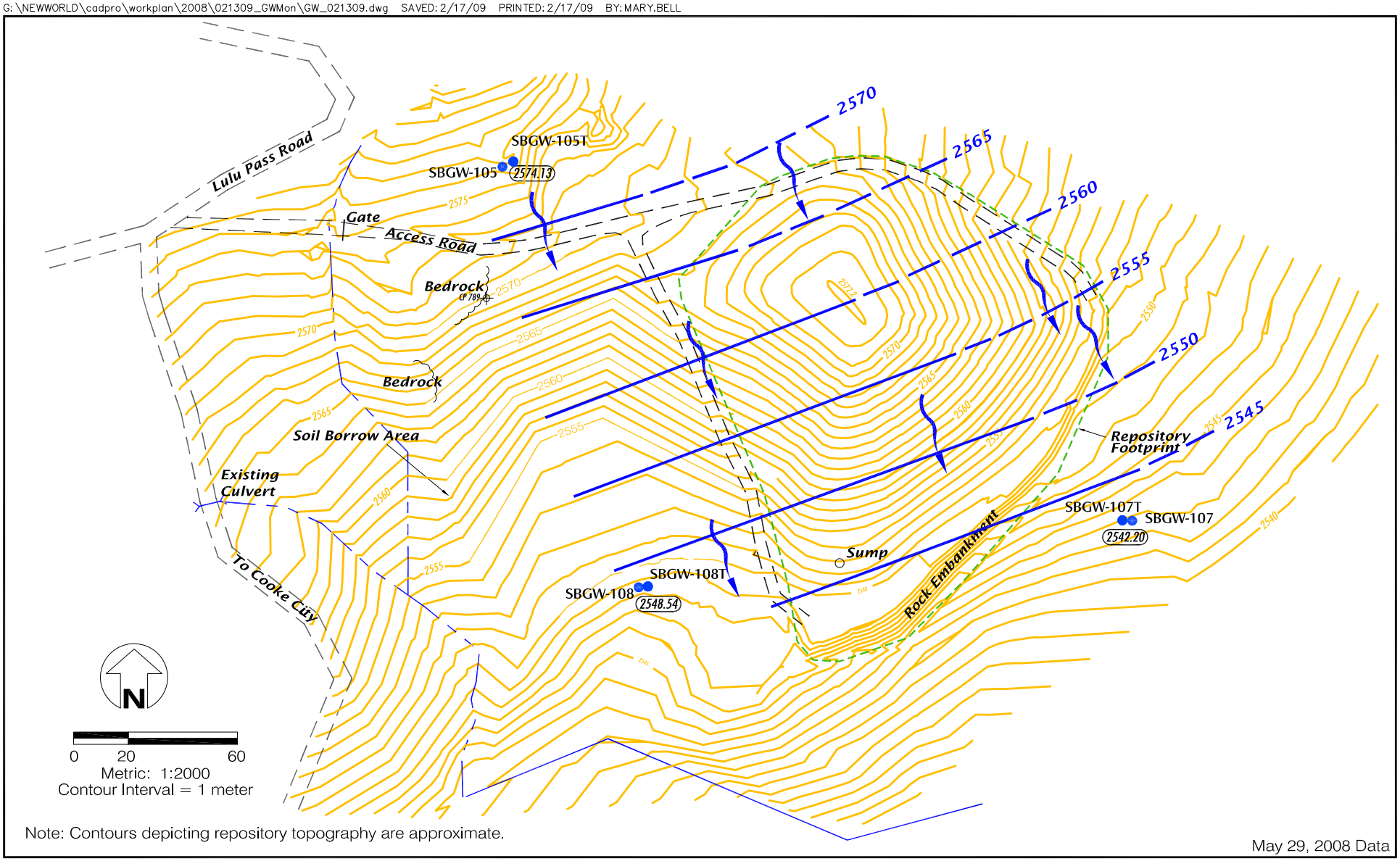


Figure 18. Depth to Groundwater in Repository Wells SBGW-105T and SBGW-107T

G:\NEWWORLD\cadpro\workplan\2008\021309_GWMon\GW_021309.dwg SAVED: 2/17/09 PRINTED: 2/17/09 BY: MARY.BELL



Note: Contours depicting repository topography are approximate.

May 29, 2008 Data

SBGW-108T ● Monitoring Well

2548.54 Groundwater Elevation (Meters) In Glacial Till Wells on May 29, 2008

2550 Groundwater Contour
Contour Interval = 5 meters
(Dashed where Inferred)

Groundwater Flow Direction

7561506A.210

Groundwater Elevation in Shallow Till
New World Waste Repository
New World Mining District
Response and Restoration Project
Cooke City Area, Montana
FIGURE 19

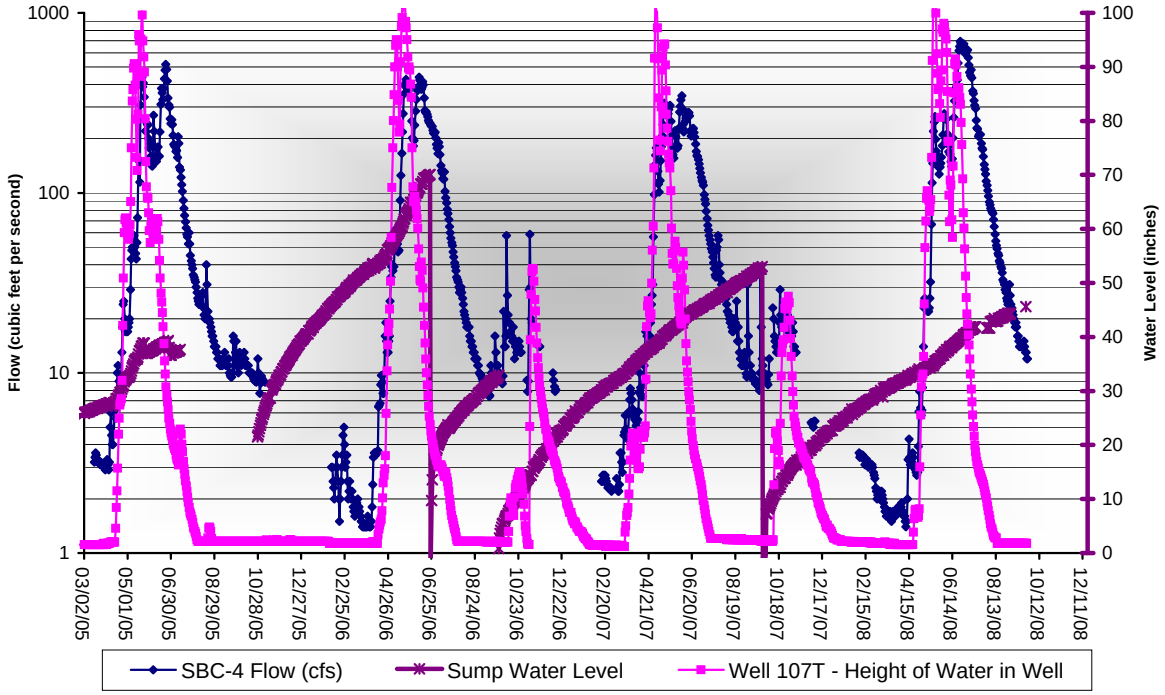


Figure 20. Repository Sump Water Level Compared to Groundwater Levels in Well SBGW-107T and Surface Water Flow in Soda Butte Creek at Station SBC-4

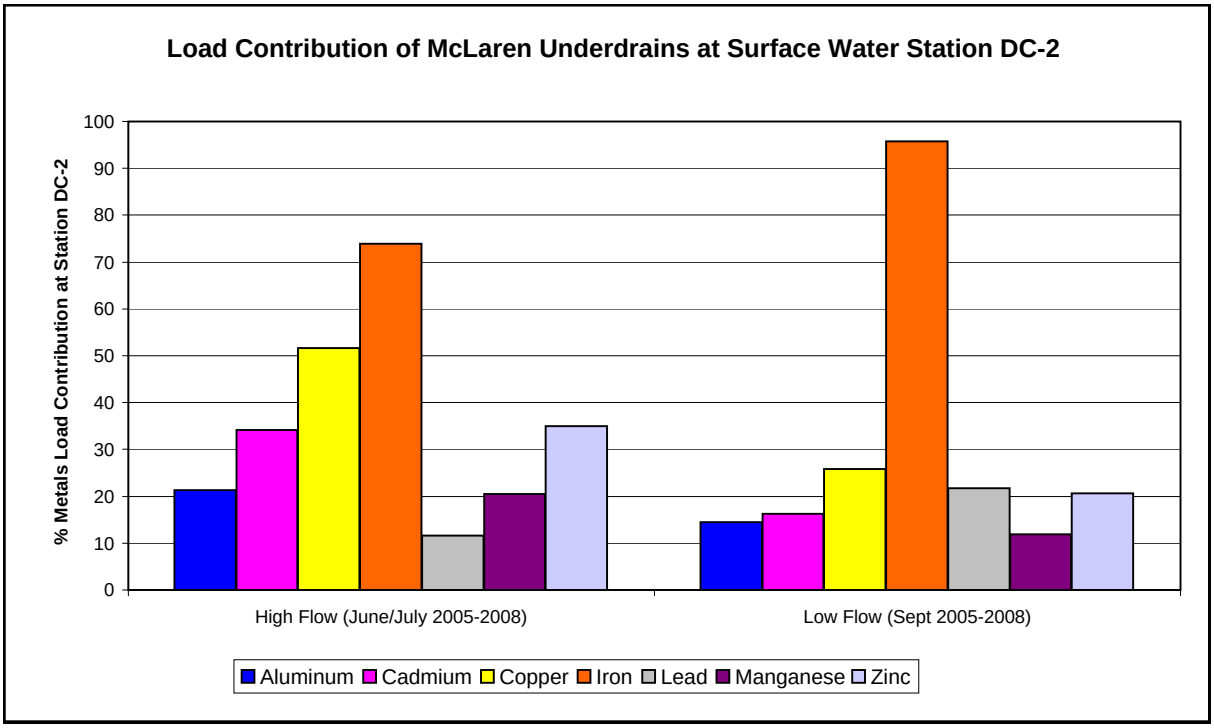
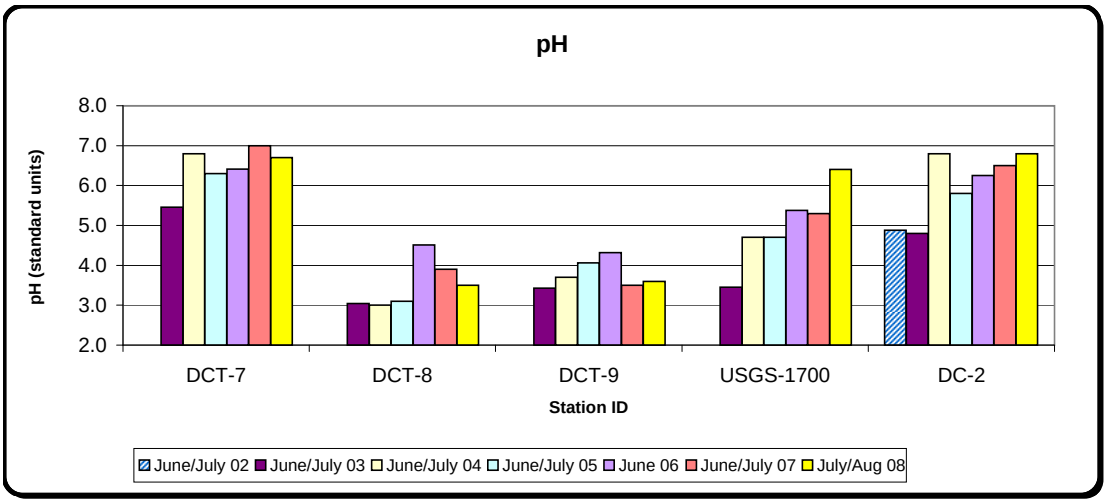


Figure 21. Metal Loads Calculated for McLaren Pit Subsurface Drains at Station DC-2



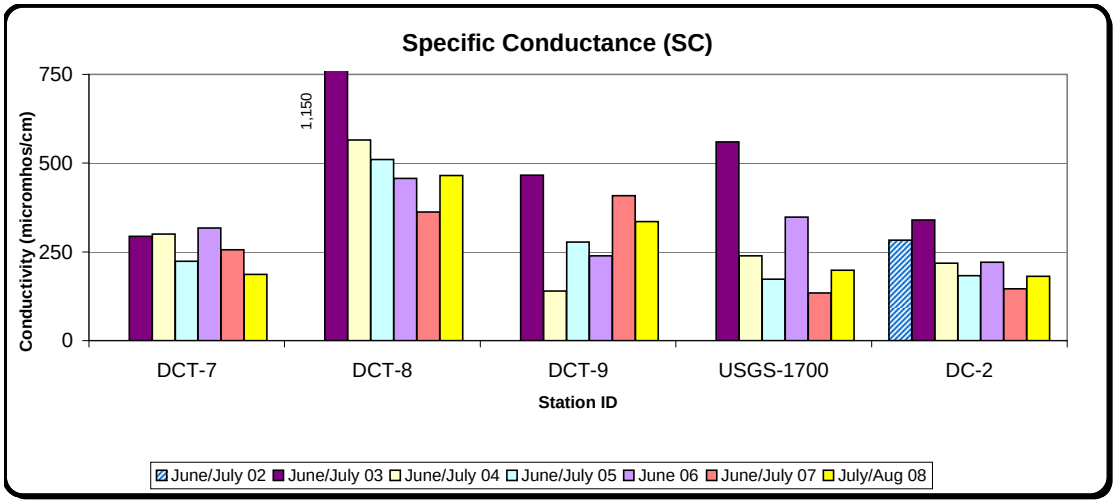
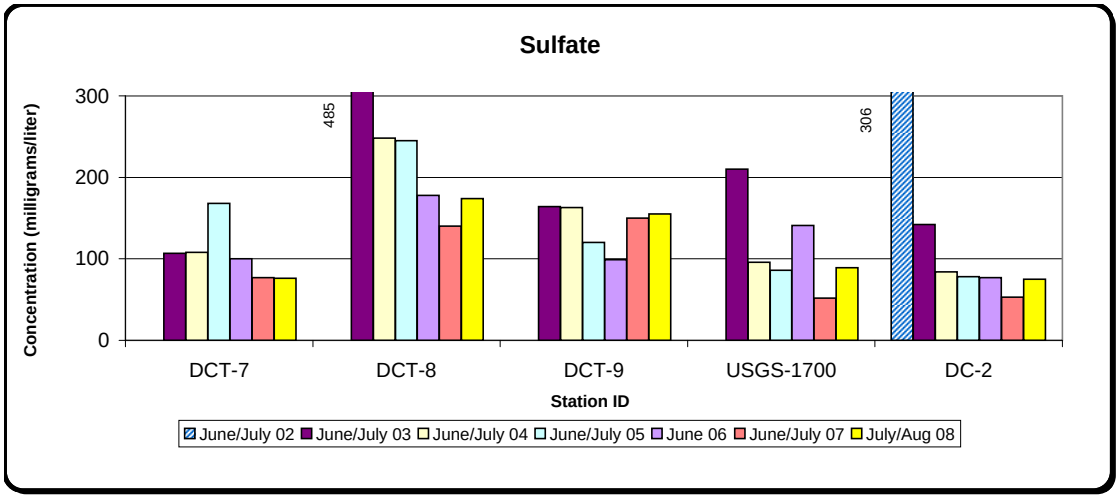
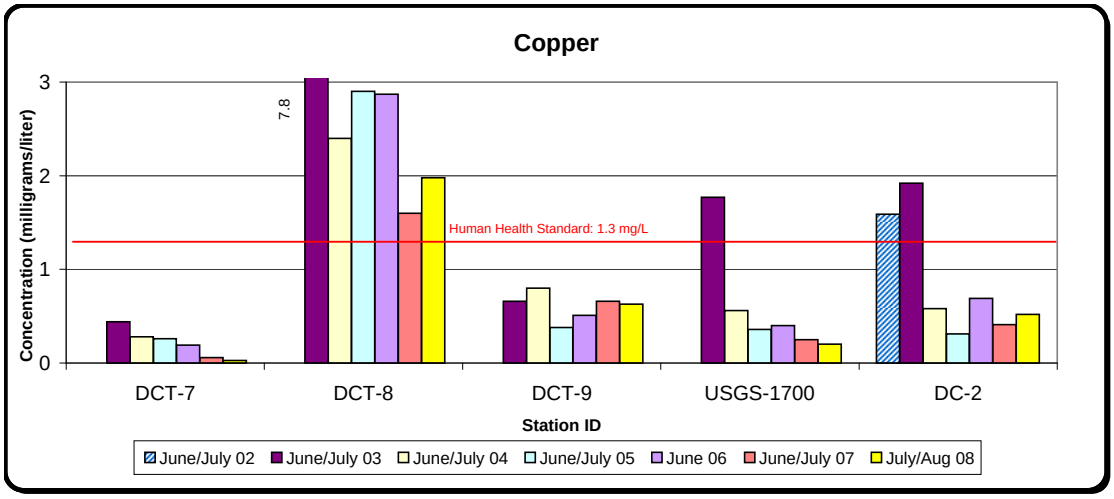


Figure 22. Trends in pH and Specific Conductance at Daisy Creek Tributary Stations and Station DC-2





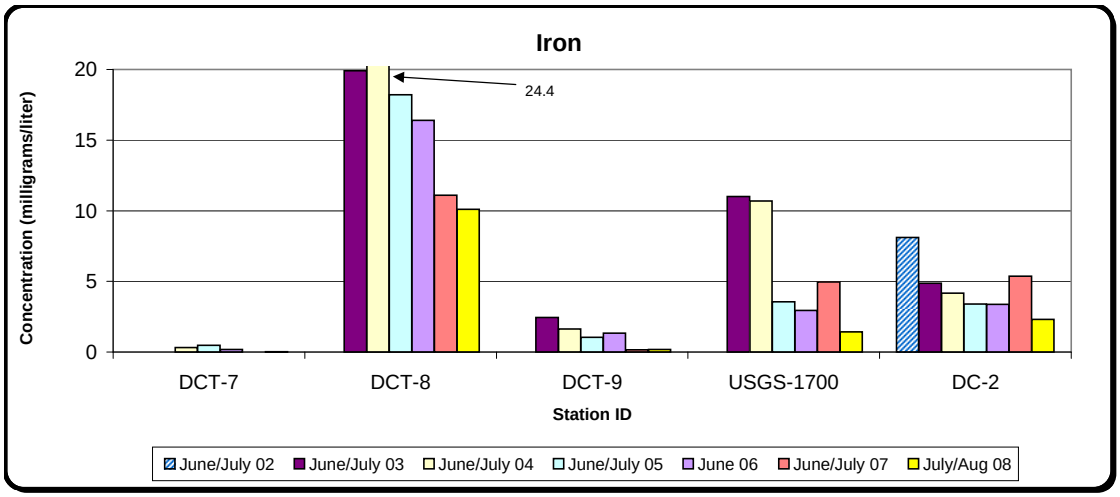


Figure 23. Trends in Sulfate, Copper, and Iron at Daisy Creek Tributary Stations and Station DC-2

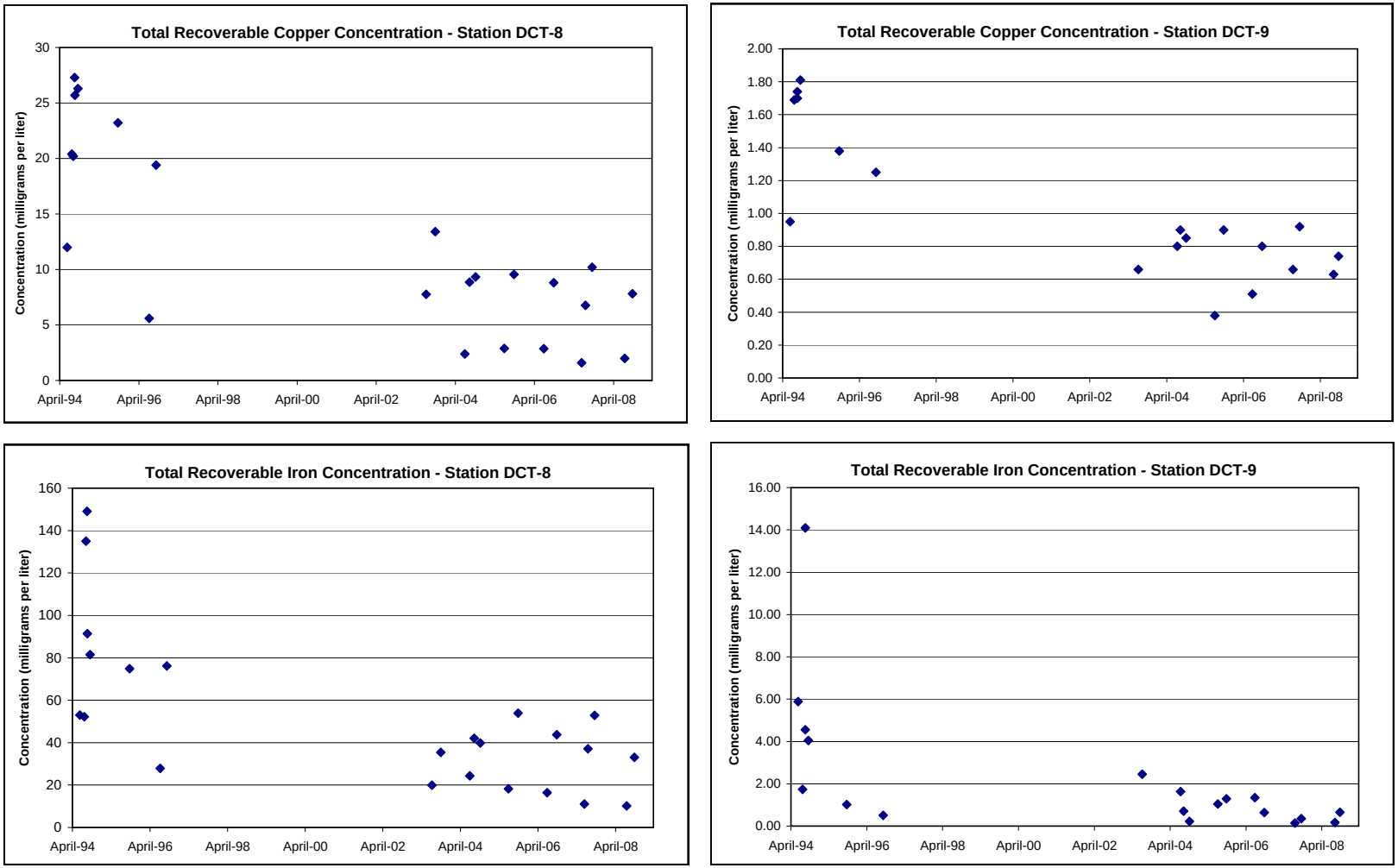


Figure 24. Total Recoverable Copper and Iron Concentrations Measured at Stations DCT-8 and DCT-9

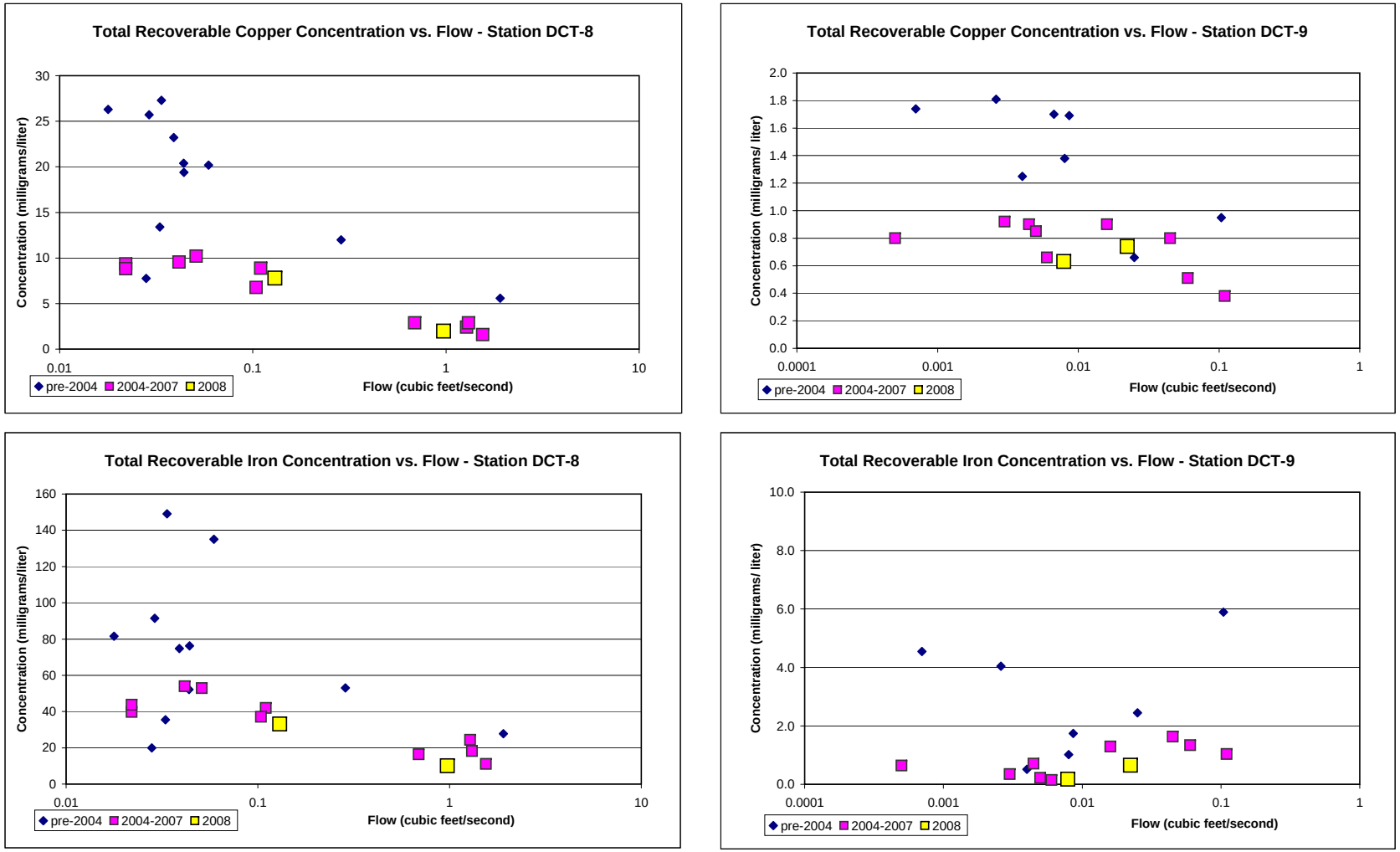
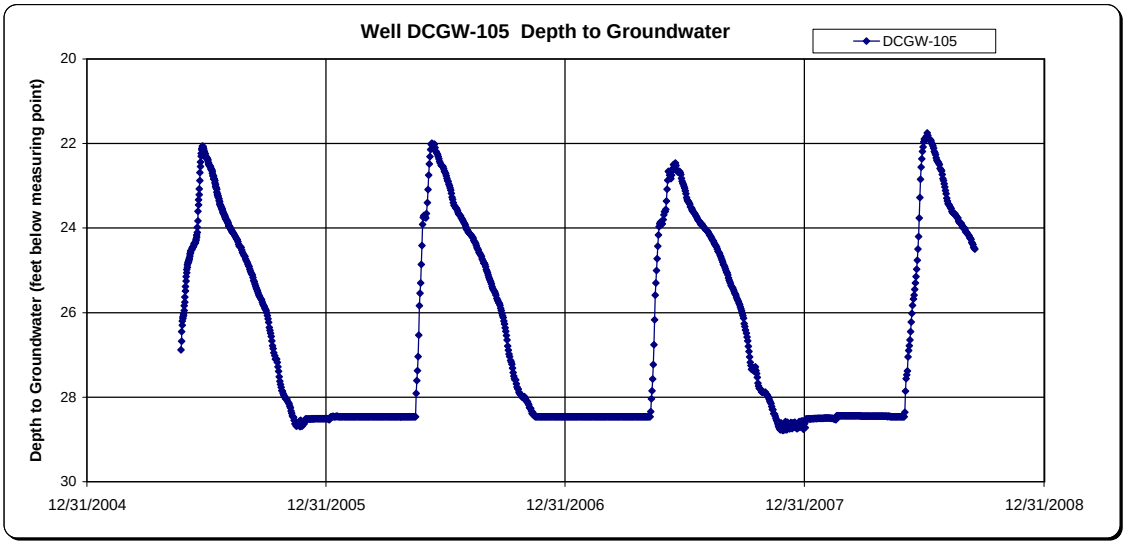


Figure 25. Total Recoverable Copper and Iron Concentrations vs. Flow at Stations DCT-8 and DCT-9



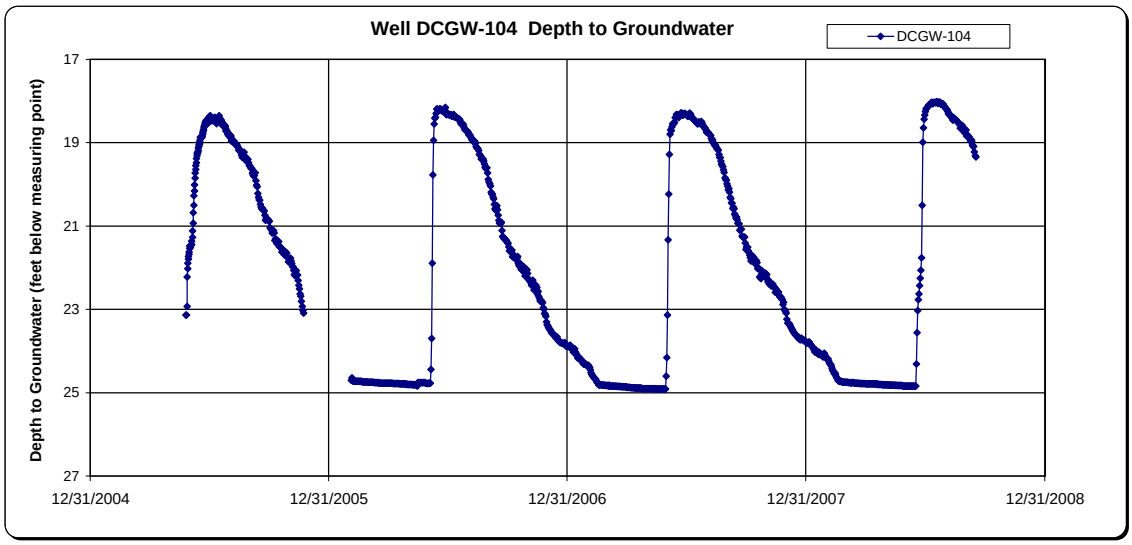
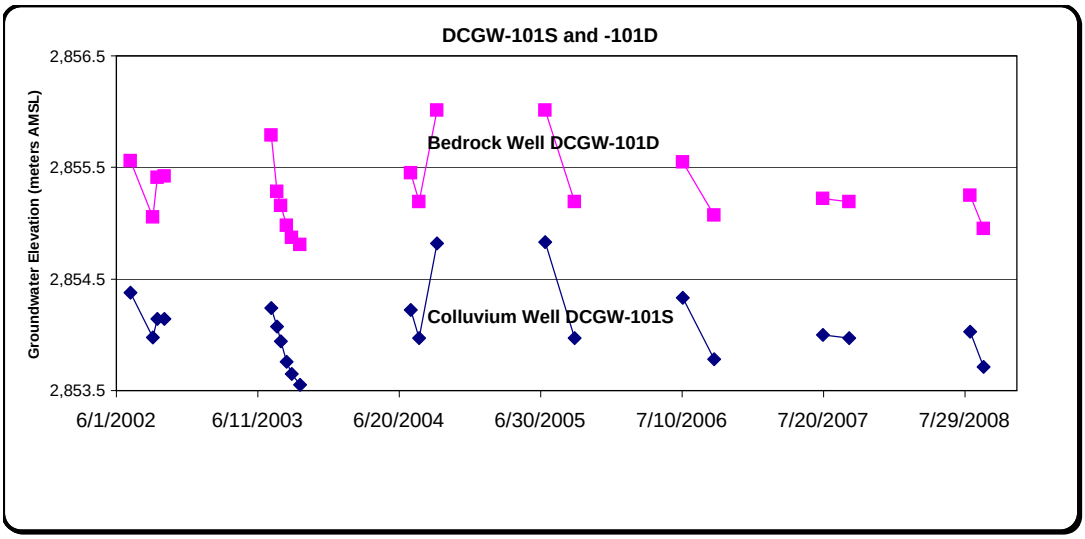


Figure 26. Groundwater Hydrographs for Waste Rock Wells DCGW-105 and DCGW-104 in McLaren Pit Cap Area



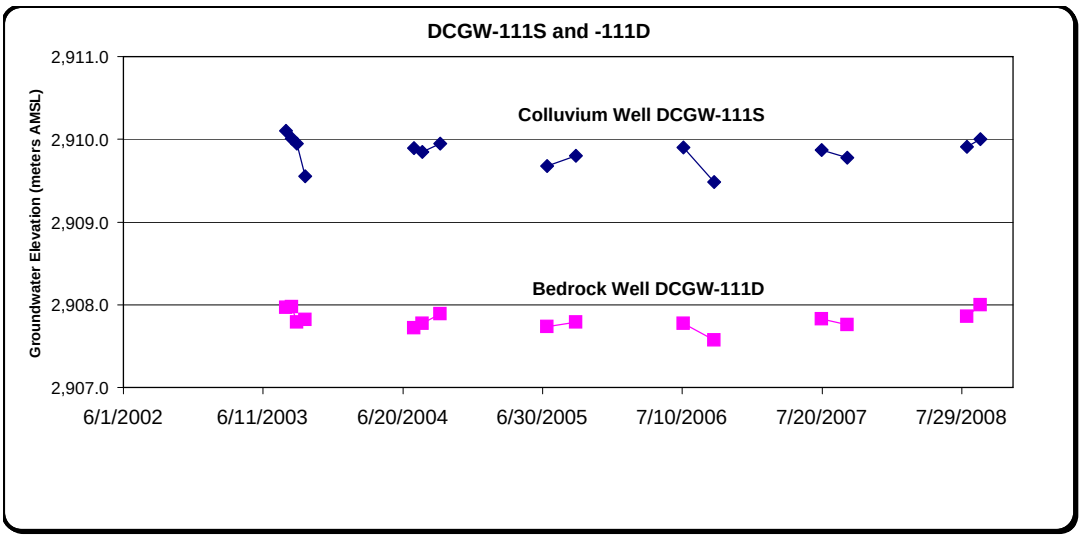
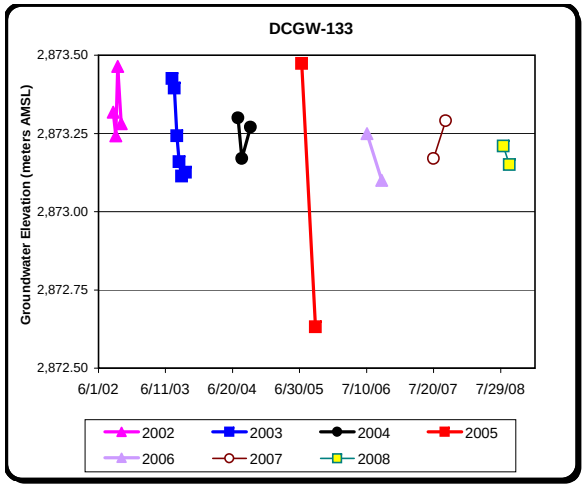
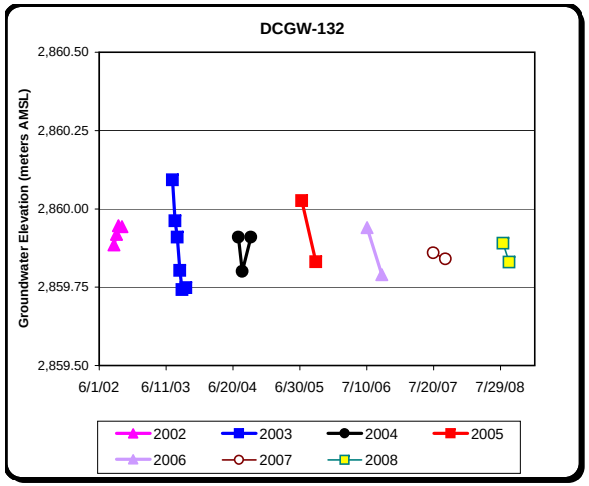
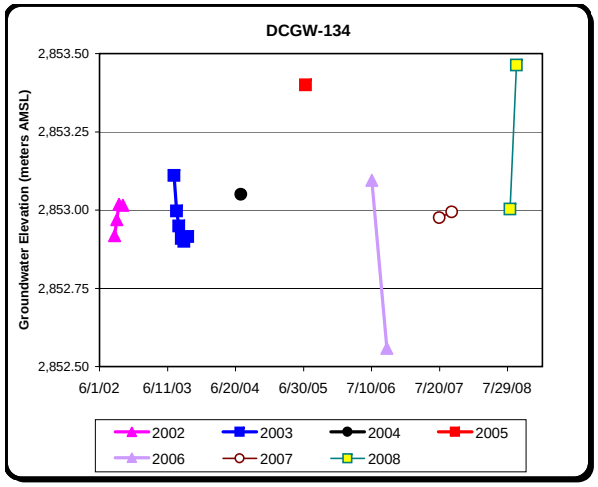


Figure 27. Paired Well Groundwater Hydrographs in the McLaren Pit Area

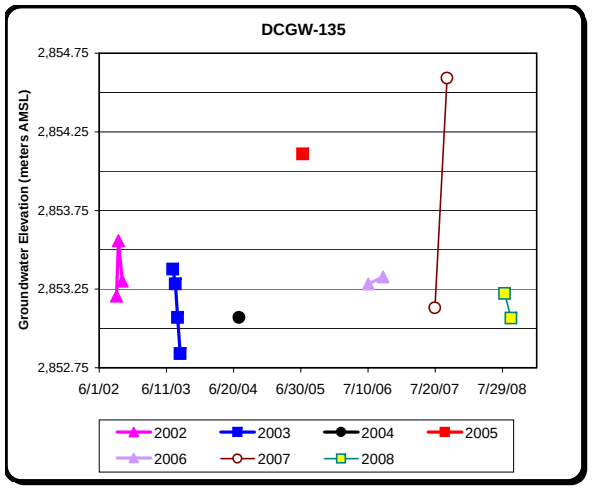
Downslope and along the Crown Butte Fault (North to South)

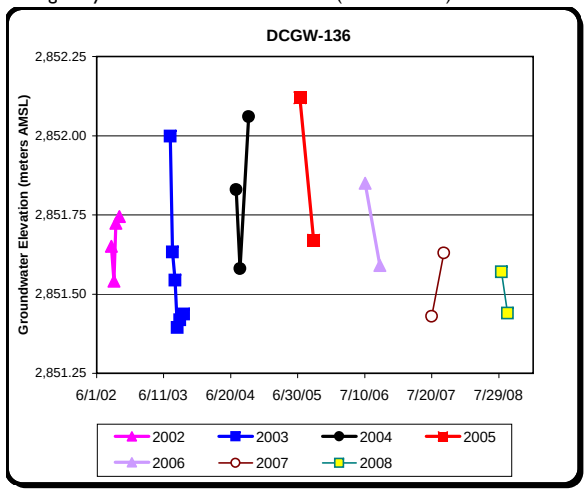






Moving away from the Crown Butte Fault (East to West)





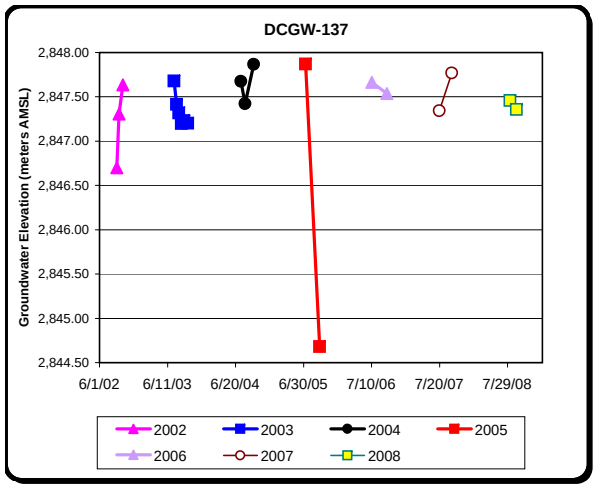
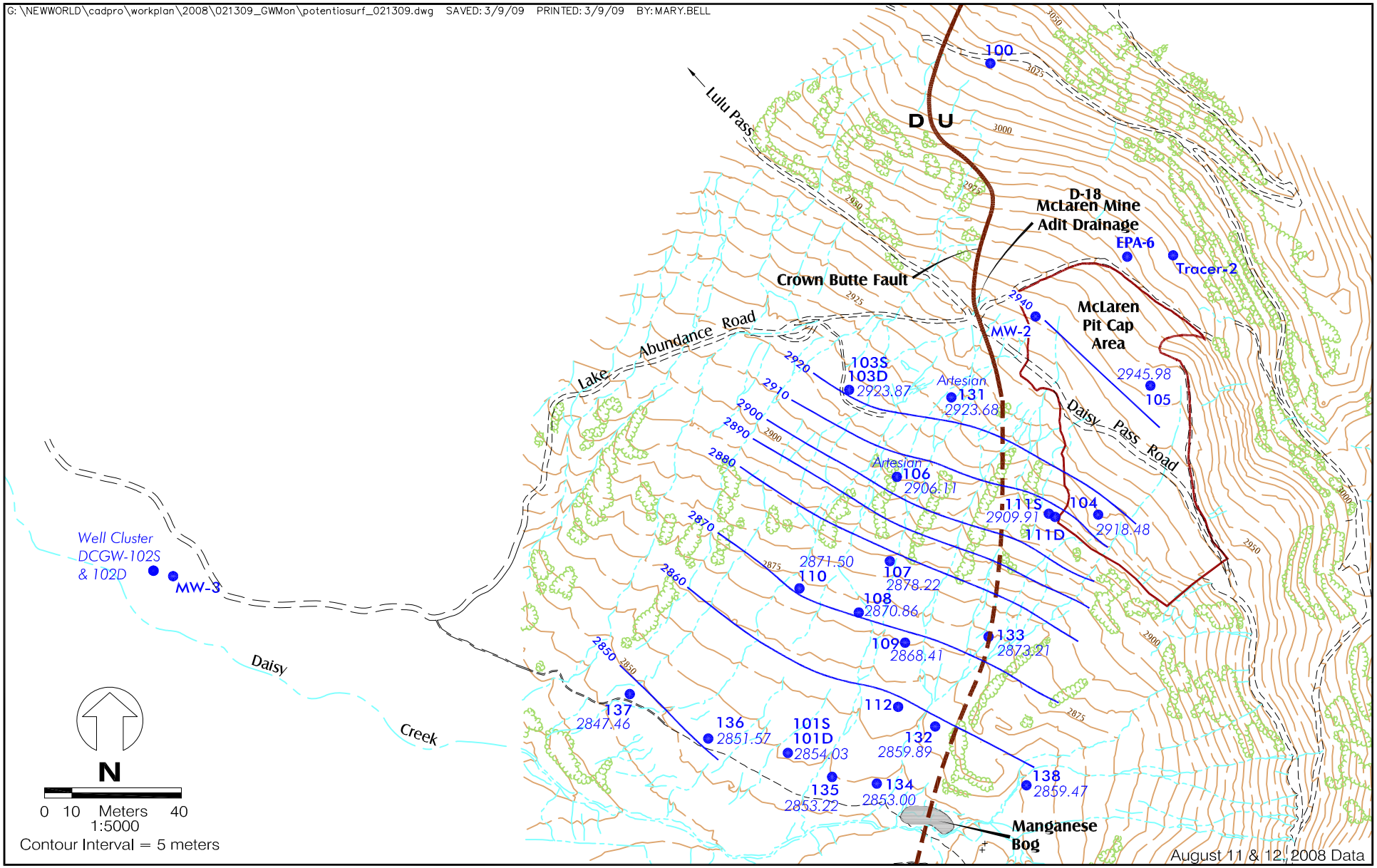


Figure 28. Groundwater Hydrographs in Select Wells in the McLaren Pit Area



Note: Data given only for monitoring wells screened in colluvium. Groundwater elevations in wells DCGW-100, DCGW-103D, DCGW-111D, DCGW-112, MW-2, EPA-6, and Tracer 2 were not used in the preparation of this potentiometric surface map.

D U — Crown Butte Fault (D - down thrown; U - up thrown) (dashed where inferred)

101 ● Monitoring Well (DCGW prefix may not be included)

Creek/Drainage

Road/Trail

Groundwater Contour (dashed where inferred)

2859.47 Groundwater Elevation (meters)

7561506A.210

Potentiometric Surface in Shallow Colluvium
McLaren Pit Area
New World Mining District
Response and Restoration Project
Cooke City Area, Montana
FIGURE 29

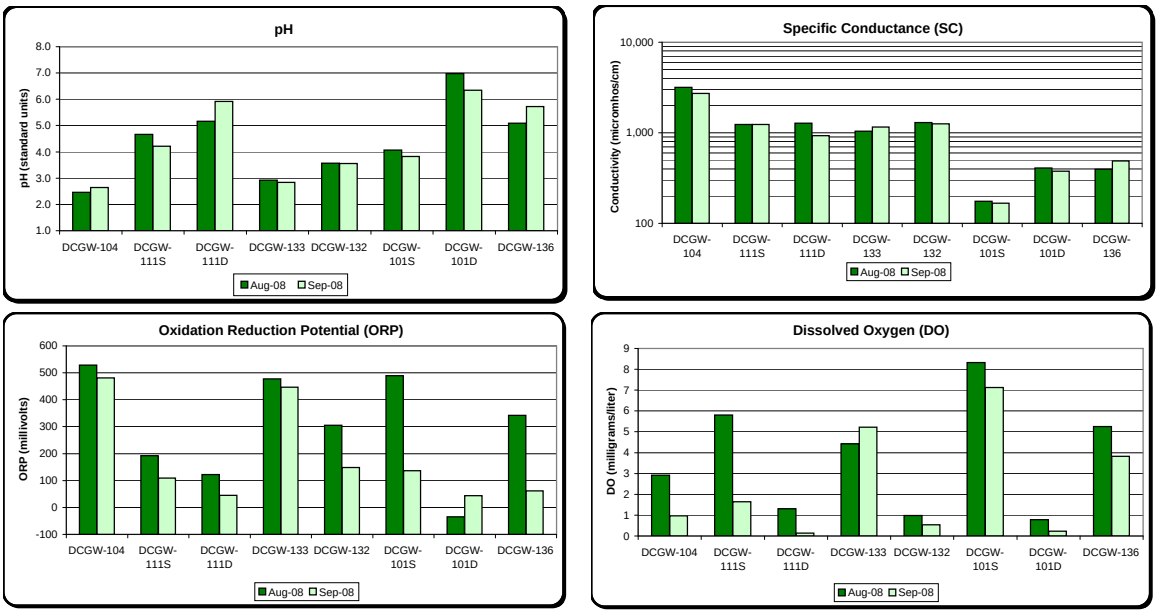


Figure 30. 2008 Field Parameter Measurements for Select Wells in the McLaren Pit Area

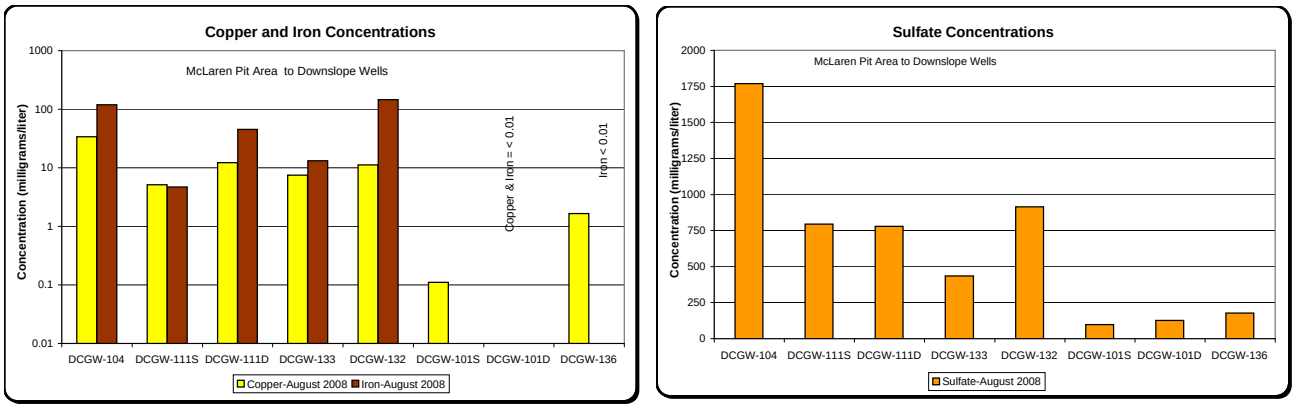


Figure 31. August 2008 Copper, Iron and Sulfate Concentrations in Select Wells in the McLaren Pit Area

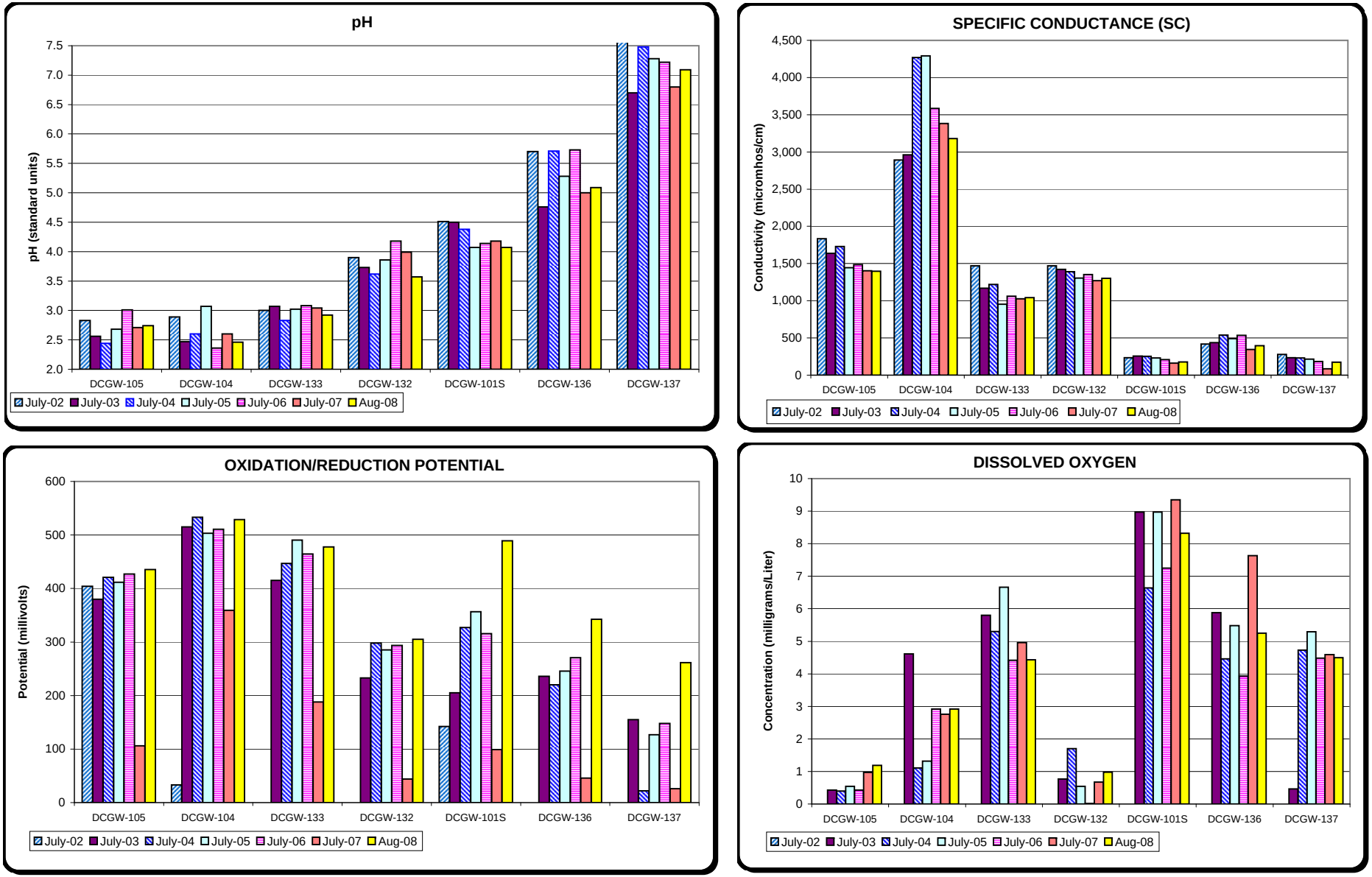
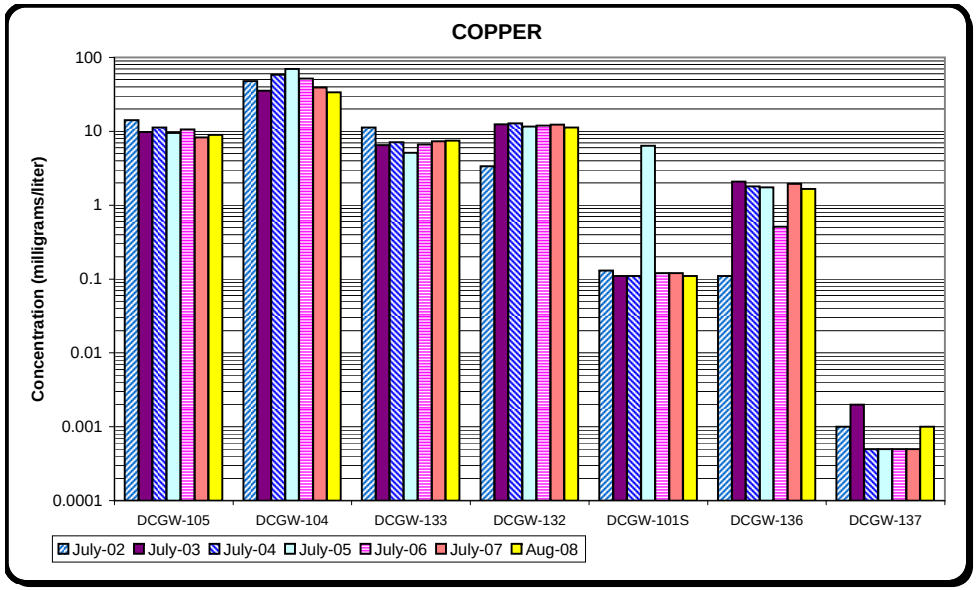


Figure 32. Comparison of Field Parameters and Analytical Data for Selected Wells in the McLaren Pit Area for 2002 to 2008



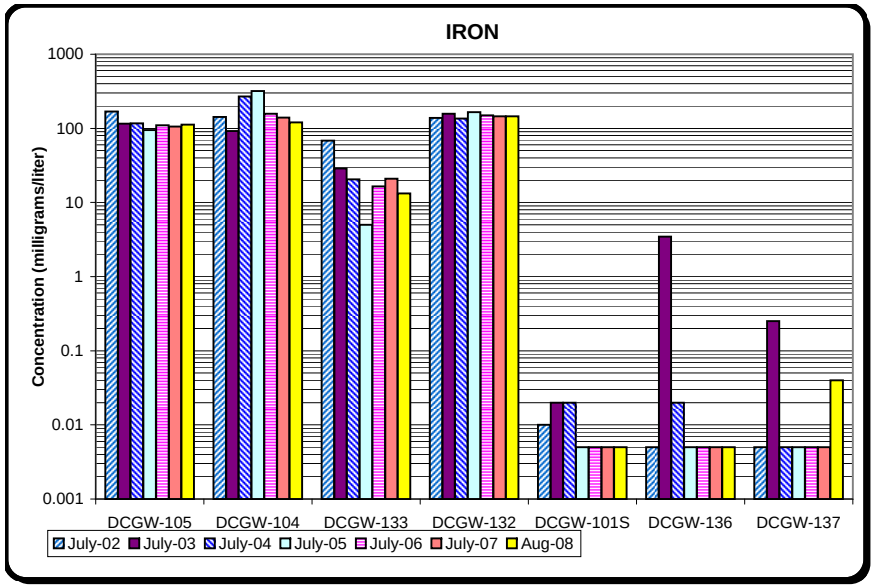
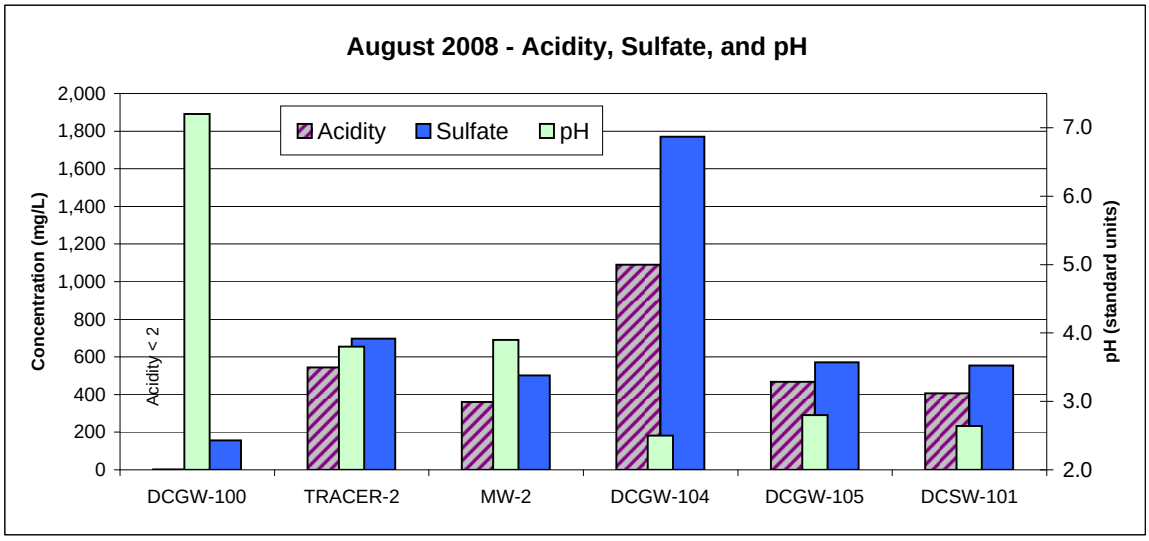


Figure 32. **(Continued)** Comparison of Field Parameters and Analytical Data for Selected Wells in the McLaren Pit Area for 2002 to 2008

Note: Copper and Iron not detected in well DCGW-137 between 2003 - 2007
Iron not detected in wells DCGW-101S and -136 since 2004



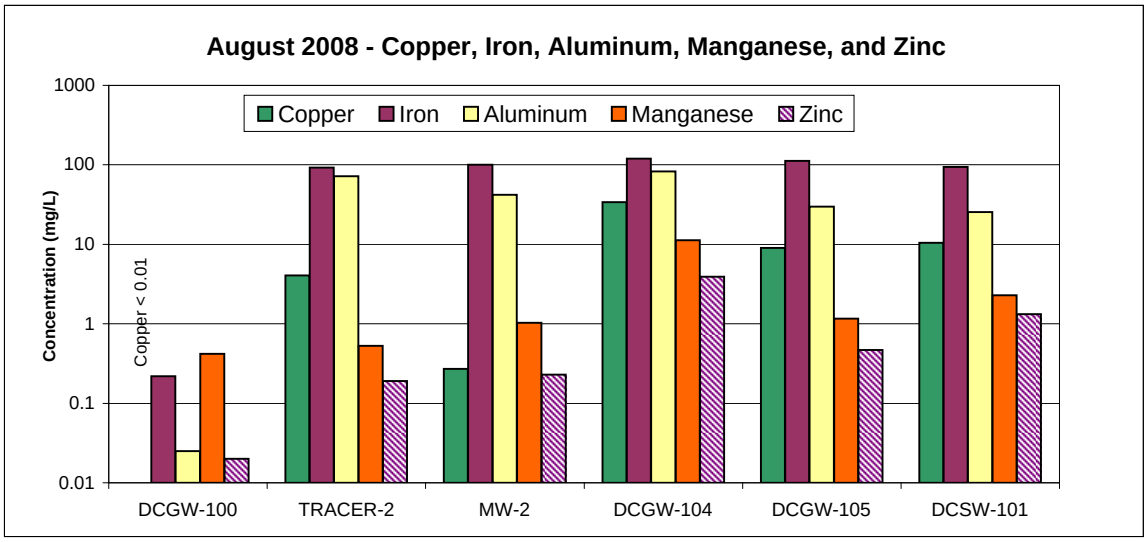


Figure 33. Comparison of Field Parameters and Analytical Data for Background Wells, Waste Rock Wells, and the McLaren Pit Subsurface Drain - August 2008 Data

APPENDIX B

DATA SUMMARY TABLES
2008 SURFACE WATER AND GROUNDWATER MONITORING REPORT
New World Mining District Response and Restoration Project

1 2008 Surface Water Sampling Stations
2 2008 Adit Discharge Monitoring Sites
3 McLaren Pit Area Monitoring Wells
4 Other District Monitoring Wells
5 Daisy Creek/Stillwater River Surface Water Results Comparison to Standards
6 Fisher Creek/Clarks Fork River Surface Water Results Comparison to Standards
7 Miller Creek Surface Water Results Comparison to Standards
8 Soda Butte Creek Surface Water Results Comparison to Standards
9 Tributary to Soda Butte Creek Surface Water Results Comparison to Standards
10 2008 Mine Adit Discharge Monitoring and Field Parameter Data
11 2008 Field Parameter Data – Como Basin Monitoring Wells
12 Comparison of Como Basin Well Monitoring Data
13 Groundwater Quality Data – New World Waste Repository Area
14 2008 Surface Water QA/QC Samples
15 2008 Groundwater QA/QC Samples

TABLE 1
2008 SURFACE WATER SAMPLING STATIONS
New World Mining District Response and Restoration Project

Site Name	Location	April	May	July/Aug	Sept
Daisy Creek Drainage					
DCT-7 *	Daisy Cr. tributary south of McLaren Pit	--	--	X	X
DCT-8 *	Daisy Cr. tributary south of McLaren Pit	--	--	X	X
DCT-9 *	Daisy Cr. tributary south of McLaren Pit	--	--	X	X
USGS-1700 *	Daisy Cr. tributary south of McLaren Pit	--	--	X	X
Cover Drains *	McLaren Pit drains beneath cover (DCSW-101, -102, -103)	--	--	X	X
DC-2	Daisy Creek below confluence of McLaren tributaries	X	--	X	X
DC-5	Daisy Creek above confluence with Stillwater River	X	--	X	X
USGS-11890 *	Stillwater River below the mouth of Daisy Creek	--	--	--	X
SW-7	Stillwater River at Stillwater Trail Crossing	X	--	X	X
Fisher Creek Drainage					
FCT-12 *	Tributary south of former Glengarry Adit	--	--	X	X
FCT-11 *	Tributary below Como Basin	--	--	X	X
SW-3	Fisher Creek below former Glengarry Adit	X	--	X	X
FC-4 *	Fisher Creek just above the Gold Dust Adit tributary (USGS synoptic station 1,704 meters)	--	--	--	X
SW-4	Fisher Creek at Lulu Pass Road Crossing	X	--	X	X
CFY-2	Fisher Creek above Clarks Fork confluence	X	--	X	X
Clarks Fork River Drainage					
SW-6	Clarks Fork Yellowstone River at Saw Mill Road	X	--	X	X
Miller Creek Drainage					
SW-2	Miller Creek below Miller Mountain Road Crossing	X	--	X	X
SW-5 *	Miller Creek near mouth	X	--	X	X
Soda Butte Creek Drainage					
SBT-3 *	Soda Butte Creek Tributary below Repository Site	X	X	--	X
SBT-6 *	Soda Butte Creek Tributary below Repository Site	X	X	--	X
SBC-1	Soda Butte Creek above confluence with Miller Creek	X	--	X	X
SBC-2	Soda Butte Creek below McLaren Tailings	X	--	X	X
RR-SBSW-102	Soda Butte Creek below Woody Creek	X	--	X	X
SBC-4	Soda Butte Creek at Park Boundary	X	--	X	X

Note: * Indicates supplemental surface water monitoring station

TABLE 2
2008 ADIT DISCHARGE MONITORING SITES
New World Mining District Response and Restoration Project

Adit Station No.	Site Name[1]	Drainage	Most Recent Sampling Event	Flow (gpm) [2]	Exceedance[3]
F-8A	Glengarry Adit	Fisher	Sep 2007	0.5[4]	Cu, Fe, Mn, Zn
F-8B	Glengarry Mill Site Adit	Fisher	Aug 2008	3.1	Cd, Cu, Fe, Pb, Mn, Zn
F-28	Gold Dust Adit	Fisher	Sep 2008	4.4	Fe, Mn
FCSI-96-5	Lower Tredennic Dump 1	Fisher	Sep 2008	1.6	Mn
AE-17	Henderson Mountain Dump 7	Fisher	July 2003	5.0[5]	Cu, Fe, Mn
D-18	McLaren Adit	Daisy	Sep 2008	5.95	Fe, Mn
M-8	Black Warrior Adit	Miller	Sep 2007	<0.25[4]	Cd, Cu, Fe, Pb, Mn, Zn
M-1	Little Daisy Adit	Miller	Sep 2008	8.93	Fe, Mn
M-25	Henderson Mt Adit	Miller	Aug 2007	0.002	Cd, Cu, Fe, Pb, Zn

Notes:
1. Adit sites were analyzed for total and dissolved metals; NDP = non-District Property
2. Most recent flow measurement in gallons per minute (gpm)
3. Exceedance of aquatic standards or human health standard or guideline in most recent sampling event: Cd = cadmium, Cu = copper, Fe = iron, Pb = lead, Mn = manganese, Zn = Zinc
4. Flow visually estimated
5. Flow measured in streamflow at base of dump below adit

Shaded sites were dry at time of site visit in September 2008

TABLE 3
McLAREN PIT AREA MONITORING WELLS
New World Mining District Response and Restoration Project

Well No.	Year Installed	Completion Formation	August 2008	September 2008
DCGW-100	2003	Meagher Limestone	X	F
DCGW-101S	2001	Colluvium	X	F
DCGW-101D	2001	Lulu Pass Rhyodacite Porphyry	X	F
DCGW-111S	2003	Colluvium	X	F
DCGW-111D	2003	Bedrock	X	F
Tracer-2 *	1997	Fisher Mtn. Intrusive	X	F
MW-2 *	1989	Wolsey Shale	X	F
MW-3 *	1989	Wolsey Shale	X	--
DCGW-103S	2001	Colluvium	F	--
DCGW-103D	2001	Wolsey Shale	F	--
DCGW-104 [W]	2001	Waste Rock	X	F
DCGW-105 [W]	2001	Waste Rock	X	F
DCGW-106	2002	Colluvium	F	--
DCGW-107	2002	Colluvium	X	--
DCGW-108	2002	Colluvium	X	--
DCGW-109	2002	Colluvium	F	--
DCGW-110	2002	Colluvium	F	--
DCGW-112	2002	Colluvium	F	--
DCGW-131	2002	Colluvium	F	F
DCGW-132	2002	Colluvium	X	F
DCGW-133	2002	Colluvium	X	F
DCGW-134	2002	Colluvium	F	F
DCGW-135	2002	Colluvium	F	F
DCGW-136	2002	Colluvium	X	F
DCGW-137	2002	Colluvium	X	F
DCGW-138	2002	Colluvium	X	--

Notes:
- X Indicates measurement of depth to groundwater, field parameters, and collection of sample(s) for laboratory analysis
- F Indicates only measurement of depth to water and field parameters
- W Continuous water level monitoring
- -- Indicates no monitoring conducted
- * Long-term groundwater monitoring station

TABLE 4
OTHER DISTRICT MONITORING WELLS
New World Mining District Response and Restoration Project

Well No.	Year Installed	Completion Formation	2008 Monitoring Event					
			May	June	July	Aug	Sep	Continuous
Fisher Creek Area								
EPA-11 *	1996	Tertiary Intrusive Dike	--	--	--	X	--	--
FCGW-100	2004	Glengarry Adit Workings	--	--	--	X	--	--
EPA-12 *	1996	Scotch Bonnet Diorite	--	--	--	X	--	--
MW-1 *	1989	Wolsey Shale	--	--	--	X	--	--
MW-9A *	1990	Alluvium	--	--	--	X	--	--
MW-9B *	1990	Precambrian	--	--	--	X	--	--
MW-10A *	1990	Alluvium	--	--	--	X	--	--
MW-10B *	1991	Precambrian	--	--	--	X	--	--
MW-11 *	1990	Precambrian	--	--	--	X	--	--
SB-16 *	1991	Precambrian	--	--	--	X	--	--
Tracer-5 *	1997	Fisher Mtn. Intrusive	--	--	--	X	--	--
New World Waste Repository								
SBGW-105T	1999	Till	X	--	--	X	--	W
SBGW-105	1999	Granite	X	--	--	X	--	--
SBGW-107T	1999	Till	X	--	--	X	--	W
SBGW-107	1999	Granite	X	--	--	X	--	--
SBGW-108T	1999	Till	X	--	--	X	--	--
SBGW-108	1999	Granite	X	--	--	X	--	--

Notes:
- X Indicates measurement of depth to groundwater, field parameters, and collection of sample(s) for laboratory analysis
- F Indicates only measurement of depth to water and field parameters
- W Continuous water level monitoring
- -- Indicates no monitoring conducted
- * Long-term groundwater monitoring station

TABLE 5

DAISY CREEK/STILLWATER RIVER SURFACE WATER RESULTS COMPARISON TO STANDARDS

2008 MONITORING EVENTS

New World Mining District Response and Restoration Project

Parameter (mg/l)	Aquatic Life (acute)	Aquatic Life (chronic)	Human Health Standard (Iron & Manganese values are guidelines)	DC-2 (Total Recoverable)				DC-2 (Dissolved)		
				Narrative Water Quality Standard(1)	Apr-08	Jul-08	Sep-08	Apr-08	Jul-08	Sep-08
Aluminum(3)	0.75	0.087	NA	**28.4**	8.53	2.30	14.1	- -	- -	13.3
Cadmium	0.00213(4)	0.00027(4)	0.005	**0.009**	0.0035	0.0005	0.0040	- -	- -	0.0039
Copper	0.0140(4)	0.0093(4)	1.3	**8.064**	1.79	0.52	3.54	- -	- -	3.26
Iron	NA	1	0.3	**29.649**	13.3	2.32	10.30	- -	- -	6.35
Lead	0.082(4)	0.0032(4)	0.015	**0.018**	0.003	0.002	0.005	- -	- -	0.004
Manganese	NA	NA	0.05	**4.088**	1.93	0.29	2.12	- -	- -	2.25
Zinc	0.1198(4)	0.1198(4)	2	**1.104**	0.50	0.08	0.56	- -	- -	0.59
Hardness	NA	NA	NA	NA	235	83	217			
pH (s.u.)	NA	NA	NA	**2.7**	4.8	6.8	4.0			
Flow (cfs)	NA	NA	NA	NA	0.022	9.229	0.395			

Parameter (mg/l)	Aquatic Life (acute)	Aquatic Life (chronic)	Human Health Standard (Iron & Manganese values are guidelines)	DC-5 (Total Recoverable)				DC-5 (Dissolved)		
				Temporary Water Quality Standard(2)	Apr-08	Jul-08	Sep-08	Apr-08	Jul-08	Sep-08
Aluminum(3)	0.75	0.087	NA	**9.510**	1.19	0.89	6.53	<0.05	0.08	<0.05
Cadmium	0.00213(4)	0.00027(4)	0.005	**0.004**	0.0007	0.0002	0.0013	0.0005	0.0001	0.0010
Copper	0.0140(4)	0.0093(4)	1.3	**3.530**	0.310	0.180	1.480	0.018	0.016	0.028
Iron	NA	1	0.3	**6.830**	1.30	0.98	5.34	<0.01	0.02	<0.01
Lead	0.082(4)	0.0032(4)	0.015	NA	<0.001	0.002	0.005	<0.001	<0.001	<0.001
Manganese	NA	NA	0.05	**1.710**	0.37	0.110	0.710	0.35	0.098	0.690
Zinc	0.1198(4)	0.1198(4)	2	**0.540**	0.09	0.03	0.21	0.05	<0.01	0.09
Hardness	NA	NA	NA	NA	171	66	203			
pH (s.u.)	NA	NA	NA	**4.6**	7.7	7.8	7.4			
Flow (cfs)	NA	NA	NA	NA	0.25	17.66	0.641			

Parameter (mg/l)	Aquatic Life (acute)	Aquatic Life (chronic)	Human Health Standard (Iron & Manganese values are guidelines)	SW-7 (Total Recoverable)				SW-7 (Dissolved)		
				Temporary Water Quality Standard(2)	Apr-08	Jul-08	Sep-08	Apr-08	Jul-08	Sep-08
Aluminum(3)	0.75	0.087	NA	**0.670**	<0.05	0.2	<0.05	<0.05	0.06	<0.05
Cadmium	0.00213(4)	0.00027(4)	0.005	NA	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Copper	0.0140(4)	0.0093(4)	1.3	**0.200**	0.003	0.036	0.009	0.001	0.009	0.001
Iron	NA	1	0.3	**1.320**	0.16	0.3	0.19	0.05	<0.01	0.01
Lead	0.082(4)	0.0032(4)	0.015	**0.013**	0.002	<0.001	<0.001	<0.001	<0.001	<0.001
Manganese	NA	NA	0.05	**0.086**	0.022	0.026	0.018	0.021	0.018	0.016
Zinc	0.1198(4)	0.1198(4)	2	**0.049**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Hardness	NA	NA	NA	NA	119	66	114			
pH (s.u.)	NA	NA	NA	**5.5**	7.6	7.8	7.8			
Flow (cfs)	NA	NA	NA	NA	0.62	72.1	2.58			

NOTES: Shading/coloring indicates exceedance of respectively shaded/colored regulatory standard

Metal parameter values are reported in total recoverable and dissolved concentrations

mg/l = milligrams per liter; s.u. = standard units; cfs = cubic feet per second

-- - No measurement or analysis conducted; NA = not applicable

< - Indicates analyte not detected above laboratory Practical Quantitation Limit (PQL)

NA - Not applicable

(1) - Narrative Water Quality Standards apply to **any point** in affected stream segments and are included in the rule for temporary water quality standards. As with the temporary standards, narrative standards are calculated as the mean plus 2 standard deviations

(2) - Temporary Water Quality Standards are set in accordance to the rule adopted by the Board of Environmental Review. These standards apply to specific surface water sampling stations and shall not be exceeded more than 3% of the time

(3) - Aluminm standard applies to dissolved concentrations in water with a pH between 6.6 to 9.0 s.u.

(4) - Based on 100 mg/l hardness

pH - Lab pH used in April, June, and September 2008 measurements

TABLE 6

FISHER CREEK/CLARKS FORK RIVER SURFACE WATER RESULTS COMPARISON TO STANDARDS

2008 MONITORING EVENTS

New World Mining District Response and Restoration Project

Parameter (mg/l)	Aquatic Life (acute)	Aquatic Life (chronic)	Human Health Standard (Iron & Manganese values are guidelines)	SW-3 (Total Recoverable)				SW-3 (Dissolved)		
				Narrative Water Quality Standard(1)	Apr-08	Jul-08	Sep-08	Apr-08	Jul-08	Sep-08
Aluminum(3)	0.75	0.087	NA	**4.54**	2.13	0.74	2.95	- -	- -	2.84
Cadmium	0.001054(4)	0.000162(4)	0.005	**0.002**	0.0011	0.0001	0.0007	- -	- -	0.0007
Copper	0.0073(4)	0.00516(4)	1.3	**1.256**	0.97	0.21	0.67	- -	- -	0.64
Iron	NA	1	0.3	**9.259**	1.01	0.72	1.69	- -	- -	1.68
Lead	0.0338(4)	0.0013(4)	0.015	**0.01**	0.001	0.001	0.002	- -	- -	0.002
Manganese	NA	NA	0.05	**1.718**	0.54	0.1	0.58	- -	- -	0.58
Zinc	0.067(4)	0.067(4)	2	**0.225**	0.14	0.02	0.11	- -	- -	0.11
Hardness	NA	NA	NA	NA	56	24	59			
pH (s.u.)	NA	NA	NA	**2.1**	3.9	5.3	4.0			
Flow (cfs)	NA	NA	NA	NA	0.085	8.17	0.37			

Parameter (mg/l)	Aquatic Life (acute)	Aquatic Life (chronic)	Human Health Standard (Iron & Manganese values are guidelines)	SW-4 (Total Recoverable)				SW-4 (Dissolved)		
				Narrative Water Quality Standard(1)	Apr-08	Jul-08	Sep-08	Apr-08	Jul-08	Sep-08
Aluminum(3)	0.75	0.087	NA	**0.740**	<0.05	0.13	0.11	<0.05	<0.05	<0.05
Cadmium	0.001054(4)	0.000162(4)	0.005	**0.001**	0.0002	<0.0001	0.0002	0.0002	<0.0001	0.0002
Copper	0.0073(4)	0.00516(4)	1.3	**0.172**	0.044	0.049	0.065	0.036	0.026	0.048
Iron	NA	1	0.3	**1.726**	0.02	0.18	0.02	<0.01	0.03	<0.01
Lead	0.0338(4)	0.0013(4)	0.015	**0.005**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Manganese	NA	NA	0.05	**0.790**	0.011	0.022	0.046	0.010	0.021	0.045
Zinc	0.067(4)	0.067(4)	2	**0.660**	0.04	<0.01	0.03	0.04	<0.01	0.02
Hardness	NA	NA	NA	NA	45	33	59			
pH (s.u.)	NA	NA	NA	**5.241**	7.0	7.3	7.1			
Flow (cfs)	NA	NA	NA	NA	0.448	46.5	1.46			

Parameter (mg/l)	Aquatic Life (acute)	Aquatic Life (chronic)	Human Health Standard (Iron & Manganese values are guidelines)	CFY-2 (Total Recoverable)				CFY-2 (Dissolved)		
				Temporary Water Quality Standard(2)	Apr-08	Jul-08	Sep-08	Apr-08	Jul-08	Sep-08
Aluminum	0.75	0.087	NA	**0.470**	<0.05	0.06	<0.05	<0.05	0.09	<0.05
Cadmium	0.001054(4)	0.000162(4)	0.005	NA	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Copper	0.0073(4)	0.00516(4)	1.3	**0.110**	0.007	0.033	0.012	0.004	0.019	0.009
Iron	NA	1	0.3	**0.750**	<0.01	0.14	<0.01	<0.01	0.03	<0.01
Lead	0.0338(4)	0.0013(4)	0.015	**0.002**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Manganese	NA	NA	0.05	**0.082**	<0.003	0.016	0.006	<0.003	0.014	0.004
Zinc	0.067(4)	0.067(4)	2	**0.044**	0.01	<0.01	0.01	0.01	<0.01	<0.01
Hardness	NA	NA	NA	NA	42	36	52			
pH (s.u.)	NA	NA	NA	**5.7**	7.2	7.3	7.2			
Flow (cfs)	NA	NA	NA	NA	0.74	60.5	1.67			

Parameter (mg/l)	Aquatic Life (acute)	Aquatic Life (chronic)	Human Health Standard (Iron & Manganese values are guidelines)	SW-6 (Total Recoverable)				SW-6 (Dissolved)		
				Narrative Water Quality Standard(1)	Apr-08	Jul-08	Sep-08	Apr-08	Jul-08	Sep-08
Aluminum(3)	0.75	0.087	NA	**0.763**	<0.05	<0.05	<0.05	<0.05	0.05	<0.05
Cadmium	0.001054(4)	0.000162(4)	0.005	**0.03472**	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Copper	0.0073(4)	0.00516(4)	1.3	**0.076**	0.005	0.016	0.004	0.002	0.011	0.004
Iron	NA	1	0.3	**1.132**	0.07	0.09	<0.01	<0.01	0.02	<0.01
Lead	0.0338(4)	0.0013(4)	0.015	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Manganese	NA	NA	0.05	**0.03415**	<0.003	0.008	<0.003	<0.003	0.006	<0.003
Zinc	0.067(4)	0.067(4)	2	**0.11032**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Hardness	NA	NA	NA	NA	33	28	47			
pH (s.u.)	NA	NA	NA	**5.7**	7.4	7.3	7.5			
Flow (cfs)	NA	NA	NA	NA	1.93	99.53	3.09			

NOTES: Shading/coloring indicates exceedance of respectively shaded/colored regulatory standard
Metal parameter values are reported in total recoverable and dissolved concentrations
mg/l = milligrams per liter; s.u. = standard units; cfs = cubic feet per second
-- - No measurement or analysis conducted; NA = not applicable
< - Indicates analyte not detected above laboratory Practical Quantitation Limit (PQL)
NA - Not applicable
(1) - Narrative Water Quality Standards apply to **any point** in affected stream segments and are included in the rule for temporary water quality standards. As with the temporary standards, narrative standards are calculated as the mean plus 2 standard deviations
(2) - Temporary Water Quality Standards are set in accordance to the rule adopted by the Board of Environmental Review. These standards apply to specific surface water sampling stations and shall not be exceeded more than 3% of the time
(3) - Aluminm standard applies to dissolved concentrations in water with a pH between 6.6 to 9.0 s.u.
(4) - Based on 50 mg/l hardness
pH - Lab pH used in April, June, and September 2008 measurements

TABLE 7
MILLER CREEK SURFACE WATER RESULTS COMPARISON TO STANDARDS
2008 MONITORING EVENTS
New World Mining District Response and Restoration Project

Parameter (mg/l)	Aquatic Life (acute)	Aquatic Life (chronic)	Human Health Standard (Iron & Manganese values are guidelines)	SW-2 (Total Recoverable)			SW-2 (Dissolved)		
				Apr-08	Jul-08	Sep-08	Apr-08	Jul-08	Sep-08
Aluminum(1)	0.75	0.087	NA	<0.05	<0.05	<0.05	<0.05	0.05	<0.05
Cadmium	0.001054(2)	0.000162(2)	0.005	<0.0001	<0.0001	0.0003	<0.0001	<0.0001	<0.0001
Copper	0.0073(2)	0.00516(2)	1.3	0.010	0.015	0.006	0.005	0.011	0.005
Iron	NA	1	0.3	0.07	0.06	0.03	0.02	0.01	0.02
Lead	0.0338(2)	0.0013(2)	0.015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Manganese	NA	NA	0.05	0.004	<0.003	0.003	0.004	<0.003	<0.003
Zinc	0.067(2)	0.067(2)	2	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Hardness	NA	NA	NA	103	60	99			
pH (s.u.)	NA	NA	NA	7.6	7.9	8.1			
Flow (cfs)	NA	NA	NA	0.201	23.90	0.762			

Parameter (mg/l)	Aquatic Life (acute)	Aquatic Life (chronic)	Human Health Standard (Iron & Manganese values are guidelines)	SW-5 (Total Recoverable)			SW-5 (Dissolved)		
				Apr-08	Jul-08	Sep-08	Apr-08	Jul-08	Sep-08
Aluminum(1)	0.75	0.087	NA	<0.05	<0.05	<0.05	<0.05	0.05	<0.05
Cadmium	0.001054(2)	0.000162(2)	0.005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Copper	0.0073(2)	0.00516(2)	1.3	0.003	0.011	0.002	0.002	0.008	0.002
Iron	NA	1	0.3	<0.01	0.09	<0.01	<0.01	0.03	<0.01
Lead	0.0338(2)	0.0013(2)	0.015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Manganese	NA	NA	0.05	0.01	<0.003	<0.003	0.009	<0.003	<0.003
Zinc	0.067(2)	0.067(2)	2	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Hardness	NA	NA	NA	110	62	110			
pH (s.u.)	NA	NA	NA	8.0	8.1	8.2			
Flow (cfs)	NA	NA	NA	0.0022	- -	0.425			

NOTES: Shading/coloring indicates exceedance of respectively shaded/colored regulatory standard
Metal parameter values are reported in total recoverable and dissolved concentrations
mg/l = milligrams per liter; s.u. = standard units; cfs = cubic feet per second
-- - No measurement or analysis conducted; NA = not applicable
< - Indicates analyte not detected above laboratory Practical Quantitation Limit (PQL)
NA - Not applicable
NS - No sample collected
(1) - Aluminm standard applies to dissolved concentrations in water with a pH between 6.6 to 9.0 s.u.
(2) - Based on 50 mg/l hardness
pH - Lab pH used in April, June, and September 2008 measurements

TABLE 8
SODA BUTTE CREEK SURFACE WATER RESULTS COMPARISON TO STANDARDS
2008 AND 2007 MONITORING EVENTS
New World Mining District Response and Restoration Project

Parameter (mg/l)	Aquatic Life (acute)	Aquatic Life (chronic)	Human Health Standard (Iron & Manganese values are guidelines)	SBC-1			SBC-1		
				Apr-08	**Jul-08**	**Sep-08**	Apr-07	Jun-07	Sep-07
Aluminum(1)	0.75	0.087	NA	0.08	<0.05	<0.05	<0.05	<0.05	0.09
Cadmium	0.00213(2)	0.00027(2)	0.005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Copper	0.0140(2)	0.0093(2)	1.3	0.003	<0.001	<0.001	<0.001	0.001	0.001
Iron	NA	1	0.3	0.14	0.03	<0.01	<0.01	0.09	0.16
Lead	0.082(2)	0.0032(2)	0.015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Manganese	NA	NA	0.05	0.007	<0.003	<0.003	<0.003	<0.003	0.003
Zinc	0.1198(2)	0.1198(2)	2	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Hardness	NA	NA	NA	136	126	145	148	107	136
pH (s.u.)	NA	NA	NA	8.4	8.3	8.4	8.5	8.3	8.5
Flow (cfs)	NA	NA	NA	0.515	11.19	1.46	1.08	10.60	0.85

Parameter (mg/l)	Aquatic Life (acute)	Aquatic Life (chronic)	Human Health Standard (Iron & Manganese values are guidelines)	SBC-2			SBC-2		
				Apr-08	**Jul-08**	**Sep-08**	Apr-07	Jun-07	Sep-07
Aluminum(1)	0.75	0.087	NA	<0.05	<0.05	<0.05	<0.05	0.09	<0.05
Cadmium	0.00213(2)	0.00027(2)	0.005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Copper	0.0140(2)	0.0093(2)	1.3	0.001	0.009	<0.001	0.001	0.010	<0.001
Iron	NA	1	0.3	1.26	0.21	1.51	1.57	0.23	1.17
Lead	0.082(2)	0.0032(2)	0.015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Manganese	NA	NA	0.05	0.036	0.01	0.052	0.037	<0.003	0.028
Zinc	0.1198(2)	0.1198(2)	2	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Hardness	NA	NA	NA	167	93	172	162	86	153
pH (s.u.)	NA	NA	NA	7.9	8.0	8.0	8.0	8.0	8.2
Flow (cfs)	NA	NA	NA	0.417	35.73	1.58	1.40	34.70	1.13

Parameter (mg/l)	Aquatic Life (acute)	Aquatic Life (chronic)	Human Health Standard (Iron & Manganese values are guidelines)	SBSW-102			SBSW-102		
				Apr-08	**Jul-08**	**Sep-08**	Apr-07	Jun-07	Sep-07
Aluminum(1)	0.75	0.087	NA	0.80	0.15	0.12	0.14	0.29	0.51
Cadmium	0.001054(3)	0.000162(3)	0.005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Copper	0.0073(3)	0.00516(3)	1.3	0.002	0.005	<0.001	0.002	0.006	0.002
Iron	NA	1	0.3	1.03	0.38	0.37	0.33	0.45	1.24
Lead	0.0338(3)	0.0013(3)	0.015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Manganese	NA	NA	0.05	0.02	0.006	0.008	0.004	<0.003	0.010
Zinc	0.067(3)	0.067(3)	2	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Hardness	NA	NA	NA	70	55	73	65	57	75
pH (s.u.)	NA	NA	NA	8.2	7.9	8.2	8.2	8.0	8.4
Flow (cfs)	NA	NA	NA	2.35	- -	4.89	2.73	- -	3.85

Parameter (mg/l)	Aquatic Life (acute)	Aquatic Life (chronic)	Human Health Standard (Iron & Manganese values are guidelines)	SBC-4			SBC-4		
				Apr-08	**Jul-08**	**Sep-08**	Apr-07	Jun-07	Sep-07
Aluminum(1)	0.75	0.087	NA	0.29	0.36	0.05	0.05	0.56	0.32
Cadmium	0.001054(3)	0.000162(3)	0.005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Copper	0.0073(3)	0.00516(3)	1.3	0.002	0.005	<0.001	<0.001	0.003	<0.001
Iron	NA	1	0.3	0.62	0.57	0.12	0.13	0.67	0.66
Lead	0.0338(3)	0.0013(3)	0.015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Manganese	NA	NA	0.05	0.008	0.01	<0.003	0.003	0.004	0.006
Zinc	0.067(3)	0.067(3)	2	<0.01	<0.01	<0.01	<0.01	0.01	<0.01
Hardness	NA	NA	NA	76	45	109	113	42	96
pH (s.u.)	NA	NA	NA	8.2	7.7	8.1	8.1	8.0	8.6
Flow (cfs)	NA	NA	NA	5.48	- -	1.46	6.30	- -	9.62

NOTES: Shading/coloring indicates exceedance of respectively shaded/colored regulatory standard
Metal parameter values are in total recoverable concentrations
mg/l = milligrams per liter; s.u. = standard units; cfs = cubic feet per second
-- - No measurement or analysis conducted; NA = not applicable
< - Indicates analyte not detected above laboratory Practical Quantitation Limit (PQL)
(1) - Aluminm standard applies to dissolved concentrations in water with a pH between 6.6 to 9.0 s.u.
(2) - Based on 100 mg/l hardness - Stations SBC-1 and SBC-2
(3) - Based on 50 mg/l hardness - Stations SBSW-102 and SBC-4
pH - Lab pH used in April, June, and September 2008 measurements

TABLE 9

TRIBUTARY TO SODA BUTTE CREEK SURFACE WATER RESULTS COMPARISON TO STANDARDS

2008 MONITORING EVENTS

New World Mining District Response and Restoration Project

Parameter (mg/l)	Aquatic Life (acute)	Aquatic Life (chronic)	Human Health Standard (Iron & Manganese values are guidelines)	SBT-3 (Total Recoverable)			SBT-3 (Dissolved)		
				Apr-08	May-08	Sep-08	Apr-08	May-08	Sep-08
Aluminum(1)	0.75	0.087	NA	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Cadmium	0.00213(2)	0.00027(2)	0.005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Copper	0.0140(2)	0.0093(2)	1.3	0.002	0.002	<0.001	<0.001	<0.001	0.001
Iron	NA	1	0.3	0.06	0.1B	0.02	<0.01	<0.01	<0.01
Lead	0.082(2)	0.0032(2)	0.015	<0.001	0.001	<0.001	<0.001	<0.001	<0.001
Manganese	NA	NA	0.05	0.006	<0.003	0.004	0.007	<0.003	<0.003
Zinc	0.1198(2)	0.1198(2)	2	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Hardness	NA	NA	NA	131	76	145			
pH (s.u.)	NA	NA	NA	7.9	7.7	8.1			
Flow (cfs)	NA	NA	NA	0.08	1.86	0.0031			

Parameter (mg/l)	Aquatic Life (acute)	Aquatic Life (chronic)	Human Health Standard (Iron & Manganese values are guidelines)	SBT-6 (Total Recoverable)			SBT-6 (Dissolved)		
				Apr-08	May-08	Sep-08	Apr-08	May-08	Sep-08
Aluminum(1)	0.75	0.087	NA	<0.05	1.63	<0.05	<0.05	<0.05	<0.05
Cadmium	0.00213(2)	0.00027(2)	0.005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Copper	0.0140(2)	0.0093(2)	1.3	0.002	0.011	<0.001	<0.001	0.001	0.001
Iron	NA	1	0.3	0.02	2.51	0.01	<0.01	<0.01	<0.01
Lead	0.082(2)	0.0032(2)	0.015	<0.001	0.006	<0.001	<0.001	<0.001	<0.001
Manganese	NA	NA	0.05	<0.003	0.073	0.004	<0.003	0.008	<0.003
Zinc	0.1198(2)	0.1198(2)	2	<0.01	0.02	<0.01	<0.01	<0.01	<0.01
Hardness	NA	NA	NA	125	79	149			
pH (s.u.)	NA	NA	NA	8.0	7.9	8.1			
Flow (cfs)	NA	NA	NA	0.237	7.09	0.011			

NOTES: Shading/coloring indicates exceedance of respectively shaded/colored regulatory standard
All metals are reported as Total Recoverable Metals
mg/l = milligrams per liter; s.u. = standard units; cfs = cubic feet per second
-- - No measurement or analysis conducted; NA = not applicable
< - Indicates analyte not detected above laboratory Practical Quantitation Limit (PQL)
B - Method blank showed signs of contamination
J - Indicates value is estimated
(1) - Aluminm standard applies to dissolved concentrations in water with a pH between 6.6 to 9.0 s.u.
(2) - Based on 100 mg/l hardness
pH - Lab pH used in April, May, and September 2008 measurements

TABLE 10

2008 MINE ADIT DISCHARGE MONITORING AND FIELD PARAMETER DATA

New World Mining District Response and Restoration Project

Site Number	Site Name	Sample Date	Flow (gpm)	pH Fld (su)	pH Lab (su)	SC (uS/cm)	Temp (^{0}C)	Hard-ness	Total Recoverable Concentration - milligrams per liter													
									Aluminum(1)		Cadmium		Copper		Iron		Lead		Manganese		Zinc	
Human Health Standard or Guideline (Iron and Manganese)									NA		**0.005**		**1.3**		**0.300**		**0.015**		**0.050**		**2.0**	
Acute Aquatic Standard (where applicable, calculated for hardness = 50/250*)									0.750		0.00105/0.0054		0.0073/0.0332		NA		0.0338/0.262		--		0.067/0.260	
Chronic Aquatic Standard (where applicable, calculated for hardness = 50/250*)									0.087		0.00016/0.00053		0.0052/0.0204		1.0		0.0013/0.0102		--		0.067/0.260	
									TRC	Dissolved	TRC	Dissolved	TRC	Dissolved	TRC	Dissolved	TRC	Dissolved	TRC	Dissolved	TRC	Dissolved
F-8A	Glengarry Adit	9/22/2008	0.5(2)	5.9	--	426	3.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
F-8B	Glengarry Millsite Adit	8/15/2008	3.10	--	6.2	--	--	84	0.34	0.06	**0.0002**	<0.0001	**0.045**	**0.009**	**18.9**	**15.8**	**0.002**	<0.001	**1.07**	**1.13**	**0.13**	**0.12**
F-28	Gold Dust Adit	9/22/2008	4.41	6.8	7.9	839	2.6	423	0.05	<0.05	<0.0001	<0.0001	0.002	<0.001	**0.37**	0.06	<0.001	<0.001	**0.092**	**0.086**	0.02	<0.01
FCSI-96-5	Lower Tredennic Dump 1	9/22/2008	1.64	5.9	7.1	224	2.7	98	<0.05	<0.05	0.0001	0.0001	0.002	<0.001	0.17	<0.01	0.001	<0.001	**0.11**	**0.072**	0.04	0.03
AE-17	Henderson Mtn Dump 7	9/22/2008	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
D-18	McLaren Adit	9/23/2008	5.95	5.9	6.4	916	3.8	430	0.32	<0.05	<0.0001	<0.0001	0.027	0.005	**30.3**	**24.8**	<0.001	<0.001	**1.18**	**1.18**	0.09	0.08
M-8	Black Warrior Adit	9/23/2008	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
M-1	Little Daisy Adit	9/23/2008	8.93	6.7	7.1	1107	4.9	629	<0.05	<0.05	0.0003	0.0003	<0.001	<0.001	**13.6**	**13.2**	0.001	<0.001	**2.24**	**2.2**	0.15	0.14
M-25	Henderson Mtn Adit	9/23/2008	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Notes: Shading/coloring indicates exceedance of respective standard

SC = specific conductance in microsiemens per centimeter (us/cm)

gpm = gallons per minute

su = standard units

NDP = Non-District Property

TRC = Total Recoverable Concentration

< = less than the practical quantitation limit

* = Hardness and Metal concentrations in milligrams per liter are calculated on the basis of hardness values

Fld = Fld: Measurement conducted in field

Lab = Lab: Measurement conducted in laboratory

(1) = Aluminum standard applies to dissolved concentrations in water with a pH between 6.6 and 9.0 s.u.

(2) = Visual estimation of flow

TABLE 11
2008 FIELD PARAMETER DATA - COMO BASIN MONITORING WELLS
New World Mining District Response and Restoration Project

Well	Date	Depth to Water (Feet)	pH (Standard Units)	SC[1] (micromhos/cm)	Temperature (Degrees Celsius)	Dissolved Oxygen[2] (mg/L)	ORP[3] (millivolts)
FCGW-100	8/6/2008	Artesian	5.42	1,618	3.05	0.45	-13.1
	9/17/2008	Artesian	5.64	1,529	3.02	0.16	-9.6
EPA-11	8/5/2008	26.44	6.02	1,449	3.26	0.03	66.9
	9/16/2008	34.14	4.5	1,072	2.98	0.02	120.4
EPA-12	8/5/2008	1.68	6.18	455	5.96	0.22	40.1
	9/16/2008[4]	1.84	6.43	445	2.81	0.23	37
MW-1	8/5/2008	8.58	4.45	864	3.12	0.34	222.1
Tracer 5	8/5/2008	Artesian	3.59	653	2.25	0.15	167.2

Notes: See Appendix B-2 for logs with detailed description of monitoring methods
1) SC (specific conductivity) in micromhos/centimeter
2) Dissolved oxygen in milligrams per liter
3) ORP – oxidation/reduction potential in millivolts
4) Less than one casing volume removed from well prior to monitoring

TABLE 12
COMPARISON OF COMO BASIN WELL MONITORING DATA
New World Mining District Response and Restoration Project

Parameter	Well EPA-11 8/5/08	Well FCGW-100 8/6/08	Well MW-1 8/5/08	Well Tracer 5 8/5/08	Well EPA-12 8/5/08
Completion Formation	Tertiary Intrusive	Glengarry Adit Tertiary Intrusive	Wolsey Shale	Tertiary Intrusive	Scotch Bonnet Diorite
Total Well Depth (feet)	150	385	115	205	155
Depth to Water (feet)	26.44	Artesian	8.58	5.58	1.68
pH (s.u.)	6.0	5.5	4.6	3.8	6.5
SC (µmhos/cm)	1,449	1,560	957	714	410
TDS	1,490	1,650	782	329	427
Hardness (CaCO3)	575	513	341	30	162
Calcium	146	161	87	7	42
Magnesium	51	27	30	3	14
Sodium	3	4	3	5	4
Potassium	4	8	3	3	2
CaCO3 Alkalinity	6	14	<1	<1	11
HCO3 Alkalinity	8	17	<1	<1	13
Sulfate	930	1,050	487	402	217
Chloride	1	1	3	<1	<1
Aluminum	0.79	0.37	0.26	36.4	<0.1
Cadmium	0.0015	<0.0001	0.0001	0.0025	<0.0001
Copper	<0.001	0.003	0.007	0.97	<0.001
Iron	204	291	67.5	69.6	42.4
Lead	0.017	<0.001	0.002	0.005	<0.001
Manganese	7.94	9.42	4.27	1.08	2.18
Zinc	0.57	0.03	0.12	0.37	0.06

Notes: See Appendix B-2 for logs with detailed description of monitoring methods
Concentrations in milligrams per liter unless otherwise indicated
s.u. : standard units
SC : Specific Conductivity in micromhos/centimeter
TDS : Total Dissolved Solids

TABLE 13
GROUNDWATER QUALITY DATA - NEW WORLD WASTE REPOSITORY AREA
New World Mining District Response and Restoration Project

Parameter [1]	Standard [2]	SBGW 105	SBGW 105T	SBGW 107	SBGW 107T	SBGW 108	SBGW 108T	SBGW 105	SBGW 105T	SBGW 107	SBGW 107T	SBGW 108	SBGW 108T	SBGW 105	SBGW 105T	SBGW 107	SBGW 107T	SBGW 108	SBGW 108T
		6/26/2007						5/29/2008						8/14/2008					
Depth to Water (feet)	--	24.00	7.60	11.90	9.75	9.10	8.20	4.50	3.54	6.20	3.91	2.38	2.10	15.12	8.97	13.58	10.99	13.12	13.12
Field pH (s.u.) [3]	--	8.02	7.69	8.53	7.02	6.44	7.68	7.14	6.60	8.96	6.48	5.24	6.43	7.43	7.36	8.86	--	7.24	7.40
Lab pH (s.u.)	--	7.6	7.7	8.5	7.1	7.2	7.6	8.6	7.8	9.0	7.0	7.2	7.6	8.6	7.7	8.9	--	7.3	7.6
Lab SC (umhos/cm) [4]	--	252	349	529	521	230	481	272	187	532	337	115	314	190	347	496	--	267	233
TDS	--	211	206	354	312	132	303	199	209	387	145	145	206	210	194	354	--	141	261
Hardness (CaCO3) [5]	--	46	188	103	268	130	239	46	170	75	157	110	185	55	201	98	--	151	243
Calcium	--	15	54	28	91	42	81	15	50	20	53	36	64	17	59	26	--	49	79
Magnesium	--	2	13	8	10	6	9	2	11	6	6	5	6	3	13	8	--	7	11
Sodium	--	39	3	88	3	2	2	41	3	97	3	2	2	37	2	83	--	2	3
Potassium	--	2	1	1	<1	<1	<1	2	1	1	<1	<1	<1	2	1	1	--	<1	1
CaCO3 Alkalinity	--	116	157	187	195	109	172	101	167	188	132	96	141	126	255	191	--	131	317
CO3 Alkalinity	--	3	0	6	0	0	0	3	0	17	0	0	0	9	0	30	--	0	0
HCO3 Alkalinity	--	136	191	216	238	133	210	118	204	195	161	118	172	136	312	172	--	160	387
Acidity as CaCO3	--	<5	<5	<5	<5	<5	<5	<2	<2 J	<2	<2	<2	<2	<2	<2	<2	--	<2	<2
Sulfate	--	15	20	80	47	9	23	16	19	83	32	9	14	19	25	83	--	9	28
Chloride	--	2	6	3	7	5	8	1	1	2	2	2	2	1	<1	2	--	2	5
Aluminum	--	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	--	<0.05	<0.05
Cadmium	0.005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0001	<0.0001	<0.0001	0.0005	<0.0001	<0.0001	<0.0001	--	<0.0001	<0.0001
Copper	1.3	<0.001	<0.001	0.003	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	0.002	--	0.001	0.001
Iron	0.3	<0.01	0.10	<0.01	<0.01	<0.01	<0.01	<0.01	0.19	<0.01	<0.01	<0.01	<0.01	<0.01	0.08	<0.01	--	<0.01	<0.01
Lead	0.015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001
Manganese	0.05	<0.005	0.12	0.014	<0.005	<0.005	<0.005	0.005	0.10	0.021	<0.003	<0.003	<0.003	<0.003	0.078	0.01	--	0.004	<0.003
Zinc	2	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	0.03	0.01	--	0.07	0.03

Notes:
1 All chemical constituents are dissolved (filtered through a 0.45 micron filter); units are in milligrams per liter unless otherwise noted
2 Human health standard (or guideline for iron and manganese) (MDEQ, 2008); -- indicates no standard applies
3 s.u. : standard units
4 SC : specific conductance in µmhos/cm (micromhos per centimeter)
5 CaCO3 : calcium carbonate
J The associated value is estimated

Note : On 8/14/08, well SBGW-107T had too little water to be sampled

Shading indicates exceedance of human health standard or guideline

TABLE 14
2008 SURFACE WATER QA/QC SAMPLES
New World Mining District Response and Restoration Project

Monitoring Event	QA/QC Sample	Sample Designation
April 17, 2008	Field Duplicate	SW-4X
July 14, 2008	Field Duplicate	SW-3X
September 24, 2008	Field Duplicate	DCSW-101X

TABLE 15
2008 GROUNDWATER QA/QC SAMPLES
New World Mining District Response and Restoration Project

Monitoring Event	QA/QC Sample	Sample Designation
May 29, 2008	Field Duplicate	SBGW-105TX
August 5, 2008	Field Duplicate	EPA-12X
August 12, 2008	Field Duplicate	DCGW-132X

APPENDIX C

2008 SURFACE WATER DATA
2008 SURFACE WATER AND GROUNDWATER MONITORING REPORT

New World Mining District Response and Restoration Project

APPENDIX C-1

2008 SURFACE WATER SUMMARY

Table C-1 2008 Surface Water Summary

Table C-2 1989 – 2008 Surface Water Database

TABLE C-1
2008 SURFACE WATER SUMMARY
NEW WORLD MINING DISTRICT RESPONSE AND RESTORATION PROJECT

Station Name	Sample Date	Flow Rate (cfs)	Anions (mg/L)					Cations (mg/L)								Metals (mg/L)													
			Acidity as CaCO3	Alkalinity as HCO3	Alkalinity as Total CaCO3	Chloride	Sulfate	Calcium	Hardness as CaCO3	Magnesium	Potassium	Sodium	Field SC (umhos/cm)	Field pH (s.u.)	Total Suspended Solids (mg/L)	Aluminum Total Recoverable	Aluminum Dissolved	Cadmium Total Recoverable	Cadmium Dissolved	Copper Total Recoverable	Copper Dissolved	Iron Total Recoverable	Iron Dissolved	Lead Total Recoverable	Lead Dissolved	Manganese Total Recoverable	Manganese Dissolved	Zinc Total Recoverable	Zinc Dissolved
Drainage: Adits																													
RR-D-18	9/23/2008	0.0133	6	17	14	<1	421	141	430	24	3	4	916	5.9	34	0.32	<0.05	<0.0001	<0.0001	0.027	0.005	30.3	24.8	<JF%0.001	<0.001	1.18	1.18	0.09	0.08
RR-F-28	9/22/2008	0.00982	<2	151	124	<1	313	121	423	34	2	11	839	6.87	6	0.05	<0.05	<0.0001	<0.0001	0.002	<0.001	0.37	0.06	<JF%0.001	<0.001	0.092	0.086	0.02	<0.01
GLENGARRYMILLSITE	8/15/2008	0.00691	22	2	2	1	118	25	84	4	2	7	--	--	31	0.34	0.06	0.0002	<0.0001	0.045	0.009	19	15.8	0.002	<0.001	1.07	1.13	0.13	0.12
RR-FCSI-96-5	9/22/2008	0.0034	<2	54	45	<1	48	25	98	9	1	2	224	5.91	<1	<0.05	<0.05	0.0001	0.0001	0.002	<0.001	0.17	<0.01	JF%0.001	<0.001	0.11	0.072	0.04	0.03
RR-M-1	9/23/2008	0.0199	<2	197	161	<1	452	167	629	58	2	5	1107	6.79	26	<0.05	<0.05	0.0003	0.0003	<0.001	<0.001	13.6	13.2	JF%0.001	<0.001	2.24	2.2	0.15	0.14
Drainage: Daisy Creek / Stillwater River																													
RR-DCSW-101	7/15/2008	0.058	406	<1	<1	1	555	35	122	10	2	2	1225	2.64	JF<1	25.5	20	0.0074	0.0068	10.5	10.4	93.7	94.5	0.016	0.013	2.28	2.19	1.32	1.27
RR-DCSW-101	9/24/2008	0.0144	470	<1	<1	<1	612	39	144	13	2	3	1299	2.74	JF%25	27	26.8	0.0084	0.0085	11.3	10.8	142	137	JF%0.008	0.006	2.86	2.84	1.44	1.46
RR-DCSW-101X	9/24/2008	--	483	<1	<1	<1	676	41	144	13	2	3	--	--	34	28.4	26.8	0.0085	0.0085	11.8	10.7	152	135	0.006	0.006	2.99	2.88	1.48	1.42
RR-DCSW-102	7/15/2008	0.034	609	<1	<1	2	852	60	218	21	1	2	1814	2.36	JF<1	34.4	30.5	0.02	0.018	15.2	15.8	115	118	0.003	0.003	5.22	4.96	3.32	3.06
RR-DCSW-102	9/24/2008	0.00008	451	<1	<1	<1	651	42	172	18	1	3	1444	2.5	JF%<1	22.2	20.9	0.01	0.01	13	11.6	101	90.6	JF%0.001	0.002	3.51	3.53	1.74	1.76
RR-DCSW-103	7/15/2008	0.0029	1500	<1	<1	3	2080	108	553	72	<1	4	3160	2.19	JF<1	89.9	79.7	0.023	0.021	29.3	30.6	347	344	0.002	0.002	9.95	10.1	3.92	3.29
RR-DCSW-103	9/24/2008	0.0021	1130	<1	<1	2	1740	112	523	70	<1	5	2750	2.31	JF%<2	66.1	64	0.02	0.022	24.9	23.1	270	244	JF%0.003	0.002	10.7	10.7	3.73	3.62
RR-DCT-7	8/6/2008	0.0485	<2	24	20	<1	76	31	94	4	1	1	206	6.17	<1	<0.05	<0.05	0.0005	0.0005	0.029	0.03	0.02	<0.01	<0.001	<0.001	0.036	0.039	0.1	0.1
RR-DCT-7	9/24/2008	0.0022	8	27	22	<1	128	55	142	7	2	2	346	6.11	JF%1	0.08	<0.05	0.0012	0.0012	0.11	0.094	0.03	0.01	JF%<0.001	0.001	0.16	0.15	0.24	0.23
RR-DCT-8	7/15/2008	0.974	84	<1	<1	<1	174	28	84	4	3	1	479	3	JF15	8.37	7.4	0.0017	0.0016	1.98	1.94	10.1	8.51	0.002	0.002	0.62	0.6	0.27	0.26
RR-DCT-8	9/24/2008	0.13	301	<1	<1	<1	618	78	269	20	3	4	1276	2.78	JF%2	29	28.3	0.0078	0.0077	7.8	7.19	33.1	34	JF%0.006	0.006	3.51	3.58	1.17	1.16
RR-DCT-9	8/6/2008	0.0079	56	<1	<1	1	155	30	89	4	3	3	354	3.32	<2	6.89	6.12	0.0008	0.0006	0.63	0.58	0.17	0.14	0.003	0.003	0.37	0.34	0.09	0.09
RR-DCT-9	9/24/2008	0.0223	81	<1	<1	<1	221	44	135	6	3	3	545	3.29	JF%<1	9.87	9.46	0.001	0.001	0.74	0.69	0.65	0.66	JF%0.004	0.004	0.52	0.52	0.12	0.12
RR-USGS-1700	7/15/2008	0.34	5	2	2	<1	89	31	89	4	1	1	212	6.07	JF9	0.87	0.1	0.0003	0.0003	0.2	0.14	1.42	0.12	0.002	<0.001	0.26	0.24	0.03	0.03
RR-USGS-1700	9/24/2008	0.0172	27	<1	<1	<1	263	78	244	12	2	3	528	4.66	JF%15	4.64	3.71	0.0013	0.0013	0.76	0.67	1.28	0.18	JF%<0.015	0.009	0.85	0.86	0.15	0.14
RR-DC-2	4/17/2008	0.022	HT 60	<1	<1	<1	300	71	235	14	2	2	534	5.48	19	8.53	--	0.0035	--	1.79	--	13.3	--	0.003	--	1.93	--	0.5	--
RR-DC-2	7/15/2008	9.229	<2	9	7	<1	75	25	83	5	1	<1	191.6	6.35	JF19	2.3	--	0.0005	--	0.52	--	2.32	--	0.002	--	0.29	--	0.08	--
RR-DC-2	9/24/2008	0.395	114	<1	<1	<1	312	62	217	16	2	2	611	3.84	JF%15	14.1	13.3	0.004	0.0039	3.54	3.26	10.3	6.35	JF%0.005	0.004	2.12	2.25	0.56	0.59
RR-USGS-11890	9/24/2008	1.73	<2	73	60	<1	59	34	137	8	<1	2	323	6.89	JF%7	0.9	<0.05	0.0002	0.0003	0.19	0.015	0.71	<0.01	JF%<0.001	<0.001	0.11	0.19	0.03	<0.01
RR-DC-5	4/17/2008	0.25	<2	80	66	<1	116	55	171	11	<1	1	353	7.33	7	1.19	<0.05	0.0007	0.0005	0.31	0.018	1.3	<0.01	<0.001	<0.001	0.37	0.35	0.09	0.05
RR-DC-5	7/15/2008	17.66	<2	44	36	<1	35	21	66	4	<1	<1	150.9	7.04	JF15	0.89	0.08	0.0002	0.0001	0.18	0.016	0.98	0.02	0.002	<0.001	0.11	0.098	0.03	<0.01
RR-DC-5	9/24/2008	0.641	<2	32	26	<1	171	60	203	14	1	2	421	7.64	JF%48	6.53	<0.05	0.0013	0.001	1.48	0.028	5.34	<0.01	JF%0.005	<0.001	0.71	0.69	0.21	0.09
RR-SW-7	4/17/2008	0.62	<2	112	92	<1	24	36	119	7	<1	2	229	3.64	<1	<0.05	<0.05	<0.0001	<0.0001	0.003	0.001	0.16	0.05	0.002	<0.001	0.022	0.021	<0.01	<0.01
RR-SW-7	7/15/2008	72.1	<2	72	59	<1	11	20	66	4	<1	1	146.3	7.04	JF6	0.2	0.06	<0.0001	<0.0001	0.036	0.009	0.3	<0.01	<0.001	<0.001	0.026	0.018	<0.01	<0.01
RR-SW-7	9/24/2008	2.58	<2	109	89	<1	20	36	114	7	<1	2	223	7.62	JF%3	<0.05	<0.05	<0.0001	<0.0001	0.009	0.001	0.19	0.01	JF%<0.001	<0.001	0.018	0.016	<0.01	<0.01
Drainage: Fisher Creek																													
RR-FCT-11	7/14/2008	0.909	9	<1	<1	2	55	13	47	3	3	1	148.2	4.53	JF<5	1.44	0.82	<0.0001	0.0001	0.4	0.42	2.53	1.58	<0.001	<0.001	0.27	0.26	0.02	0.02
RR-FCT-11	9/22/2008	0.0214	48	<1	<1	2	214	45	163	11	4	3	502	3.4	JF%12	2.74	1.61	0.0004	0.0004	0.34	0.28	19	18.2	JF%<0.001	<0.001	1.49	1.53	0.15	0.15
RR-FCT-12	7/14/2008	--	9	<1	<1	<1	15	2	<7	<1	<1	1	48.2	3.54	JF2	0.94	0.98	<0.0001	0.0001	0.44	0.51	0.07	0.06	0.002	0.002	0.031	0.034	0.01	0.01
RR-FCT-12	9/22/2008	0.0179	15	<1	<1	<1	34	4	10	<1	<1	3	5.6	4.64	JF%<1	1.67	1.63	0.0003	0.0003	0.69	0.7	0.03	0.03	JF%0.005	0.005	0.21	0.22	0.06	0.06
RR-SW-3	4/17/2008	0.0852	19	<1	<1	<1	89	16	56	4	2	5	229	3.64	<1	2.13	--	0.0011	--	0.97	--	1.01	--	0.001	--	0.54	--	0.14	--
RR-SW-3	7/14/2008	8.17	5	<1	<1	<1	30	8	24	1	1	1	49.5	5.38	JF5	0.74	--	0.0001	--	0.21	--	0.72	--	0.001	--	0.1	--	0.02	--
RR-SW-3X	7/14/2008	--	4	<1	<1	<1	30	8	24	1	1	1	--	--	JF8	0.77	--	0.0001	--	0.21	--	0.75	--	0.001	--	0.11	--	0.02	--
RR-SW-3	9/22/2008	0.37	28	<1	<1	<1	94	17	59	4	2	3	245	3.78	JF%<1	2.95	2.84	0.0007	0.0007	0.67	0.64	1.69	1.68	JF%0.002	0.002	0.58	0.58	0.11	0.11
RR-FC-4	9/22/2008	0.676	10	<1	<1	<1	60	13	45	3	1	3	153.7	4.45	JF%<1	1.98	1.5	0.0004	0.0004	0.41	0.37	2.57	0.28	JF%0.003	<0.001	0.33	0.33	0.07	0.06

Notes:

cfs - Cubic feet per second
s.u. - Standard units
mg/L - Milligrams per liter
X - Field duplicate
umhos/cm - micromhos per centimeter

HT - Analysis was performed after the holding time had passed

-- - Indicates data not collected, parameter not analyzed, or not applicable
< - Indicates analyte not detected above practical quantitation limit (PQL)
B - the analyte was detected in the method blank and may not represent true concentration of the analyte in the sample
JF - The value is an estimated quantity because field duplicate results exceed acceptable limits by absolute value determination (AVD)
JF% - The associated values are estimated quantities because field duplicate results exceed acceptable limits by relative percent difference determination (RPD)
Flow Rate - Some of the flow rates shown have been converted from gallons per minute (gpm) to cubic feet per second (cfs). Refer to original field notes for exact values

Tetra Tech
Revision Date
12/8/2009

TABLE C-1
2008 SURFACE WATER SUMMARY
NEW WORLD MINING DISTRICT RESPONSE AND RESTORATION PROJECT

Station Name	Sample Date	Flow Rate (cfs)	Anions (mg/L)					Cations (mg/L)								Metals (mg/L)													
			Acidity as CaCO3	Alkalinity as HCO3	Alkalinity as Total CaCO3	Chloride	Sulfate	Calcium	Hardness as CaCO3	Magnesium	Potassium	Sodium	Field SC (umhos/cm)	Field pH (s.u.)	Total Suspended Solids (mg/L)	Aluminum Total Recoverable	Aluminum Dissolved	Cadmium Total Recoverable	Cadmium Dissolved	Copper Total Recoverable	Copper Dissolved	Iron Total Recoverable	Iron Dissolved	Lead Total Recoverable	Lead Dissolved	Manganese Total Recoverable	Manganese Dissolved	Zinc Total Recoverable	Zinc Dissolved
RR-SW-4	4/17/2008	0.448	<2	11	9	<1	41	13	45	3	<1	2	113	5.88	<1	<0.05	<0.05	0.0002	0.0002	0.044	0.036	0.02	<0.01	<0.001	<0.001	0.011	0.01	0.04	0.04
RR-SW-4X	4/17/2008	--	<2	9	8	<1	41	13	45	3	<1	2	--	--	<1	<0.05	<0.05	0.0002	0.0002	0.045	0.036	0.02	<0.01	<0.001	<0.001	0.011	0.01	0.04	0.04
RR-SW-4	7/14/2008	46.54	<2	11	9	<1	25	11	33	2	<1	<1	88.7	6.88	JF2	0.13	<0.05	<0.0001	<0.0001	0.049	0.026	0.18	0.03	<0.001	<0.001	0.022	0.021	<0.01	<0.01
RR-SW-4	9/22/2008	1.462	<2	6	5	<1	48	17	59	4	<1	2	142.1	6.01	JF%<1	0.11	<0.05	0.0002	0.0002	0.065	0.048	0.02	<0.01	JF%<0.001	<0.001	0.046	0.045	0.03	0.02
RR-CFY-2	4/17/2008	0.74	<2	19	16	<1	30	12	42	3	<1	2	98	5.16	<1	<0.05	<0.05	<0.0001	<0.0001	0.007	0.004	<0.01	<0.01	<0.001	<0.001	<0.003	<0.003	0.01	0.01
RR-CFY-2	7/14/2008	60.47	<2	11	9	<1	23	11	36	2	<1	<1	89.6	7.19	JF3	0.06	0.09	<0.0001	<0.0001	0.033	0.019	0.14	0.03	<0.001	<0.001	0.016	0.014	<0.01	<0.01
RR-CFY-2	9/22/2008	1.675	<2	26	21	<1	36	15	52	3	<1	2	127.5	6.7	JF%32	<0.05	<0.05	<0.0001	<0.0001	0.012	0.009	<0.01	<0.01	JF%<0.001	<0.001	0.006	0.004	0.01	<0.01
Drainage: Clarks Fork																													
RR-SW-6	4/17/2008	1.93	<2	30	25	<1	13	10	33	2	<1	1	72	6.15	7	<0.05	<0.05	<0.0001	<0.0001	0.005	0.002	0.07	<0.01	<0.001	<0.001	<0.003	<0.003	<0.01	<0.01
RR-SW-6	7/14/2008	99.53	<2	14	12	<1	14	8	28	2	<1	<1	62	7.07	JF2	<0.05	0.05	<0.0001	<0.0001	0.016	0.011	0	0.02	<0.001	<0.001	0.008	0.006	<0.01	<0.01
RR-SW-6	9/22/2008	3.09	<2	27	22	<1	23	14	47	3	<1	1	108.4	6.81	JF%<1	<0.05	<0.05	<0.0001	<0.0001	0.004	0.004	<0.01	<0.01	JF%<0.001	<0.001	<0.003	<0.003	<0.01	<0.01
Drainage: Miller Creek																													
RR-SW-2	4/15/2008	0.201	<2	77	63	<1	39	34	103	5	<1	1	202	7.35	1	<0.05	<0.05	<0.0001	<0.0001	0.01	0.005	0.07	0.02	<0.001	<0.001	0.004	0.004	<0.01	<0.01
RR-SW-2	7/16/2008	23.9	<2	54	44	<1	14	19	60	3	<1	<1	123.7	7.14	JF2	<0.05	0.05	<0.0001	<0.0001	0.015	0.011	0.06	0.01	<0.001	<0.001	<0.003	<0.003	<0.01	<0.01
RR-SW-2	9/23/2008	0.762	<2	70	57	<1	30	32	99	4	<1	1	202	7.09	JF%<1	<0.05	<0.05	0.0003	<0.0001	0.006	0.005	0.03	0.02	JF%<0.001	<0.001	0.003	<0.003	<0.01	<0.01
RR-SW-5	4/15/2008	0.0022	<2	77	63	<1	44	34	110	5	<1	1	55	7.05	<1	<0.05	<0.05	<0.0001	<0.0001	0.003	0.002	<0.01	<0.01	<0.001	<0.001	0.01	0.009	<0.01	<0.01
RR-SW-5	7/16/2008	--	<2	57	46	<1	15	21	62	3	<1	<1	133.2	6.7	JF2	<0.05	0.05	<0.0001	<0.0001	0.011	0.008	0.09	0.03	<0.001	<0.001	<0.003	<0.003	<0.01	<0.01
RR-SW-5	9/23/2008	0.425	<2	83	68	<1	34	37	110	5	<1	1	221	7.78	JF%<1	<0.05	<0.05	<0.0001	<0.0001	0.002	0.002	<0.01	<0.01	JF%<0.001	<0.001	<0.003	<0.003	<0.01	<0.01
Drainage: New World Waste Repository																													
RR-SBT-3	4/15/2008	0.08	<2	138	113	<1	14	41	131	6	<1	2	244	7.87	5	<0.05	<0.05	<0.0001	<0.0001	0.002	<0.001	0.06	<0.01	<0.001	<0.001	0.006	0.007	<0.01	<0.01
RR-SBT-3	5/29/2008	1.86	<2	79	65	1	10	24	76	4	<1	1	89	5.56	<1	<0.05	<0.05	<0.0001	<0.0001	0.002	<0.001	B 0.1	<0.01	<0.001	<0.001	<0.003	<0.003	<0.01	<0.01
RR-SBT-3	9/23/2008	0.0031	<2	154	126	1	11	47	145	8	<1	2	331	6.91	JF%<1	<0.05	<0.05	<0.0001	<0.0001	<0.001	0.001	0.02	<0.01	JF%<0.001	<0.001	0.004	<0.003	<0.01	<0.01
RR-SBT-6	4/15/2008	0.237	<2	135	110	<1	11	39	125	6	<1	1	231	7.27	5	<0.05	<0.05	<0.0001	<0.0001	0.002	<0.001	0.02	<0.01	<0.001	<0.001	<0.003	<0.003	<0.01	<0.01
RR-SBT-6	5/29/2008	7.09	<2	82	67	1	6	26	79	4	<1	1	132	5.37	79	1.63	<0.05	<0.0001	<0.0001	0.011	0.001	2.51	<0.01	0.006	<0.001	0.073	0.008	0.02	<0.01
RR-SBT-6	9/23/2008	0.011	<2	173	141	<1	8	51	149	8	<1	2	307	7.75	JF%1	<0.05	<0.05	<0.0001	<0.0001	<0.001	0.001	0.01	<0.01	JF%<0.001	<0.001	0.004	<0.003	<0.01	<0.01
Drainage: Soda Butte Creek																													
RR-SBC-1	4/15/2008	0.515	<2	149	122	1	11	43	136	7	<1	1	255	7.05	5	0.08	--	<0.0001	--	0.003	--	0.14	--	<0.001	--	0.007	--	<0.01	--
RR-SBC-1	7/16/2008	11.19	<2	139	114	2	8	39	126	7	<1	1	244	7.59	JF2	<0.05	--	<0.0001	--	<0.001	--	0.03	--	<0.001	--	<0.003	--	<0.01	--
RR-SBC-1	9/23/2008	1.46	<2	151	129	3	8	45	145	8	<1	1	--	8.05	JF%1	<0.05	--	<0.0001	--	<0.001	--	<0.01	--	JF%<0.001	--	<0.003	--	<0.01	--
RR-SBC-2	4/15/2008	0.417	<2	141	115	3	50	52	167	9	<1	2	318	7.05	3	<0.05	--	<0.0001	--	0.001	--	1.26	--	<0.001	--	0.036	--	<0.01	--
RR-SBC-2	7/16/2008	35.73	<2	87	72	1	17	29	93	5	<1	1	187.3	6.72	JF3	<0.05	--	<0.0001	--	0.009	--	0.21	--	<0.001	--	0.01	--	<0.01	--
RR-SBC-2	9/23/2008	1.58	<2	148	122	1	34	51	172	9	<1	2	343	7.69	JF%4	<0.05	--	<0.0001	--	<0.001	--	1.51	--	JF%<0.001	--	0.052	--	<0.01	--
RR-SBSW-102	4/15/2008	2.35	<2	85	69	<1	7	18	70	6	<1	6	142	7.05	4	0.8	--	<0.0001	--	0.002	--	1.03	--	<0.001	--	0.02	--	0.01	--
RR-SBSW-102	7/16/2008	--	<2	62	51	<1	10	17	55	3	<1	3	1814	2.36	JF5	0.15	--	<0.0001	--	0.005	--	0.38	--	<0.001	--	0.006	--	<0.01	--
RR-SBSW-102	9/23/2008	4.89	<2	88	72	<1	9	21	73	5	<1	6	171.9	7.78	JF%3	0.12	--	<0.0001	--	<0.001	--	0.37	--	JF%<0.001	--	0.008	--	<0.01	--
RR-SBC-4	4/15/2008	5.48	<2	96	79	<1	7	22	76	5	<1	6	160	7.61	4	0.29	--	<0.0001	--	0.002	--	0.62	--	<0.001	--	0.008	--	<0.01	--
RR-SBC-4	7/16/2008	--	<2	56	46	<1	5	13	45	3	<1	4	105.1	6.13	JF10	0.36	--	<0.0001	--	0.005	--	0.57	--	<0.001	--	0.01	--	<0.01	--
RR-SBC-4	9/23/2008	1.46	<2	121	99	<1	9	32	109	7	<1	4	222	7.79	JF%<2	0.05	--	<0.0001	--	<0.001	--	0.12	--	JF%<0.001	--	<0.003	--	<0.01	--

Notes:

cfs - Cubic feet per second
s.u. - Standard units
mg/L - Milligrams per liter
X - Field duplicate
umhos/cm - micromhos per centimeter

HT - Analysis was performed after the holding time had passed

-- - Indicates data not collected, parameter not analyzed, or not applicable
< - Indicates analyte not detected above practical quantitation limit (PQL)
B - the analyte was detected in the method blank and may not represent true concentration of the analyte in the sample
JF - The value is an estimated quantity because field duplicate results exceed acceptable limits by absolute value determination (AVD)
JF% - The associated values are estimated quantities because field duplicate results exceed acceptable limits by relative percent difference determination (RPD)
Flow Rate - Some of the flow rates shown have been converted from gallons per minute (gpm) to cubic feet per second (cfs). Refer to original field notes for exact values

Tetra Tech
Revision Date
12/8/2009

n:\newworld\datasbase\NW2k.mdb<Table-C1-2008SW-annual.rpt>

Table C-2
1989 To 2008 Surface Water Database (Daisy Creek)

Sample Station	Sample Date	Data Source	Flow (gpm)	Al (mg/L)	Cd (mg/L)	Cu (mg/L)	Fe (mg/L)	Pb (mg/L)	Mn (mg/L)	Zn (mg/L)	Flow (L/sec)	Aluminum (kg/month)	Cadmium (kg/month)	Copper (kg/month)	Iron (kg/month)	Lead (kg/month)	Manganese (kg/month)	Zinc (kg/month)
DC-2	10/03/89	Hydrometrics	89.77		0.0005	7.89	28.26		3.37	1.03	5.663		0.0073	115.8209	414.8414		49.4698	15.1198
DC-2	07/12/90	Hydrometrics	1970.37	7.2	0.005	2.74	17.9		0.71	0.31	124.311	2319.9411	1.6111	882.8665	5767.6313		228.7720	99.8864
DC-2	06/15/94	Hydrometrics	1283.66	9	0.0021	2.64	10.4	0.003	1.08	0.332	80.986	1889.2459	0.4408	554.1788	2183.1286	0.6297	226.7095	69.6922
DC-2	07/26/94	Hydrometrics		16.4	0.0054	5.32	15.8	0.009	2.57	0.667								
DC-2	08/22/94	Hydrometrics		28.6	0.0076	8.26	41.8	0.024	3.65	0.904								
DC-2	08/23/94	Hydrometrics		23.9	0.0074	7.27	20.4	0.006	3.43	0.886								
DC-2	09/20/94	Hydrometrics		25	0.0076	7.44	23.6	0.004	3.59	1.2								
DC-2	10/13/94	Hydrometrics																
DC-2	09/26/95	Hydrometrics	87.07	22	0.0052	6.33	16.2	0.005	2.99	0.894	5.493	313.2596	0.0740	90.1333	230.6730	0.0712	42.5748	12.7297
DC-2	05/21/96	Hydrometrics	209.60	8.3	0.0027	1.91	5.55	0.004	1.12	0.43	13.224	284.4952	0.0925	65.4682	190.2347	0.1371	38.3897	14.7389
DC-2	05/30/96	Hydrometrics	500.90	6.9	0.0019	1.62	5.52	0.004	0.785	0.31	31.602	565.1884	0.1556	132.6964	452.1507	0.3276	64.3004	25.3925
DC-2	06/05/96	Hydrometrics	1252.24	7	0.0014	1.83	19.3	0.008	0.629	0.24	79.004	1433.4488	0.2867	374.7445	3952.2231	1.6382	128.8056	49.1468
DC-2	06/12/96	Hydrometrics	4847.38			1.25	10.7			0.21	305.822			990.8632	8481.7892			166.4650
DC-2	06/18/96	Hydrometrics	6431.75	5	0.0012	1.44	9.69	0.0015	0.481	0.19	405.780	5258.9148	1.2621	1514.5675	10191.7769	1.5777	505.9076	199.8388
DC-2	06/26/96	Hydrometrics	5071.79			1.52	8.54			0.19	319.980			1260.6716	7082.9839			157.5840
DC-2	07/02/96	Hydrometrics	6189.38			1.38	6.76			0.24	390.489			1396.7648	6842.1234			242.9156
DC-2	07/09/96	Hydrometrics	6947.91	4.2	0.0008	1.11	8.05	0.01	0.379	0.15	438.345	4771.9973	0.9090	1261.1707	9146.3281	11.3619	430.6159	170.4285
DC-2	07/18/96	Hydrometrics	2215.88			2.23	8			0.33	139.800			808.0680	2898.8988			119.5796
DC-2	07/25/96	Hydrometrics	527.38			2.7	9.84			0.39	33.272			232.8529	848.6193			33.6343
DC-2	08/21/96	Hydrometrics	61.94			4.74	15.4			0.64	3.908			48.0106	155.9839			6.4824
DC-2	09/10/96	Hydrometrics	80.79	20.2	0.0058	6.22	15.6	0.006	2.72	0.89	5.097	266.8725	0.0766	82.1756	206.0996	0.0793	35.9353	11.7582
DC-2	07/09/97	UOS Data		3.27	0.0025	0.876	5.32		0.304	0.129								
DC-2	03/30/98	UOS Data	58.35	12.3		2.69	12.8		2.14	0.688	3.681	117.3622		25.6670	122.1331		20.4191	6.5647
DC-2	04/22/98	UOS Data	32.32	12.1		2.66	11.2		1.95	0.589	2.039	63.9437		14.0570	59.1876		10.3050	3.1126
DC-2	05/04/98	UOS Data	313.73	5.4		1.23	6.43		0.574	0.162	19.793	277.0454		63.1048	329.8892		29.4489	8.3114
DC-2	05/29/98	UOS Data	1198.38	5.34		1.47	10		0.592	0.22	75.606	1046.4837		288.0770	1959.7073		116.0147	43.1136
DC-2	05/06/99	Maxim	12.57	9.2	0.0038	1.94	16	0.006	1.61	0.51	0.793	18.9071	0.0078	3.9869	32.8820	0.0123	3.3087	1.0481
DC-2	07/08/99	Maxim	4245.94	3.7	0.0012	1.07	4.83	0.002	0.37	0.15	267.877	2569.0514	0.8332	742.9419	3353.6536	1.3887	256.9051	104.1507
DC-2	09/29/99	Maxim	208.26	12.4	0.0044	3.98	13.6	0.002	1.93	0.6	13.139	422.2986	0.1498	135.5442	463.1662	0.0681	65.7287	20.4338
DC-2	04/12/00	Maxim	5.39	10.7	0.0056	2.51	13.5	0.004	2.02	0.01	0.340	9.4242	0.0049	2.2107	11.8904	0.0035	1.7791	0.0088
DC-2	05/20/00	Maxim	704.66			1.42				0.19	44.457			163.6319				21.8944
DC-2	05/20/00	Maxim	704.66			1.44				0.19	44.457			165.9366				21.8944
DC-2	05/20/00	Maxim	722.62			1.89				0.26	45.590			223.3406				30.7241
DC-2	05/20/00	Maxim	1171.45	5.5	0.0011	1.34	14.4	0.007	0.6	0.17	73.907	1053.6179	0.2107	256.6996	2758.5632	1.3410	114.9401	32.5664
DC-2	06/14/00	Maxim	2315.97			1.59				0.24	146.115			602.1806				90.8952
DC-2	06/14/00	Maxim	2724.41			1.64				0.24	171.883			730.6552				106.9252
DC-2	06/14/00	Maxim	2890.47			1.61				0.22	182.361			761.0123				103.9893
DC-2	06/14/00	Maxim	3438.05	4.7	0.0014	1.43	8.26	0.002	0.5	0.2	216.907	2642.4487	0.7871	803.9791	4643.9631	1.1244	281.1116	112.4446
DC-2	07/09/00	Maxim	1570.91			1.59				0.23	99.109			408.4558				59.0848
DC-2	07/09/00	Maxim	1077.19	6.1	0.0019	2.01	8.55	0.003	0.72	0.26	67.960	1074.5361	0.3347	354.0685	1506.1121	0.5285	126.8305	45.7999
DC-2	07/09/00	Maxim	1270.19			2.04				0.28	80.137			423.7372				58.1600
DC-2	07/09/00	Maxim	1503.58			1.75				0.26	94.861			430.2915				63.9290
DC-2	10/09/00	Maxim	89.77	14	0.0045	3.77	6.54	0.007	2.23	0.54	5.663	205.5124	0.0661	55.3415	96.0036	0.1028	32.7352	7.9269
DC-2	04/20/01	Maxim	67.32	11.1	0.0037	2.2	10.8	0.004	1.66	0.37	4.248	122.2065	0.0407	24.2211	118.9036	0.0440	18.2759	4.0735
DC-2	06/29/01	Maxim	1443.89	5.5	0.0017	1.34	10.3	0.022	0.63	0.29	91.095	1298.6547	0.4014	316.3995	2432.0261	5.1946	148.7550	68.4745
DC-2	10/10/01	Maxim	76.30	17.1	0.0054	4.15	14.5	0.007	2.62	0.79	4.814	213.3659	0.0674	51.7818	180.9243	0.0873	32.6911	9.8573
DC-2	04/25/02	Maxim	139.14	10.8	0.0038	2.2	12.1	0.003	1.91	0.6	8.778	245.7341	0.0865	50.0569	275.3132	0.0683	43.4585	13.6519
DC-2	07/02/02	Maxim	2244.16	6.2	0.0016	1.59	8.1	0.002	0.57	0.25	141.584	2275.3155	0.5872	583.5083	2972.5897	0.7340	209.1822	91.7466
DC-2	09/18/02	Maxim		17.6	0.0047	4.13	15.5	0.006	2.31	0.64								
DC-2	09/26/02	Maxim		14.3	0.0053	4.65	10.1	0.005	2.21	0.64								
DC-2	10/09/02	Maxim	171.00	13.7	0.0038	2.92	11.8	0.01	1.91	0.54	10.789	383.1118	0.1063	81.6559	329.9795	0.2796	53.4119	15.1008
DC-2	22-Apr-03	Maxim	85.28	7.85	0.0038	2.14	8.79	0.005	1.62	0.45	5.380	109.4720	0.0530	29.8433	122.5808	0.0697	22.5917	6.2755
DC-2	11-Jul-03	Maxim	1059.24	6.17	0.0019	1.92	4.86	0.003	0.88	0.25	66.828	1068.7524	0.3291	332.5777	841.8374	0.5197	152.4315	43.3044
DC-2	31-Jul-03	Maxim		13.1	0.0032	3.57	12.2	0.005	1.83	0.57								
DC-2	14-Aug-03	Maxim		15.9	0.0044	4.46	14.4	0.007	2.25	0.63								
DC-2	21-Aug-03	Maxim		15.3	0.0048	4.37	13.3	0.007	2.29	0.65								
DC-2	22-Aug-03	Maxim		19.2	0.0051	4.35	21.4	0.008	2.81	0.87								
DC-2	08-Sep-03	Maxim		18.5	0.0046	5.03	19.4	0.013	2.8	0.81								
DC-2	29-Sep-03	Maxim	29.62	12.5	0.0043	3.63	8.69	0.005	2.5	0.76	1.869	60.5528	0.0208	17.6	42	0.0242	12.1106	3.6816

Table C-2
1989 To 2008 Surface Water Database (Daisy Creek)

Sample Station	Sample Date	Data Source	Flow (gpm)	Al (mg/L)	Cd (mg/L)	Cu (mg/L)	Fe (mg/L)	Pb (mg/L)	Mn (mg/L)	Zn (mg/L)	Flow (L/sec)	Aluminum (kg/month)	Cadmium (kg/month)	Copper (kg/month)	Iron (kg/month)	Lead (kg/month)	Manganese (kg/month)	Zinc (kg/month)
DC-2	06-Apr-04	Maxim	81.24	10.1	0.0036	2.15	5.94	0.005	1.67	0.5	5.125	134.1776	0.0478	28.6	79	0.0664	22.1858	6.6425
DC-2	29-Jun-04	Maxim	4290.83	2.97	0.0007	0.58	4.16	0.003	0.31	0.1	270.709	2083.9835	0.4912	407.0	2919	2.1050	217.5202	70.1678
DC-2	11-Aug-04	Maxim	161.58	9.38	0.0032	2.79	11.1	0.004	1.44	0.45	10.194	247.8479	0.0846	73.7	293	0.1057	38.0491	11.8904
DC-2	06-Oct-04	Maxim	237.88	6.58	0.0024	1.9	7.36	0.002	1.25	0.35	15.008	255.9656	0.0934	73.9	286	0.0778	48.6257	13.6152
DC-2	06-Apr-05	Maxim	22.44	11.6	0.0046	2.49	15.5	0.003	2.25	0.84	1.416	42.5703	0.0169	9.1	57	0.0110	8.2572	3.0827
DC-2	29-Jun-05	Maxim	3052.04	2.37	0.0008	0.31	3.42	0.002	0.31	0.14	192.554	1182.8673	0.3993	154.7	1707	0.9982	154.7210	69.8740
DC-2	27-Sep-05	Maxim	85.28	13.2	0.0035	2.57	12.1	0.006	1.82	0.51	5.380	184.0799	0.0488	35.8	169	0.0837	25.3807	7.1122
DC-2	25-Apr-06	Maxim	35.91	9.15	0.003	1.54	10.2	0.002	1.95	0.5	2.265	53.7267	0.0176	9.0	60	0.0117	11.4499	2.9359
DC-2	27-Jun-06	Maxim	2329.43	3.12	0.0005	0.69	3.38	0.002	0.34	0.1	146.964	1188.5042	0.1905	262.8	1288	0.7619	129.5165	38.0931
DC-2	27-Sep-06	Maxim	62.84	12.4	0.0043	3.17	7.78	0.004	2.14	0.55	3.964	127.4173	0.0442	32.6	80	0.0411	21.9898	5.6516
DC-2	09-Apr-07	Tetra Tech	22.44	8.3	0.0036	1.44	12	0.003	1.76	0.46	1.416	30.4578	0.0132	5.3	44	0.0110	6.4585	1.6880
DC-2	13-Jun-07	Tetra Tech	4577.76	3.7	0.0004	0.41	5.36	0.009	0.23	0.07	288.812	2769.8206	0.2994	306.9	4012	6.7374	172.1780	52.4020
DC-2	18-Jul-07	Tetra Tech	227.50	8.9	0.0023	2.2	10.2	0.002	1.12	0.34	14.353	331.1070	0.0856	81.8	379	0.0744	41.6674	12.6490
DC-2	17-Sep-07	Tetra Tech	67.32	13.4	0.0042	3.58	12.9	0.004	2.37	0.61	4.247	147.5183	0.0462	39.4	142	0.0440	26.0909	6.7154
DC-2	**17-Apr-08**	Tetra Tech	9.87	8.53	0.0035	1.79	13.3	0.003	1.93	0.5	0.623	13.7728	0.0057	2.9	21	0.0048	3.1162	0.8073
DC-2	**15-Jul-08**	Tetra Tech	4141.98	2.3	0.0005	0.52	2.32	0.002	0.29	0.08	261.318	1557.8736	0.3387	352.2	1571	1.3547	196.4275	54.1869
DC-2	**24-Sep-08**	Tetra Tech	177.28	14.1	0.004	3.54	10.3	0.005	2.12	0.56	11.184	408.7577	0.1160	102.6	299	0.1449	61.4586	16.2343
Avg all before Oct 2003			**1507**	**11.74**	**0.0037**	**2.94**	**12.75**	**0.006**	**1.72**	**0.45**	**95.105**	**1079.372**	**0.333**	**390.296**	**2208.078**	**1.097**	**113.030**	**56.403**
Avg all after Oct 2003			**1152**	**8.24**	**0.0027**	**1.86**	**8.67**	**0.004**	**1.37**	**0.39**	**72.678**	**632.968**	**0.138**	**116.384**	**788.643**	**0.743**	**69.711**	**21.985**
% Change			**-24**	**-30**	**-28**	**-37**	**-32**	**-44**	**-20**	**-12**	**-24**	**-41**	**-59**	**-70**	**-64**	**-32**	**-38**	**-61**
Avg high flow before Oct 2003			**2842**	**6.97**	**0.0022**	**1.93**	**9.86**	**0.006**	**0.83**	**0.27**	**179.30**	**2418.4**	**0.707**	**716.7**	**4571.6**	**2.5**	**245.1**	**102.6**
Avg high flow after Oct 2003			**2808**	**2.89**	**0.0006**	**0.50**	**3.73**	**0.004**	**0.30**	**0.10**	**232.07**	**1756.6**	**0.3**	**296.7**	**2299.5**	**2.4**	**174.1**	**56.9**
% Change			**-1**	**-58**	**-74**	**-74**	**-62**	**-39**	**-64**	**-64**	**29**	**-27**	**-51**	**-59**	**-50**	**-3**	**-29**	**-45**
Avg low flow before Oct 2003			**244**	**11.78**	**0.0038**	**3.08**	**12.38**	**0.005**	**1.91**	**0.50**	**15.42**	**262.9**	**0.1**	**82.6**	**329.7**	**0.2**	**36.4**	**12.8**
Avg low flow after Oct 2003			**88**	**10.61**	**0.0036**	**2.45**	**10.77**	**0.004**	**1.88**	**0.53**	**5.53**	**149.7**	**0.0**	**37.5**	**139.1**	**0.1**	**24.8**	**6.9**
% Change			**-64**	**-10**	**-4**	**-20**	**-13**	**-29**	**-1**	**5**	**-64**	**-43**	**-36**	**-55**	**-58**	**-70**	**-32**	**-46**
DC-5	10/03/89	Hydrometrics	166.07		0.003	2.54	6.88		1.16	0.4	10.47723456		0.0815	68.9788	186.8401		31.5021	10.8628
DC-5	07/12/90	Hydrometrics	3999.09	2.7	0.0005	0.97	4.3		0.28	0.12	252.3031351	1765.7183	0.3270	634.3506	2812.0698		183.1115	78.4764
DC-5	07/28/93	Hydrometrics		3.2	0.0005	1.09	4.19	0.002	0.35	0.12								
DC-5	09/23/93	Hydrometrics	242.37	5.3	0.0023	2.17	4.68	0.002	1.2	0.36	15.29109909	210.0630	0.0912	86.0069	185.4896	0.0793	47.5614	14.2684
DC-5	08/25/94	Hydrometrics	107.72	8.1	0.0027	2.85	5.7	0.002	1.23	0.42	6.796044042	142.6843	0.0476	50.2037	100.4075	0.0352	21.6669	7.3984
DC-5	07/13/95	Hydrometrics	13657.93	2	0.0005	0.485	3.8	0.003	0.18	0.062	861.6817508	4466.9582	1.1167	1083.2374	8487.2206	6.7004	402.0262	138.4757
DC-5	09/27/95	Hydrometrics	188.51	7.7	0.0023	2.45	2.38	0.003	1.18	0.391	11.89307707	237.3668	0.0709	75.5258	73.3679	0.0925	36.3757	12.0533
DC-5	06/18/96	Hydrometrics	13797.07	1.4	0.0004	0.346	3.12	0.0015	0.143	0.06	870.4599744	3158.7252	0.9025	780.6564	7039.4446	3.3843	322.6412	135.3739
DC-5	07/09/96	Hydrometrics	12630.11	1.7	0.0004	0.46	2.48	0.0015	0.166	0.07	796.8361639	3511.1789	0.8262	950.0837	5122.1904	3.0981	342.8563	144.5780
DC-5	09/10/96	Hydrometrics	140.04	7.2	0.0023	2.62	4.42	0.0015	1.08	0.37	8.834857254	164.8796	0.0527	59.9979	101.2178	0.0343	24.7319	8.4730
DC-5	05/06/99	Maxim	529.62	1.4	0.0006	0.33	0.65	0.001	0.25	0.08	33.41388321	121.2523	0.0520	28.5809	56.2957	0.0866	21.6522	6.9287
DC-5	07/08/99	Maxim	10695.65	1.2	0.0004	0.31	1.54	0.001	0.124	0.07	674.7905397	2098.8685	0.6996	542.2077	2693.5479	1.7491	216.8831	122.4340
DC-5	09/29/99	Maxim	666.07	4	0.0012	1.26	2.67	0.002	0.5	0.17	42.02220566	435.6862	0.1307	137.2412	290.8206	0.2178	54.4608	18.5167
DC-5	04/12/00	Maxim	192.55	2.9	0.0014	1.04	1.38	0.004	0.041	0.01	12.14792872	91.3136	0.0441	32.7469	43.4527	0.1259	1.2910	0.3149
DC-5	07/09/00	Maxim	3994.60	1.6	0.0005	0.54	2.11	0.0005	0.19	0.07	252.0199666	1045.1772	0.3266	352.7473	1378.3274	0.3266	124.1148	45.7265
DC-5	10/09/00	Maxim	538.60	2.7	0.0046	0.61	1.3	0.0015	0.23	0.08	33.98022021	237.8072	0.4052	53.7268	114.4998	0.1321	20.2576	7.0461
DC-5	06/29/01	Maxim	2292.18	1.8	0.0006	0.55	3.02	0.002	0.21	0.09	144.6141538	674.7118	0.2249	206.1619	1132.0165	0.7497	78.7164	33.7356
DC-5	10/10/01	Maxim	152.60	3.5	0.001	0.71	1.19	0.003	0.41	0.15	9.627729059	87.3428	0.0250	17.7181	29.6965	0.0749	10.2316	3.7433
DC-5	04/25/02	Maxim		0.05	0.0004	0.024	0.005	0.0005	0.16	0.04								
DC-5	07/02/02	Maxim	5655.27	1.6	0.0005	0.54	2.48	0.002	0.19	0.08	356.7923122	1479.6891	0.4624	499.3951	2293.5181	1.8496	175.7131	73.9845
DC-5	09/18/02	Maxim		5.9	0.0021	1.61	3.66	0.003	0.93	0.21								
DC-5	09/26/02	Maxim		0.3	0.0004	0.079	0.25	0.0005	0.086	0.02								
DC-5	10/09/02	Maxim	332.14	3.7	0.001	0.76	2.07	0.003	0.45	0.15	20.95446913	200.9617	0.0543	41.2786	112.4299	0.1629	24.4413	8.1471
DC-5	21-Apr-03	Maxim	255.83	2.07	0.0009	0.56	1.3	0.002	0.35	0.13	16.1406046	86.6014	0.0377	23.4284	54.3874	0.0837	14.6428	5.4387
DC-5	11-Jul-03	Maxim	2450.62	2.1	0.0006	0.48	1.55	0.001	0.29	0.07	154.610002	841.5732	0.2404	192.3596	621.1611	0.4007	116.2172	28.0524
DC-5	08-Sep-03	Maxim		7.84	0.0017	2.01	15.7	0.018	1.05	0.38								
DC-5	29-Sep-03	Maxim	83.03	5.34	0.0012	1.44	3	0.003	0.62	0.3	5.238617282	72.5092	0.0163	19.5530	40.7355	0.0407	8.4187	4.0735
DC-5	07-Apr-04	Maxim	537.25	2.18	0.0007	0.52	1.1	0.001	0.34	0.13	33.89526966	191.5273	0.0615	45.6854	96.6422	0.0879	29.8712	11.4214
DC-5	29-Jun-04	Maxim	8622.05	0.73	0.0002	0.16	1.23	0.001	0.1	0.04	543.9666918	1029.2720	0.2820	225.5939	1734.2528	1.4100	140.9962	56.3985
DC-5	11-Aug-04	Maxim	368.04	3.03	0.0011	0.87	3.69	0.001	0.46	0.15	23.21981714	182.3629	0.0662	52.3616	222.0855	0.0602	27.6855	9.0279
DC-5	06-Oct-04	Maxim	807.90	1.93	0.0007	0.51	2.13	0.0005	0.33	0.11	50.97032653	254.9821	0.0925	67.3787	281.4051	0.0661	43.5980	14.5327
DC-5	06-Apr-05	Maxim	107.72	2.43	0.001	0.54	1.74	0.001	0.51	0.35	6.796025872	42.8052	0.0176	9.5123	30.6506	0.0176	8.9838	6.1654
DC-5	29-Jun-05	Maxim	8644.47	0.7	0.0002	0.17	0.98	0.001	0.095	0.1	545.3810762	989.5394	0.2827	240.3167	1385.3552	1.4136	134.2946	141.3628
DC-5	27-Sep-05	Maxim	193.00	3.88	0.0015	0.97	2.61	0.004	0.73	0.22	12.17621302	122.4557	0.0473	30.6139	82.3735	0.1262	23.0393	6.9434

Table C-2
1989 To 2008 Surface Water Database (Daisy Creek)

Sample Station	Sample Date	Data Source	Flow (gpm)	Al (mg/L)	Cd (mg/L)	Cu (mg/L)	Fe (mg/L)	Pb (mg/L)	Mn (mg/L)	Zn (mg/L)	Flow (L/sec)	Aluminum (kg/month)	Cadmium (kg/month)	Copper (kg/month)	Iron (kg/month)	Lead (kg/month)	Manganese (kg/month)	Zinc (kg/month)
DC-5	25-Apr-06	Maxim	206.46	0.96	0.0005	0.23	0.64	0.0005	0.29	0.06	13.02571625	32.4122	0.0169	7.7654	21.6081	0.0169	9.7912	2.0258
DC-5	27-Jun-06	Maxim	7082.54	1.13	0.00005	0.21	1.13	0.0005	0.11	0.04	446.8387011	1308.7727	0.0579	243.2232	1308.7727	0.5791	127.4027	46.3282
DC-5	27-Sep-06	Maxim	125.67	2.83	0.0014	0.79	0.91	0.001	0.66	0.17	7.92869685	58.1598	0.0288	16.2354	18.7016	0.0206	13.5638	3.4937
DC-5	09-Apr-07	Tetra Tech	192.98	1.23	0.0007	0.25	1.03	0.0005	0.32	0.09	12.1751468	38.8163	0.0221	7.8895	32.5047	0.0158	10.0986	2.8402
DC-5	13-Jun-07	Tetra Tech	13778.16	1.39	0.0002	0.019	1.73	0.003	0.099	0.02	869.26687	3131.8642	0.4506	42.8097	3897.9317	6.7594	223.0608	45.0628
DC-5	17-Sep-07	Tetra Tech	188.50	4.23	0.0014	1.16	5.04	0.002	0.74	0.22	11.89225034	130.3885	0.0432	35.7567	155.3566	0.0616	22.8103	6.7814
DC-5	**17-Apr-08**	Tetra Tech	110.85	1.19	0.0007	0.31	1.3	0.0005	0.37	0.09	6.99354867	21.5715	0.0127	5.6195	23.5655	0.0091	6.7071	1.6315
DC-5	**15-Jul-08**	Tetra Tech	7925.80	0.89	0.0002	0.18	0.98	0.002	0.11	0.03	500.0403072	1153.5330	0.2592	233.2988	1270.1824	2.5922	142.5715	38.8831
DC-5	**24-Sep-08**	Tetra Tech	287.70	6.53	0.0013	1.48	5.34	0.005	0.71	0.21	18.15105054	307.2203	0.0612	69.6303	251.2338	0.2352	33.4037	9.8800
Average all before Oct. 2003			**3308**	**3.36**	**0.0013**	**1.07**	**3.18**	**0.0026**	**0.48**	**0.17**	**208.678**	**1006.241**	**0.283**	**269.827**	**1498.597**	**0.971**	**103.614**	**41.277**
Average all after Oct. 2003			**3074**	**2.20**	**0.0007**	**0.52**	**1.97**	**0.0015**	**0.37**	**0.13**	**193.920**	**562.230**	**0.113**	**83.356**	**675.789**	**0.842**	**62.367**	**25.174**
% Change			**-7**	**-34**	**-41**	**-51**	**-38**	**-41**	**-23**	**-23**	**-7**	**-44**	**-60**	**-69**	**-55**	**-13**	**-40**	**-39**
Avg high flow before 10/2003			**7686**	**1.93**	**0.0005**	**0.58**	**2.86**	**0.0016**	**0.21**	**0.08**	**484.901**	**2115.844**	**0.570**	**582.356**	**3508.833**	**2.282**	**218.031**	**88.982**
Avg high flow after 10/2003			**9211**	**0.97**	**0.0002**	**0.15**	**1.21**	**0.0015**	**0.10**	**0.05**	**581.099**	**1522.596**	**0.266**	**197.048**	**1919.299**	**2.551**	**153.665**	**65.607**
% Change			**20**	**-50**	**-65**	**-74**	**-58**	**-7**	**-52**	**-43**	**20**	**-28**	**-53**	**-66**	**-45**	**12**	**-30**	**-26**
Avg low flow before Oct 2003			**277**	**4.15**	**0.0018**	**1.38**	**2.69**	**0.0022**	**0.63**	**0.22**	**17.448**	**174.039**	**0.085**	**53.461**	**106.895**	**0.097**	**24.403**	**8.251**
Avg low flow post 10/03 (Apr&Sep)			**284**	**2.77**	**0.0010**	**0.69**	**2.32**	**0.0015**	**0.50**	**0.16**	**17.929**	**125.700**	**0.043**	**31.677**	**110.557**	**0.065**	**20.868**	**6.795**
% Change			**3**	**-33**	**-44**	**-50**	**-14**	**-30**	**-22**	**-25**	**3**	**-28**	**-50**	**-41**	**3**	**-33**	**-14**	**-18**
SW-7	05/28/90	Hydrometrics	18087.90	0.1	0.00005	0.03	0.2	0.001	0.01	0.02	1141.169	295.7910	0.1479	88.7373	591.5820	2.9579	29.5791	59.1582
SW-7	06/05/90	Hydrometrics	36404.70	0.4		0.11	0.99			0.02	2296.780	2381.3012		654.8578	5893.7205			119.0651
SW-7	06/06/90	Hydrometrics	51660.47								3259.269							
SW-7	06/13/90	Hydrometrics	31332.91	0.26		0.07	0.61			0.02	1976.799	1332.2046		358.6705	3125.5569			102.4773
SW-7	06/15/90	Hydrometrics	25269.20								1594.239							
SW-7	06/20/90	Hydrometrics	43765.53	0.5		0.14	0.99			0.02	2761.176	3578.4842		1001.9756	7085.3987			143.1394
SW-7	06/22/90	Hydrometrics	57966.55								3657.121							
SW-7	06/27/90	Hydrometrics	62297.77	0.6	0.0002	0.147	1.02	0.001	0.05	0.03	3930.379	6112.5251	2.0375	1497.5687	10391.2927	10.1875	509.3771	305.6263
SW-7	06/28/90	Hydrometrics	62894.72								3968.040							
SW-7	07/03/90	Hydrometrics	55161.35	0.4		0.11	0.78		0.05	0.03	3480.141	3608.2101		992.2578	7036.0096		451.0263	270.6158
SW-7	07/10/90	Hydrometrics	22531.33	0.3	0.0005	0.11	0.67	0.005	0.04	0.04	1421.506	1105.3630	1.8423	405.2998	2468.6440	18.4227	147.3817	147.3817
SW-7	07/12/90	Hydrometrics	18716.26								1180.813							
SW-7	07/17/90	Hydrometrics	11086.13	0.5		0.17	0.93			0.015	699.426	906.4564		308.1952	1686.0088			27.1937
SW-7	07/19/90	Hydrometrics	9380.57								591.822							
SW-7	07/26/90	Hydrometrics	4667.84	0.5	0.0002	0.21	1.05	0.003	0.07	0.04	294.495	381.6658	0.1527	160.2997	801.4983	2.2900	53.4332	30.5333
SW-7	08/22/90	Hydrometrics	2513.45								158.574							
SW-7	09/25/90	Hydrometrics	987.43	0.05	0.00005	0.02	0.14	0.001	0.05	0.02	62.297	8.0737	0.0081	3.2295	22.6064	0.1615	8.0737	3.2295
SW-7	03/15/91	Hydrometrics	673.25	0.05	0.0005	0.005	0.24	0.005	0.04	0.01	42.475	5.5048	0.0550	0.5505	26.4230	0.5505	4.4038	1.1010
SW-7	06/06/91	Hydrometrics	70735.80	0.3	0.00005	0.03	0.74	0.002	0.03	0.04	4462.736	3470.2232	0.5784	347.0223	8559.8839	23.1348	347.0223	462.6964
SW-7	07/10/91	Hydrometrics	16920.94	0.4	0.0001	0.18	1.2	0.024	0.05	0.04	1067.545	1106.8309	0.2767	498.0739	3320.4928	66.4099	138.3539	110.6831
SW-7	08/13/91	Hydrometrics	1840.21	0.1	0.0002	0.034	0.15	0.001	0.07	0.06	116.099	30.0929	0.0602	10.2316	45.1393	0.3009	21.0650	18.0557
SW-7	09/24/91	Hydrometrics	1570.91	0.05	0.0001	0.017	0.21	0.001	0.06	0.01	99.109	12.8445	0.0257	4.3671	53.9470	0.2569	15.4134	2.5689
SW-7	07/19/92	Hydrometrics	8976.62	0.5	0.00005	0.17	0.07	0.001	0.07	0.03	566.337	733.9728	0.0734	249.5507	102.7562	1.4679	102.7562	44.0384
SW-7	09/22/92	Hydrometrics	1449.72	0.1	0.0002	0.0435	0.1	0.001	0.08	0.04	91.463	23.7073	0.0474	10.3127	23.7073	0.2371	18.9659	9.4829
SW-7	09/23/93	Hydrometrics	1665.16	0.2	0.0001	0.06	0.29	0.001	0.07	0.016	105.056	54.4608	0.0272	16.3382	78.9681	0.2723	19.0613	4.3569
SW-7	08/25/94	Hydrometrics	758.52	0.02	0.00005	0.007	0.16	0.001	0.027	0.004	47.855	2.4808	0.0062	0.8683	19.8466	0.1240	3.3491	0.4962
SW-7	07/13/95	Hydrometrics	50933.36	0.6	0.0001	0.098	0.97	0.001	0.05	0.02	3213.396	4997.4737	0.8329	816.2540	8079.2492	8.3291	416.4561	166.5825
SW-7	09/27/95	Hydrometrics	1256.73	0.05	0.00005	0.021	0.17	0.001	0.03	0.0135	79.287	10.2756	0.0103	4.3158	34.9371	0.2055	6.1654	2.7744
SW-7	06/18/96	Hydrometrics	100125.26	0.5	0.0002	0.087	1.05	0.0015	0.046	0.02	6316.923	8186.7321	3.2747	1424.4914	17192.1375	24.5602	753.1794	327.4693
SW-7	07/09/96	Hydrometrics	43819.39	0.3	0.0001	0.096	0.53	0.0015	0.038	0.02	2764.574	2149.7328	0.7166	687.9145	3797.8613	10.7487	272.2995	143.3155
SW-7	09/10/96	Hydrometrics	953.36	0.05	0.00005	0.019	0.13	0.0015	0.025	0.01	60.148	7.7952	0.0078	2.9622	20.2674	0.2339	3.8976	1.5590
SW-7	05/06/99	Maxim	2908.43	0.4	0.00005	0.008	0.62	0.0005	0.036	0.005	183.493	190.2457	0.0238	3.8049	294.8809	0.2378	17.1221	2.3781
SW-7	07/08/99	Maxim	50192.79	0.4	0.0001	0.064	0.53	0.0005	0.027	0.02	3166.673	3283.2069	0.8208	525.3131	4350.2492	4.1040	221.6165	164.1603
SW-7	09/29/99	Maxim	1118.94	0.05	0.00005	0.0005	0.42	0.0005	0.023	0.03	70.594	9.1490	0.0091	0.0915	76.8514	0.0915	4.2085	5.4894
SW-7	04/12/00	Maxim	181.78	0.025	0.00005	0.004	0.43	0.0005	0.066	0.05	11.468	0.7431	0.0015	0.1189	12.7821	0.0149	1.9619	1.4863
SW-7	07/09/00	Maxim	14474.81	0.3	0.00005	0.072	0.36	0.0005	0.029	0.02	913.218	710.1186	0.1184	170.4285	852.1424	1.1835	68.6448	47.3412
SW-7	10/09/00	Maxim	812.38	0.005	0.00005	0.0005	0.22	0.0015	0.01	0.005	51.253	0.6642	0.0066	0.0664	29.2268	0.1993	1.3285	0.6642
SW-7	06/29/01	Maxim	16440.69	0.2	0.0008	0.12	0.53	0.004	0.035	0.005	1037.246	537.7084	2.1508	322.6251	1424.9274	10.7542	94.0990	13.4427
SW-7	10/10/01	Maxim	686.71	0.05	0.00005	0.005	0.12	0.001	0.015	0.02	43.325	5.6149	0.0056	0.5615	13.4757	0.1123	1.6845	2.2460
SW-7	04/25/02	Maxim		0.05	0.00005	0.003	0.26	0.0005	0.028	0.005								
SW-7	07/02/02	Maxim	33482.81	0.3	0.00005	0.089	0.49	0.0005	0.024	0.02	2112.437	1642.6310	0.2738	487.3139	2682.9640	2.7377	131.4105	109.5087
SW-7	10/09/02	Maxim	1086.17	0.1	0.0001	0.019	0.23	0.0005	0.038	0.06	68.527	17.7621	0.0178	3.3748	40.8529	0.0888	6.7496	10.6573

Table C-2
1989 To 2008 Surface Water Database (Daisy Creek)

Sample Station	Sample Date	Data Source	Flow (gpm)	Al (mg/L)	Cd (mg/L)	Cu (mg/L)	Fe (mg/L)	Pb (mg/L)	Mn (mg/L)	Zn (mg/L)	Flow (L/sec)	Aluminum (kg/month)	Cadmium (kg/month)	Copper (kg/month)	Iron (kg/month)	Lead (kg/month)	Manganese (kg/month)	Zinc (kg/month)
SW-7	21-Apr-03	Maxim		0.025	0.0001	0.007	0.31	0.0005	0.018	0.01								
SW-7	11-Jul-03	Maxim	17773.72	0.31	0.0001	0.067	0.27	0.0005	0.01	0.005	1121.347	901.0250	0.2907	194.7377	784.7637	1.4533	29.0653	14.5327
SW-7	29-Sep-03	Maxim	637.34	0.025	0.00005	0.005	0.29	0.001	0.023	0.01	40.210	2.6056	0.0052	0.5211	30.2250	0.1042	2.3972	1.0422
SW-7	06-Apr-04	Maxim		0.025	0.00005	0.003	0.46	0.0005	0.046	0.02								
SW-7	29-Jun-04	Maxim	39739.51	0.2	0.00005	0.037	0.34	0.0005	0.02	0.005	2507.174	1299.7190	0.3249	240.4480	2209.5222	3.2493	129.9719	32.4930
SW-7	06-Oct-04	Maxim	3514.35	0.08	0.00005	0.02	0.17	0.0005	0.038	0.005	221.721	45.9760	0.0287	11.4940	97.6991	0.2874	21.8386	2.8735
SW-7	06-Apr-05	Maxim	547.57	0.025	0.00005	0.001	0.47	0.0005	0.037	0.01	34.546	2.2386	0.0045	0.0895	42.0859	0.0448	3.3131	0.8954
SW-7	29-Jun-05	Maxim	36714.29	0.15	0.00005	0.026	0.2	0.0005	0.016	0.005	2316.312	900.5822	0.3002	156.1009	1200.7762	3.0019	96.0621	30.0194
SW-7	27-Sep-05	Maxim	1427.28	0.025	0.00005	0.015	0.18	0.0005	0.037	0.04	90.047	5.8351	0.0117	3.5010	42.0125	0.1167	8.6359	9.3361
SW-7	25-Apr-06	Maxim	915.61	0.11	0.00005	0.003	0.49	0.0005	0.051	0.005	57.766	16.4703	0.0075	0.4492	73.3677	0.0749	7.6362	0.7487
SW-7	27-Jun-06	Maxim	30798.71	0.14	0.00005	0.028	0.26	0.0005	0.02	0.005	1943.097	705.1111	0.2518	141.0222	1309.4920	2.5183	100.7302	25.1825
SW-7	27-Sep-06	Maxim	875.22	0.025	0.00005	0.003	0.13	0.0005	0.008	0.005	55.218	3.5781	0.0072	0.4294	18.6062	0.0716	1.1450	0.7156
SW-7	11-Apr-07	Tetra Tech	848.20	0.025	0.00005	0.002	0.19	0.0005	0.018	0.005	53.513	3.4676	0.0069	0.2774	26.3541	0.0694	2.4967	0.6935
SW-7	13-Jun-07	Tetra Tech	36353.80	0.25	0.00005	0.041	0.31	0.0005	0.012	0.005	2293.569	1486.2324	0.2972	243.7421	1842.9282	2.9725	71.3392	29.7246
SW-7	18-Sep-07	Tetra Tech	1126.50	0.11	0.00005	0.007	0.16	0.0005	0.024	0.005	71.071	20.2638	0.0092	1.2895	29.4746	0.0921	4.4212	0.9211
SW-7	**17-Apr-08**	Tetra Tech	278.26	0.025	0.00005	0.003	0.16	0.0020	0.022	0.005	17.555	1.1376	0.0023	0.1365	7.2805	0.0910	1.0011	0.2275
SW-7	**15-Jul-08**	Tetra Tech	32358.48	0.20	0.00005	0.036	0.30	0.0005	0.026	0.005	2041.503	1058.3151	0.2646	190.4967	1587.4727	2.6458	137.5810	26.4579
SW-7	**24-Sep-08**	Tetra Tech	1157.90	0.03	0.00005	0.009	0.19	0.0005	0.018	0.005	73.052	4.7338	0.0095	1.7042	35.9768	0.0947	3.4083	0.9468
Average all before Oct. 2003			**22237**	**0.24**	**0.00014**	**0.064**	**0.49**	**0.0020**	**0.04**	**0.02**	**1402.950**	**1327.880**	**0.449**	**312.592**	**2529.202**	**6.191**	**121.923**	**79.904**
Average all after Oct. 2003			**13333**	**0.09**	**0.00005**	**0.016**	**0.27**	**0.0006**	**0.03**	**0.01**	**841.153**	**396.690**	**0.109**	**70.799**	**608.789**	**1.095**	**42.113**	**11.517**
% Change			**-40**	**-60**	**-63**	**-76**	**-45**	**-70**	**-33**	**-61**	**-40**	**-70**	**-76**	**-77**	**-76**	**-82**	**-65**	**-86**
Avg high flow before 10/2003			**35965**	**0.38**	**0.00018**	**0.109**	**0.70**	**0.0031**	**0.04**	**0.02**	**2269.062**	**2371.083**	**0.906**	**559.579**	**4511.357**	**12.583**	**235.356**	**140.448**
Avg high flow after 10/2003			**35193**	**0.19**	**0.00005**	**0.034**	**0.28**	**0.0005**	**0.02**	**0.01**	**2220.331**	**1089.992**	**0.288**	**194.362**	**1630.038**	**2.878**	**107.137**	**28.775**
% Change			**-2**	**-51**	**-72**	**-69**	**-60**	**-84**	**-52**	**-79**	**-2**	**-54**	**-68**	**-65**	**-64**	**-77**	**-54**	**-80**
Avg low flow before Oct 2003			**1241**	**0.08**	**0.00010**	**0.015**	**0.25**	**0.0011**	**0.04**	**0.02**	**78.308**	**23.876**	**0.020**	**3.857**	**51.509**	**0.199**	**8.490**	**4.224**
Avg low flow post 10/03 (Apr&Sep)			**1188**	**0.05**	**0.00005**	**0.007**	**0.26**	**0.0007**	**0.03**	**0.01**	**74.943**	**11.522**	**0.010**	**2.152**	**41.429**	**0.105**	**5.988**	**1.929**
% Change			**-4**	**-39**	**-51**	**-57**	**4**	**-42**	**-24**	**-50**	**-4**	**-52**	**-51**	**-44**	**-20**	**-48**	**-29**	**-54**

Note: Concentrations below the practical quantitation limit (PQL) are shown as half the PQL

Table C-2
1989 To 2008 Surface Water Database (Fisher Creek)

Sample Station	Sample Date	Data Source	Flow (gpm)	Al (mg/l)	Cd (mg/l)	Copper (mg/l)	Iron (mg/l)	Lead (mg/l)	Mn (mg/l)	Zinc (mg/l)	Flow (L/s)	Aluminum (kg/month)	Cadmium (kg/month)	Copper (kg/month)	Iron (kg/month)	Lead (kg/month)	Manganese (kg/month)	Zinc (kg/month)
CFY-2	08/09/90	Hydrometrics	310	0.1	0.0005	0.05	0.12	0.005	0.04	0.01	19.539	5.064	0.025	2.532	6.077	0.253	2.026	0.506
CFY-2	06/05/91	Hydrometrics	41113	0.5	0.00005	0.03	0.83	0.002	0.03	0.005	2593.823	3361.595	0.336	201.696	5580.248	13.446	201.696	33.616
CFY-2	07/09/91	Hydrometrics	2110	0.05	0.0002	0.06	0.25		0.03	0.03	133.089	17.248	0.069	20.698	86.242		10.349	10.349
CFY-2	08/13/91	Hydrometrics	1077	0.1	0.0002	0.052	0.06	0.001	0.04	0.04	67.960	17.615	0.035	9.160	10.569	0.176	7.046	7.046
CFY-2	09/24/91	Hydrometrics	628	0.05	0.00005	0.017	0.015	0.001	0.01	0.01	39.644	5.138	0.005	1.747	1.541	0.103	1.028	1.028
CFY-2	07/23/93	Hydrometrics	7644	0.3	0.0001	0.11	0.42	0.001	0.05	0.015	482.236	374.987	0.125	137.495	524.981	1.250	62.498	18.749
CFY-2	09/21/93	Hydrometrics	1104	0.1	0.0002	0.06	0.17	0.001	0.09	0.028	69.659	18.056	0.036	10.833	30.695	0.181	16.250	5.056
CFY-2	06/15/94	Hydrometrics	17787	0.2	0.00005	0.05	0.2	0.001	0.03	0.012	1122.197	581.747	0.145	145.437	581.747	2.909	87.262	34.905
CFY-2	05/06/99	Maxim	41	0.05	0.00005	0.004	0.005	0.0005	0.0025	0.005	2.577	0.334	0.000	0.027	0.033	0.003	0.017	0.033
CFY-2	07/09/99	Maxim	9632	0.2	0.0001	0.09	0.23	0.0005	0.019	0.04	607.680	315.021	0.158	141.759	362.274	0.788	29.927	63.004
CFY-2	09/29/99	Maxim	930	0.05	0.0002	0.022	0.04	0.0005	0.017	0.04	58.644	7.600	0.030	3.344	6.080	0.076	2.584	6.080
CFY-2	04/13/00	Maxim	295	0.025	0.00005	0.008	0.025	0.0005	0.0025	0.01	18.632	1.207	0.002	0.386	1.207	0.024	0.121	0.483
CFY-2	07/08/00	Maxim	9223	0.2	0.00005	0.068	0.24	0.0005	0.035	0.02	581.911	301.663	0.075	102.565	361.995	0.754	52.791	30.166
CFY-2	09/22/00	Maxim		0.05	0.00005	0.004	0.01	0.0005	0.0015	0.005								
CFY-2	09/28/00	Maxim		0.05	0.00005	0.01	0.03	0.0005	0.004	0.005								
CFY-2	10/10/00	Maxim		0.05	0.00005	0.01	0.025	0.0015	0.0025	0.01								
CFY-2	10/19/00	Maxim		0.05	0.00005	0.008	0.025	0.0005	0.004	0.01								
CFY-2	04/21/01	Maxim	215	0.05	0.00005	0.005	0.005	0.0005	0.0015	0.01	13.592	1.762	0.002	0.176	0.176	0.018	0.053	0.352
CFY-2	06/26/01	Maxim	13761	0.05	0.0001	0.054	0.24	0.002	0.024	0.005	868.195	112.518	0.225	121.519	540.087	4.501	54.009	11.252
CFY-2	10/11/01	Maxim	220	0.05	0.00005	0.007	0.025	0.0005	0.0015	0.03	13.875	1.798	0.002	0.252	0.899	0.018	0.054	1.079
CFY-2	04/26/02	Maxim	126	0.05	0.00005	0.007	0.02	0.0005	0.005	0.03	7.929	1.028	0.001	0.144	0.411	0.010	0.103	0.617
CFY-2	07/01/02	Maxim	5835	0.3	0.00005	0.062	0.34	0.001	0.03	0.04	368.119	286.249	0.048	59.158	324.416	0.954	28.625	38.167
CFY-2	10/08/02	Maxim	12	0.05	0.0002	0.008	0.03	0.0005	0.0015	0.03	0.765	0.099	0.000	0.016	0.059	0.001	0.003	0.059
CFY-2	22-Apr-03	Maxim	1	0.025	0.00005	0.004	0.09	0.0005	0.0015	0.005	0.057	0.004	0.000	0.001	0.013	0.000	0.000	0.001
CFY-2	01-Jul-03	Maxim	1795	0.17	0.00005	0.04	0.19	0.0005	0.024	0.005	113.267	49.910	0.015	11.744	55.782	0.147	7.046	1.468
CFY-2	30-Sep-03	Maxim	6	0.025	0.00005	0.008	0.01	0.0005	0.0015	0.01	0.396	0.026	0.000	0.008	0.010	0.001	0.002	0.010
CFY-2	06-Apr-04	Maxim	20	0.025	0.00005	0.004	0.005	0.0005	0.0025	0.02	1.274	0.083	0.000	0.013	0.017	0.002	0.008	0.066
CFY-2	28-Jun-04	Maxim	1113	0.09	0.00005	0.035	0.13	0.0005	0.013	0.005	70.226	16.382	0.009	6.371	23.663	0.091	2.366	0.910
CFY-2	05-Oct-04	Maxim	1943	0.08	0.0001	0.02	0.04	0.0005	0.01	0.03	122.612	25.425	0.032	6.356	12.712	0.159	3.178	9.534
CFY-2	05-Apr-05	Maxim	242	0.025	0.00005	0.004	0.01	0.0005	0.0015	0.005	15.290	0.991	0.002	0.159	0.396	0.020	0.059	0.198
CFY-2	28-Jun-05	Maxim	26107	0.2	0.00005	0.045	0.2	0.001	0.021	0.02	1647.077	853.845	0.213	192.115	853.845	4.269	89.654	85.384
CFY-2	11-Oct-05	Maxim	346	0.025	0.00005	0.009	0.01	0.0005	0.0015	0.01	21.802	1.413	0.003	0.509	0.565	0.028	0.085	0.565
CFY-2	26-Apr-06	Maxim	413	0.025	0.00005	0.008	0.005	0.0005	0.0015	0.005	26.051	1.688	0.003	0.540	0.338	0.034	0.101	0.338
CFY-2	28-Jun-06	Maxim	15682	0.16	0.00005	0.045	0.17	0.0005	0.025	0.005	989.388	410.319	0.128	115.402	435.964	1.282	64.112	12.822
CFY-2	26-Sep-06	Maxim	390	0.025	0.00005	0.007	0.005	0.0005	0.0015	0.09	24.636	1.596	0.003	0.447	0.319	0.032	0.096	5.747
CFY-2	11-Apr-07	Tetra Tech	376	0.025	0.00005	0.005	0.005	0.0005	0.0015	0.005	23.697	1.536	0.003	0.31	0.31	0.031	0.09	0.31
CFY-2	12-Jun-07	Tetra Tech	19478	0.025	0.00005	0.040	0.130	0.0005	0.0100	0.005	1228.871	79.631	0.159	127.41	414.08	1.593	31.85	15.93
CFY-2	17-Sep-07	Tetra Tech	411	0.025	0.00005	0.008	0.010	0.0005	0.0015	0.005	25.911	1.679	0.003	0.54	0.67	0.034	0.10	0.34
CFY-2	**17-Apr-08**	Tetra Tech	332	0.025	0.00005	0.007	0.005	0.0005	0.0015	0.010	20.953	1.358	0.003	0.38	0.27	0.027	0.08	0.54
CFY-2	**14-Jul-08**	Tetra Tech	27139	0.060	0.00005	0.033	0.140	0.0005	0.0160	0.005	1712.201	266.281	0.222	146.45	621.32	2.219	71.01	22.19
CFY-2	**22-Sep-08**	Tetra Tech	752	0.025	0.00005	0.012	0.005	0.0005	0.0060	0.010	47.427	3.073	0.006	1.48	0.61	0.061	0.74	1.23
Average all before Oct. 2004			**4,792**	**0.1075**	**0.0001**	**0.0317**	**0.1350**	**0.0009**	**0.0184**	**0.0173**	**302.30**	**228.21**	**0.056**	**40.71**	**354.13**	**1.12**	**23.58**	**11.04**
Average all after Oct. 2004			**5,922**	**0.0541**	**0.0001**	**0.0181**	**0.0550**	**0.0005**	**0.0072**	**0.0150**	**373.61**	**104.08**	**0.049**	**37.41**	**147.82**	**0.62**	**16.47**	**9.76**
% Change			**24**	**-50**	**-46**	**-43**	**-59**	**-43**	**-61**	**-13**	**24**	**-54**	**-12**	**-8**	**-58**	**-45**	**-30**	**-12**
Avg high flow before 10/2004			**11,001**	**0.2060**	**0.0001**	**0.0599**	**0.3070**	**0.0010**	**0.0285**	**0.0177**	**694.07**	**541.73**	**0.121**	**94.84**	**844.14**	**2.76**	**53.66**	**24.26**
Avg high flow after 10/2004			**22,101**	**0.1113**	**0.0001**	**0.0408**	**0.1600**	**0.0006**	**0.0180**	**0.0088**	**1394.38**	**402.52**	**0.181**	**145.35**	**581.30**	**2.34**	**64.16**	**34.08**
% Change			**101**	**-46**	**-38**	**-32**	**-48**	**-38**	**-37**	**-51**	**101**	**-26**	**50**	**53**	**-31**	**-15**	**20**	**40**
Avg low flow before Oct 2004			**356**	**0.0528**	**0.0001**	**0.0160**	**0.0394**	**0.0009**	**0.0127**	**0.0171**	**22.47**	**4.27**	**0.010**	**2.05**	**4.13**	**0.06**	**2.09**	**1.60**
Avg low flow after Oct 2004			**578**	**0.0311**	**0.0001**	**0.0089**	**0.0106**	**0.0005**	**0.0029**	**0.0189**	**36.49**	**4.31**	**0.006**	**1.19**	**1.80**	**0.05**	**0.50**	**2.09**
% Change			**62**	**-41**	**-49**	**-44**	**-73**	**-44**	**-77**	**10**	**62**	**1**	**-35**	**-42**	**-56**	**-23**	**-76**	**30**
SW-3	08/02/89	Hydrometrics		0.05	0.0005	0.03	0.015	0.005	0.11	0.01								
SW-3	09/15/89	Hydrometrics	162	3.7	0.0005	1.04	5.58	0.005	1.24	0.18	10.194	97.765	0.013	27.480	147.440	0.132	32.765	4.756
SW-3	10/20/89	Hydrometrics	117	3.7	0.0005	0.85	5.59	0.005	1.23	0.17	7.362	70.608	0.010	16.221	106.676	0.095	23.472	3.244
SW-3	03/17/90	Hydrometrics	112	2.2	0.0005	0.61	3.27	0.005	1	0.15	7.079	40.369	0.009	11.193	60.002	0.092	18.349	2.752
SW-3	05/28/90	Hydrometrics	404	3	0.0004	0.593	3.3	0.003	0.49	0.11	25.485	198.173	0.026	39.172	217.990	0.198	32.368	7.266
SW-3	06/05/90	Hydrometrics	2581	2.1		0.51	2.9			0.06	162.822	886.272		215.238	1223.900			25.322
SW-3	06/06/90	Hydrometrics	2199								138.753							
SW-3	06/13/90	Hydrometrics	2038	1.8		0.43	0.04			0.04	128.558	599.803		143.286	13.329			13.329
SW-3	06/15/90	Hydrometrics	1526								96.277							
SW-3	06/20/90	Hydrometrics	2760	1.8	0.002	0.49	2.26	0.005	0.23	0.05	174.149	812.508	0.903	221.183	1020.149	2.257	103.820	22.570

Table C-2
1989 To 2008 Surface Water Database (Fisher Creek)

Sample Station	Sample Date	Data Source	Flow (gpm)	Al (mg/l)	Cd (mg/l)	Copper (mg/l)	Iron (mg/l)	Lead (mg/l)	Mn (mg/l)	Zinc (mg/l)	Flow (L/s)	Aluminum (kg/month)	Cadmium (kg/month)	Copper (kg/month)	Iron (kg/month)	Lead (kg/month)	Manganese (kg/month)	Zinc (kg/month)
SW-3	06/22/90	Hydrometrics	5925								373.782							
SW-3	06/27/90	Hydrometrics	8030	1.7	0.0001	0.419	5.89	0.004	0.16	0.04	506.588	2232.231	0.131	550.179	7734.025	5.252	210.092	52.523
SW-3	06/28/90	Hydrometrics	7294								460.149							
SW-3	07/03/90	Hydrometrics	6688	1.6	0.0005	0.486	4.3	0.005	0.19	0.04	421.921	1749.791	0.547	531.499	4702.563	5.468	207.788	43.745
SW-3	07/05/90	Hydrometrics	4372								275.806							
SW-3	07/10/90	Hydrometrics	1750	1.7	0.0005	0.59	3.18	0.005	0.27	0.08	110.436	486.624	0.143	168.887	910.273	1.431	77.287	22.900
SW-3	07/12/90	Hydrometrics	1436								90.614							
SW-3	07/17/90	Hydrometrics	1032	2		0.8	3.79			0.07	65.129	337.627		135.051	639.804			11.817
SW-3	07/19/90	Hydrometrics	1032								65.129							
SW-3	07/26/90	Hydrometrics	718	2.6	0.0004	0.99	5.66	0.003	0.56	0.22	45.307	305.333	0.047	116.261	664.686	0.352	65.764	25.836
SW-3	08/23/90	Hydrometrics	269								16.990							
SW-3	09/25/90	Hydrometrics	180	3.3	0.0009	0.96	6.98	0.007	1.29	0.16	11.327	96.884	0.026	28.185	204.925	0.206	37.873	4.697
SW-3	03/15/91	Hydrometrics	90	2.7	0.0005	0.72	2.79	0.005	0.89	0.15	5.663	39.635	0.007	10.569	40.956	0.073	13.065	2.202
SW-3	06/05/91	Hydrometrics	3142	1.1	0.0001	0.39	3.78	0.002	0.16	0.03	198.218	565.159	0.051	200.375	1942.092	1.028	82.205	15.413
SW-3	07/09/91	Hydrometrics	1346	1.46	0.0018	0.65	4.32	0.002	0.29	0.05	84.951	321.480	0.396	143.125	951.229	0.440	63.856	11.010
SW-3	08/14/91	Hydrometrics	224	2.9	0.0007	0.95	5.93	0.004	0.93	0.14	14.158	106.426	0.026	34.864	217.623	0.147	34.130	5.138
SW-3	09/24/91	Hydrometrics	90	4.3	0.0022	0.95	5.51	0.006	1.26	0.16	5.663	63.122	0.032	13.945	80.884	0.088	18.496	2.349
SW-3	07/23/93	Hydrometrics	1059	3.3	0.0004	1.1	6.62	0.001	0.56	0.13	66.828	571.618	0.069	190.539	1146.700	0.173	97.002	22.518
SW-3	09/21/93	Hydrometrics	171	3.8	0.001	1.1	11.6	0.009	1.67	0.17	10.760	105.986	0.028	30.680	323.535	0.251	46.578	4.741
SW-3	06/14/94	Hydrometrics	2433	2.6	0.0003	0.54	5	0.007	0.29	0.058	153.477	1034.314	0.119	214.819	1989.066	2.785	115.366	23.073
SW-3	07/14/95	Hydrometrics	3272	2.5	0.0004	0.766	3.32	0.008	0.41	0.076	206.430	1337.665	0.214	409.861	1776.420	4.281	219.377	40.665
SW-3	09/27/95	Hydrometrics	139	4.8	0.0009	1.53	11	0.008	1.66	0.231	8.778	109.215	0.020	34.812	250.285	0.182	37.770	5.256
SW-3	05/21/96	Hydrometrics		4.3	0.001	0.92	4.8	0.006	0.891	0.22								
SW-3	06/12/96	Hydrometrics	4057			0.417	2.73			0.08	255.984			276.684	1811.386			53.081
SW-3	06/20/96	Hydrometrics	3499	1.6	0.0002	0.395	1.72	0.0015	0.167	0.03	220.730	915.411	0.114	225.992	984.067	0.858	95.546	17.164
SW-3	06/26/96	Hydrometrics	5678			0.381	3.25			0.04	358.208			353.749	3017.545			37.139
SW-3	07/02/96	Hydrometrics	7136			0.374	6.88			0.08	450.238			436.464	8029.075			93.361
SW-3	07/11/96	Hydrometrics	4120	1.3	0.0001	0.448	1.93	0.0015	0.163	0.04	259.949	875.923	0.067	301.857	1300.409	1.011	109.827	26.951
SW-3	07/18/96	Hydrometrics	2533			0.646	2.84			0.04	159.820			267.608	1176.482			16.570
SW-3	07/25/96	Hydrometrics	3037			0.803	3.83			0.09	191.620			398.834	1902.282			44.701
SW-3	08/21/96	Hydrometrics	1145			0.98	6.46			0.15	72.265			183.564	1210.022			28.096
SW-3	09/11/96	Hydrometrics	171	3.5	0.0009	1.04	6.91	0.008	1.32	0.18	10.760	97.618	0.025	29.007	192.727	0.223	36.816	5.020
SW-3	07/08/97	UOS Data	4867	1.81	0.0025	0.411	2.6		0.165	0.0368	307.039							
SW-3	03/27/98	UOS Data	76	3.15		0.691	7.35		1.31	0.177	4.814	39.304		8.622	91.710		16.346	2.209
SW-3	04/23/98	UOS Data	50	3.08		0.745	6.92		1.26	0.177	3.171	25.319		6.124	56.886		10.358	1.455
SW-3	05/05/98	UOS Data	97	2.51		0.535	3.03		0.502	0.0965	6.145	39.977		8.521	48.259		7.995	1.537
SW-3	05/13/98	UOS Data	2147	2.26		0.443	2.82		0.348	0.0689	135.439	793.394		155.519	989.987		122.169	24.188
SW-3	05/29/98	UOS Data	975	1.77		0.361	2.71		0.231	0.0547	61.504	282.171		57.550	432.025		36.826	8.720
SW-3	05/06/99	Maxim	101	3.9	0.0011	0.9	7.49	0.007	1.35	0.29	6.354	64.234	0.018	14.823	123.363	0.115	22.235	4.776
SW-3	07/09/99	Maxim	3380	1.5	0.0002	0.41	1.85	0.002	0.162	0.06	213.226	829.022	0.111	226.599	1022.461	1.105	89.534	33.161
SW-3	09/30/99	Maxim	137	3.1	0.0005	1	7.03	0.002	1.3	0.18	8.665	69.625	0.011	22.460	157.891	0.045	29.197	4.043
SW-3	04/13/00	Maxim	25	3.2	0.0014	0.86	6.2	0.008	1.32	0.01	1.557	12.918	0.006	3.472	25.028	0.032	5.329	0.040
SW-3	05/18/00	Maxim	420			0.58				0.11	26.476			39.803				7.549
SW-3	05/18/00	Maxim	358			0.62				0.12	22.569			36.269				7.020
SW-3	05/18/00	Maxim	467	2.5	0.0004	0.6	3.19	0.003	0.56	0.12	29.450	190.833	0.031	45.800	243.503	0.229	42.747	9.160
SW-3	05/18/00	Maxim	363			0.63				0.12	22.908			37.408				7.125
SW-3	06/18/00	Maxim	3223	1.8	0.0002	0.43	2.67	0.003	0.18	0.04	203.315	948.586	0.105	226.607	1407.070	1.581	94.859	21.080
SW-3	06/18/00	Maxim	2859			0.46				0.05	180.378			215.069				23.377
SW-3	06/18/00	Maxim	2801			0.44				0.05	176.697			201.520				22.900
SW-3	06/18/00	Maxim	2478			0.44				0.06	156.309			178.267				24.309
SW-3	07/08/00	Maxim	1355			0.82				0.07	85.517			181.761				15.516
SW-3	07/08/00	Maxim	1360	2	0.00005	0.67	3.11	0.002	0.37	0.06	85.800	444.787	0.011	149.004	691.645	0.445	82.286	13.344
SW-3	07/08/00	Maxim	1418			0.77				0.07	89.481			178.590				16.235
SW-3	07/08/00	Maxim	1481			0.74				0.07	93.446			179.236				16.955
SW-3	08/16/00	Maxim	220	2.8	0.0011	0.95	5.21	0.007	1.06	0.15								
SW-3	09/01/00	Maxim	171	2.8	0.0006	0.82	7.38	0.005	1.11	0.16								
SW-3	09/17/00	Maxim	98	3.1		0.76	22	0.003	1.5	0.15								
SW-3	10/19/00	Maxim		2.9	0.00005	0.67	7.84	0.007	1.29	0.39								

Table C-2
1989 To 2008 Surface Water Database (Fisher Creek)

Sample Station	Sample Date	Data Source	Flow (gpm)	Al (mg/l)	Cd (mg/l)	Copper (mg/l)	Iron (mg/l)	Lead (mg/l)	Mn (mg/l)	Zinc (mg/l)	Flow (L/s)	Aluminum (kg/month)	Cadmium (kg/month)	Copper (kg/month)	Iron (kg/month)	Lead (kg/month)	Manganese (kg/month)	Zinc (kg/month)
SW-3	12/06/00	Maxim		3	0.001	0.72	6.44	0.007	1.25	0.18								
SW-3	04/21/01	Maxim	46	2.6	0.001	0.74	6.21	0.006	1.12	0.12	2.917	19.656	0.008	5.594	46.947	0.045	8.467	0.907
SW-3	06/11/01	Maxim		1.7	0.00005	0.48	1.92	0.0015	0.2	0.05								
SW-3	06/26/01	Maxim	1889	2.5	0.0003	0.53	6.53	0.007	0.31	0.06	119.157	772.139	0.093	163.694	2016.828	2.162	95.745	18.531
SW-3	08/31/01	Maxim	130	2.7	0.0056	0.84	10.1	0.012	1.17	0.15	8.212	57.470	0.119	17.880	214.981	0.255	24.904	3.193
SW-3	10/11/01	Maxim	121	2.4	0.0011	0.67	5.79	0.004	0.87	0.15	7.646	47.561	0.022	13.278	114.742	0.079	17.241	2.973
SW-3	04/26/02	Maxim	166	3.1	0.001	0.83	7.1	0.006	1.28	0.18	10.477	84.187	0.027	22.540	192.815	0.163	34.761	4.888
SW-3	07/01/02	Maxim	3411	1.7	0.0003	0.54	4.31	0.003	0.3	0.08	215.208	948.293	0.167	301.222	2404.201	1.673	167.346	44.626
SW-3	10/08/02	Maxim	130	3.6	0.001	0.85	10.6	0.009	1.48	0.71	8.212	76.627	0.021	18.092	225.623	0.192	31.502	15.112
SW-3	23-Apr-03	Maxim	22	2.51	0.0012	0.83	6.92	0.008	1.3	0.26	1.416	9.211	0.004	3.046	25.395	0.029	4.771	0.954
SW-3	01-Jul-03	Maxim	2949	1.62	0.0002	0.45	2.32	0.002	0.29	0.02	186.042	781.197	0.096	216.999	1118.751	0.964	139.844	9.644
SW-3	31-Jul-03	Maxim		2.83	0.0005	1.04	5.38	0.005	0.78	0.14								
SW-3	14-Aug-03	Maxim		3.1	0.0005	1.15	6.13	0.01	1.31	0.13								
SW-3	21-Aug-03	Maxim		3	0.0009	1.06	10.9	0.009	1.5	0.14								
SW-3	22-Aug-03	Maxim		3.1	0.0009	0.94	8.58	0.013	1.48	0.19								
SW-3	30-Sep-03	Maxim	116	2.86	0.0008	0.8	10.5	0.009	1.74	0.21	7.306	54.158	0.015	15.149	198.833	0.170	32.950	3.977
SW-3	05-Apr-04	Maxim	61	2.2	0.0008	0.7	2.34	0.004	0.9	0.18	3.851	21.960	0.008	6.987	23.358	0.040	8.984	1.797
SW-3	28-Jun-04	Maxim	4183	2.27	0.0002	0.37	3.84	0.005	0.18	0.05	263.913	1552.822	0.137	253.103	2626.800	3.420	123.131	34.203
SW-3	05-Oct-04	Maxim	157	1.52	0.0005	0.6	0.87	0.002	0.29	0.08	9.911	39.047	0.013	15.413	22.349	0.051	7.450	2.055
SW-3	05-Apr-05	Maxim	36	1.75	0.0009	0.8	0.9	0.002	0.49	0.18	2.265	10.276	0.005	4.697	5.285	0.012	2.877	1.057
SW-3	28-Jun-05	Maxim	3649	1.49	0.0001	0.36	1.14	0.002	0.14	0.04	230.215	889.110	0.060	214.819	680.259	1.193	83.541	23.869
SW-3	29-Aug-05	Maxim	171	1.36	0.0006	0.59	1.36	0.002	0.42	0.13	10.760	37.932	0.017	16.456	37.932	0.056	11.714	3.626
SW-3	11-Oct-05	Maxim	139	2.31	0.0007	0.73	0.9	0.002	0.52	0.12	8.778	52.560	0.016	16.610	20.478	0.046	11.832	2.730
SW-3	26-Apr-06	Maxim	31	2.61	0.0009	0.87	1.1	0.001	0.54	0.15	1.982	13.410	0.005	4.470	5.652	0.005	2.774	0.771
SW-3	28-Jun-06	Maxim	2451	1.74	0.0001	0.39	1.52	0.002	0.18	0.02	154.610	697.302	0.040	156.292	609.137	0.801	72.135	8.015
SW-3	26-Sep-06	Maxim	72	2.81	0.0008	0.79	1.89	0.002	0.59	0.14	4.531	32.999	0.009	9.277	22.195	0.023	6.929	1.644
SW-3	09-Apr-07	Tetra Tech	29	2.14	0.001	0.75	0.87	0.001	0.45	0.14	1.840	10.208	0.005	3.578	4.150	0.005	2.147	0.668
SW-3	12-Jun-07	Tetra Tech	3115	1.72	0.0002	0.32	2.46	0.002	0.13	0.01	196.505	876.067	0.102	162.989	1252.980	1.019	66.214	5.093
SW-3	17-Sep-07	Tetra Tech	63	2.51	0.0008	0.84	1.26	0.002	0.57	0.12	3.964	25.789	0.008	8.631	12.946	0.021	5.857	1.233
SW-3	**17-Apr-08**	Tetra Tech	38.24	2.13	0.0011	0.97	1.01	0.001	0.54	0.14	2.412	13.319	0.007	6.065	6.316	0.006	3.377	0.875
SW-3	**14-Jul-08**	Tetra Tech	3666.70	0.74	0.0001	0.21	0.72	0.001	0.1	0.02	231.333	443.714	0.060	125.919	431.722	0.600	59.961	11.992
SW-3	**22-Sep-08**	Tetra Tech	166.06	2.95	0.0007	0.67	1.69	0.002	0.58	0.11	10.477	80.108	0.019	18.194	45.892	0.054	15.750	2.987
Average all before Oct. 2004			**1,794**	**2.58**	**0.0008**	**0.69**	**5.35**	**0.005**	**0.82**	**0.12**	**117.338**	**444.460**	**0.096**	**141.104**	**1080.137**	**0.947**	**64.450**	**16.934**
Average all after Oct. 2004			**985**	**1.98**	**0.0006**	**0.64**	**1.26**	**0.002**	**0.40**	**0.10**	**62.113**	**230.131**	**0.026**	**54.529**	**225.521**	**0.278**	**25.183**	**4.758**
% Change			**-45**	**-23**	**-23**	**-9**	**-76**	**-68**	**-51**	**-18**	**-47**	**-48**	**-73**	**-61**	**-79**	**-71**	**-61**	**-72**
Avg high flow before 10/2004			**3,130**	**1.96**	**0.0005**	**0.57**	**3.63**	**0.004**	**0.29**	**0.06**	**197.498**	**877.664**	**0.185**	**247.672**	**2008.268**	**1.931**	**117.930**	**27.684**
Avg high flow after 10/2004			**3,220**	**1.42**	**0.0001**	**0.32**	**1.46**	**0.002**	**0.14**	**0.02**	**203.166**	**726.548**	**0.065**	**165.005**	**743.524**	**0.903**	**70.463**	**12.242**
% Change			**3**	**-27**	**-76**	**-44**	**-60**	**-51**	**-53**	**-65**	**3**	**-17**	**-65**	**-33**	**-63**	**-53**	**-40**	**-56**
Avg low flow before Oct 2004			**271**	**2.99**	**0.0010**	**0.80**	**6.68**	**0.007**	**1.12**	**0.17**	**17.745**	**104.086**	**0.022**	**31.207**	**216.014**	**0.134**	**28.159**	**5.848**
Avg low flow after Oct 2004			**90**	**2.21**	**0.0008**	**0.76**	**1.19**	**0.002**	**0.50**	**0.13**	**5.692**	**31.565**	**0.010**	**10.339**	**18.319**	**0.028**	**7.071**	**1.765**
% Change			**-67**	**-26**	**-19**	**-5**	**-82**	**-74**	**-55**	**-23**	**-68**	**-70**	**-54**	**-67**	**-92**	**-79**	**-75**	**-70**
SW-4	08/02/89	Hydrometrics		0.05	0.0005	0.03	0.015	0.005	0.11	0.01								
SW-4	09/15/89	Hydrometrics	606	0.2	0.0005	0.09	0.09	0.005	0.07	0.07	38.228	19.817	0.050	8.918	8.918	0.495	6.936	6.936
SW-4		Hydrometrics	534	0.1	0.0005	0.07	0.04	0.005	0.06	0.05	33.697	8.734	0.044	6.114	3.494	0.437	5.241	4.367
SW-4	03/17/90	Hydrometrics	449	0.05	0.0005	0.04	0.015	0.005	0.01	0.07	28.317							
SW-4	05/29/90	Hydrometrics	6912	0.8	0.00005	0.116	0.71	0.001	0.05	0.03	436.079	904.254	0.057	131.117	802.526	1.130	56.516	33.910
SW-4	06/05/90	Hydrometrics	12495	0.3		0.08	0.42			0.02	788.341	613.014		163.470	858.220			40.868
SW-4	06/13/90	Hydrometrics	13793	0.2		0.06	0.21			0.02	870.177	451.100		135.330	473.655			45.110
SW-4	06/15/90	Hydrometrics	9829								620.139							
SW-4	06/20/90	Hydrometrics	21302	0.3	0.0005	0.08	0.39	0.005	0.04	0.41	1343.918	1045.030	1.742	278.675	1358.540	17.417	139.337	1428.208
SW-4	06/22/90	Hydrometrics	39856								2514.536							
SW-4	06/26/90	Hydrometrics	50449	0.5	0.0002	0.087	1.02	0.001	0.05	0.02	3182.814	4124.927	1.650	717.737	8414.851	8.250	412.493	164.997
SW-4	06/28/90	Hydrometrics	45049								2842.162							
SW-4	07/03/90	Hydrometrics	37657	0.4	0.002	0.08	0.65	0.01	0.04	0.02	2375.784	2463.213	12.316	492.643	4002.720	61.580	246.321	123.161
SW-4	07/05/90	Hydrometrics	22172								1398.852							
SW-4	07/06/90	Hydrometrics																
SW-4	07/07/90	Hydrometrics																
SW-4	07/08/90	Hydrometrics																
SW-4	07/10/90	Hydrometrics	13734	0.3	0.0005	0.09	0.43	0.005	0.05	0.03	866.496	673.787	1.123	202.136	965.761	11.230	112.298	67.379

Table C-2
1989 To 2008 Surface Water Database (Fisher Creek)

Sample Station	Sample Date	Data Source	Flow (gpm)	Al (mg/l)	Cd (mg/l)	Copper (mg/l)	Iron (mg/l)	Lead (mg/l)	Mn (mg/l)	Zinc (mg/l)	Flow (L/s)	Aluminum (kg/month)	Cadmium (kg/month)	Copper (kg/month)	Iron (kg/month)	Lead (kg/month)	Manganese (kg/month)	Zinc (kg/month)
SW-4	07/11/90	Hydrometrics																
SW-4	07/12/90	Hydrometrics	11221								707.921							
SW-4	07/13/90	Hydrometrics																
SW-4	07/14/90	Hydrometrics																
SW-4	07/15/90	Hydrometrics																
SW-4	07/16/90	Hydrometrics																
SW-4	07/17/90	Hydrometrics	6463	0.4		0.14	0.49			0.03	407.763	422.768		147.969	517.891			31.708
SW-4	07/18/90	Hydrometrics																
SW-4	07/19/90	Hydrometrics	5251								331.307							
SW-4	07/20/90	Hydrometrics																
SW-4	07/21/90	Hydrometrics																
SW-4	07/22/90	Hydrometrics																
SW-4	07/23/90	Hydrometrics																
SW-4	07/24/90	Hydrometrics																
SW-4	07/25/90	Hydrometrics																
SW-4	07/26/90	Hydrometrics																
SW-4	07/27/90	Hydrometrics	3187	0.3	0.0004	0.16	0.44	0.001	0.1	1.95	201.050	156.336	0.208	83.379	229.293	0.521	52.112	1016.185
SW-4	08/14/90	Hydrometrics	1167								73.624							
SW-4	08/15/90	Hydrometrics	1391								87.782							
SW-4	08/23/90	Hydrometrics	1436								90.614							
SW-4	09/25/90	Hydrometrics	673	0.3	0.0003	0.11	0.21	0.001	0.13	0.05	42.475	33.029	0.033	12.111	23.120	0.110	14.312	5.505
SW-4	03/15/91	Hydrometrics	359	0.05	0.001	0.06	0.015	0.005	0.01	0.07	22.653	2.936	0.059	3.523	0.881	0.294	0.587	4.110
SW-4	06/05/91	Hydrometrics	24820	0.1	0.00005	0.025	0.335	0.001	0.015	0.005	1565.922	405.887	0.203	101.472	1359.721	4.059	60.883	20.294
SW-4	07/09/91	Hydrometrics	9425	0.05	0.0002	0.1	0.38	0	0.05	0.03	594.654	77.067	0.308	154.134	585.710		77.067	46.240
SW-4	08/14/91	Hydrometrics	763	0.4	0.0002	0.15	0.21	0.001	0.12	0.07	48.139	49.910	0.025	18.716	26.203	0.125	14.973	8.734
SW-4	09/24/91	Hydrometrics	494	0.3	0.0006	0.11	0.24	0.001	0.08	0.04	31.149	24.221	0.048	8.881	19.377	0.081	6.459	3.229
SW-4	05/27/92	Hydrometrics	34910	0.2	0.00005	0.051	0.31	0.001	0.03	0.02	2202.485	1141.768	0.285	291.151	1769.740	5.709	171.265	114.177
SW-4	07/19/92	Hydrometrics	6732	1.7	0.0002	0.29	3.55	0.001	0.16	0.075	424.753	1871.631	0.220	319.278	3908.405	1.101	176.153	82.572
SW-4	09/23/92	Hydrometrics	875	0.3	0.0004	0.117	0.17	0.001	0.13	0.05	55.218	42.937	0.057	16.746	24.331	0.143	18.606	7.156
SW-4	07/21/93	Hydrometrics	8941	0.3	0.0001	0.146	0.65	0.001	0.09	0.04	564.072	438.622	0.146	213.463	950.348	1.462	131.587	58.483
SW-4	09/21/93	Hydrometrics	889	0.2	0.0002	0.1	0.32	0.001	0.16	0.038	56.067	29.065	0.029	14.533	46.505	0.145	23.252	5.522
SW-4	03/02/94	Hydrometrics	180	0.05	0.0005	0.06	0.015	0.001	0.005	0.07	11.327	1.468	0.015	1.762	0.440	0.029	0.147	2.055
SW-4	05/26/94	Hydrometrics	33766	0.8	0.0001	0.11	2.25	0.003	0.06	0.018	2130.277	4417.342	0.552	607.384	12423.773	16.565	331.301	99.390
SW-4	06/15/94	Hydrometrics	15166	0.5	0.0001	0.07	0.55	0.001	0.05	0.021	956.826	1240.047	0.248	173.607	1364.052	2.480	124.005	52.082
SW-4	07/14/95	Hydrometrics	19632	0.5	0.0001	0.118	0.8	0.001	0.07	0.013	1238.579	1605.198	0.321	378.827	2568.317	3.210	224.728	41.735
SW-4	09/27/95	Hydrometrics	601	0.2	0.0003	0.173	0.09	0.001	0.12	0.04	37.945	19.670	0.030	17.015	8.852	0.098	11.802	3.934
SW-4	05/21/96	Hydrometrics		0.2	0.0001	0.063	0.18	0.0015	0.03	0.025								
SW-4	05/29/96	Hydrometrics		0.4	0.00005	0.086	0.44	0.0015	0.05	0.025								
SW-4	06/05/96	Hydrometrics		1.1	0.0001	0.139	3.17	0.005	0.067	0.015								
SW-4	06/12/96	Hydrometrics	15126			0.055	0.62			0.05	954.278			136.042	1533.563			123.674
SW-4	06/19/96	Hydrometrics	32386	0.2	0.0001	0.066	0.35	0.0015	0.031	0.005	2043.259	1059.225	0.530	349.544	1853.645	7.944	164.180	26.481
SW-4	06/26/96	Hydrometrics				0.066	1.14			0.02								
SW-4	07/02/96	Hydrometrics				0.11	2.17			0.08								
SW-4	07/11/96	Hydrometrics	24614	0.2	0.00005	0.07	0.245	0.0015	0.033	0.02	1552.896	805.021	0.201	281.757	986.151	6.038	132.829	80.502
SW-4	07/18/96	Hydrometrics	11858			0.105	0.34			0.015	748.131			203.611	659.313			29.087
SW-4	07/25/96	Hydrometrics	8941			0.129	0.4			0.03	564.072			188.608	584.829			43.862
SW-4	08/21/96	Hydrometrics	1937			0.17	0.31			0.05	122.187			53.841	98.180			15.835
SW-4	09/11/96	Hydrometrics	655	0.4	0.0003	0.154	0.17	0.0015	0.15	0.06	41.343	42.864	0.032	16.503	18.217	0.161	16.074	6.430
SW-4	03/27/98	UOS Data	310								19.539							
SW-4	04/22/98	UOS Data	259								16.367							
SW-4	05/05/98	UOS Data																
SW-4	05/13/98	UOS Data	2147								135.439							
SW-4	05/06/99	Maxim	189	0.05	0.0004	0.06	0.03	0.0005	0.021	0.05	11.893	1.541	0.012	1.850	0.925	0.015	0.647	1.541
SW-4	07/09/99	Maxim	20514	0.3	0.0001	0.08	0.29	0.0005	0.027	0.03	1294.250	1006.409	0.335	268.376	972.862	1.677	90.577	100.641
SW-4	09/30/99	Maxim	655	0.05	0.0003	0.07	0.03	0.0005	0.072	0.06	41.343	5.358	0.032	7.501	3.215	0.054	7.716	6.430
SW-4	04/13/00	Maxim	376	0.025	0.0004	0.064	0.025	0.0005	0.014	0.01	23.701	1.536	0.025	3.932	1.536	0.031	0.860	0.614
SW-4	07/08/00	Maxim	6948	0.3	0.00005	0.12	0.38	0.0005	0.064	0.03	438.345	340.857	0.057	136.343	431.752	0.568	72.716	34.086
SW-4	10/19/00	Maxim	624	0.05	0.00005	0.057	0.07	0.0005	0.058	0.04	39.360	5.101	0.005	5.815	7.142	0.051	5.917	4.081
SW-4	04/21/01	Maxim	278	0.05	0.0003	0.038	0.03	0.0005	0.008	0.08	17.556	2.275	0.014	1.729	1.365	0.023	0.364	3.641
SW-4	06/26/01	Maxim	10700	0.3	0.0002	0.089	0.43	0.001	0.048	0.02	675.074	524.937	0.350	155.731	752.410	1.750	83.990	34.996

Table C-2
1989 To 2008 Surface Water Database (Fisher Creek)

Sample Station	Sample Date	Data Source	Flow (gpm)	Al (mg/l)	Cd (mg/l)	Copper (mg/l)	Iron (mg/l)	Lead (mg/l)	Mn (mg/l)	Zinc (mg/l)	Flow (L/s)	Aluminum (kg/month)	Cadmium (kg/month)	Copper (kg/month)	Iron (kg/month)	Lead (kg/month)	Manganese (kg/month)	Zinc (kg/month)
SW-4	10/11/01	Maxim	274	0.2	0.0003	0.058	0.11	0.0005	0.009	0.09	17.273	8.954	0.013	2.597	4.925	0.022	0.403	4.030
SW-4	04/26/02	Maxim		0.05	0.0003	0.03	0.005	0.0005	0.006	0.04								
SW-4	07/01/02	Maxim	21095	0.3	0.00005	0.1	0.5	0.0005	0.051	0.02	1330.892	1034.902	0.172	344.967	1724.836	1.725	175.933	68.993
SW-4	10/08/02	Maxim	857	0.1	0.0004	0.085	0.13	0.0005	0.088	0.07	54.085	14.019	0.056	11.916	18.225	0.070	12.337	9.813
SW-4	23-Apr-03	Maxim		0.025	0.0003	0.049	0.1	0.0005	0.013	0.08								
SW-4	01-Jul-03	Maxim	18312	0.25	0.00005	0.07	0.29	0.0005	0.044	0.005	1155.327	748.652	0.150	209.623	868.437	1.497	131.763	14.973
SW-4	30-Sep-03	Maxim	405	0.025	0.0002	0.079	0.02	0.0005	0.055	0.13	25.570	1.657	0.013	5.236	1.326	0.033	3.645	8.616
SW-4	05-Apr-04	Maxim	352	0.025	0.0002	0.04	0.02	0.0005	0.005	0.1	22.200	1.439	0.012	2.302	1.151	0.029	0.288	5.754
SW-4	28-Jun-04	Maxim	31827	0.8	0.00005	0.11	1.48	0.003	0.045	0.05	2007.948	4163.681	0.260	572.506	7702.809	15.614	234.207	260.230
SW-4	05-Oct-04	Maxim	1441	0.12	0.0002	0.05	0.06	0.0005	0.029	0.02	90.897	28.273	0.047	11.780	14.136	0.118	6.833	4.712
SW-4	05-Apr-05	Maxim	314	0.025	0.0002	0.033	0.01	0.0005	0.008	0.08	19.822	1.284	0.010	1.695	0.514	0.026	0.411	4.110
SW-4	28-Jun-05	Maxim	22819	0.25	0.00005	0.063	0.2	0.0005	0.028	0.02	1439.625	932.877	0.187	235.085	746.302	1.866	104.482	74.630
SW-4	11-Oct-05	Maxim	727	0.025	0.0002	0.05	0.16	0.0005	0.005	0.03	45.873	2.973	0.024	5.945	19.025	0.059	0.595	3.567
SW-4	26-Apr-06	Maxim	278	0.025	0.0002	0.043	0.02	0.0005	0.005	0.04	17.556	1.138	0.009	1.957	0.910	0.023	0.228	1.820
SW-4	28-Jun-06	Maxim	14856	0.19	0.00005	0.064	0.21	0.0005	0.034	0.005	937.285	461.594	0.121	155.484	510.183	1.215	82.601	12.147
SW-4	26-Sep-06	Maxim	296	0.08	0.0002	0.034	0.01	0.0005	0.026	0.18	18.689	3.875	0.010	1.647	0.484	0.024	1.259	8.720
SW-4	11-Apr-07	Tetra Tech	376	0.025	0.00005	0.005	0.005	0.0005	0.002	0.005	23.697	1.536	0.003	0.307	0.307	0.031	0.092	0.307
SW-4	12-Jun-07	Tetra Tech	19478	0.025	0.00005	0.040	0.130	0.0005	0.010	0.005	1228.871	79.631	0.159	127.409	414.080	1.593	31.852	15.926
SW-4	17-Sep-07	Tetra Tech	411	0.025	0.00005	0.008	0.010	0.0005	0.002	0.005	25.911	1.679	0.003	0.537	0.672	0.034	0.101	0.336
SW-4	**17-Apr-08**	Tetra Tech	201	0.025	0.00020	0.044	0.020	0.0005	0.011	0.005	12.685	0.822	0.007	1.447	0.658	0.016	0.362	0.164
SW-4	**14-Jul-08**	Tetra Tech	20887	0.130	0.00005	0.049	0.180	0.0005	0.022	0.030	1317.775	444.037	0.171	167.368	614.821	1.708	75.145	102.470
SW-4	**22-Sep-08**	Tetra Tech	656	0.110	0.00020	0.065	0.020	0.0005	0.046	0.040	41.396	11.803	0.021	6.974	2.146	0.054	4.936	4.292
Average all before Oct. 2004			**10,884**	**0.29**	**0.00029**	**0.092**	**0.491**	**0.0018**	**0.058**	**0.081**	**686.685**	**712.271**	**0.525**	**156.335**	**1243.724**	**4.243**	**84.591**	**89.844**
Average all after Oct. 2004			**6,365**	**0.08**	**0.00013**	**0.042**	**0.080**	**0.0005**	**0.017**	**0.036**	**401.545**	**151.655**	**0.059**	**55.203**	**178.787**	**0.520**	**23.761**	**17.939**
% Change			**-42**	**-72**	**-56**	**-54**	**-84**	**-72**	**-70**	**-56**	**-42**	**-79**	**-89**	**-65**	**-86**	**-88**	**-72**	**-80**
Avg high flow before 10/2004			**18,793**	**0.45**	**0.00023**	**0.102**	**0.823**	**0.0020**	**0.056**	**0.102**	**1185.663**	**1274.746**	**1.007**	**264.731**	**2179.792**	**8.291**	**153.857**	**154.439**
Avg high flow after 10/2004			**19,510**	**0.15**	**0.00005**	**0.054**	**0.180**	**0.0005**	**0.024**	**0.015**	**1230.889**	**479.535**	**0.160**	**171.337**	**571.346**	**1.595**	**73.520**	**51.293**
% Change			**4**	**-67**	**-78**	**-47**	**-78**	**-75**	**-58**	**-85**	**4**	**-62**	**-84**	**-35**	**-74**	**-81**	**-52**	**-67**
Avg low flow before Oct 2004			**705**	**0.14**	**0.00036**	**0.08**	**0.10**	**0.0016**	**0.06**	**0.06**	**44.47**	**15.83**	**0.03**	**10.55**	**15.16**	**0.12**	**7.53**	**5.63**
Avg low flow after Oct 2004			**522**	**0.05**	**0.00017**	**0.04**	**0.04**	**0.0005**	**0.01**	**0.05**	**32.95**	**5.93**	**0.01**	**3.59**	**4.32**	**0.04**	**1.65**	**3.11**
% Change			**-26**	**-63**	**-54**	**-55**	**-66**	**-69**	**-76**	**-23**	**-26**	**-63**	**-50**	**-66**	**-72**	**-65**	**-78**	**-45**
SW-6	10/02/89	Hydrometrics	1795		0.0005	0.005	0.015		0.01	0.01	113.3		0.147	1.468	4.404		2.936	2.936
SW-6	10/20/89	Hydrometrics	2029	0.05	0.0005	0.005	0.015	0.005	0.01	0.01	128.0	16.588	0.166	1.659	4.976	1.659	3.318	3.318
SW-6	05/29/90	Hydrometrics	45826	0.2	0.00005	0.035	0.23	0.001	0.02	0.02	2891.2	1498.772	0.375	262.285	1723.588	7.494	149.877	149.877
SW-6	06/06/90	Hydrometrics	55296	0.1	0.002	0.02	0.13	0.01	0.01	0.01	3488.6	904.254	18.085	180.851	1175.531	90.425	90.425	90.425
SW-6	06/07/90	Hydrometrics	62208								3924.7							
SW-6	06/13/90	Hydrometrics	52500	0.05	0.08	0.005	0.06	0.005	0.01	0.01	3312.2	429.264	686.822	42.926	515.117	42.926	85.853	85.853
SW-6	06/14/90	Hydrometrics	38599								2435.2							
SW-6	06/20/90	Hydrometrics	75390	0.2	0.001	0.03	0.26	0.005	0.02	0.15	4756.4	2465.708	12.329	369.856	3205.421	61.643	246.571	1849.281
SW-6	06/22/90	Hydrometrics	122666								7739.0							
SW-6	06/26/90	Hydrometrics	112881	0.2	0.00005	0.037	0.4	0.001	0.02	0.02	7121.7	3691.883	0.923	682.998	7383.766	18.459	369.188	369.188
SW-6	06/29/90	Hydrometrics	98061								6186.7							
SW-6	07/02/90	Hydrometrics	94524	0.2	0.0005	0.039	0.35	0.005	0.02	0.04	5963.5	3091.493	7.729	602.841	5410.113	77.287	309.149	618.299
SW-6	07/04/90	Hydrometrics	74237								4683.6							
SW-6	07/09/90	Hydrometrics	40350	0.1	0.0005	0.03	0.14	0.005	0.01	0.02	2545.7	659.842	3.299	197.952	923.778	32.992	65.984	131.968
SW-6	07/11/90	Hydrometrics	32316								2038.8							
SW-6	07/17/90	Hydrometrics	15889	0.2		0.07	0.3			0.015	1002.4	519.653		181.878	779.479			38.974
SW-6	07/19/90	Hydrometrics	11849								747.6							
SW-6	07/27/90	Hydrometrics	8483	0.05	0.00005	0.03	0.1	0.001	0.01	0.015	535.2	69.360	0.069	41.616	138.721	1.387	13.872	20.808
SW-6	08/23/90	Hydrometrics	4533								286.0							
SW-6	09/25/90	Hydrometrics	1481	0.05	0.00005	0.007	0.015	0.001	0.01	0.04	93.4	12.111	0.012	1.695	3.633	0.242	2.422	9.688
SW-6	03/15/91	Hydrometrics	449	0.05	0.0005	0.005	0.06	0.005	0.01	0.02	28.3	3.670	0.037	0.367	4.404	0.367	0.734	1.468
SW-6	06/05/91	Hydrometrics	90529	0.2	0.00005	0.0085	0.18	0.001	0.01	0.005	5711.5	2960.846	0.740	125.836	2664.761	14.804	148.042	74.021
SW-6	07/09/91	Hydrometrics	22980	0.1	0.0001	0.033	0.14	0	0.01	0.03	1449.8	375.794	0.376	124.012	526.112		37.579	112.738
SW-6	08/14/91	Hydrometrics	1750	0.05	0.00005	0.011	0.06	0.001	0.01	0.02	110.4	14.312	0.014	3.149	17.175	0.286	2.862	5.725
SW-6	09/24/91	Hydrometrics	1122	0.05	0.00005	0.0065	0.015	0.001	0.01	0.005	70.8	9.175	0.009	1.193	2.752	0.183	1.835	0.917
SW-6	07/19/92	Hydrometrics	13766	1.6	0.00005	0.11	2.88	0.001	0.05	0.13	868.5	3601.751	0.113	247.620	6483.152	2.251	112.555	292.642
SW-6	09/23/92	Hydrometrics	1589	0.05	0.0001	0.016	0.2	0.001	0.02	0.05	100.2	12.991	0.026	4.157	51.965	0.260	5.197	12.991
SW-6	07/21/93	Hydrometrics	17105	0.2	0.0001	0.062	0.24	0.001	0.03	0.01	1079.2	559.434	0.280	173.425	671.321	2.797	83.915	27.972
SW-6	09/22/93	Hydrometrics	1885	0.05	0.0001	0.019	0.03	0.001	0.03	0.009	118.9	15.413	0.031	5.857	9.248	0.308	9.248	2.774

Table C-2
1989 To 2008 Surface Water Database (Fisher Creek)

Sample Station	Sample Date	Data Source	Flow (gpm)	Al (mg/l)	Cd (mg/l)	Copper (mg/l)	Iron (mg/l)	Lead (mg/l)	Mn (mg/l)	Zinc (mg/l)	Flow (L/s)	Aluminum (kg/month)	Cadmium (kg/month)	Copper (kg/month)	Iron (kg/month)	Lead (kg/month)	Manganese (kg/month)	Zinc (kg/month)
SW-6	04/14/94	Hydrometrics	8618		0.00005	0.0005		0.001			543.7		0.070	0.705		1.409		
SW-6	06/15/94	Hydrometrics	39336	0.1	0.00005	0.016	0.11	0.001	0.01	0.005	2481.7	643.254	0.322	102.921	707.579	6.433	64.325	32.163
SW-6	05/21/96	Hydrometrics	20476	0.1	0.00005	0.021	0.15	0.0015	0.012	0.02	1291.8	334.838	0.167	70.316	502.258	5.023	40.181	66.968
SW-6	07/10/96	Hydrometrics	66966	0.05	0.0001	0.024	0.01	0.0015	0.013	0.005	4224.9	547.544	1.095	262.821	109.509	16.426	142.361	54.754
SW-6	09/11/96	Hydrometrics	1306	0.05	0.00005	0.011	0.02	0.0015	0.007	0.005	82.4	10.679	0.011	2.349	4.272	0.320	1.495	1.068
SW-6	05/06/99	Maxim	6127	0.1	0.00005	0.01	0.13	0.0005	0.008	0.005	386.5	100.187	0.050	10.019	130.243	0.501	8.015	5.009
SW-6	07/07/99	Maxim	66602	0.2	0.00005	0.034	0.27	0.0005	0.014	0.02	4201.9	2178.284	0.545	370.308	2940.684	5.446	152.480	217.828
SW-6	09/29/99	Maxim	1673	0.05	0.00005	0.016	0.06	0.0005	0.007	0.02	105.5	13.678	0.014	4.377	16.413	0.137	1.915	5.471
SW-6	04/13/00	Maxim	1145	0.025	0.00005	0.004	0.025	0.0005	0.0025	0.01	72.2	4.679	0.009	0.749	4.679	0.094	0.468	1.872
SW-6	07/08/00	Maxim	16194	0.1	0.00005	0.032	0.14	0.0005	0.018	0.01	1021.7	264.817	0.132	84.742	370.744	1.324	47.667	26.482
SW-6	10/19/00	Maxim	1499	0.05	0.00005	0.005	0.025	0.0005	0.0015	0.005	94.6	12.257	0.012	1.226	6.129	0.123	0.368	1.226
SW-6	04/21/01	Maxim	1198	0.05	0.00005	0.004	0.02	0.0005	0.0015	0.005	75.6	9.799	0.010	0.784	3.919	0.098	0.294	0.980
SW-6	06/26/01	Maxim	27118	0.05	0.00005	0.027	0.12	0.0005	0.008	0.005	1710.9	221.733	0.222	119.736	532.160	2.217	35.477	22.173
SW-6	10/11/01	Maxim	525	0.05	0.00005	0.004	0.1	0.0005	0.008	0.03	33.1	4.294	0.004	0.343	8.587	0.043	0.687	2.576
SW-6	04/23/02	Maxim	287	0.05	0.00005	0.004	0.06	0.0005	0.003	0.005	18.1	2.349	0.002	0.188	2.818	0.023	0.141	0.235
SW-6	07/01/02	Maxim	49371	0.1	0.0002	0.032	0.14	0.001	0.008	0.01	3114.9	807.370	1.615	258.358	1130.318	8.074	64.590	80.737
SW-6	10/08/02	Maxim	1508	0.05	0.0001	0.014	0.01	0.0005	0.006	0.05	95.1	12.331	0.025	3.453	2.466	0.123	1.480	12.331
SW-6	22-Apr-03	Maxim	1854	0.025	0.00005	0.005	0.12	0.0005	0.007	0.005	116.9	7.578	0.015	1.516	36.376	0.152	2.122	1.516
SW-6	01-Jul-03	Maxim	54084	0.12	0.00005	0.021	0.12	0.001	0.014	0.005	3412.2	1061.325	0.442	185.732	1061.325	8.844	123.821	44.222
SW-6	30-Sep-03	Maxim	543	0.025	0.00005	0.003	0.005	0.0005	0.02	0.03	34.3	2.220	0.004	0.266	0.444	0.044	1.776	2.664
SW-6	06-Apr-04	Maxim	3195	0.025	0.00005	0.014	0.04	0.0005	0.0025	0.05	201.6	13.063	0.026	7.315	20.901	0.261	1.306	26.126
SW-6	28-Jun-04	Maxim	48119	0.06	0.00005	0.025	0.18	0.0005	0.008	0.03	3035.8	472.135	0.393	196.723	1416.406	3.934	62.951	236.068
SW-6	05-Oct-04	Maxim	11153	0.09	0.00005	0.007	0.02	0.0005	0.0015	0.01	703.7	164.153	0.091	12.767	36.478	0.912	2.736	18.239
SW-6	05-Apr-05	Maxim	1032	0.025	0.00005	0.0005	0.01	0.0005	0.0015	0.01	65.1	4.220	0.008	0.084	1.688	0.084	0.253	1.688
SW-6	28-Jun-05	Maxim	54012	0.1	0.00005	0.019	0.08	0.0005	0.01	0.01	3407.6	883.260	0.442	167.819	706.608	4.416	88.326	88.326
SW-6	11-Oct-05	Maxim	1064	0.025	0.00005	0.005	0.005	0.0005	0.002	0.005	67.1	4.349	0.009	0.870	0.870	0.087	0.261	0.870
SW-6	26-Apr-06	Maxim	2504	0.025	0.00005	0.003	0.01	0.0005	0.002	0.005	158.0	10.239	0.020	1.229	4.096	0.205	0.614	2.048
SW-6	28-Jun-06	Maxim	32599	0.07	0.00005	0.024	0.12	0.0005	0.015	0.005	2056.6	373.158	0.267	127.940	639.700	2.665	79.962	26.654
SW-6	26-Sep-06	Maxim	956	0.025	0.00005	0.004	0.005	0.0005	0.002	0.01	60.3	3.908	0.008	0.625	0.782	0.078	0.235	1.563
SW-6	11-Apr-07	Tetra Tech	1813	0.025	0.00005	0.002	0.005	0.0005	0.002	0.005	114.4	7.413	0.015	0.593	1.483	0.148	0.445	1.483
SW-6	12-Jun-07	Tetra Tech	45329	0.070	0.00005	0.018	0.080	0.0005	0.002	0.005	2859.8	518.885	0.371	133.428	593.011	3.706	11.119	37.063
SW-6	17-Sep-07	Tetra Tech	853	0.025	0.00005	0.003	0.005	0.0005	0.002	0.005	53.8	3.486	0.007	0.418	0.697	0.070	0.209	0.697
SW-6	**17-Apr-08**	Tetra Tech	866	0.025	0.00005	0.002	0.005	0.0005	0.002	0.005	54.6	3.541	0.007	0.283	0.708	0.071	0.212	0.708
SW-6	**14-Jul-08**	Tetra Tech	44669	0.070	0.00005	0.018	0.080	0.0005	0.002	0.005	2818.2	511.331	0.365	131.485	584.378	3.652	10.957	36.524
SW-6	**22-Sep-08**	Tetra Tech	1387	0.025	0.00005	0.003	0.005	0.0005	0.002	0.005	87.5	5.670	0.011	0.680	1.134	0.113	0.340	1.134
Average all before Oct. 2004			**29,801**	**0.126**	**0.00209**	**0.021**	**0.183**	**0.0016**	**0.012**	**0.023**	**1880.126**	**674.067**	**17.542**	**114.851**	**969.230**	**10.421**	**60.865**	**112.960**
Average all after Oct. 2004			**15,249**	**0.046**	**0.00005**	**0.008**	**0.033**	**0.0005**	**0.003**	**0.007**	**962.066**	**191.816**	**0.125**	**44.479**	**197.818**	**1.247**	**15.052**	**16.692**
% Change			**-49**	**-63**	**-98**	**-61**	**-82**	**-69**	**-74**	**-72**	**-49**	**-72**	**-99**	**-61**	**-80**	**-88**	**-75**	**-85**
Avg high flow before 10/2004			**50,818**	**0.195**	**0.00405**	**0.034**	**0.302**	**0.0021**	**0.015**	**0.027**	**3206.112**	**1243.607**	**35.051**	**222.080**	**1835.084**	**20.509**	**116.517**	**211.066**
Avg high flow after 10/2004			**30,915**	**0.059**	**0.00005**	**0.016**	**0.071**	**0.0005**	**0.005**	**0.005**	**1950.438**	**351.931**	**0.253**	**98.431**	**454.490**	**2.528**	**25.575**	**25.278**
% Change			**-39**	**-70**	**-99**	**-52**	**-76**	**-76**	**-69**	**-81**	**-39**	**-72**	**-99**	**-56**	**-75**	**-88**	**-78**	**-88**
Avg low flow before Oct 2004			**2,096**	**0.047**	**0.00012**	**0.008**	**0.051**	**0.0012**	**0.009**	**0.019**	**132.235**	**14.599**	**0.033**	**2.516**	**16.790**	**0.332**	**2.431**	**5.045**
Avg low flow after Oct 2004			**2,403**	**0.032**	**0.00005**	**0.003**	**0.008**	**0.0005**	**0.002**	**0.007**	**151.619**	**22.998**	**0.020**	**1.950**	**5.326**	**0.196**	**0.589**	**3.159**
% Change			**15**	**-32**	**-59**	**-59**	**-85**	**-57**	**-84**	**-65**	**15**	**58**	**-41**	**-22**	**-68**	**-41**	**-76**	**-37**

Note: Concentrations below the practical quantitation limit (PQL) are shown as half the PQL

APPENDIX C-2

2008 SURFACE WATER FIELD FORMS

NOTICE : Information specific to this Appendix is not included in this version of the report. Please contact Gallatin National Forest, Bozeman, Montana to obtain this information.

APPENDIX D

2008 GROUNDWATER DATA
2008 SURFACE WATER AND GROUNDWATER MONITORING REPORT

New World Mining District Response and Restoration Project

APPENDIX D-1

2008 GROUNDWATER SUMMARY

Table D-1 2008 Groundwater Summary

Table D-2 McLaren Pit Monitoring Well Field Parameter Data – 2002 through 2008

TABLE D-1
2008 GROUNDWATER SUMMARY
NEW WORLD MINING DISTRICT RESPONSE AND RESTORATION PROJECT

Station Name	Sample Date	Depth to Water (feet)	Anions (mg/L)					Cations (mg/L)								Dissolved Metals (mg/L)						
			Acid-idity as CaCO3	Alkalinity as HCO3	Alkalinity as Total CaCO3	Chlor-ide	Sulfate	Calcium	Hard-ness as CaCO3	Magne-sium	Potass-ium	Sod-ium	Field SC (umhos/cm)	Field pH (s.u.)	Total Diss-olved Solids (mg/L)	Alum-inum	Cadmium	Copper	Iron	Lead	Manga-nese	Zinc
Drainage: Daisy Creek / Stillwater River																						
RR-DCGW-100	8/13/2008	99.45	<2	194	159	<1	157	96	318	19	1	3	554	7.01	395	<0.05	0.0002	0.005	0.22	<0.001	0.42	0.02
RR-DCGW-101D	8/12/2008	6.71	<2	82	67	<1	127	62	196	10	2	3	409	6.98	282	<0.05	<0.0001	<0.001	0.01	<0.001	0.42	<0.01
RR-DCGW-101S	8/12/2008	6.76	25	<1	<1	<1	98	24	81	5	1	2	176	4.07	164	1.79	0.0004	0.11	<0.01	0.002	0.18	0.06
RR-DCGW-103D	8/6/2008	--	JF%<2	200	164	<1	125	84	276	16	2	6	521	7.15	368	<0.05	<0.0001	<0.001	0.31	<0.001	0.21	<0.01
RR-DCGW-103S	8/6/2008	0.1	JF%<2	194	159	<1	229	115	357	17	10	9	696	6.76	505	<0.05	0.0008	0.002	0.25	<0.001	0.92	0.15
RR-DCGW-104	8/12/2008	18.62	1090	<1	<1	3	1770	128	575	62	<1	4	3181	2.46	3320	82.7	0.023	33.8	120	<0.001	11.3	3.91
RR-DCGW-105	8/11/2008	23.69	467	<1	<1	2	572	14	64	7	2	3	1396	2.74	1120	29.9	0.0034	8.98	112	0.012	1.16	0.47
RR-DCGW-107	8/12/2008	16.8	<2	148	122	<1	240	102	312	14	6	23	648	7.52	468	<0.05	0.0001	<0.001	1.3	<0.001	1.43	<0.01
RR-DCGW-108	8/12/2008	8.2	27	<1	<1	<1	88	22	71	4	1	3	161	3.98	159	1.02	0.001	0.59	0.2	<0.001	0.47	0.18
RR-DCGW-111D	8/12/2008	11.3	124	32	26	1	780	210	648	30	4	5	1278	5.16	1300	8.24	0.02	12.2	45.3	0.008	6.14	2.3
RR-DCGW-111S	8/12/2008	4.89	54	<1	<1	3	794	242	707	25	6	6	1236	4.66	1200	3.63	0.02	5.16	4.7	0.01	4.9	2.66
RR-DCGW-132	8/12/2008	5.71	465	<1	<1	2	914	88	339	29	4	4	1301	3.57	1490	35	0.015	11.2	145	0.007	5.04	1.79
RR-DCGW-132X	8/12/2008	--	475	<1	<1	2	871	88	335	28	4	4	--	--	1220	33.8	0.015	10.8	139	0.008	4.94	1.81
RR-DCGW-133	8/12/2008	4.06	224	<1	<1	1	434	57	196	13	3	3	1041	2.92	688	18	0.0074	7.48	13.2	0.008	2.36	0.86
RR-DCGW-136	8/12/2008	4.28	45	<1	<1	2	177	56	177	9	1	2	395	5.09	292	2.22	0.0028	1.66	<0.01	<0.001	0.9	0.37
RR-DCGW-137	8/12/2008	3.98	UJ<2	142	117	1	43	40	116	4	1	4	174	7.09	180	<0.05	<0.0001	0.001	0.04	<0.001	0.092	<0.01
RR-DCGW-138	8/12/2008	7.22	<2	37	30	<1	70	36	106	4	<1	<1	260	7.14	127	<0.05	0.0002	0.005	<0.01	<0.001	<0.003	0.05
RR-MW-2	8/6/2008	8.96	JF%360	<1	<1	<1	502	21	81	7	4	3	769	3.71	1060	41.9	0.0012	0.27	100	0.01	1.03	0.23
RR-MW-3	8/6/2008	4.64	JF%<2	224	184	<1	27	49	192	17	2	4	363	8.15	240	<0.05	<0.0001	<0.001	<0.01	<0.001	0.34	<0.01
RR-Tracer 2	8/11/2008	22.81	544	<1	<1	3	698	8	53	8	4	3	900	3.72	1090	71.7	0.0012	4.08	92	<0.001	0.53	0.19
Drainage: Como Basin Area																						
RR-EPA-11	8/5/2008	26.44	JF%304	8	6	1	930	146	575	51	4	3	1449	6.02	1490	0.79	0.0015	<0.001	204	0.017	7.94	0.57
RR-EPA-12	8/5/2008	1.68	JF%53	13	11	<1	217	42	162	14	2	4	455	6.18	427	<0.1	<0.0001	<0.001	42.4	<0.001	2.18	0.06
RR-EPA-12X	8/5/2008	--	41	12	10	<1	215	40	153	13	2	3	--	--	413	<0.05	<0.0001	<0.001	42.3	<0.001	2.18	0.06

Notes:

cfs - Cubic feet per second
s.u. - Standard units
mg/L - Milligrams per liter
R - Rinsate blank
X - Field duplicate
umhos/cm - Micromhos per centimeter

-- - Indicates data not collected or parameter not analyzed
< - Indicates analyte not detected above practical quantitation limit (PQL)
UJ - The analyte was not detected above the reported quantitation limit but this limit is approximate and may be inaccurate or imprecise.
JF% - The associated values are estimated quantities because field duplicate results exceed acceptable limits by relative percent difference determination

Tetra Tech

Revision Date

12/7/2009

n:\newworld\datasbase\NW2k.mdb<Table-D-1-2008GW-annual.rpt>

TABLE D-1
2008 GROUNDWATER SUMMARY
NEW WORLD MINING DISTRICT RESPONSE AND RESTORATION PROJECT

Station Name	Sample Date	Depth to Water (feet)	Anions (mg/L)					Cations (mg/L)								Dissolved Metals (mg/L)						
			Acid-idity as CaCO3	Alkalinity as HCO3	Alkalinity as Total CaCO3	Chlor-ide	Sulfate	Calcium	Hard-ness as CaCO3	Magne-sium	Potass-ium	Sod-ium	Field SC (umhos/cm)	Field pH (s.u.)	Total Diss-olved Solids (mg/L)	Alum-inum	Cadmium	Copper	Iron	Lead	Manga-nese	Zinc
RR-FCGW-100	8/6/2008	--	JF%477	17	14	1	1050	161	513	27	8	4	1618	5.42	1650	0.37	<0.0001	0.003	291	<0.001	9.42	0.03
RR-MW-1	8/5/2008	8.58	JF%117	<1	<1	3	487	87	341	30	3	3	864	4.45	782	0.26	<0.0001	0.007	67.5	0.002	4.27	0.12
Drainage: Fisher Creek																						
RR-MW-10A	8/4/2008	3.88	JF%<2	7	6	18	41	16	56	4	6	10	232	5.87	133	<0.05	<0.0001	0.031	<0.05	<0.001	0.056	0.01
RR-MW-10B	8/4/2008	--	JF%<2	163	134	8	1150	278	933	58	6	144	2.19	6.72	1810	<0.05	<0.0001	0.001	2.32	<0.001	0.19	<0.01
RR-MW-11	8/4/2008	10.92	JF%<2	8	6	2	13	4	14	1	<1	1	46.6	6.39	89	0.05	<0.0001	0.004	0.05	<0.001	<0.003	<0.01
RR-MW-9A	8/5/2008	6.45	JF%<2	5	4	<1	51	11	36	2	2	3	132	4.82	133	<0.05	<0.0001	0.007	0.03	<0.001	0.005	<0.01
RR-MW-9B	8/5/2008	--	JF%<2	7	6	1	56	14	51	4	2	4	138	5.85	130	<0.05	<0.0001	<0.001	1.01	<0.001	0.094	0.02
RR-SB-16	8/4/2008	9.5	JF%<2	106	87	2	273	99	313	16	3	24	662	9.08	468	<0.05	<0.0001	<0.001	0.45	<0.001	0.19	<0.01
RR-Tracer 5	8/5/2008	--	JF%325	<1	<1	<1	402	7	30	3	3	5	653	3.59	829	36.4	0.0025	0.97	69.6	0.005	1.08	0.37
Drainage: New World Waste Repository																						
RR-SBGW-105	5/29/2008	4.5	<2	118	101	1	16	15	46	2	2	41	272	7.14	199	<0.05	<0.0001	<0.001	<0.01	<0.001	0.005	<0.01
RR-SBGW-105	8/14/2008	15.12	<2	136	126	1	19	17	55	3	2	37	190	7.43	210	<0.05	<0.0001	<0.001	<0.01	<0.001	<0.003	0.02
RR-SBGW-105X	5/29/2008	3.54	<2	135	115	2	17	14	43	2	1	34	--	--	211	<0.05	<0.0001	<0.001	<0.01	<0.001	0.005	<0.01
RR-SBGW-105T	5/29/2008	3.54	UJ<2	204	167	1	19	50	170	11	1	3	187	6.6	209	<0.05	<0.0001	<0.001	0.19	<0.001	0.1	<0.01
RR-SBGW-105T	8/14/2008	8.97	<2	312	255	<1	25	59	201	13	1	2	347	7.36	194	<0.05	<0.0001	<0.001	0.08	<0.001	0.078	0.03
RR-SBGW-107	5/29/2008	6.2	<2	195	188	2	83	20	75	6	1	97	532	8.96	387	<0.05	0.0001	<0.001	<0.01	<0.001	0.021	<0.01
RR-SBGW-107	8/14/2008	13.58	<2	172	191	2	83	26	98	8	1	83	496	8.86	354	<0.05	<0.0001	0.002	<0.01	<0.001	0.01	0.01
RR-SBGW-107T	5/29/2008	3.91	<2	161	132	2	32	53	157	6	<1	3	337	6.48	145	<0.05	<0.0001	<0.001	<0.01	<0.001	<0.003	<0.01
RR-SBGW-108	5/29/2008	2.38	<2	118	96	2	9	36	110	5	<1	2	115	5.24	145	<0.05	<0.0001	0.001	<0.01	<0.001	<0.003	<0.01
RR-SBGW-108	8/14/2008	13.12	<2	160	131	2	9	49	151	7	<1	2	267	7.24	141	<0.05	<0.0001	0.001	<0.01	<0.001	0.004	0.07
RR-SBGW-108T	5/29/2008	2.1	<2	172	141	2	14	64	185	6	<1	2	314	6.43	206	<0.05	0.0005	<0.001	<0.01	<0.001	<0.003	<0.01
RR-SBGW-108T	8/14/2008	13.12	<2	387	317	5	28	79	243	11	1	3	233	7.4	261	<0.05	<0.0001	0.001	<0.01	<0.001	<0.003	0.03
RR-SUMP	5/29/2008	--	<2	1270	1040	9	1590	640	2570	237	6	77	3507	5.75	3330	<0.05	0.0002	0.003	0.03	<0.001	5.43	<0.01
RR-SUMP	9/23/2008	--	<2	NA	NA	8	1630	645	2470	211	6	77	3890	6.29	3490	<0.05	0.0001	0.004	0.04	JF%<0.001	3.83	<0.01

Notes:

cfs - Cubic feet per second
s.u. - Standard units
mg/L - Milligrams per liter
R - Rinsate blank
X - Field duplicate
umhos/cm - Micromhos per centimeter

-- - Indicates data not collected or parameter not analyzed
< - Indicates analyte not detected above practical quantitation limit (PQL)
UJ - The analyte was not detected above the reported quantitation limit but this limit is approximate and may be inaccurate or imprecise.
JF% - The associated values are estimated quantities because field duplicate results exceed acceptable limits by relative percent difference determination

Tetra Tech

Revision Date

12/7/2009

n:\newworld\datasbase\NW2k.mdb<Table-D-1-2008GW-annual.rpt>

TABLE D-2
McLAREN PIT MONITORING WELL FIELD PARAMETER DATA - 2002 THROUGH 2008
New World Mining District Response and Restoration Project

WELL	DATE	TOTAL DEPTH (feet)	APPROX CASING STICK-UP (feet)	MEASURING POINT ELEVATION (meters)	DEPTH TO GROUND WATER (feet)	DEPTH TO GROUND WATER (meters)	GROUND WATER ELEVATION (meters)	TEMP (deg. C)	pH (su)	SPECIFIC CONDUC-TANCE (uS)	OXIDATION REDUCTION POTENTIAL (mV)	DISSOLVED OXYGEN (mg/L)	NOTE AND MONITORING METHOD
MW- 2	7/9/2002	60.0	ND			Artesian		5.0	3.44	797	89	NM	4
	7/17/2003					Artesian		5.3	3.81	785	250	0.64	4
	8/1/2003	69.0	5.1	2,946.95 1	10.34	3.15	2943.80	4.1	3.76	751	287	0.67	5
	8/13/2003				10.73	3.27	2943.68	2.9	3.79	632	266	0.74	5
	8/27/2003				11.21	3.42	2943.53	2.7	3.70	1,163	283	0.87	5
	9/8/2003				11.85	3.61	2943.34	2.9	3.57	732	272	0.45	5
	9/30/2003	69.0	2.6	2,946.95 1	14.72	4.49	2942.46	2.8	3.86	752	255	1.85	5
				2003 Minimum			2942.46	2.7	3.57	632	255	0.45	
				2003 Maximum			2943.80	5.3	3.86	1163	287	1.85	
				2003 Mean			2943.36	3.5		803	273	0.92	
	7/21/2004	69.0	2.6	2,946.95 1	9.35	2.85	2944.10	3.2	3.53	760	289	4.26	6
	8/11/2004	67.4	1.0	2,946.46 2	8.94	2.72	2943.74	3.4	3.60	789	263	0.00	6
	9/28/2004				10.88	3.32	2943.14	2.9	3.60	778	215	0.21	6
				2004 Mean	9.72	2.96	2943.66	3.1		776	256	1.49	
	4/7/2005				33.35	10.17	2936.29						
	5/23/2005				34.32	10.46	2936.00						
	7/11/2005				7.95	2.42	2944.04	3.9	3.84	731	255	0.58	6
	9/26/2005				12.29	3.75	2942.71	3.7	3.50	767	283	0.68	6
				2005 Mean	21.98	6.70	2939.76	3.8		749	269	0.63	
	7/18/2006				8.83	2.69	2943.77	4.2	3.88	761	284	0.20	6
	10/2/2006				13.91	4.24	2942.22	2.9	4.05	759	284	0.11	6
				2006 Mean	11.37	3.47	2942.99	3.5		760	284	0.16	
	7/23/2007				9.44	2.88	2943.58	2.9	4.67	754	-6	0.23	6
	9/19/2007				12.82	3.91	2942.55	2.8	4.20	756	59	0.23	6
				2007 Mean	11.13	3.39	2943.07	2.8		755	26	0.23	
	8/6/2008				8.96	2.73	2943.73	3.4	3.71	769	215	0.07	6
	9/15/2008				11.10	3.38	2943.08	2.9	3.96	747	147	0.13	6
				2008 Mean	10.03	3.06	2943.40	3.1		758	181	0.10	
DCGW 100	8/1/2003	237.0	2	3,020 3	90.91	27.71	2992.29	2.6	6.95	976	42.5	3.80	4
	8/11/2003				96.15	29.31	2990.69	6.1	6.82	661	81.5	2.94	4
	8/19/2003				99.61	30.36	2989.64	6	6.75	589	NM	NM	4
	8/27/2003				113.62	34.63	2985.37	2.9	6.8	565	85	1.80	4
	9/9/2003				116.47	35.50	2984.50	1.6	7.13	533	109.3	1.51	4
	9/30/2003				120.23	36.65	2983.35	3.2	6.68	547	172.4	2.46	4
				2003 Minimum	90.91	27.7	2983.35	1.6	6.7	533	43	1.51	
				2003 Maximum	120.23	36.6	2992.29	6.1	7.1	976	172	3.80	
				2003 Mean	106.17	32.4	2987.64	3.7		645	98	2.50	
	8/10/2004				100.03	30.49	2989.51	3.7	7.59	589	-0.2	0.46	4
	7/25/2005				94.33	28.75	2991.25	1.0	6.20	1410	NM	NM	9
	9/28/2005				107.91	32.89	2987.11	3.5	6.64	543	53	3.15	9
				2005 Mean	101.12	30.82	2989.18	2.3		977	53	3.15	
	7/26/2006				98.47	30.01	2989.99	8.2	6.99	606	41	0.77	9
	10/3/2006				111.29	33.92	2986.08	1.8	7.39	542	61	1.79	3
				2006 Mean	104.88	31.97	2988.03	5.0		574	51	1.28	
	7/24/2007				100.89	30.75	2989.25	4.4	7.03	556	-82	0.54	9
	9/25/2007				108.14	32.96	2987.04	1.4	6.87	526	30	1.60	3
				2007 Mean	104.52	31.86	2988.14	2.9		541	-26	1.07	
	8/13/2008				99.45	30.31	2989.69	3.0	7.01	554	-141	0.91	9
	9/17/2008				108.05	32.93	2987.07	1.9	6.98	507	26	1.26	3
				2008 Mean	103.75	31.62	2988.38	2.5		531	-58	1.09	
Tracer 2	7/8/2002	129.0	NM	2,986 3	18.51	5.64	2980.36	5.0	3.66	732	766	NM	
	7/17/2003				22.64	6.90	2979.10	5.2	3.61	759	297	0.44	4
	8/1/2003				30.56	9.31	2976.69	3.0	3.65	543	385	0.90	5
	8/11/2003				38.53	11.74	2974.26	2.8	3.45	476	386	0.90	5
	8/27/2003				51.44	15.68	2970.32	2.1	3.31	570	406	0.74	5
	9/8/2003				59.79	18.22	2967.78	2.3	3.08	567	453	0.82	5
	9/30/2003				71.97	21.94	2964.06	3.1	3.25	613	457	3.20	4
				2003 Minimum	22.64	6.9	2964.06	2.1	3.1	476	385	0.74	
				2003 Maximum	71.97	21.9	2979.10	5.2	3.7	759	453	0.90	
				2003 Mean	45.82	14.0	2972.03	3.1		588	407	0.84	
	7/21/2004				20.92	6.38	2979.62	2.0	3.53	786	308	0.15	6
	7/12/2005				18.90	5.76	2980.24	3.0	3.73	760	287	1.68	6
	7/12/2006				18.63	5.68	2980.32	2.1	3.96	874	288	0.02	6
	10/2/2006				73.83	22.50	2963.50	2.1	3.48	755	384	0.97	3
				2006 Mean	46.23	14.09	2971.91	2.1		815	336	0.50	
	7/19/2007				26.68	8.13	2977.87	2.1	4.20	861	65	0.44	6
	9/25/2007				70.16	21.38	2964.62	2.1	3.30	778	140	1.99	3
				2007 Mean	48.42	14.76	2971.24	2.1		820	103	1.22	
	8/11/2008				22.81	6.95	2979.05	2.1	3.72	900	277	1.45	6
	9/15/2008				49.27	15.02	2970.98	2.5	3.52	69	167	0.16	5
				2008 Mean	36.04	10.98	2975.02	2.3		485	222	0.81	

TABLE D-2
McLAREN PIT MONITORING WELL FIELD PARAMETER DATA - 2002 THROUGH 2008
New World Mining District Response and Restoration Project

WELL	DATE	TOTAL DEPTH (feet)	APPROX CASING STICK-UP (feet)	MEASURING POINT ELEVATION (meters)	DEPTH TO GROUND WATER (feet)	DEPTH TO GROUND WATER (meters)	GROUND WATER ELEVATION (meters)	TEMP (deg. C)	pH (su)	SPECIFIC CONDUC-TANCE (uS)	OXIDATION REDUCTION POTENTIAL (mV)	DISSOLVED OXYGEN (mg/L)	NOTE AND MONITORING METHOD
DCGW- 101 S	10/10/2001	14.7	2.6	2856.09	7.70	2.35	2853.74	4.9	5.29	249	260	NM	4
	7/10/2002				5.60	1.71	2854.38	4.5	4.51	235	142	NM	4
	9/5/2002				6.93	2.11	2853.98	6.5	4.48	223	NM	NM	4
	9/17/2002				6.41	1.95	2854.14	5.0	4.56	187	NM	NM	4
	10/7/2002				6.39	1.95	2854.14	6.0	4.58	235	NM	NM	4
				2002 Minimum	5.60	1.71	2853.98	4.5	4.48	187			
				2002 Maximum	6.93	2.11	2854.38	6.5	4.58	235			
				2002 Mean	6.33	1.93	2854.16	5.5		220			
	7/16/2003				6.08	1.85	2854.24	4.5	4.53	255	205	8.97	2
	7/31/2003				6.61	2.01	2854.08	3.4	4.07	238	380	9.57	4
	8/11/2003				7.07	2.15	2853.94	3.4	4.12	203	495	6.93	6 *
	8/27/2003				7.65	2.33	2853.76	3.8	4.40	244	394	6.16	6
	9/9/2003				8.02	2.44	2853.65	4.2	4.48	244	321	3.23	6 **
	10/1/2003				8.32	2.54	2853.55	4.6	4.55	253	399	4.47	6 *
				2003 Minimum	6.08	1.85	2853.55	3.4	4.07	203	321	3.23	
				2003 Maximum	8.32	2.54	2854.24	4.6	4.55	255	495	6.93	
				2003 Mean	7.29	2.22	2853.87	4.0		240	402	5.20	
	7/20/2004				6.12	1.87	2854.22	2.2	4.38	253	327	6.64	6
	8/11/2004				6.94	2.12	2853.97	3.0	4.47	246	282	5.88	6
	9/28/2004				4.16	1.27	2854.82	4.1	4.30	248	383	3.53	6
				2004 Mean	6.95	1.75	2854.34	3.1		249	331	5.35	
	7/11/2005				4.14	1.26	2854.83	2.4	4.07	232	357	8.97	6
	9/27/2005				6.95	2.12	2853.97	5.0	3.69	218	464	6.90	6
				2005 Mean	5.66	1.69	2854.40	3.7		225	410	7.94	
	7/11/2006				5.76	1.76	2854.33	2.1	4.14	208	316	7.25	6
	10/3/2006				7.57	2.31	2853.78	4.7	4.37	220	428	5.52	6
				2006 Mean	5.63	2.03	2854.06	3.4		214	372	6.39	
	7/18/2007				6.85	2.09	2854.00	3.5	4.18	161	99	9.35	6
	9/25/2007				6.96	2.12	2853.97	5.2	4.02	163	75	6.43	6
				2007 Mean	6.45	2.10	2853.99	4.4		162	87	7.89	
	8/12/2008				6.76	2.06	2854.03	2.5	4.07	176	489	8.32	6
	9/16/2008				7.81	2.38	2853.71	4.4	3.83	167	137	7.13	6
				2008 Mean	6.76	2.22	2853.87	3.5		172	313	7.73	
DCGW- 101 D	10/10/2001	27.4	2.4	2857.30	7.38	2.25	2855.05	3.2	6.70	536	258	NM	4
	7/10/2002				5.70	1.74	2855.56	4.5	6.12	442	6	NM	4
	9/5/2002				7.36	2.24	2855.06	5.1	5.32	382	NM	NM	4
	9/17/2002				6.19	1.89	2855.41	4.0	7.41	303	NM	NM	4
	10/7/2002				6.18	1.88	2855.42	5.0	7.32	406	NM	NM	4
				2002 Minimum	5.70	1.74	2855.06	4.0	5.32	303			
				2002 Maximum	7.36	2.24	2855.56	5.1	7.41	442			
				2002 Mean	6.36	1.94	2855.36	4.7		383			
	7/16/2003				4.95	1.51	2855.79	4.5	7.06	418	114	4.13	2
	7/31/2003				6.61	2.01	2855.29	2.4	7.20	394	76	1.02	6
	8/11/2003				7.01	2.14	2855.16	2.4	6.75	332	300	0.78	6 **
	8/27/2003				7.61	2.32	2854.98	2.5	6.62	399	213	0.64	6
	9/9/2003				7.98	2.43	2854.87	2.7	6.63	385	202	0.48	6
	10/1/2003				8.18	2.49	2854.81	2.9	6.50	437	297	0.17	6 *
				2003 Minimum	4.95	1.51	2854.81	2.4	6.50	332	76	0.17	
				2003 Maximum	8.18	2.49	2855.79	4.5	7.20	437	300	1.02	
				2003 Mean	7.06	2.15	2855.15	2.9		394	218	0.62	
	7/20/2004				6.07	1.85	2855.45	2.6	6.70	441	-84	0.04	6
	8/11/2004				6.92	2.11	2855.19	2.5	6.94	448	-78	0.05	6
	9/28/2004				4.22	1.29	2856.01	2.8	6.65	410	146	0.20	6
				2004 Mean	5.74	1.75	2855.55	2.6		433	-5	0.10	
	7/11/2005				4.22	1.29	2856.01	2.2	6.35	354	223	0.32	6
	9/27/2005				6.92	2.11	2855.19	2.9	5.67	402	374	0.09	6
				2005 Mean	5.27	1.70	2855.60	2.6		378	299	0.21	
	7/11/2006				5.75	1.75	2855.55	2.4	5.58	376	243	1.20	6
	10/3/2006				7.33	2.23	2855.07	3.2	7.36	399	160	0.09	6
				2006 Mean	5.54	1.99	2855.31	2.8		388	201	0.65	
	7/18/2007				6.81	2.08	2855.22	2.5	6.94	361	9	0.50	6
	9/25/2007				6.92	2.11	2855.19	3.2	6.36	389	45	0.35	6
				2007 Mean	6.36	2.09	2855.21	2.8		375	27	0.43	
	8/12/2008				6.71	2.05	2855.25	2.5	6.98	409	-34	0.78	6
	9/16/2008				7.70	2.35	2854.95	2.6	6.34	376	43	0.23	6
				2008 Mean	6.70	2.20	2855.10	2.6		393	4	0.51	

TABLE D-2
McLAREN PIT MONITORING WELL FIELD PARAMETER DATA - 2002 THROUGH 2008
New World Mining District Response and Restoration Project

WELL	DATE	TOTAL DEPTH (feet)	APPROX CASING STICK-UP (feet)	MEASURING POINT ELEVATION (meters)	DEPTH TO GROUND WATER (feet)	DEPTH TO GROUND WATER (meters)	GROUND WATER ELEVATION (meters)	TEMP (deg. C)	pH (su)	SPECIFIC CONDUC-TANCE (uS)	OXIDATION REDUCTION POTENTIAL (mV)	DISSOLVED OXYGEN (mg/L)	NOTE AND MONITORING METHOD
DCGW- 103 S	7/8/2002	30.0	2.9	2923.90 3	--			15.0	6.15	700			
	9/17/2002				Artesian			8.0	7.03	563			
	10/7/2002				6.94	2.12	2921.78	4.0	6.91	718			
				2002 Mean				9.0	6.70	660			
	7/9/2003				0.01	0.00	2923.90	8.00	6.52	710		1.12	6
	7/31/2003				18.51	5.64	2918.26	3.70	6.81	686	77	2.10	6
	8/12/2003				27.65	8.43	2915.47	2.90	6.82	595	-21	2.28	6
	8/27/2003				27.67	8.43	2915.47	2.90	6.84	729	83	3.46	6
	9/10/2003				28.41	8.66	2915.24	2.90	6.89	720	108	3.04	6
	10/1/2003				25.40	7.74	2916.16	3.00	6.53	770	256	2.16	6
				2003 Minimum	0.01	0.00	2915.24	2.9	6.52	595	-21	2.10	
				2003 Maximum	28.41	8.66	2923.90	8.0	6.89	770	256	3.46	
				2003 Mean	21.28	6.48	2917.42	3.9		702	101	2.61	
	7/11/2006				0.01	0.00	2923.90	3.4	6.87	34	-4	8.2	6
	7/18/2007				0.10	0.03	2923.87	3.0	7.05	676	-42	1.3	6
	8/6/2008				0.10	0.03	2923.87	4.5	6.76	696	64	3.7	6
DCGW- 103 D	7/8/2002		2.9	2923.90 3	Artesian			9.0	6.41	534			
	9/17/2002				Artesian			6.0	7.38	408			
	10/7/2002				Artesian			7.0	7.38	499			
				2002 Mean				7.3	7.06	480			
	7/9/2003				Artesian			7.6	6.76	550		0.81	6
	7/31/2003				Artesian			3.1	7.10	534	-13	0.74	6
	8/12/2003				Artesian			3.2	7.21	507	-130	0.76	6
	8/27/2003				Artesian			3.0	6.97	891	-77	0.74	6
	9/10/2003				Artesian			3.0	7.15	498	73	0.42	6
	10/1/2003				Artesian			3.0	7.06	611	-6	0.24	6
				2003 Minimum				3.0	6.76	498	-130	0.24	
				2003 Maximum				7.6	7.21	891	73	0.81	
				2003 Mean				3.8		599	-31	0.62	
	7/11/2006				Artesian	0.054 gpm		3.1	7.21	523	-1	0.11	6
	7/18/2007				Artesian	0.064 gpm		3.0	7.66	495	-44	0.82	6
	8/6/2008				Artesian	0.038 gpm		3.0	7.15	521	40	0.05	6
DCGW- 104	10/8/2001	26.7	3.4	2924.76 1	NM	NM	NM	NM	NM	NM	NM	NM	
	7/9/2002	26.7	3.4		20.28	6.18	2918.58	4.5	2.89	2890	33	NM	4
	9/17/2002	26.7	8.0		23.46	7.15	2917.61	4.0	3.19	2060	NM	NM	4
	10/7/2002	26.7	8.0		24.67	7.52	2917.24	5.0	3.18	2480	NM	NM	4
				2002 Minimum	20.28	6.18	2917.24	4.0	2.89	2060			
				2002 Maximum	24.67	7.52	2918.58	5.0	3.19	2890			
				2002 Mean	22.80	6.95	2917.81	4.5		2477			
	7/17/2003	19.5	2.0	2922.56 1	13.42	4.09	2918.47	5.6	2.47	2960	515	4.61	2
	7/31/2003	19.5	2.0	Well cut down	12.98	3.96	2918.60	3.3	2.51	3011	444	3.22	4
	8/13/2003	19.5	2.0		14.10	4.30	2918.26	3.9	2.56	2535	450	2.94	6
	8/27/2003	19.5	2.0		15.19	4.63	2917.93	3.7	2.63	2766	427	2.55	6
	9/9/2003	19.5	2.0	Casing added	15.67	4.78	2917.78	3.9	2.57	2558	404	1.78	6
	10/1/2003	23.8	2.5	2923.87 1	20.41	6.22	2917.65	4.3	2.82	2721	409	3.00	6
				2003 Minimum			2917.65	3.3	2.47	2535	404	1.78	
				2003 Maximum			2918.26	5.6	2.82	3011	450	3.00	
				2003 Mean			2917.91	4.1		2759	422	2.57	
	7/20/2004	24.75		2924.16 2	18.27	5.57	2918.59	3.7	2.26	4269	533	1.11	6
	8/11/2004	24.75			18.90	5.76	2918.40	3.8	2.60	3915	531	1.46	6
	9/28/2004	24.75			20.57	6.27	2917.89	3.8	2.19	3447	490	2.96	6
				2004 Mean	19.25		2918.29	3.8		3877	518	1.84	
	5/23/2005	25.54			25.04	7.63	2916.53						
	6/29/2005	25.42		2924.04	18.41	5.61	2918.43						
	7/12/2005	25.42			18.49	5.64	2918.40	3.5	3.07	4292	503	1.32	6
	8/10/2005	25.42			19.08	5.82	2918.22						
	9/28/2005	25.42			21.05	6.42	2917.62	4.3	1.83	3179	486	--	6,10
				2005 Mean	20.41		2917.84	3.9		3736	495	1.32	
	2/3/2006				24.74	7.54	2916.62						
	5/15/2006	25.44			24.84	7.57	2916.59						
	6/27/2006				18.15	5.53	2918.51						
	7/12/2006				18.45	5.62	2918.42	3.7	2.36	3586	511	2.92	6
	8/9/2006				18.81	5.73	2918.31						
	10/3/2006				22.70	6.92	2917.12	3.9	2.83	2820	434	1.42	6
				2006 Mean	21.28		2917.59	3.8		3203	473	2.17	
	1/18/2007	25.42			24.21	7.38	2916.78						
	7/19/2007				18.73	5.71	2918.45	3.6	2.60	3382	359	2.76	6
	9/25/2007				21.43	6.53	2917.51	4.1	2.69	2803	274	1.41	6
				2007 Mean	21.46		2917.58	3.8		3093	317	2.09	
	3/10/2008				24.92	7.60	2916.56	--	--	--	--	--	6
	8/12/2008				18.62	5.68	2918.48	3.5	2.46	3181	529	2.92	6
	9/16/2008				19.94	6.08	2917.96	4.6	2.64	2723	481	0.96	6
				2008 Mean	19.28		2918.22	4.0		2952	505	1.94	

TABLE D-2
McLAREN PIT MONITORING WELL FIELD PARAMETER DATA - 2002 THROUGH 2008
New World Mining District Response and Restoration Project

WELL	DATE	TOTAL DEPTH (feet)	APPROX CASING STICK-UP (feet)	MEASURING POINT ELEVATION (meters)	DEPTH TO GROUND WATER (feet)	DEPTH TO GROUND WATER (meters)	GROUND WATER ELEVATION (meters)	TEMP (deg. C)	pH (su)	SPECIFIC CONDUC-TANCE (uS)	OXIDATION REDUCTION POTENTIAL (mV)	DISSOLVED OXYGEN (mg/L)	NOTE AND MONITORING METHOD
DCGW- 105	10/8/2001	21.3	2.0	2950.6 1	NM	NM	NM	NM	NM	NM	NM	NM	
	7/8/2002	21.3			14.12	4.30	2946.30	4.0	2.83	1832	404	NM	4
	9/17/2002	21.3			17.51	5.34	2945.26	4.5	3.09	1084	NM	NM	4
	10/7/2002	21.3			18.36	5.60	2945.00	5.0	3.05	1253	NM	NM	4
				2002 Minimum	14.12	4.30	2945.00	4.0	2.83	1084			
				2002 Maximum	18.36	5.60	2946.30	5.0	3.09	1832			
				2002 Mean	16.66	5.08	2945.52	4.5		1390			
	7/17/2003	21.3			14.99	4.57	2946.03	2.9	2.56	1638	380	0.43	2
	7/31/2003	NM	Casing added		NM			NM	NM	NM	NM	NM	No Access
	8/13/2003	28.7		2952.9 1	23.42	7.14	2945.76	2.6	2.67	1183	392	0.86	6
	8/27/2003	28.7			23.12	7.05	2945.85	2.6	2.51	1368	391	0.81	6 **
	9/9/2003	28.7			23.69	7.22	2945.68	3.3	2.55	1254	368	0.45	6
	10/1/2003	28.7			24.83	7.57	2945.33	3.6	2.81	1244	372	0.76	6
				2003 Minimum			2945.33	2.6	2.51	1183	368	0.45	
				2003 Maximum			2945.85	3.6	2.81	1638	392	0.86	
				2003 Mean			2945.66	3.0		1337	381	0.72	
	7/20/2004	29.85	3.1	2953.2 2	23.44	7.14	2946.06	3.0	2.44	1728	421	0.40	6
	8/11/2004	29.85			24.09	7.34	2945.86	3.2	3.07	1530	415	2.84	6
	9/28/2004	29.85			25.30	7.71	2945.49	2.9	2.47	1302	388	0.80	6
				2004 Mean			2945.80	3.0		1520	408	1.35	
	5/23/2005	30.1			26.88	8.19	2945.01						
	6/29/2005				22.30	6.80	2946.40						
	7/12/2005				22.77	6.94	2946.26	3.2	2.68	1444	412	0.54	6
	8/10/2005				24.13	7.35	2945.85						
	9/28/2005				25.90	7.89	2945.31	NM	NM	NM	NM	NM	11
	6/27/2006				22.51	6.86	2946.34						
	7/12/2006	30.1			23.34	7.11	2946.09	2.8	3.01	1484	427	0.43	6
	8/9/2006				24.13	7.35	2945.85						
	10/3/2006				26.70	8.14	2945.06	NM	NM	NM	NM	NM	11
	1/18/2007				29.59	9.02	2944.18						
	7/19/2007				23.80	7.25	2945.95	2.5	2.71	1404	106	0.97	6
	9/25/2007				26.03	7.93	2945.27	NM	NM	NM	NM	NM	11
	8/11/2008				23.69	7.22	2945.98	4.5	2.74	1396	435	1.19	6
	9/16/2008				24.60	7.50	2945.70	4.7	2.55	1214	380	0.84	6
				2008 Mean	24.15		2945.84	4.6		1305	408	1.02	
DCGW- 106	8/19/2002	47.5	2.5	2906.11	Artesian			NM	7.16	792	NM	NM	4
	9/5/2002				Artesian			4.1	5.24	744	NM	NM	4
	9/17/2002				Artesian			4.0	7.21	690	NM	NM	4
	10/7/2002				Artesian			3.0	7.04	843	NM	NM	4
				2002 Minimum				3.0	5.24	690			
				2002 Maximum				4.1	7.21	843			
				2002 Mean				3.7		767			
	7/10/2003				Artesian			4.5	6.12	883	-28	0.26	1
	7/31/2003				Artesian			3.1	7.00	858	-30	0.74	6 *
	8/12/2003				Artesian			3.1	6.96	734	-74	1.03	6 *
	8/27/2003				Artesian			3.0	6.94	1211	-23	0.57	6 *
	9/9/2003				Artesian			3.1	6.86	832	-18	0.45	6 *
	10/1/2003				Artesian			3.0	6.93	871	26	0.25	6 *
				2003 Minimum				3.0	6.12	734	-74	0.25	
				2003 Maximum				4.5	7.00	1211	26	1.03	
				2003 Mean				3.3		898	-24	0.61	
	7/20/2004				Artesian	0.54 gpm		3.1	7.03	909	-73	0.37	6
	7/11/2005				Artesian			3.0	7.05	851	-61	0.20	6
	7/11/2006				Artesian	0.52 gpm		3.1	7.23	867	-55	0.03	6
	7/18/2007				Artesian	0.47 gpm		3.0	7.41	827	-38	0.49	6
	8/11/2008				Artesian	0.45 gpm		3.1	7.09	857	-20	1.27	6

TABLE D-2
McLAREN PIT MONITORING WELL FIELD PARAMETER DATA - 2002 THROUGH 2008
New World Mining District Response and Restoration Project

WELL	DATE	TOTAL DEPTH (feet)	APPROX CASING STICK-UP (feet)	MEASURING POINT ELEVATION (meters)	DEPTH TO GROUND WATER (feet)	DEPTH TO GROUND WATER (meters)	GROUND WATER ELEVATION (meters)	TEMP (deg. C)	pH (su)	SPECIFIC CONDUC-TANCE (uS)	OXIDATION REDUCTION POTENTIAL (mV)	DISSOLVED OXYGEN (mg/L)	NOTE AND MONITORING METHOD
DCGW- 107	8/23/2002	25.0	1.6	2883.34	10.79	3.29	2880.05	NM	7.25	558	NM	NM	4
	9/5/2002				15.27	4.65	2878.69	4.9	5.39	572	NM	NM	4
	9/18/2002				15.79	4.81	2878.53	4.5	8.02	447	NM	NM	4
	10/7/2002				15.81	4.82	2878.52	4.5	7.72	604	NM	NM	4
				2002 Minimum	10.79	3.29	2878.52	4.5	5.39	447			
				2002 Maximum	15.81	4.82	2880.05	4.9	8.02	604			
				2002 Mean	14.42	4.39	2878.95	4.6		545			
	7/10/2003				15.94	4.86	2878.48	4.5	7.03	686	-123	2.26	1
	7/31/2003				16.83	5.13	2878.21	3.9	7.74	686	-39	1.64	4 *
	8/13/2003				17.34	5.29	2878.05	2.9	6.90	530	-50	0.70	6 *
	8/27/2003				17.62	5.37	2877.97	2.7	7.28	663	-14	0.65	6 *
	9/9/2003				17.78	5.42	2877.92	3.0	7.41	623	-93	0.41	6 *
	10/1/2003				18.29	5.57	2877.77	3.2	7.03	675	38	0.31	6 *
				2003 Minimum	15.94	4.86	2877.77	2.7	6.90	530	-93	0.31	
				2003 Maximum	18.29	5.57	2878.48	4.5	7.74	686	38	0.70	
				2003 Mean	17.30	5.27	2878.07	3.4		644	-30	1.00	
	7/20/2004				16.21	4.94	2878.40	2.9	7.16	640	-125	0.12	6
	7/11/2005				15.91	4.85	2878.49	2.8	6.65	615	-53	0.31	6
	7/11/2006				16.20	4.94	2878.40	2.9	7.94	596	-101	0.06	6
	7/18/2007				16.92	5.16	2878.18	2.9	7.88	574	-44	0.46	6
	8/12/2008				16.80	5.12	2878.22	2.8	7.52	648	-83	0.93	6
DCGW- 108	8/23/2002	11.1	2.2	2873.36	10.55	3.22	2870.14	6.5	5.59	204	NM	NM	4
	9/5/2002				7.68	2.34	2871.02	7.0	4.80	1663	NM	NM	4
	9/18/2002				9.90	3.02	2870.34	9.0	4.33	248	NM	NM	4
	10/7/2002				6.56	2.00	2871.36	6.5	5.47	235	NM	NM	4
				2002 Minimum	6.56	2.00	2870.14	6.5	4.33	204			
				2002 Maximum	10.55	3.22	2871.36	9.0	5.59	1663			
				2002 Mean	8.67	2.64	2870.72	7.3		588			
	7/9/2003				6.49	1.98	2871.38	4.0	4.41	250	209	8.88	1
	7/31/2003				8.10	2.47	2870.89	4.3	4.46	250	239	9.28	4 **
	8/13/2003				9.60	2.93	2870.43	4.2	4.41	207	472	7.82	5
	8/27/2003				Dry								
				2003 Minimum	6.49	1.98	2870.43	4.0	4.41	207	209	7.82	
				2003 Maximum	9.60	2.93	2871.38	4.3	4.46	250	472	9.28	
				2003 Mean	8.06	2.46	2870.90	4.2		236	307	8.66	
	7/20/2004				8.75	2.67	2870.69	3.0	4.79	245	261	8.57	6
	7/11/2005				6.60	2.01	2871.35	2.8	3.99	216	488	9.09	6
	7/11/2006				8.32	2.54	2870.82	3.3	4.87	163	312	8.40	6
	7/18/2007				10.00	3.05	2870.31	4.6	4.82	58	82	10.31	6
	8/12/2008				8.20	2.50	2870.86	4.2	3.98	161	436	8.44	6
DCGW- 109	8/23/2002	17.4	2.4	2870.67	7.72	2.35	2868.32	NM	7.02	669	NM	NM	4
	9/5/2002				6.90	2.10	2868.57	8.1	5.22	643	NM	NM	4
	9/18/2002				6.76	2.06	2868.61	5.0	7.44	497	NM	NM	4
	10/7/2002				7.16	2.18	2868.49	5.0	7.33	698	NM	NM	4
				2002 Minimum	6.76	2.06	2868.32	5.0	5.22	497			
				2002 Maximum	7.72	2.35	2868.61	8.1	7.44	698			
				2002 Mean	7.14	2.17	2868.50	6.0		627			
	7/10/2003				7.03	2.14	2868.53	3.3	6.96	724	61	2.91	1
	7/31/2003				7.36	2.24	2868.43	3.8	7.13	676	93	3.23	4
	8/13/2003				7.47	2.28	2868.39	3.3	6.95	581	62	1.81	6
	8/27/2003				7.51	2.29	2868.38	3.8	6.86	705	185	2.10	6 *
	9/9/2003				7.56	2.30	2868.37	4.7	7.22	669	77	1.72	6 *
	10/1/2003				7.28	2.22	2868.45	4.9	6.76	715	213	1.74	6 *
				2003 Minimum	7.03	2.14	2868.37	3.3	6.76	581	62	1.72	
				2003 Maximum	7.56	2.30	2868.53	4.9	7.22	724	213	2.10	
				2003 Mean	7.37	2.25	2868.42	4.0		678	134	1.84	
	7/20/2004				7.31	2.23	2868.44	2.4	6.16	738	119	0.51	6
	7/11/2005				6.91	2.11	2868.56	2.2	7.00	694	136	2.03	6
	7/11/2006				7.29	2.22	2868.45	2.6	8.01	698	54	1.71	6
	7/18/2007				7.46	2.27	2868.40	2.9	6.90	682	-11	0.86	6
	8/12/2008				7.42	2.26	2868.41	4.4	5.96	687	262	8.74	6

TABLE D-2
McLAREN PIT MONITORING WELL FIELD PARAMETER DATA - 2002 THROUGH 2008
New World Mining District Response and Restoration Project

WELL	DATE	TOTAL DEPTH (feet)	APPROX CASING STICK-UP (feet)	MEASURING POINT ELEVATION (meters)	DEPTH TO GROUND WATER (feet)	DEPTH TO GROUND WATER (meters)	GROUND WATER ELEVATION (meters)	TEMP (deg. C)	pH (su)	SPECIFIC CONDUC-TANCE (uS)	OXIDATION REDUCTION POTENTIAL (mV)	DISSOLVED OXYGEN (mg/L)	NOTE AND MONITORING METHOD
DCGW- 110	8/23/2002	11.1	1.2	2873.39	6.26	1.91	2871.48	5.5	6.30	953	NM	NM	4
	9/5/2002				6.24	1.90	2871.49	7.0	5.50	963	NM	NM	4
	9/18/2002				6.23	1.90	2871.49	5.5	6.99	707	NM	NM	4
	10/7/2002				6.07	1.85	2871.54	6.0	7.01	1030	NM	NM	4
				2002 Minimum	6.07	1.85	2871.48	5.5	5.50	707			
				2002 Maximum	6.26	1.91	2871.54	7.0	7.01	1030			
				2002 Mean	6.20	1.89	2871.50	6.0		913			
	7/9/2003				6.17	1.88	2871.51	NM	5.97	910	116	1.17	1
	7/31/2003				6.32	1.93	2871.46	3.8	6.64	1056	96	3.67	4
	8/13/2003				6.31	1.92	2871.47	4.6	6.32	834	174	2.04	6
	8/27/2003				6.33	1.93	2871.46	5.0	6.51	1041	279	3.37	6
	9/9/2003				6.30	1.92	2871.47	5.8	6.62	1013	233	1.72	6
	10/1/2003				6.34	1.93	2871.46	6.1	6.46	1077	392	1.57	6 *
				2003 Minimum	6.17	1.88	2871.46	3.8	5.97	834	174	1.57	
				2003 Maximum	6.34	1.93	2871.51	6.1	6.64	1077	392	3.37	
				2003 Mean	6.30	1.92	2871.47	5.0		989	269	2.18	
	7/20/2004				6.11	1.86	2871.53	3.0	6.75	1122	85	1.45	6
	7/11/2005				6.11	1.86	2871.53	2.6	5.79	251	234	8.43	6
	7/11/2006				6.10	1.86	2871.53	2.8	7.07	973	170	1.24	6
	7/18/2007				6.23	1.90	2871.49	4.4	6.65	817	-44	1.97	6
	8/12/2008				6.21	1.89	2871.50	3.6	6.49	855	227	2.90	6
DCGW- 111 S	8/12/2003	24.8	1.8	2911.40	4.27	1.30	2910.10	2.8	5.99	1466	131	4.07	6
	8/27/2003				4.55	1.39	2910.01	2.9	5.54	1681	158	3.49	6 **
	9/9/2003				4.75	1.45	2909.95	3.5	4.65	1525	185	1.68	6
	10/1/2003				6.06	1.85	2909.55	3.2	5.96	1764	184	1.71	6
				2003 Minimum	4.27	1.30	2909.55	2.8	4.65	1466	131	1.68	
				2003 Maximum	6.06	1.85	2910.10	3.5	5.99	1764	185	4.07	
				2003 Mean	4.91	1.50	2909.90	3.1		1609	165	2.74	
	7/19/2004				4.94	1.51	2909.89	3.4	5.30	1869	126	1.20	6
	8/11/2004				5.08	1.55	2909.85	3.1	5.10	1673	138	3.81	6
	9/28/2004				4.77	1.45	2909.95	3.4	4.83	1556	173	3.58	6
				2004 Mean	4.93	1.50	2909.90	3.3		1699	146	2.86	
	7/12/2005				5.65	1.72	2909.68	3.2	5.31	1332	194	3.48	6
	9/28/2005				5.25	1.60	2909.80	3.5	4.42	1406	165	3.70	6
				2005 Mean	5.45	1.66	2909.74	3.3		1369	179	3.59	
	7/12/2006				4.91	1.50	2909.90	3.3	5.26	1325	189	3.15	6
	10/3/2006				6.29	1.92	2909.48	3.8	4.84	1344	225	0.45	6
				2006 Mean	5.60	1.71	2909.69	3.5		1335	207	1.80	
	7/19/2007				5.02	1.53	2909.87	3.2	5.22	1259	26	5.44	6
	9/25/2007				5.32	1.62	2909.78	4.2	4.55	1268	67	0.69	6
				2007 Mean	5.17	1.58	2909.82	3.7		1264	46	3.07	
	8/12/2008				4.89	1.49	2909.91	3.1	4.66	1236	192	5.81	6
	9/16/2008				4.60	1.40	2910.00	4.0	4.22	1240	110	1.64	6
				2008 Mean	4.75	1.45	2909.95	3.6		1238	151	3.73	
DCGW- 111 D	8/12/2003	41.5	1.8	2911.30	10.93	3.33	2907.97	3.2	5.52	1160	122	1.03	6 **
	8/27/2003				10.92	3.33	2907.97	3.0	5.16	1283	178	1.05	6
	9/9/2003				11.51	3.51	2907.79	3.1	4.85	1266	159	0.71	6
	10/1/2003				11.42	3.48	2907.82	3.0	5.42	1250	171	1.07	6 *
				2003 Minimum	10.92	3.33	2907.79	3.0	4.85	1160	122	0.71	
				2003 Maximum	11.51	3.51	2907.97	3.2	5.52	1283	178	1.07	
				2003 Mean	11.20	3.41	2907.89	3.1		1240	157	0.97	
	7/19/2004				11.73	3.58	2907.72	3.5	5.95	1066	72	0.60	6
	8/11/2004				11.58	3.53	2907.77	3.4	5.50	1202	109	0.04	6
	9/28/2004				11.18	3.41	2907.89	3.2	4.56	1401	187	0.76	6 *
				2004 Mean	11.50	3.50	2907.80	3.4		1223	123	0.47	
	7/12/2005				11.70	3.57	2907.73	3.3	5.25	1269	133	0.17	6
	9/28/2005				11.51	3.51	2907.79	3.2	4.33	1363	147	3.78	6
				2005 Mean	11.61	3.54	2907.76	3.2		1316	140	1.98	
	7/12/2006				11.59	3.53	2907.77	3.3	5.00	1370	152	0.07	6
	10/3/2006				12.24	3.73	2907.57	3.3	6.49	813	86	0.17	6
				2006 Mean	11.92	3.63	2907.67	3.3		1092	119	0.12	
	7/19/2007				11.37	3.47	2907.83	3.2	5.40	1320	27	1.28	6
	9/25/2007				11.61	3.54	2907.76	3.3	6.11	990	42	0.27	6
				2007 Mean	11.49	3.50	2907.80	3.3		1155	35	0.78	
	8/12/2008				11.30	3.44	2907.86	3.3	5.16	1278	123	1.30	6
	9/16/2008				10.82	3.30	2908.00	4.2	5.92	930	45	0.14	6
				2008 Mean	11.06	3.37	2907.93	3.8		1104	84	0.72	

TABLE D-2
McLAREN PIT MONITORING WELL FIELD PARAMETER DATA - 2002 THROUGH 2008
New World Mining District Response and Restoration Project

WELL	DATE	TOTAL DEPTH (feet)	APPROX CASING STICK-UP (feet)	MEASURING POINT ELEVATION (meters)	DEPTH TO GROUND WATER (feet)	DEPTH TO GROUND WATER (meters)	GROUND WATER ELEVATION (meters)	TEMP (deg. C)	pH (su)	SPECIFIC CONDUC-TANCE (uS)	OXIDATION REDUCTION POTENTIAL (mV)	DISSOLVED OXYGEN (mg/L)	NOTE AND MONITORING METHOD
DCGW- 112	7/31/2003	36.6	2.0	2861.64 4	7.45	2.27	2859.37	3.4	6.65	1331	34	2.96	6
	8/12/2003				7.65	2.33	2859.31	3.2	6.48	1529	-41	0.73	6
	8/27/2003				7.87	2.40	2859.24	2.9	6.66	1813	-157	0.99	6
	9/9/2003				8.05	2.45	2859.19	3.0	6.58	1826	-124	0.50	6
	10/1/2003				7.96	2.43	2859.21	2.9	6.50	1696	72	0.12	6
				2003 Minimum	7.45	2.27	2859.19	2.9	6.48	1331	-157	0.12	
				2003 Maximum	8.05	2.45	2859.37	3.4	6.66	1826	72	2.96	
				2003 Mean	7.80	2.38	2859.26	3.1		1639	-43	1.06	
	7/11/2006				7.28	2.22	2859.42	3.0	8.23	1247	-19	0.88	6
	7/18/2007				7.72	2.35	2859.29	3.1	6.98	1355	-41	0.67	6
	8/13/2008				10.10	3.08	2858.56	3.2	6.16	1196	-112	2.35	4
DCGW- 131	8/23/2002	22.3	2.8	2923.69	20.69	6.31	2917.38	4.0	6.36	1694	NM	NM	4
	9/5/2002				6.58	2.01	2921.68	4.9	5.44	1685	NM	NM	4
	9/17/2002				6.36	1.94	2921.75	4.0	6.79	1651	NM	NM	4
	10/7/2002				4.81	1.47	2922.22	4.5	6.67	2020	NM	NM	4
				2002 Minimum	4.81	1.47	2917.38	4.0	5.44	1651			
				2002 Maximum	20.69	6.31	2922.22	4.9	6.79	2020			
				2002 Mean	9.61	2.93	2920.76	4.4		1763			
	7/9/2003				0.07	0.02	2923.66	6.0	6.11	2200	-39	0.35	1
	7/31/2003				1.09	0.33	2923.35	2.8	6.56	2038	5	1.31	6
	8/12/2003				2.40	0.73	2922.95	3.7	6.53	1667	-11	3.29	6
	8/27/2003				3.83	1.17	2922.52	2.9	6.49	1946	37	3.17	6
	9/9/2003				4.38	1.34	2922.35	3.3	6.31	1880	74	2.06	6
	10/1/2003				4.85	1.48	2922.21	3.9	6.41	2088	77	1.38	6 *
				2003 Minimum	0.07	0.02	2922.21	2.8	6.11	1667	-11	1.31	
				2003 Maximum	4.85	1.48	2923.66	6.0	6.56	2200	77	3.29	
				2003 Mean	2.77	0.84	2922.84	3.8		1970	36	2.24	
	7/20/2004				0.00	0.00	2923.69	2.7	6.32	1820	13	0.70	6
	7/11/2005				0.00	0.00	2923.69	3.2	6.91	1504	-39	0.91	6
	7/11/2006				Artesian			2.5	6.93	1620	-30	0.05	6 *
	7/18/2007				0.15	0.05	2923.64	2.8	6.54	1569	-42	1.71	6
	9/25/2007				3.27	1.00	2910.30	4.3	6.47	1612	13	0.82	6
				2007 Mean	1.71	0.52	2916.97	3.6		1591	-15	1.27	
	8/11/2008				0.01	0.00	2923.68	3.2	6.7	1535	2	3.14	6
	9/17/2008				2.42	0.74	2910.56	3.2	6.12	1162	32	0.21	6
				2008 Mean	1.22	0.37	2917.12	3.2		1349	17	1.68	
DCGW- 132	8/23/2002	10.3	1.2	2861.64	5.74	1.75	2859.89	6.0	4.22	1174	NM	NM	4
	9/5/2002				5.63	1.72	2859.92	7.0	3.54	1233	NM	NM	4
	9/18/2002				5.54	1.69	2859.95	4.7	3.80	965	NM	NM	4
	10/7/2002				5.55	1.69	2859.94	4.5	4.02	1250	NM	NM	4
				2002 Minimum	5.54	1.69	2859.89	4.5	3.54	965			
				2002 Maximum	5.74	1.75	2859.95	7.0	4.22	1250			
				2002 Mean	5.62	1.71	2859.92	5.6		1156			
	7/10/2003				5.06	1.54	2860.09	3.6	3.73	1422	233	0.77	1
	7/31/2003				5.49	1.67	2859.96	3.0	3.67	1368	264	4.07	6
	8/12/2003				5.66	1.73	2859.91	3.9	3.68	1155	251	1.63	6
	8/27/2003				6.01	1.83	2859.80	4.5	3.49	1347	304	1.40	6
	9/9/2003				6.21	1.89	2859.74	5.9	3.24	1199	334	1.15	6
	10/1/2003				6.19	1.89	2859.75	5.3	3.26	1286	374	2.64	6
				2003 Minimum	5.06	1.54	2859.74	3.0	3.24	1155	251	1.15	
				2003 Maximum	6.21	1.89	2860.09	5.9	3.73	1422	374	4.07	
				2003 Mean	5.77	1.76	2859.88	4.3		1296	305	2.18	
	7/20/2004				5.66	1.73	2859.91	3.4	3.62	1390	298	1.70	6
	8/11/2004				6.01	1.83	2859.80	4.3	3.49	1403	310	0.19	6
	9/28/2004				5.66	1.73	2859.91	4.1	3.27	1377	315	1.65	6
				2004 Mean	5.78	1.76	2859.87	3.9		1390	308	1.18	
	7/11/2005				5.28	1.61	2860.03	2.1	3.86	1304	285	0.54	6
	9/27/2005				5.92	1.80	2859.83	4.5	3.42	1332	302	0.21	6
				2005 Mean	5.60	1.71	2859.93	3.3		1318	294	0.38	
	7/11/2006				5.57	1.70	2859.94	2.4	4.18	1351	293	0.02	6
	10/3/2006				6.05	1.84	2859.79	5.1	3.58	1323	307	0.60	6
				2006 Mean	5.81	1.77	2859.86	3.7		1337	300	0.31	
	7/18/2007				5.81	1.77	2859.86	2.8	3.99	1271	44	0.67	6
	9/26/2007				5.88	1.79	2859.84	5.3	3.73	1279	182	0.90	6
				2007 Mean	5.85	1.78	2859.85	4.1		1275	113	0.79	
	8/12/2008				5.71	1.74	2859.89	2.6	3.57	1301	305	0.98	6
	9/17/2008				5.91	1.80	2859.83	4.1	3.56	1258	149	0.53	6
				2008 Mean	5.81	1.77	2859.86	3.4		1280	227	0.76	

TABLE D-2
McLAREN PIT MONITORING WELL FIELD PARAMETER DATA - 2002 THROUGH 2008
New World Mining District Response and Restoration Project

WELL	DATE	TOTAL DEPTH (feet)	APPROX CASING STICK-UP (feet)	MEASURING POINT ELEVATION (meters)	DEPTH TO GROUND WATER (feet)	DEPTH TO GROUND WATER (meters)	GROUND WATER ELEVATION (meters)	TEMP (deg. C)	pH (su)	SPECIFIC CONDUC-TANCE (uS)	OXIDATION REDUCTION POTENTIAL (mV)	DISSOLVED OXYGEN (mg/L)	NOTE AND MONITORING METHOD
DCGW- 133	8/23/2002	9.7	1.5	2874.45	3.71	1.13	2873.32	8.5	3.75	1110	NM	NM	4
	9/5/2002				3.96	1.21	2873.24	8.1	2.80	1289	NM	NM	4
	9/18/2002				3.23	0.98	2873.46	6.5	2.98	901	NM	NM	4
	10/7/2002				3.83	1.17	2873.28	4.5	3.14	1177	NM	NM	4
				2002 Minimum	3.23	0.98	2873.24	4.5	2.80	901			
				2002 Maximum	3.96	1.21	2873.46	8.5	3.75	1289			
				2002 Mean	3.68	1.12	2873.33	6.9		1119			
	7/10/2003				3.36	1.02	2873.42	5.0	3.07	1168	415	5.80	1
	7/31/2003				3.46	1.05	2873.39	8.8	2.91	1181	498	4.81	6 *
	8/13/2003				3.96	1.21	2873.24	7.3	2.94	1043	465	3.76	6
	8/27/2003				4.23	1.29	2873.16	6.7	2.77	1310	469	2.20	6
	9/9/2003				4.38	1.34	2873.11	7.5	2.64	1280	456	2.71	6
	10/1/2003				4.34	1.32	2873.13	5.6	2.78	1325	491	5.66	6 **
				2003 Minimum	3.36	1.02	2873.11	5.0	2.64	1043	456	2.20	
				2003 Maximum	4.38	1.34	2873.42	8.8	3.07	1325	498	5.66	
				2003 Mean	3.96	1.21	2873.24	6.8		1218	476	3.83	
	7/20/2004				3.78	1.15	2873.30	4.6	2.83	1219	447	5.30	6
	8/11/2004				4.18	1.27	2873.17	7.3	2.85	1359	444	3.30	6
	9/28/2004				3.87	1.18	2873.27	4.3	2.56	1211	486	5.45	6
				2004 Mean	3.94	1.20	2873.25	5.4		1263	459	4.68	
	7/11/2005				3.20	0.98	2873.47	3.7	3.02	953	490	6.66	6
	9/27/2005				5.96	1.82	2872.63	5.1	2.72	1103	511	6.75	6
				2005 Mean	4.58	1.40	2873.05	4.4		1028	501	6.71	
	7/11/2006				3.92	1.19	2873.25	4.9	3.08	1061	465	4.42	6
	10/3/2006				4.43	1.35	2873.10	5.2	2.84	1161	447	6.33	6
				2006 Mean	4.18	1.27	2873.18	5.1		1111	456	5.38	
	7/18/2007				4.18	1.27	2873.17	7.3	3.04	1026	188	4.96	6
	9/26/2007				3.80	1.16	2873.29	7.3	2.97	1081	202	6.62	6
				2007 Mean	3.99	1.22	2873.23	7.3		1054	195	5.79	
	8/12/2008				4.06	1.24	2873.21	6.1	2.92	1041	478	4.43	6
	9/17/2008				4.25	1.30	2873.15	5.3	2.84	1158	446	5.22	6
				2008 Mean	4.16	1.27	2873.18	5.7		1100	462	4.83	
DCGW- 134	8/23/2002	9.3	1.7	2854.19	4.18	1.27	2852.92	8.2	6.62	258	NM	NM	4
	9/5/2002				4.01	1.22	2852.97	7.0	5.28	386	NM	NM	4
	9/18/2002				3.85	1.17	2853.02	6.0	6.83	289	NM	NM	4
	10/7/2002				3.86	1.18	2853.02	6.0	7.03	395	NM	NM	4
				2002 Minimum	3.85	1.17	2852.92	6.0	5.28	258			
				2002 Maximum	4.18	1.27	2853.02	8.2	7.03	395			
				2002 Mean	3.98	1.21	2852.98	6.8		332			
	7/16/2003				3.55	1.08	2853.11	4.0	6.34	411	184	5.45	1
	7/31/2003				3.92	1.19	2853.00	3.8	6.69	470	140	6.69	4
	8/11/2003				4.08	1.24	2852.95	4.5	6.44	410	235	5.73	6 *
	8/27/2003				4.21	1.28	2852.91	4.9	6.53	563	269	5.30	6
	9/9/2003				4.24	1.29	2852.90	5.3	6.87	535	147	5.77	6
	10/1/2003				4.19	1.28	2852.91	5.4	6.49	589	336	5.80	6 *
				2003 Minimum	3.55	1.08	2852.90	3.8	6.34	410	147	5.30	
				2003 Maximum	4.24	1.29	2853.11	5.4	6.87	589	336	5.80	
				2003 Mean	4.03	1.23	2852.96	4.7		496	247	5.65	
	7/20/2004				3.75	1.14	2853.05	2.6	6.81	474	146	6.46	6
	7/11/2005				2.60	0.79	2853.40	1.9	6.36	455	168	7.11	6
	7/11/2006				3.60	1.10	2853.09	3.1	7.16	398	62	7.61	6
	10/3/2006				5.36	1.63	2852.56	5.4	6.15	536	286	4.70	6
				2006 Mean	4.48	1.37	2852.83	4.2		467	174	6.16	
	7/18/2007				3.99	1.22	2852.98	4.5	6.93	405	-43	4.82	6
	9/25/2007				3.93	1.20	2852.99	5.8	6.47	468	50	7.07	6
				2007 Mean	3.96	1.21	2852.98	5.2		437	4	5.95	
	8/12/2008				3.90	1.19	2853.00	4.1	7.01	371	256	6.42	6
	9/17/2008				2.39	0.73	2853.46	4.8	5.93	339	68	6.78	6
				2008 Mean	3.15	0.96	2853.23	4.4		355	162	6.60	

TABLE D-2
McLAREN PIT MONITORING WELL FIELD PARAMETER DATA - 2002 THROUGH 2008
New World Mining District Response and Restoration Project

WELL	DATE	TOTAL DEPTH (feet)	APPROX CASING STICK-UP (feet)	MEASURING POINT ELEVATION (meters)	DEPTH TO GROUND WATER (feet)	DEPTH TO GROUND WATER (meters)	GROUND WATER ELEVATION (meters)	TEMP (deg. C)	pH (su)	SPECIFIC CONDUC-TANCE (uS)	OXIDATION REDUCTION POTENTIAL (mV)	DISSOLVED OXYGEN (mg/L)	NOTE AND MONITORING METHOD
DCGW- 135	8/23/2002	7.4	1.3	2855.14	Dry								
	9/5/2002				6.35	1.94	2853.21	8.5	5.30	682	NM	NM	4
	9/18/2002				5.20	1.58	2853.56	6.8	6.19	189	NM	NM	4
	10/7/2002				6.04	1.84	2853.30	6.0	6.01	249	NM	NM	4
				2002 Minimum	5.20	1.58	2853.21	6.0	5.30	189			
				2002 Maximum	6.35	1.94	2853.56	8.5	6.19	682			
				2002 Mean	5.86	1.79	2853.35	7.1		373			
	7/10/2003				5.79	1.76	2853.38	6.5	5.76	120	190	5.49	1
	7/31/2003				6.10	1.86	2853.28	5.9	5.66	151	135	5.35	5
	8/11/2003				6.80	2.07	2853.07	NM	NM	NM	NM	NM	8
	8/27/2003				Dry								
				2003 Minimum	5.79	1.76	2853.07	5.9	5.66	120	135	5.35	
				2003 Maximum	6.80	2.07	2853.38	6.5	5.76	151	190	5.49	
				2003 Mean	6.23	1.90	2853.24	6.2		136	163	5.42	
	7/20/2004				6.80	2.07	2853.07	4.3	5.47	106	173	8.00	6
	7/11/2005				3.40	1.04	2854.11	4.3	4.83	108	114	7.76	6
	7/11/2006				6.10	1.86	2853.28	5.3	4.87	101	41	6.4	6
	10/3/2006				5.95	1.81	2853.33	5.6	4.69	110	457	8.46	6
				2006 Mean	6.03	1.84	2853.31	5.4		106	249	7.43	
	7/18/2007				6.60	2.01	2853.13	5.9	4.06	251	45	6.95	6
	9/25/2007				1.81	0.55	2854.59	6.3	4.64	91	127	5.95	6
				2007 Mean	4.21	1.28	2853.86	6.1		171	86	6.45	
	8/12/2008				6.30	1.92	2853.22	6.3	5.04	128	389	5.81	6
	9/17/2008				6.81	2.08	2853.07	--	--	--	--	--	8
				2008 Mean	6.56	2.00	2853.14	6.3		128	389	5.81	
DCGW- 136	8/23/2002	11.0	2.3	2852.88	4.03	1.23	2851.65	6.8	6.96	360	NM	NM	4
	9/5/2002				4.39	1.34	2851.54	6.0	5.01	422	NM	NM	4
	9/18/2002				3.79	1.16	2851.72	6.0	5.38	296	NM	NM	4
	10/7/2002				3.72	1.13	2851.75	6.0	5.60	409	NM	NM	4
				2002 Minimum	3.72	1.13	2851.54	6.0	5.01	296			
				2002 Maximum	4.39	1.34	2851.75	6.8	6.96	422			
				2002 Mean	3.98	1.21	2851.67	6.2		372			
	7/10/2003				2.89	0.88	2852.00	4.0	4.76	438	236	5.88	1
	7/31/2003				4.09	1.25	2851.63	4.7	5.28	423	263	7.16	4
	8/11/2003				4.38	1.34	2851.54	4.5	5.13	362	310	5.63	6 **
	8/27/2003				4.87	1.48	2851.39	4.5	5.31	450	336	5.68	6
	9/9/2003				4.79	1.46	2851.42	5.4	5.10	380	294	5.11	6
	10/1/2003				4.73	1.44	2851.44	4.7	5.53	456	392	5.34	6
				2003 Minimum	2.89	0.88	2851.39	4.0	4.76	362	294	5.11	
				2003 Maximum	4.87	1.48	2852.00	5.4	5.53	456	392	5.68	
				2003 Mean	4.29	1.31	2851.57	4.6		418	333	5.44	
	7/20/2004				3.44	1.05	2851.83	2.9	5.71	537	220	4.46	6
	8/11/2004				4.25	1.30	2851.58	4.0	4.92	462	319	4.99	6
	9/28/2004				2.68	0.82	2852.06	4.0	6.05	702	198	1.25	6
				2004 Mean	3.46	1.05	2851.83	3.6		567	246	3.57	
	7/11/2005				2.50	0.76	2852.12	2.3	5.28	492	246	5.48	6
	9/27/2005				3.98	1.21	2851.67	4.3	5.04	474	368	3.93	6
				2005 Mean	3.24	0.99	2851.89	3.3		483	307	4.71	
	7/11/2006				3.36	1.02	2851.85	3.1	5.73	536	271	3.93	6
	10/3/2006				4.24	1.29	2851.59	4.3	6.24	546	335	2.14	6
				2006 Mean	3.80	1.16	2851.72	3.7		541	303	3.04	
	7/18/2007				4.74	1.44	2851.43	4.0	5.00	346	46	7.63	6
	9/25/2007				4.09	1.25	2851.63	4.9	5.48	499	59	3.76	6
				2007 Mean	4.42	1.35	2851.53	4.4		423	52	5.70	
	8/12/2008				4.28	1.30	2851.57	3.6	5.09	395	343	5.25	6
	9/16/2008				4.72	1.44	2851.44	4.2	5.72	490	61	3.83	6
				2008 Mean	4.50	1.37	2851.51	3.9		443	202	4.54	

TABLE D-2
McLAREN PIT MONITORING WELL FIELD PARAMETER DATA - 2002 THROUGH 2008
New World Mining District Response and Restoration Project

WELL	DATE	TOTAL DEPTH (feet)	APPROX CASING STICK-UP (feet)	MEASURING POINT ELEVATION (meters)	DEPTH TO GROUND WATER (feet)	DEPTH TO GROUND WATER (meters)	GROUND WATER ELEVATION (meters)	TEMP (deg. C)	pH (su)	SPECIFIC CONDUC-TANCE (uS)	OXIDATION REDUCTION POTENTIAL (mV)	DISSOLVED OXYGEN (mg/L)	NOTE AND MONITORING METHOD
DCGW- 137	8/23/2002	15.5	1.7	2848.67	6.46	1.97	2846.70	6.0	5.83	225	NM	NM	4
	9/5/2002				4.47	1.36	2847.31	6.0	5.96	265	NM	NM	4
	9/18/2002				3.39	1.03	2847.64	6.0	7.38	182	NM	NM	4
	10/7/2002				3.34	1.02	2847.65	6.0	7.52	246	NM	NM	4
				2002 Minimum	3.34	1.02	2846.70	6.0	5.83	182			
				2002 Maximum	6.46	1.97	2847.65	6.0	7.52	265			
				2002 Mean	4.42	1.35	2847.32	6.0		230			
	7/10/2003				3.25	0.99	2847.68	4.0	6.70	235	155	0.46	1
	7/31/2003				4.12	1.26	2847.41	2.8	6.77	231	132	2.77	6
	8/11/2003				4.44	1.35	2847.32	3.2	6.71	196	210	3.23	6 **
	8/27/2003				4.83	1.47	2847.20	3.6	6.81	248	239	4.21	6
	9/9/2003				4.72	1.44	2847.23	4.2	6.90	243	202	3.05	6
	10/1/2003				4.82	1.47	2847.20	4.7	6.78	258	373	3.15	6
				2003 Minimum	3.25	0.99	2847.20	2.8	6.70	196	132	2.77	
				2003 Maximum	4.83	1.47	2847.68	4.7	6.90	258	373	4.21	
				2003 Mean	4.36	1.33	2847.34	3.7		235	231	3.28	
	7/20/2004				3.26	0.99	2847.68	3.0	7.48	232	22	4.73	6
	8/11/2004				4.10	1.25	2847.42	3.4	6.73	245	187	2.36	6
	9/28/2004				2.64	0.80	2847.87	4.3	6.58	236	148	2.95	6
				2004 Mean	3.33	1.02	2847.65	3.6		238	119	3.35	
	7/11/2005				2.62	0.80	2847.87	2.5	7.28	216	127	5.29	6
	9/27/2005				13.09	3.99	2844.68	4.6	5.80	232	287	0.82	6
				2005 Mean	7.86	2.39	2846.28	3.6		224	207	3.06	
	7/11/2006				3.30	1.01	2847.66	2.7	7.22	185	148	4.48	6
	10/3/2006				3.72	1.13	2847.54	4.7	6.84	240	252	1.83	6
				2006 Mean	3.51	1.07	2847.60	3.7		213	200	3.16	
	7/18/2007				4.35	1.33	2847.34	3.5	6.80	87	26	4.59	6
	9/25/2007				2.96	0.90	2847.77	5.0	5.86	230	38	2.40	6
				2007 Mean	3.66	1.11	2847.56	4.2		159	32	3.50	
	8/12/2008				3.98	1.21	2847.46	3.0	7.09	174	262	4.50	6
	9/16/2008				4.31	1.31	2847.36	4.7	5.76	173	63	1.65	6
				2008 Mean	4.15	1.26	2847.41	3.8		174	162	3.08	
DCGW- 138	8/23/2002	21.0	2.9	2861.67	8.73	2.66	2859.01	5.0	6.74	296	NM	NM	4
	9/5/2002				10.22	3.12	2858.55	6.8	4.92	333	NM	NM	4
	9/18/2002				10.80	3.29	2858.37	4.0	6.58	283	NM	NM	4
	10/7/2002				11.63	3.54	2858.12	4.0	6.73	459	NM	NM	4
				2002 Minimum	8.73	2.66	2858.12	4.0	4.92	283			
				2002 Maximum	11.63	3.54	2859.01	6.8	6.74	459			
				2002 Mean	10.35	3.15	2858.51	5.0		343			
	7/10/2003				4.58	1.40	2860.27	3.5	6.15	237	148	9.78	1
	7/31/2003				7.60	2.32	2859.35	3.1	5.84	163	202	10.52	4
	8/11/2003				8.95	2.73	2858.94	2.4	5.64	207	354	9.44	6
	8/27/2003				10.20	3.11	2858.56	2.4	6.00	348	291	8.75	6
	9/9/2003				10.94	3.33	2858.33	2.8	6.29	409	158	7.30	6 **
	10/1/2003				12.26	3.74	2857.93	3.1	6.04	579	403	7.52	6 *
				2003 Minimum	4.58	1.40	2857.93	2.4	5.64	163	158	7.30	
				2003 Maximum	12.26	3.74	2860.27	3.5	6.29	579	403	9.44	
				2003 Mean	9.09	2.77	2858.90	2.9		324	301	8.25	
	Not Monitored in 2004 Not Monitored in 2005												
	7/11/2006				5.60	1.71	2859.96	1.9	7.77	306	285	6.94	6
	7/18/2007				7.78	2.37	2859.29	2.3	5.47	*** 85 - 129	78	10.13	6
	8/12/2008				7.22	2.20	2859.47	2.0	7.14	260	338	7.59	6

Notes:

NM	Not measured	Total Depth (TD) and depth to groundwater measured from top of PVC casing			
ND	Not determined	Casing stick-up measured from ground surface			
SC	Specific Conductivity measured in micro siemens/cm		2003 data selected for min, max, mean	***	Unstable measurement
ORP	Oxidation Reduction Potential (Eh) measured in millivolts	*	ORP measurement slowly decreasing	gpm	Gallons per minute
DO	Dissolved Oxygen measured in milligrams per liter	**	ORP measurement slowly increasing		

Note on Monitoring Method

1 Temperature and DO measurement conducted as pre-purge, downhole measurement, other parameters measured after purging well
2 DO measurement conducted as an in-situ, downhole measurement, remainder of parameters measured after purging well
3 Sample collected for measurement of field parameters. No significant purging of well conducted
4 Sample collected for measurement of field parameters after purging of well conducted
5 All field parameters measured with multiprobe in in-situ, downhole measurement. No significant purging of well conducted
6 All field parameters measured with multiprobe in in-situ, downhole measurement after purging of well conducted
7 Depth to groundwater exceeded multiprobe chord length and no sample was collected
8 Insufficient water for multiprobe in well
9 All field parameters measured with multiprobe in *flow-through-cell* after purging of well conducted
10 Suspect incorrect DO measurement due to aeration of groundwater from purging well
11 Bent casing prevents access to groundwater in well

Note on Measuring Point Elevation

1 Elevation based on measured total depth of well.
2 Ground surface elevation adjacent to well surveyed by Gallatin National Forest personnel on August 24, 2004
3 Ground surface elevation estimated from topographic survey

APPENDIX D-2

2008 GROUNDWATER FIELD FORMS

NOTICE : Information specific to this Appendix is not included in this version of the report. Please contact Gallatin National Forest, Bozeman, Montana to obtain this information.

APPENDIX E

FIELD NOTES
2008 SURFACE WATER AND GROUNDWATER MONITORING REPORT
New World Mining District Response and Restoration Project

NOTICE : Information specific to this Appendix is not included in this version of the report. Please contact Gallatin National Forest, Bozeman, Montana to obtain this information.

APPENDIX F

LABORATORY ANALYTICAL REPORTS
2008 SURFACE WATER AND GROUNDWATER MONITORING REPORT
New World Mining District Response and Restoration Project

NORTHERN
Analytical Laboratories, Inc.

602 South 25th Street
P O Box 30315
Billings, MT 59107
Telephone: (406) 254-7226
Fax: (406) 254-1389

REPORT TO:	ATTN:ALLAN KIRK TETRA TECH, INC. 851 BRIDGER DRIVE BOZEMAN, MT 59718	**DATE:** **JOB NUMBER:** **PAGE:** **INVOICE NO.:**	May 23, 2008 87-911-12 1 of 38 8040143

REPORT OF: Water Analysis – New World – Project No. 1157561506.205

CASE NARRATIVE:

On April 18, 2008 these water samples (laboratory numbers 2008040143-1 through -16) were received in our laboratory for analysis. The condition of the samples upon receipt at the laboratory is noted on the attached sample receipt checklist. Chain of custody documentation is enclosed. Tests were conducted in accordance with *"Standard Methods for the Examination of Water and Wastewater"*, 20th Edition; EPA/600/R-93-100 *"Methods for the Determination of Inorganic Substances in Environmental Samples"*; EPA/600/R-94-111 *"Methods for the Determination of Metals in Environmental Samples"*, Supplement I; and Code of Federal Regulations, Title 40, Part 136.

The results of the analysis are shown on the following pages. A < sign indicates the value reported was the reporting limit for this sample using the method described. Concentrations of analyte if present below this were not quantifiable. Sample results are not corrected for analyte blank concentrations. Values in brackets are the quality control limits for the associated quality control test. RPD is the abbreviation for relative percent difference.

The analysis of "RR-DC-2" for acidity was performed after the holding time had passed. The analysis performed within the holding time for acidity was not usable.

Footnotes used in this report include the following:
HT- The analysis was performed after the holding time had passed.

Reviewed by _____
Kathleen A. Smit – Laboratory Manager

Attachments: Chain of Custody (2)
Sample Receipt Checklist
Table 5
nct

As a mutual protection to clients, the public and ourselves, all reports are submitted as the confidential property of our clients and authorization for publication of statements, conclusions or extracts from or regarding our reports is reserved pending our written approval. Test results apply specifically to the samples tested only. The entire report shall not be reproduced, except in full, without the written approval of the laboratory. Samples will be disposed of after testing is completed unless other arrangements are agreed to in writing.

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 1157561506.205
Laboratory No.: 2008040143-1
Sample Name: RR-DC-2
Sample Date/Time: 04/17/2008 13:45:
Collected by: SHANE MATOLYAK
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3	60HT	mg/l	ES	2	2310 B	05/06/2008 08:00:00 AM
Alkalinity Bicarbonate as HCO3	<1	mg/l	ES	1	2320B	04/25/2008 09:20:00 AM
Alkalinity Carbonate as CO3	0	mg/l	ES	0	2320B	04/25/2008 09:20:00 AM
Alkalinity Total as CaCO3	<1	mg/l	ES	1	2320B	04/25/2008 09:20:00 AM
Chloride as Cl	<1	mg/l	ES	1	300.0	04/24/2008 10:19:00 PM
Sulfate as SO4	300	mg/l	ES	5	300.0	04/24/2008 10:50:00 PM
Hardness as CaCO3	235	mg/l	BH	7	2340B	04/23/2008 02:24:00 PM
Electrical Conductivity	555	umhos/cm	BH	10	2510B	05/01/2008 11:30:00 AM
pH	4.8	S.U.	RM	0.1-13.5	4500-H+-B	04/18/2008 02:00:00 PM
Total Dissolved Solids	432	mg/l	RM	20	2540C	04/21/2008 09:17:00 AM
Total Suspended Solids	19	mg/l	RM	4	2540D	04/21/2008 09:40:00 AM
Aluminum as Al (Total Recoverable)	8.53	mg/l	KC	0.05	200.7	04/23/2008 02:24:00 PM
Cadmium as Cd (Total Recoverable)	0.0035	mg/l	BH	0.0001	200.8	04/21/2008 06:14:00 PM
Calcium as Ca (Total Recoverable)	71	mg/l	KC	1	200.7	04/23/2008 02:24:00 PM
Copper as Cu (Total Recoverable)	1.79	mg/l	KC	0.02	200.7	04/23/2008 02:24:00 PM
Iron as Fe (Total Recoverable)	13.3	mg/l	KC	0.01	200.7	04/23/2008 02:24:00 PM
Lead as Pb (Total Recoverable)	0.003	mg/l	BH	0.001	200.8	04/21/2008 06:14:00 PM
Magnesium as Mg (Total Recoverable)	14	mg/l	KC	1	200.7	04/23/2008 02:24:00 PM
Manganese as Mn (Total Recoverable)	1.93	mg/l	KC	0.003	200.7	04/23/2008 02:24:00 PM
Potassium as K (Total Recoverable)	2	mg/l	KC	1	200.7	04/23/2008 02:24:00 PM
Sodium as Na (Total Recoverable)	2	mg/l	KC	1	200.7	04/23/2008 02:24:00 PM
Zinc as Zn (Total Recoverable)	0.50	mg/l	KC	0.01	200.7	04/23/2008 02:24:00 PM
Cations	6.03	meq/l	---	0.30	1030F	
Anions	6.25	meq/l	---	0.38	1030F	
Cation/Anion Balance	1.79	% [max 2%]	---	-----	AWWA/APHA	
Metals Batch#/Digestion Date	1502	-----	BH		200.2	04/18/2008 03:00:00 PM

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 1157561506.205
Laboratory No.: 2008040143-2
Sample Name: RR-DC-5
Sample Date/Time: 04/17/2008 13:15:
Collected by: SHANE MATOLYAK
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3	<2	mg/l	ES	2	2310 B	04/28/2008 05:02:42 PM
Alkalinity Bicarbonate as HCO3	80	mg/l	ES	1	2320B	04/25/2008 09:20:00 AM
Alkalinity Carbonate as CO3	0	mg/l	ES	0	2320B	04/25/2008 09:20:00 AM
Alkalinity Total as CaCO3	66	mg/l	ES	1	2320B	04/25/2008 09:20:00 AM
Chloride as Cl	<1	mg/l	ES	1	300.0	04/25/2008 01:53:00 AM
Sulfate as SO4	116	mg/l	ES	5	300.0	04/25/2008 01:53:00 AM
Hardness as CaCO3	171	mg/l	BH	7	2340B	04/21/2008 06:03:00 PM
Electrical Conductivity	358	umhos/cm	BH	10	2510B	05/01/2008 11:30:00 AM
pH	7.7	S.U.	RM	0.1-13.5	4500-H+-B	04/18/2008 02:00:00 PM
Total Dissolved Solids	251	mg/l	RM	20	2540C	04/21/2008 09:17:00 AM
Total Suspended Solids	7	mg/l	RM	3	2540D	04/21/2008 09:40:00 AM
Aluminum as Al (Dissolved)	<0.05	mg/l	KC	0.05	200.7	04/21/2008 06:03:00 PM
Aluminum as Al (Total Recoverable)	1.19	mg/l	KC	0.05	200.7	04/23/2008 02:27:00 PM
Cadmium as Cd (Dissolved)	0.0005	mg/l	BH	0.0001	200.8	04/22/2008 03:56:00 PM
Cadmium as Cd (Total Recoverable)	0.0007	mg/l	BH	0.0001	200.8	04/21/2008 06:20:00 PM
Calcium as Ca (Dissolved)	52	mg/l	KC	1	200.7	04/21/2008 06:03:00 PM
Calcium as Ca (Total Recoverable)	55	mg/l	KC	1	200.7	05/06/2008 11:00:00 AM
Copper as Cu (Dissolved)	0.018	mg/l	BH	0.001	200.8	04/22/2008 03:56:00 PM
Copper as Cu (Total Recoverable)	0.31	mg/l	KC	0.02	200.7	04/23/2008 02:27:00 PM
Iron as Fe (Dissolved)	<0.01	mg/l	KC	0.01	200.7	04/21/2008 06:03:00 PM
Iron as Fe (Total Recoverable)	1.30	mg/l	KC	0.01	200.7	04/23/2008 02:27:00 PM
Lead as Pb (Dissolved)	<0.001	mg/l	BH	0.001	200.8	04/22/2008 03:56:00 PM
Lead as Pb (Total Recoverable)	<0.001	mg/l	BH	0.001	200.8	04/21/2008 06:20:00 PM
Magnesium as Mg (Dissolved)	10	mg/l	KC	1	200.7	04/21/2008 06:03:00 PM
Magnesium as Mg (Total Recoverable)	11	mg/l	KC	1	200.7	05/06/2008 11:00:00 AM
Manganese as Mn (Dissolved)	0.35	mg/l	KC	0.003	200.7	04/21/2008 06:03:00 PM
Manganese as Mn (Total Recoverable)	0.37	mg/l	KC	0.003	200.7	04/23/2008 02:27:00 PM
Potassium as K (Dissolved)	<1	mg/l	KC	1	200.7	04/21/2008 06:03:00 PM
Potassium as K (Total Recoverable)	<1	mg/l	KC	1	200.7	05/06/2008 11:00:00 AM
Sodium as Na (Dissolved)	1	mg/l	KC	1	200.7	04/21/2008 06:03:00 PM
Sodium as Na (Total Recoverable)	1	mg/l	KC	1	200.7	05/06/2008 11:00:00 AM
Zinc as Zn (Dissolved)	0.05	mg/l	KC	0.01	200.7	04/21/2008 06:03:00 PM
Zinc as Zn (Total Recoverable)	0.09	mg/l	KC	0.01	200.7	04/23/2008 02:27:00 PM

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 1157561506.205
Laboratory No.: 2008040143-2
Sample Name: RR-DC-5
Sample Date/Time: 04/17/2008 13:15:
Collected by: SHANE MATOLYAK
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Cations	3.69	meq/l	---	0.30	1030F	
Anions	3.74	meq/l	---	0.38	1030F	
Cation/Anion Balance	0.56	% [max 2%]	---	----	AWWA/APHA	
Metals Batch#/Digestion Date	1502	----	BH		200.2	04/18/2008 03:00:00 PM

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 1157561506.205
Laboratory No.: 2008040143-3
Sample Name: RR-SW-7
Sample Date/Time: 04/17/2008 12:30:
Collected by: SHANE MATOLYAK
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3	<2	mg/l	ES	2	2310 B	04/28/2008 05:04:07 PM
Alkalinity Bicarbonate as HCO3	112	mg/l	ES	1	2320B	04/25/2008 09:20:00 AM
Alkalinity Carbonate as CO3	0	mg/l	ES	0	2320B	04/25/2008 09:20:00 AM
Alkalinity Total as CaCO3	92	mg/l	ES	1	2320B	04/25/2008 09:20:00 AM
Chloride as Cl	<1	mg/l	ES	1	300.0	04/25/2008 02:23:00 AM
Sulfate as SO4	24	mg/l	ES	5	300.0	04/25/2008 02:23:00 AM
Hardness as CaCO3	119	mg/l	BH	7	2340B	04/21/2008 06:17:00 PM
Electrical Conductivity	237	umhos/cm	BH	10	2510B	05/01/2008 11:30:00 AM
pH	7.6	S.U.	RM	0.1-13.5	4500-H+-B	04/18/2008 02:00:00 PM
Total Dissolved Solids	145	mg/l	RM	20	2540C	04/21/2008 09:17:00 AM
Total Suspended Solids	<1	mg/l	RM	1	2540D	04/21/2008 09:40:00 AM
Aluminum as Al (Dissolved)	<0.05	mg/l	KC	0.05	200.7	04/21/2008 06:17:00 PM
Aluminum as Al (Total Recoverable)	<0.05	mg/l	KC	0.05	200.7	04/23/2008 02:33:00 PM
Cadmium as Cd (Dissolved)	<0.0001	mg/l	BH	0.0001	200.8	04/22/2008 04:08:00 PM
Cadmium as Cd (Total Recoverable)	<0.0001	mg/l	BH	0.0001	200.8	04/21/2008 06:45:00 PM
Calcium as Ca (Dissolved)	36	mg/l	KC	1	200.7	04/21/2008 06:17:00 PM
Calcium as Ca (Total Recoverable)	36	mg/l	KC	1	200.7	04/23/2008 02:33:00 PM
Copper as Cu (Dissolved)	0.001	mg/l	BH	0.001	200.8	04/22/2008 04:08:00 PM
Copper as Cu (Total Recoverable)	0.003	mg/l	BH	0.001	200.8	04/21/2008 06:45:00 PM
Iron as Fe (Dissolved)	0.05	mg/l	KC	0.01	200.7	04/21/2008 06:17:00 PM
Iron as Fe (Total Recoverable)	0.16	mg/l	KC	0.01	200.7	04/23/2008 02:33:00 PM
Lead as Pb (Dissolved)	<0.001	mg/l	BH	0.001	200.8	04/22/2008 04:08:00 PM
Lead as Pb (Total Recoverable)	0.002	mg/l	BH	0.001	200.8	04/21/2008 06:45:00 PM
Magnesium as Mg (Dissolved)	7	mg/l	KC	1	200.7	04/21/2008 06:17:00 PM
Magnesium as Mg (Total Recoverable)	7	mg/l	KC	1	200.7	04/23/2008 02:33:00 PM
Manganese as Mn (Dissolved)	0.021	mg/l	BH	0.003	200.8	04/22/2008 04:08:00 PM
Manganese as Mn (Total Recoverable)	0.022	mg/l	KC	0.003	200.7	04/23/2008 02:33:00 PM
Potassium as K (Dissolved)	<1	mg/l	KC	1	200.7	04/21/2008 06:17:00 PM
Potassium as K (Total Recoverable)	<1	mg/l	KC	1	200.7	04/23/2008 02:33:00 PM
Sodium as Na (Dissolved)	2	mg/l	KC	1	200.7	04/21/2008 06:17:00 PM
Sodium as Na (Total Recoverable)	2	mg/l	KC	1	200.7	04/23/2008 02:33:00 PM
Zinc as Zn (Dissolved)	<0.01	mg/l	KC	0.01	200.7	04/21/2008 06:17:00 PM
Zinc as Zn (Total Recoverable)	<0.01	mg/l	KC	0.01	200.7	04/23/2008 02:33:00 PM

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 1157561506.205
Laboratory No.: 2008040143-3
Sample Name: RR-SW-7
Sample Date/Time: 04/17/2008 12:30:
Collected by: SHANE MATOLYAK
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Cations	2.46	meq/l	---	0.30	1030F	
Anions	2.34	meq/l	---	0.38	1030F	
Cation/Anion Balance	0.12	[max 0.20]	---	-----	AWWA/APHA	
Metals Batch#/Digestion Date	1502	-----	BH		200.2	04/18/2008 03:00:00 PM

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 1157561506.205
Laboratory No.: 2008040143-4
Sample Name: RR-SW-3
Sample Date/Time: 04/17/2008 11:00:
Collected by: SHANE MATOLYAK
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3	19	mg/l	ES	2	2310 B	04/28/2008 05:05:19 PM
Alkalinity Bicarbonate as HCO3	<1	mg/l	ES	1	2320B	04/25/2008 09:20:00 AM
Alkalinity Carbonate as CO3	0	mg/l	ES	0	2320B	04/25/2008 09:20:00 AM
Alkalinity Total as CaCO3	<1	mg/l	ES	1	2320B	04/25/2008 09:20:00 AM
Chloride as Cl	<1	mg/l	ES	1	300.0	04/25/2008 02:54:00 AM
Sulfate as SO4	89	mg/l	ES	5	300.0	04/25/2008 02:54:00 AM
Hardness as CaCO3	56	mg/l	BH	7	2340B	04/23/2008 02:35:00 PM
Electrical Conductivity	225	umhos/cm	BH	10	2510B	05/01/2008 11:30:00 AM
pH	3.9	S.U.	RM	0.1-13.5	4500-H+-B	04/18/2008 02:00:00 PM
Total Dissolved Solids	146	mg/l	RM	20	2540C	04/21/2008 09:17:00 AM
Total Suspended Solids	<1	mg/l	RM	1	2540D	04/21/2008 09:40:00 AM
Aluminum as Al (Total Recoverable)	2.13	mg/l	KC	0.05	200.7	04/23/2008 02:35:00 PM
Cadmium as Cd (Total Recoverable)	0.0011	mg/l	BH	0.0001	200.8	04/21/2008 06:51:00 PM
Calcium as Ca (Total Recoverable)	16	mg/l	KC	1	200.7	04/23/2008 02:35:00 PM
Copper as Cu (Total Recoverable)	0.97	mg/l	KC	0.02	200.7	04/23/2008 02:35:00 PM
Iron as Fe (Total Recoverable)	1.01	mg/l	KC	0.01	200.7	04/23/2008 02:35:00 PM
Lead as Pb (Total Recoverable)	0.001	mg/l	BH	0.001	200.8	04/21/2008 06:51:00 PM
Magnesium as Mg (Total Recoverable)	4	mg/l	KC	1	200.7	04/23/2008 02:35:00 PM
Manganese as Mn (Total Recoverable)	0.54	mg/l	KC	0.003	200.7	04/23/2008 02:35:00 PM
Potassium as K (Total Recoverable)	2	mg/l	KC	1	200.7	04/23/2008 02:35:00 PM
Sodium as Na (Total Recoverable)	5	mg/l	KC	1	200.7	04/23/2008 02:35:00 PM
Zinc as Zn (Total Recoverable)	0.14	mg/l	KC	0.01	200.7	04/23/2008 02:35:00 PM
Cations	1.78	meq/l	---	0.30	1030F	
Anions	1.85	meq/l	---	0.38	1030F	
Cation/Anion Balance	0.07	[max 0.20]	---	-----	AWWA/APHA	
Metals Batch#/Digestion Date	1502	-----	BH		200.2	04/18/2008 03:00:00 PM

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 1157561506.205
Laboratory No.: 2008040143-5
Sample Name: RR-SW-4
Sample Date/Time: 04/17/2008 10:30:
Collected by: SHANE MATOLYAK
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3	<2	mg/l	ES	2	2310 B	04/28/2008 06:56:26 PM
Alkalinity Bicarbonate as HCO3	11	mg/l	ES	1	2320B	04/25/2008 09:20:00 AM
Alkalinity Carbonate as CO3	0	mg/l	ES	0	2320B	04/25/2008 09:20:00 AM
Alkalinity Total as CaCO3	9	mg/l	ES	1	2320B	04/25/2008 09:20:00 AM
Chloride as Cl	<1	mg/l	ES	1	300.0	04/25/2008 03:24:00 AM
Sulfate as SO4	41	mg/l	ES	5	300.0	04/25/2008 03:24:00 AM
Hardness as CaCO3	45	mg/l	BH	7	2340B	04/21/2008 06:20:00 PM
Electrical Conductivity	121	umhos/cm	BH	10	2510B	05/01/2008 11:30:00 AM
pH	7.0	S.U.	RM	0.1-13.5	4500-H+-B	04/18/2008 02:00:00 PM
Total Dissolved Solids	74	mg/l	RM	20	2540C	04/21/2008 09:17:00 AM
Total Suspended Solids	<1	mg/l	RM	1	2540D	04/21/2008 09:40:00 AM
Aluminum as Al (Dissolved)	<0.05	mg/l	KC	0.05	200.7	04/21/2008 06:20:00 PM
Aluminum as Al (Total Recoverable)	<0.05	mg/l	KC	0.05	200.7	04/23/2008 02:38:00 PM
Cadmium as Cd (Dissolved)	0.0002	mg/l	BH	0.0001	200.8	04/22/2008 04:14:00 PM
Cadmium as Cd (Total Recoverable)	0.0002	mg/l	BH	0.0001	200.8	04/21/2008 06:57:00 PM
Calcium as Ca (Dissolved)	13	mg/l	KC	1	200.7	04/21/2008 06:20:00 PM
Calcium as Ca (Total Recoverable)	13	mg/l	KC	1	200.7	04/23/2008 02:38:00 PM
Copper as Cu (Dissolved)	0.036	mg/l	BH	0.001	200.8	04/22/2008 04:14:00 PM
Copper as Cu (Total Recoverable)	0.044	mg/l	BH	0.001	200.8	04/21/2008 06:57:00 PM
Iron as Fe (Dissolved)	<0.01	mg/l	KC	0.01	200.7	04/21/2008 06:20:00 PM
Iron as Fe (Total Recoverable)	0.02	mg/l	KC	0.01	200.7	04/23/2008 02:38:00 PM
Lead as Pb (Dissolved)	<0.001	mg/l	BH	0.001	200.8	04/22/2008 04:14:00 PM
Lead as Pb (Total Recoverable)	<0.001	mg/l	BH	0.001	200.8	04/21/2008 06:57:00 PM
Magnesium as Mg (Dissolved)	3	mg/l	KC	1	200.7	04/21/2008 06:20:00 PM
Magnesium as Mg (Total Recoverable)	3	mg/l	KC	1	200.7	04/23/2008 02:38:00 PM
Manganese as Mn (Dissolved)	0.010	mg/l	BH	0.003	200.8	04/22/2008 04:14:00 PM
Manganese as Mn (Total Recoverable)	0.011	mg/l	KC	0.003	200.7	04/23/2008 02:38:00 PM
Potassium as K (Dissolved)	<1	mg/l	KC	1	200.7	04/21/2008 06:20:00 PM
Potassium as K (Total Recoverable)	<1	mg/l	KC	1	200.7	04/23/2008 02:38:00 PM
Sodium as Na (Dissolved)	2	mg/l	KC	1	200.7	04/21/2008 06:20:00 PM
Sodium as Na (Total Recoverable)	2	mg/l	KC	1	200.7	04/23/2008 02:38:00 PM
Zinc as Zn (Dissolved)	0.04	mg/l	KC	0.01	200.7	04/21/2008 06:20:00 PM
Zinc as Zn (Total Recoverable)	0.04	mg/l	KC	0.01	200.7	04/23/2008 02:38:00 PM

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 1157561506.205
Laboratory No.: 2008040143-5
Sample Name: RR-SW-4
Sample Date/Time: 04/17/2008 10:30:
Collected by: SHANE MATOLYAK
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Cations	0.98	meq/l	---	0.30	1030F	
Anions	1.03	meq/l	---	0.38	1030F	
Cation/Anion Balance	0.05	[max 0.20]	---	----	AWWA/APHA	
Metals Batch#/Digestion Date	1502	-----	BH		200.2	04/18/2008 03:00:00 PM

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 1157561506.205
Laboratory No.: 2008040143-6
Sample Name: RR-SW-4X
Sample Date/Time: 04/17/2008 10:30:
Collected by: SHANE MATOLYAK
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3	<2	mg/l	ES	2	2310 B	04/28/2008 06:57:34 PM
Alkalinity Bicarbonate as HCO3	9	mg/l	ES	1	2320B	04/25/2008 09:20:00 AM
Alkalinity Carbonate as CO3	0	mg/l	ES	0	2320B	04/25/2008 09:20:00 AM
Alkalinity Total as CaCO3	8	mg/l	ES	1	2320B	04/25/2008 09:20:00 AM
Chloride as Cl	<1	mg/l	ES	1	300.0	04/25/2008 03:55:00 AM
Sulfate as SO4	41	mg/l	ES	5	300.0	04/25/2008 03:55:00 AM
Hardness as CaCO3	45	mg/l	BH	7	2340B	04/21/2008 06:23:00 PM
Electrical Conductivity	118	umhos/cm	BH	10	2510B	05/01/2008 11:30:00 AM
pH	6.9	S.U.	RM	0.1-13.5	4500-H+-B	04/18/2008 02:00:00 PM
Total Dissolved Solids	82	mg/l	RM	20	2540C	04/21/2008 09:17:00 AM
Total Suspended Solids	<1	mg/l	RM	1	2540D	04/21/2008 09:40:00 AM
Aluminum as Al (Dissolved)	<0.05	mg/l	KC	0.05	200.7	04/21/2008 06:23:00 PM
Aluminum as Al (Total Recoverable)	<0.05	mg/l	KC	0.05	200.7	04/23/2008 02:49:00 PM
Cadmium as Cd (Dissolved)	0.0002	mg/l	BH	0.0001	200.8	04/22/2008 04:20:00 PM
Cadmium as Cd (Total Recoverable)	0.0002	mg/l	BH	0.0001	200.8	04/21/2008 07:03:00 PM
Calcium as Ca (Dissolved)	13	mg/l	KC	1	200.7	04/21/2008 06:23:00 PM
Calcium as Ca (Total Recoverable)	13	mg/l	KC	1	200.7	04/23/2008 02:49:00 PM
Copper as Cu (Dissolved)	0.036	mg/l	BH	0.001	200.8	04/22/2008 04:20:00 PM
Copper as Cu (Total Recoverable)	0.045	mg/l	BH	0.001	200.8	04/21/2008 07:03:00 PM
Iron as Fe (Dissolved)	<0.01	mg/l	KC	0.01	200.7	04/21/2008 06:23:00 PM
Iron as Fe (Total Recoverable)	0.02	mg/l	KC	0.01	200.7	04/23/2008 02:49:00 PM
Lead as Pb (Dissolved)	<0.001	mg/l	BH	0.001	200.8	04/22/2008 04:20:00 PM
Lead as Pb (Total Recoverable)	<0.001	mg/l	BH	0.001	200.8	04/21/2008 07:03:00 PM
Magnesium as Mg (Dissolved)	3	mg/l	KC	1	200.7	04/21/2008 06:23:00 PM
Magnesium as Mg (Total Recoverable)	3	mg/l	KC	1	200.7	04/23/2008 02:49:00 PM
Manganese as Mn (Dissolved)	0.010	mg/l	BH	0.003	200.8	04/22/2008 04:20:00 PM
Manganese as Mn (Total Recoverable)	0.011	mg/l	KC	0.003	200.7	04/23/2008 02:49:00 PM
Potassium as K (Dissolved)	<1	mg/l	KC	1	200.7	04/21/2008 06:23:00 PM
Potassium as K (Total Recoverable)	<1	mg/l	KC	1	200.7	04/23/2008 02:49:00 PM
Sodium as Na (Dissolved)	2	mg/l	KC	1	200.7	04/21/2008 06:23:00 PM
Sodium as Na (Total Recoverable)	2	mg/l	KC	1	200.7	04/23/2008 02:49:00 PM
Zinc as Zn (Dissolved)	0.04	mg/l	KC	0.01	200.7	04/21/2008 06:23:00 PM
Zinc as Zn (Total Recoverable)	0.04	mg/l	KC	0.01	200.7	04/23/2008 02:49:00 PM

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 1157561506.205
Laboratory No.: 2008040143-6
Sample Name: RR-SW-4X
Sample Date/Time: 04/17/2008 10:30:
Collected by: SHANE MATOLYAK
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Cations	0.98	meq/l	---	0.30	1030F	
Anions	1.01	meq/l	---	0.38	1030F	
Cation/Anion Balance	0.03	[max 0.20]	---	-----	AWWA/APHA	
Metals Batch#/Digestion Date	1502	-----	BH		200.2	04/18/2008 03:00:00 PM

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 1157561506.205
Laboratory No.: 2008040143-7
Sample Name: RR-CFY-2
Sample Date/Time: 04/17/2008 09:30:
Collected by: SHANE MATOLYAK
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3	<2	mg/l	ES	2	2310 B	04/28/2008 07:00:34 PM
Alkalinity Bicarbonate as HCO3	19	mg/l	ES	1	2320B	04/25/2008 09:20:00 AM
Alkalinity Carbonate as CO3	0	mg/l	ES	0	2320B	04/25/2008 09:20:00 AM
Alkalinity Total as CaCO3	16	mg/l	ES	1	2320B	04/25/2008 09:20:00 AM
Chloride as Cl	<1	mg/l	ES	1	300.0	04/25/2008 04:56:00 AM
Sulfate as SO4	30	mg/l	ES	5	300.0	04/25/2008 04:56:00 AM
Hardness as CaCO3	42	mg/l	BH	7	2340B	04/21/2008 06:31:00 PM
Electrical Conductivity	107	umhos/cm	BH	10	2510B	05/01/2008 11:30:00 AM
pH	7.2	S.U.	RM	0.1-13.5	4500-H+-B	04/18/2008 02:00:00 PM
Total Dissolved Solids	68	mg/l	RM	20	2540C	04/21/2008 09:17:00 AM
Total Suspended Solids	<1	mg/l	RM	1	2540D	04/21/2008 09:40:00 AM
Aluminum as Al (Dissolved)	<0.05	mg/l	KC	0.05	200.7	04/21/2008 06:31:00 PM
Aluminum as Al (Total Recoverable)	<0.05	mg/l	KC	0.05	200.7	04/23/2008 02:58:00 PM
Cadmium as Cd (Dissolved)	<0.0001	mg/l	BH	0.0001	200.8	04/22/2008 04:33:00 PM
Cadmium as Cd (Total Recoverable)	<0.0001	mg/l	BH	0.0001	200.8	04/21/2008 07:17:00 PM
Calcium as Ca (Dissolved)	12	mg/l	KC	1	200.7	04/21/2008 06:31:00 PM
Calcium as Ca (Total Recoverable)	12	mg/l	KC	1	200.7	04/23/2008 02:58:00 PM
Copper as Cu (Dissolved)	0.004	mg/l	BH	0.001	200.8	04/22/2008 04:33:00 PM
Copper as Cu (Total Recoverable)	0.007	mg/l	BH	0.001	200.8	04/21/2008 07:17:00 PM
Iron as Fe (Dissolved)	<0.01	mg/l	KC	0.01	200.7	04/21/2008 06:31:00 PM
Iron as Fe (Total Recoverable)	<0.01	mg/l	KC	0.01	200.7	04/23/2008 02:58:00 PM
Lead as Pb (Dissolved)	<0.001	mg/l	BH	0.001	200.8	04/22/2008 04:33:00 PM
Lead as Pb (Total Recoverable)	<0.001	mg/l	BH	0.001	200.8	04/21/2008 07:17:00 PM
Magnesium as Mg (Dissolved)	3	mg/l	KC	1	200.7	04/21/2008 06:31:00 PM
Magnesium as Mg (Total Recoverable)	3	mg/l	KC	1	200.7	04/23/2008 02:58:00 PM
Manganese as Mn (Dissolved)	<0.003	mg/l	BH	0.003	200.8	04/22/2008 04:33:00 PM
Manganese as Mn (Total Recoverable)	<0.003	mg/l	KC	0.003	200.7	04/23/2008 02:58:00 PM
Potassium as K (Dissolved)	<1	mg/l	KC	1	200.7	04/21/2008 06:31:00 PM
Potassium as K (Total Recoverable)	<1	mg/l	KC	1	200.7	04/23/2008 02:58:00 PM
Sodium as Na (Dissolved)	2	mg/l	KC	1	200.7	04/21/2008 06:31:00 PM
Sodium as Na (Total Recoverable)	2	mg/l	KC	1	200.7	04/23/2008 02:58:00 PM
Zinc as Zn (Dissolved)	0.01	mg/l	KC	0.01	200.7	04/21/2008 06:31:00 PM
Zinc as Zn (Total Recoverable)	0.01	mg/l	KC	0.01	200.7	04/23/2008 02:58:00 PM

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 1157561506.205
Laboratory No.: 2008040143-7
Sample Name: RR-CFY-2
Sample Date/Time: 04/17/2008 09:30:
Collected by: SHANE MATOLYAK
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Cations	0.93	meq/l	---	0.30	1030F	
Anions	0.95	meq/l	---	0.38	1030F	
Cation/Anion Balance	0.02	[max 0.20]	---	-----	AWWA/APHA	
Metals Batch#/Digestion Date	1502	-----	BH		200.2	04/18/2008 03:00:00 PM

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 1157561506.205
Laboratory No.: 2008040143-8
Sample Name: RR-SW-6
Sample Date/Time: 04/17/2008 08:45:
Collected by: SHANE MATOLYAK
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3	<2	mg/l	ES	2	2310 B	04/28/2008 07:01:20 PM
Alkalinity Bicarbonate as HCO3	30	mg/l	ES	1	2320B	04/25/2008 09:20:00 AM
Alkalinity Carbonate as CO3	0	mg/l	ES	0	2320B	04/25/2008 09:20:00 AM
Alkalinity Total as CaCO3	25	mg/l	ES	1	2320B	04/25/2008 09:20:00 AM
Chloride as Cl	<1	mg/l	ES	1	300.0	04/25/2008 05:26:00 AM
Sulfate as SO4	13	mg/l	ES	5	300.0	04/25/2008 05:26:00 AM
Hardness as CaCO3	33	mg/l	BH	7	2340B	04/21/2008 06:34:00 PM
Electrical Conductivity	83	umhos/cm	BH	10	2510B	05/01/2008 11:30:00 AM
pH	7.4	S.U.	RM	0.1-13.5	4500-H+-B	04/18/2008 02:00:00 PM
Total Dissolved Solids	57	mg/l	RM	20	2540C	04/21/2008 09:17:00 AM
Total Suspended Solids	7	mg/l	RM	1	2540D	04/21/2008 09:40:00 AM
Aluminum as Al (Dissolved)	<0.05	mg/l	KC	0.05	200.7	04/21/2008 06:34:00 PM
Aluminum as Al (Total Recoverable)	<0.05	mg/l	KC	0.05	200.7	04/23/2008 03:01:00 PM
Cadmium as Cd (Dissolved)	<0.0001	mg/l	BH	0.0001	200.8	04/22/2008 04:38:00 PM
Cadmium as Cd (Total Recoverable)	<0.0001	mg/l	BH	0.0001	200.8	04/21/2008 07:23:00 PM
Calcium as Ca (Dissolved)	10	mg/l	KC	1	200.7	04/21/2008 06:34:00 PM
Calcium as Ca (Total Recoverable)	10	mg/l	KC	1	200.7	04/23/2008 03:01:00 PM
Copper as Cu (Dissolved)	0.002	mg/l	BH	0.001	200.8	04/22/2008 04:38:00 PM
Copper as Cu (Total Recoverable)	0.005	mg/l	BH	0.001	200.8	04/21/2008 07:23:00 PM
Iron as Fe (Dissolved)	<0.01	mg/l	KC	0.01	200.7	04/21/2008 06:34:00 PM
Iron as Fe (Total Recoverable)	0.07	mg/l	KC	0.01	200.7	04/23/2008 03:01:00 PM
Lead as Pb (Dissolved)	<0.001	mg/l	BH	0.001	200.8	04/22/2008 04:38:00 PM
Lead as Pb (Total Recoverable)	<0.001	mg/l	BH	0.001	200.8	04/21/2008 07:23:00 PM
Magnesium as Mg (Dissolved)	2	mg/l	KC	1	200.7	04/21/2008 06:34:00 PM
Magnesium as Mg (Total Recoverable)	2	mg/l	KC	1	200.7	04/23/2008 03:01:00 PM
Manganese as Mn (Dissolved)	<0.003	mg/l	BH	0.003	200.8	04/22/2008 04:38:00 PM
Manganese as Mn (Total Recoverable)	<0.003	mg/l	KC	0.003	200.7	04/23/2008 03:01:00 PM
Potassium as K (Dissolved)	<1	mg/l	KC	1	200.7	04/21/2008 06:34:00 PM
Potassium as K (Total Recoverable)	<1	mg/l	KC	1	200.7	04/23/2008 03:01:00 PM
Sodium as Na (Dissolved)	1	mg/l	KC	1	200.7	04/21/2008 06:34:00 PM
Sodium as Na (Total Recoverable)	1	mg/l	KC	1	200.7	04/23/2008 03:01:00 PM
Zinc as Zn (Dissolved)	<0.01	mg/l	KC	0.01	200.7	04/21/2008 06:34:00 PM
Zinc as Zn (Total Recoverable)	<0.01	mg/l	KC	0.01	200.7	04/23/2008 03:01:00 PM

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 1157561506.205
Laboratory No.: 2008040143-8
Sample Name: RR-SW-6
Sample Date/Time: 04/17/2008 08:45:
Collected by: SHANE MATOLYAK
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Cations	0.71	meq/l	---	0.30	1030F	
Anions	0.77	meq/l	---	0.38	1030F	
Cation/Anion Balance	0.06	[max 0.20]	---	-----	AWWA/APHA	
Metals Batch#/Digestion Date	1502	----	BH		200.2	04/18/2008 03:00:00 PM

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 1157561506.205
Laboratory No.: 2008040143-9
Sample Name: RR-SW-2
Sample Date/Time: 04/15/2008 17:30:
Collected by: SHANE MATOLYAK
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3	<2	mg/l	ES	2	2310 B	04/28/2008 07:01:53 PM
Alkalinity Bicarbonate as HCO3	77	mg/l	ES	1	2320B	04/25/2008 09:20:00 AM
Alkalinity Carbonate as CO3	0	mg/l	ES	0	2320B	04/25/2008 09:20:00 AM
Alkalinity Total as CaCO3	63	mg/l	ES	1	2320B	04/25/2008 09:20:00 AM
Chloride as Cl	<1	mg/l	ES	1	300.0	04/25/2008 07:28:00 AM
Sulfate as SO4	39	mg/l	ES	5	300.0	04/25/2008 07:28:00 AM
Hardness as CaCO3	103	mg/l	BH	7	2340B	04/21/2008 06:37:00 PM
Electrical Conductivity	214	umhos/cm	BH	10	2510B	05/01/2008 11:30:00 AM
pH	7.6	S.U.	RM	0.1-13.5	4500-H+-B	04/18/2008 02:00:00 PM
Total Dissolved Solids	138	mg/l	RM	20	2540C	04/21/2008 09:17:00 AM
Total Suspended Solids	1	mg/l	RM	1	2540D	04/21/2008 09:40:00 AM
Aluminum as Al (Dissolved)	<0.05	mg/l	KC	0.05	200.7	04/21/2008 06:37:00 PM
Aluminum as Al (Total Recoverable)	<0.05	mg/l	KC	0.05	200.7	04/23/2008 03:03:00 PM
Cadmium as Cd (Dissolved)	<0.0001	mg/l	BH	0.0001	200.8	04/22/2008 04:59:00 PM
Cadmium as Cd (Total Recoverable)	<0.0001	mg/l	BH	0.0001	200.8	04/21/2008 07:29:00 PM
Calcium as Ca (Dissolved)	33	mg/l	KC	1	200.7	04/21/2008 06:37:00 PM
Calcium as Ca (Total Recoverable)	34	mg/l	KC	1	200.7	04/23/2008 03:03:00 PM
Copper as Cu (Dissolved)	0.005	mg/l	BH	0.001	200.8	04/22/2008 04:59:00 PM
Copper as Cu (Total Recoverable)	0.010	mg/l	BH	0.001	200.8	04/21/2008 07:29:00 PM
Iron as Fe (Dissolved)	0.02	mg/l	KC	0.01	200.7	04/21/2008 06:37:00 PM
Iron as Fe (Total Recoverable)	0.07	mg/l	KC	0.01	200.7	04/23/2008 03:03:00 PM
Lead as Pb (Dissolved)	<0.001	mg/l	BH	0.001	200.8	04/22/2008 04:59:00 PM
Lead as Pb (Total Recoverable)	<0.001	mg/l	BH	0.001	200.8	04/21/2008 07:29:00 PM
Magnesium as Mg (Dissolved)	5	mg/l	KC	1	200.7	04/21/2008 06:37:00 PM
Magnesium as Mg (Total Recoverable)	5	mg/l	KC	1	200.7	04/23/2008 03:03:00 PM
Manganese as Mn (Dissolved)	0.004	mg/l	BH	0.003	200.8	04/22/2008 04:59:00 PM
Manganese as Mn (Total Recoverable)	0.004	mg/l	KC	0.003	200.7	04/23/2008 03:03:00 PM
Potassium as K (Dissolved)	<1	mg/l	KC	1	200.7	04/21/2008 06:37:00 PM
Potassium as K (Total Recoverable)	<1	mg/l	KC	1	200.7	04/23/2008 03:03:00 PM
Sodium as Na (Dissolved)	1	mg/l	KC	1	200.7	04/21/2008 06:37:00 PM
Sodium as Na (Total Recoverable)	1	mg/l	KC	1	200.7	04/23/2008 03:03:00 PM
Zinc as Zn (Dissolved)	<0.01	mg/l	KC	0.01	200.7	04/21/2008 06:37:00 PM
Zinc as Zn (Total Recoverable)	<0.01	mg/l	KC	0.01	200.7	04/23/2008 03:03:00 PM

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 1157561506.205
Laboratory No.: 2008040143-9
Sample Name: RR-SW-2
Sample Date/Time: 04/15/2008 17:30:
Collected by: SHANE MATOLYAK
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Cations	2.10	meq/l	---	0.30	1030F	
Anions	2.07	meq/l	---	0.38	1030F	
Cation/Anion Balance	0.03	[max 0.20]	---	-----	AWWA/APHA	
Metals Batch#/Digestion Date	1502	-----	BH		200.2	04/18/2008 03:00:00 PM

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 1157561506.205
Laboratory No.: 2008040143-10
Sample Name: RR-SW-5
Sample Date/Time: 04/15/2008 18:15:
Collected by: SHANE MATOLYAK
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3	<2	mg/l	ES	2	2310 B	04/28/2008 07:02:37 PM
Alkalinity Bicarbonate as HCO3	77	mg/l	ES	1	2320B	04/25/2008 09:20:00 AM
Alkalinity Carbonate as CO3	0	mg/l	ES	0	2320B	04/25/2008 09:20:00 AM
Alkalinity Total as CaCO3	63	mg/l	ES	1	2320B	04/25/2008 09:20:00 AM
Chloride as Cl	<1	mg/l	ES	1	300.0	04/25/2008 07:59:00 AM
Sulfate as SO4	44	mg/l	ES	5	300.0	04/25/2008 07:59:00 AM
Hardness as CaCO3	110	mg/l	BH	7	2340B	04/21/2008 06:40:00 PM
Electrical Conductivity	225	umhos/cm	BH	10	2510B	05/01/2008 11:30:00 AM
pH	8.0	S.U.	RM	0.1-13.5	4500-H+-B	04/18/2008 02:00:00 PM
Total Dissolved Solids	135	mg/l	RM	20	2540C	04/21/2008 09:17:00 AM
Total Suspended Solids	<1	mg/l	RM	1	2540D	04/21/2008 09:40:00 AM
Aluminum as Al (Dissolved)	<0.05	mg/l	KC	0.05	200.7	04/21/2008 06:40:00 PM
Aluminum as Al (Total Recoverable)	<0.05	mg/l	KC	0.05	200.7	04/23/2008 03:06:00 PM
Cadmium as Cd (Dissolved)	<0.0001	mg/l	BH	0.0001	200.8	04/22/2008 05:05:00 PM
Cadmium as Cd (Total Recoverable)	<0.0001	mg/l	BH	0.0001	200.8	04/21/2008 07:35:00 PM
Calcium as Ca (Dissolved)	36	mg/l	KC	1	200.7	04/21/2008 06:40:00 PM
Calcium as Ca (Total Recoverable)	34	mg/l	KC	1	200.7	04/23/2008 03:06:00 PM
Copper as Cu (Dissolved)	0.002	mg/l	BH	0.001	200.8	04/22/2008 05:05:00 PM
Copper as Cu (Total Recoverable)	0.003	mg/l	BH	0.001	200.8	04/21/2008 07:35:00 PM
Iron as Fe (Dissolved)	<0.01	mg/l	KC	0.01	200.7	04/21/2008 06:40:00 PM
Iron as Fe (Total Recoverable)	<0.01	mg/l	KC	0.01	200.7	04/23/2008 03:06:00 PM
Lead as Pb (Dissolved)	<0.001	mg/l	BH	0.001	200.8	04/22/2008 05:05:00 PM
Lead as Pb (Total Recoverable)	<0.001	mg/l	BH	0.001	200.8	04/21/2008 07:35:00 PM
Magnesium as Mg (Dissolved)	5	mg/l	KC	1	200.7	04/21/2008 06:40:00 PM
Magnesium as Mg (Total Recoverable)	5	mg/l	KC	1	200.7	04/23/2008 03:06:00 PM
Manganese as Mn (Dissolved)	0.009	mg/l	BH	0.003	200.8	04/22/2008 05:05:00 PM
Manganese as Mn (Total Recoverable)	0.010	mg/l	KC	0.003	200.7	04/23/2008 03:06:00 PM
Potassium as K (Dissolved)	<1	mg/l	KC	1	200.7	04/21/2008 06:40:00 PM
Potassium as K (Total Recoverable)	<1	mg/l	KC	1	200.7	04/23/2008 03:06:00 PM
Sodium as Na (Dissolved)	1	mg/l	KC	1	200.7	04/21/2008 06:40:00 PM
Sodium as Na (Total Recoverable)	1	mg/l	KC	1	200.7	04/23/2008 03:06:00 PM
Zinc as Zn (Dissolved)	<0.01	mg/l	KC	0.01	200.7	04/21/2008 06:40:00 PM
Zinc as Zn (Total Recoverable)	<0.01	mg/l	KC	0.01	200.7	04/23/2008 03:06:00 PM

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 1157561506.205
Laboratory No.: 2008040143-10
Sample Name: RR-SW-5
Sample Date/Time: 04/15/2008 18:15:
Collected by: SHANE MATOLYAK
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Cations	2.15	meq/l	---	0.30	1030F	
Anions	2.18	meq/l	---	0.38	1030F	
Cation/Anion Balance	0.03	[max 0.20]	---	-----	AWWA/APHA	
Metals Batch#/Digestion Date	1502	----	BH		200.2	04/18/2008 03:00:00 PM

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 1157561506.205
Laboratory No.: 2008040143-11
Sample Name: RR-SBT-3
Sample Date/Time: 04/15/2008 17:00:
Collected by: SHANE MATOLYAK
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3	<2	mg/l	ES	2	2310 B	04/28/2008 07:04:26 PM
Alkalinity Bicarbonate as HCO3	138	mg/l	ES	1	2320B	04/25/2008 09:20:00 AM
Alkalinity Carbonate as CO3	0	mg/l	ES	0	2320B	04/25/2008 09:20:00 AM
Alkalinity Total as CaCO3	113	mg/l	ES	1	2320B	04/25/2008 09:20:00 AM
Chloride as Cl	<1	mg/l	ES	1	300.0	04/25/2008 08:29:00 AM
Sulfate as SO4	14	mg/l	ES	5	300.0	04/25/2008 08:29:00 AM
Hardness as CaCO3	131	mg/l	BH	7	2340B	04/21/2008 06:51:00 PM
Electrical Conductivity	254	umhos/cm	BH	10	2510B	05/01/2008 11:30:00 AM
pH	7.9	S.U.	RM	0.1-13.5	4500-H+-B	04/18/2008 02:00:00 PM
Total Dissolved Solids	141	mg/l	RM	20	2540C	04/21/2008 09:17:00 AM
Total Suspended Solids	5	mg/l	RM	3	2540D	04/21/2008 09:40:00 AM
Aluminum as Al (Dissolved)	<0.05	mg/l	KC	0.05	200.7	04/21/2008 06:51:00 PM
Aluminum as Al (Total Recoverable)	<0.05	mg/l	KC	0.05	200.7	04/23/2008 03:09:00 PM
Cadmium as Cd (Dissolved)	<0.0001	mg/l	BH	0.0001	200.8	04/22/2008 05:11:00 PM
Cadmium as Cd (Total Recoverable)	<0.0001	mg/l	BH	0.0001	200.8	04/21/2008 07:41:00 PM
Calcium as Ca (Dissolved)	41	mg/l	KC	1	200.7	04/21/2008 06:51:00 PM
Calcium as Ca (Total Recoverable)	41	mg/l	KC	1	200.7	04/23/2008 03:09:00 PM
Copper as Cu (Dissolved)	<0.001	mg/l	BH	0.001	200.8	04/22/2008 05:11:00 PM
Copper as Cu (Total Recoverable)	0.002	mg/l	BH	0.001	200.8	04/21/2008 07:41:00 PM
Iron as Fe (Dissolved)	<0.01	mg/l	KC	0.01	200.7	04/21/2008 06:51:00 PM
Iron as Fe (Total Recoverable)	0.06	mg/l	KC	0.01	200.7	04/23/2008 03:09:00 PM
Lead as Pb (Dissolved)	<0.001	mg/l	BH	0.001	200.8	04/22/2008 05:11:00 PM
Lead as Pb (Total Recoverable)	<0.001	mg/l	BH	0.001	200.8	04/21/2008 07:41:00 PM
Magnesium as Mg (Dissolved)	7	mg/l	KC	1	200.7	04/21/2008 06:51:00 PM
Magnesium as Mg (Total Recoverable)	6	mg/l	KC	1	200.7	04/23/2008 03:09:00 PM
Manganese as Mn (Dissolved)	0.007	mg/l	BH	0.003	200.8	04/22/2008 05:11:00 PM
Manganese as Mn (Total Recoverable)	0.006	mg/l	KC	0.003	200.7	04/23/2008 03:09:00 PM
Potassium as K (Dissolved)	<1	mg/l	KC	1	200.7	04/21/2008 06:51:00 PM
Potassium as K (Total Recoverable)	<1	mg/l	KC	1	200.7	04/23/2008 03:09:00 PM
Sodium as Na (Dissolved)	2	mg/l	KC	1	200.7	04/21/2008 06:51:00 PM
Sodium as Na (Total Recoverable)	2	mg/l	KC	1	200.7	04/23/2008 03:09:00 PM
Zinc as Zn (Dissolved)	<0.01	mg/l	KC	0.01	200.7	04/21/2008 06:51:00 PM
Zinc as Zn (Total Recoverable)	<0.01	mg/l	KC	0.01	200.7	04/23/2008 03:09:00 PM

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 1157561506.205
Laboratory No.: 2008040143-11
Sample Name: RR-SBT-3
Sample Date/Time: 04/15/2008 17:00:
Collected by: SHANE MATOLYAK
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Cations	2.71	meq/l	---	0.30	1030F	
Anions	2.58	meq/l	---	0.38	1030F	
Cation/Anion Balance	0.13	[max 0.20]	---	-----	AWWA/APHA	
Metals Batch#/Digestion Date	1502	-----	BH		200.2	04/18/2008 03:00:00 PM

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 1157561506.205
Laboratory No.: 2008040143-12
Sample Name: RR-SBT-6
Sample Date/Time: 04/15/2008 16:30:
Collected by: SHANE MATOLYAK
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3	<2	mg/l	ES	2	2310 B	04/28/2008 07:05:42 PM
Alkalinity Bicarbonate as HCO3	135	mg/l	ES	1	2320B	04/25/2008 09:20:00 AM
Alkalinity Carbonate as CO3	0	mg/l	ES	0	2320B	04/25/2008 09:20:00 AM
Alkalinity Total as CaCO3	110	mg/l	ES	1	2320B	04/25/2008 09:20:00 AM
Chloride as Cl	<1	mg/l	ES	1	300.0	04/25/2008 09:30:00 AM
Sulfate as SO4	11	mg/l	ES	5	300.0	04/25/2008 09:30:00 AM
Hardness as CaCO3	125	mg/l	BH	7	2340B	04/21/2008 06:57:00 PM
Electrical Conductivity	248	umhos/cm	BH	10	2510B	05/01/2008 11:30:00 AM
pH	8.0	S.U.	RM	0.1-13.5	4500-H+-B	04/18/2008 02:00:00 PM
Total Dissolved Solids	137	mg/l	RM	20	2540C	04/21/2008 09:17:00 AM
Total Suspended Solids	5	mg/l	RM	1	2540D	04/21/2008 09:40:00 AM
Aluminum as Al (Dissolved)	<0.05	mg/l	KC	0.05	200.7	04/21/2008 06:57:00 PM
Aluminum as Al (Total Recoverable)	<0.05	mg/l	KC	0.05	200.7	04/23/2008 03:15:00 PM
Cadmium as Cd (Dissolved)	<0.0001	mg/l	BH	0.0001	200.8	04/22/2008 05:23:00 PM
Cadmium as Cd (Total Recoverable)	<0.0001	mg/l	BH	0.0001	200.8	04/21/2008 08:06:00 PM
Calcium as Ca (Dissolved)	40	mg/l	KC	1	200.7	04/21/2008 06:57:00 PM
Calcium as Ca (Total Recoverable)	39	mg/l	KC	1	200.7	04/23/2008 03:15:00 PM
Copper as Cu (Dissolved)	<0.001	mg/l	BH	0.001	200.8	04/22/2008 05:23:00 PM
Copper as Cu (Total Recoverable)	0.002	mg/l	BH	0.001	200.8	04/21/2008 08:06:00 PM
Iron as Fe (Dissolved)	<0.01	mg/l	KC	0.01	200.7	04/21/2008 06:57:00 PM
Iron as Fe (Total Recoverable)	0.02	mg/l	KC	0.01	200.7	04/23/2008 03:15:00 PM
Lead as Pb (Dissolved)	<0.001	mg/l	BH	0.001	200.8	04/22/2008 05:23:00 PM
Lead as Pb (Total Recoverable)	<0.001	mg/l	BH	0.001	200.8	04/21/2008 08:06:00 PM
Magnesium as Mg (Dissolved)	6	mg/l	KC	1	200.7	04/21/2008 06:57:00 PM
Magnesium as Mg (Total Recoverable)	6	mg/l	KC	1	200.7	04/23/2008 03:15:00 PM
Manganese as Mn (Dissolved)	<0.003	mg/l	BH	0.003	200.8	04/22/2008 05:23:00 PM
Manganese as Mn (Total Recoverable)	<0.003	mg/l	KC	0.003	200.7	04/23/2008 03:15:00 PM
Potassium as K (Dissolved)	<1	mg/l	KC	1	200.7	04/21/2008 06:57:00 PM
Potassium as K (Total Recoverable)	<1	mg/l	KC	1	200.7	04/23/2008 03:15:00 PM
Sodium as Na (Dissolved)	1	mg/l	KC	1	200.7	04/21/2008 06:57:00 PM
Sodium as Na (Total Recoverable)	1	mg/l	KC	1	200.7	04/23/2008 03:15:00 PM
Zinc as Zn (Dissolved)	<0.01	mg/l	KC	0.01	200.7	04/21/2008 06:57:00 PM
Zinc as Zn (Total Recoverable)	<0.01	mg/l	KC	0.01	200.7	04/23/2008 03:15:00 PM

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 1157561506.205
Laboratory No.: 2008040143-12
Sample Name: RR-SBT-6
Sample Date/Time: 04/15/2008 16:30:
Collected by: SHANE MATOLYAK
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Cations	2.53	meq/l	---	0.30	1030F	
Anions	2.46	meq/l	---	0.38	1030F	
Cation/Anion Balance	0.07	[max 0.20]	---	-----	AWWA/APHA	
Metals Batch#/Digestion Date	1502	-----	BH		200.2	04/18/2008 03:00:00 PM

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 1157561506.205
Laboratory No.: 2008040143-13
Sample Name: RR-SBC-1
Sample Date/Time: 04/15/2008 15:45:
Collected by: SHANE MATOLYAK
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3	<2	mg/l	ES	2	2310 B	04/28/2008 07:07:07 PM
Alkalinity Bicarbonate as HCO3	149	mg/l	ES	1	2320B	04/25/2008 09:20:00 AM
Alkalinity Carbonate as CO3	0	mg/l	ES	0	2320B	04/25/2008 09:20:00 AM
Alkalinity Total as CaCO3	122	mg/l	ES	1	2320B	04/25/2008 09:20:00 AM
Chloride as Cl	1	mg/l	ES	1	300.0	04/25/2008 10:01:00 AM
Sulfate as SO4	11	mg/l	ES	5	300.0	04/25/2008 10:01:00 AM
Hardness as CaCO3	136	mg/l	BH	7	2340B	04/23/2008 03:26:00 PM
Electrical Conductivity	271	umhos/cm	BH	10	2510B	05/01/2008 11:30:00 AM
pH	8.4	S.U.	RM	0.1-13.5	4500-H+-B	04/18/2008 02:00:00 PM
Total Dissolved Solids	153	mg/l	RM	20	2540C	04/21/2008 09:17:00 AM
Total Suspended Solids	5	mg/l	RM	1	2540D	04/21/2008 09:40:00 AM
Aluminum as Al (Total Recoverable)	0.08	mg/l	KC	0.05	200.7	04/23/2008 03:26:00 PM
Cadmium as Cd (Total Recoverable)	<0.0001	mg/l	BH	0.0001	200.8	04/21/2008 08:12:00 PM
Calcium as Ca (Total Recoverable)	43	mg/l	KC	1	200.7	04/23/2008 03:26:00 PM
Copper as Cu (Total Recoverable)	0.003	mg/l	BH	0.001	200.8	04/21/2008 08:12:00 PM
Iron as Fe (Total Recoverable)	0.14	mg/l	KC	0.01	200.7	04/23/2008 03:26:00 PM
Lead as Pb (Total Recoverable)	<0.001	mg/l	BH	0.001	200.8	04/21/2008 08:12:00 PM
Magnesium as Mg (Total Recoverable)	7	mg/l	KC	1	200.7	04/23/2008 03:26:00 PM
Manganese as Mn (Total Recoverable)	0.007	mg/l	KC	0.003	200.7	04/23/2008 03:26:00 PM
Potassium as K (Total Recoverable)	<1	mg/l	KC	1	200.7	04/23/2008 03:26:00 PM
Sodium as Na (Total Recoverable)	1	mg/l	KC	1	200.7	04/23/2008 03:26:00 PM
Zinc as Zn (Total Recoverable)	<0.01	mg/l	KC	0.01	200.7	04/23/2008 03:26:00 PM
Cations	2.77	meq/l	---	0.30	1030F	
Anions	2.70	meq/l	---	0.38	1030F	
Cation/Anion Balance	0.07	[max 0.20]	---	-----	AWWA/APHA	
Metals Batch#/Digestion Date	1502	-----	BH		200.2	04/18/2008 03:00:00 PM

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 1157561506.205
Laboratory No.: 2008040143-14
Sample Name: RR-SBC-2
Sample Date/Time: 04/15/2008 14:30:
Collected by: SHANE MATOLYAK
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3	<2	mg/l	ES	2	2310 B	04/28/2008 07:08:14 PM
Alkalinity Bicarbonate as HCO3	141	mg/l	ES	1	2320B	04/25/2008 09:20:00 AM
Alkalinity Carbonate as CO3	0	mg/l	ES	0	2320B	04/25/2008 09:20:00 AM
Alkalinity Total as CaCO3	115	mg/l	ES	1	2320B	04/25/2008 09:20:00 AM
Chloride as Cl	3	mg/l	ES	1	300.0	04/25/2008 10:31:00 AM
Sulfate as SO4	50	mg/l	ES	5	300.0	04/25/2008 10:31:00 AM
Hardness as CaCO3	167	mg/l	BH	7	2340B	04/23/2008 03:29:00 PM
Electrical Conductivity	341	umhos/cm	BH	10	2510B	05/01/2008 11:30:00 AM
pH	7.9	S.U.	RM	0.1-13.5	4500-H+-B	04/18/2008 02:00:00 PM
Total Dissolved Solids	189	mg/l	RM	20	2540C	04/21/2008 09:17:00 AM
Total Suspended Solids	3	mg/l	RM	2	2540D	04/21/2008 09:40:00 AM
Aluminum as Al (Total Recoverable)	<0.05	mg/l	KC	0.05	200.7	04/23/2008 03:29:00 PM
Cadmium as Cd (Total Recoverable)	<0.0001	mg/l	BH	0.0001	200.8	04/21/2008 08:18:00 PM
Calcium as Ca (Total Recoverable)	52	mg/l	KC	1	200.7	04/23/2008 03:29:00 PM
Copper as Cu (Total Recoverable)	0.001	mg/l	BH	0.001	200.8	04/21/2008 08:18:00 PM
Iron as Fe (Total Recoverable)	1.26	mg/l	KC	0.01	200.7	04/23/2008 03:29:00 PM
Lead as Pb (Total Recoverable)	<0.001	mg/l	BH	0.001	200.8	04/21/2008 08:18:00 PM
Magnesium as Mg (Total Recoverable)	9	mg/l	KC	1	200.7	04/23/2008 03:29:00 PM
Manganese as Mn (Total Recoverable)	0.036	mg/l	KC	0.003	200.7	04/23/2008 03:29:00 PM
Potassium as K (Total Recoverable)	<1	mg/l	KC	1	200.7	04/23/2008 03:29:00 PM
Sodium as Na (Total Recoverable)	2	mg/l	KC	1	200.7	04/23/2008 03:29:00 PM
Zinc as Zn (Total Recoverable)	<0.01	mg/l	KC	0.01	200.7	04/23/2008 03:29:00 PM
Cations	3.42	meq/l	---	0.30	1030F	
Anions	3.43	meq/l	---	0.38	1030F	
Cation/Anion Balance	0.03	% [max 2%]	---	-----	AWWA/APHA	
Metals Batch#/Digestion Date	1502	-----	BH		200.2	04/18/2008 03:00:00 PM

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 1157561506.205
Laboratory No.: 2008040143-15
Sample Name: RR-SBSW-102
Sample Date/Time: 04/15/2008 13:00:
Collected by: SHANE MATOLYAK
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3	<2	mg/l	ES	2	2310 B	04/28/2008 07:08:57 PM
Alkalinity Bicarbonate as HCO3	85	mg/l	ES	1	2320B	04/25/2008 09:20:00 AM
Alkalinity Carbonate as CO3	0	mg/l	ES	0	2320B	04/25/2008 09:20:00 AM
Alkalinity Total as CaCO3	69	mg/l	ES	1	2320B	04/25/2008 09:20:00 AM
Chloride as Cl	<1	mg/l	ES	1	300.0	04/25/2008 11:02:00 AM
Sulfate as SO4	7	mg/l	ES	5	300.0	04/25/2008 11:02:00 AM
Hardness as CaCO3	70	mg/l	BH	7	2340B	04/23/2008 03:32:00 PM
Electrical Conductivity	159	umhos/cm	BH	10	2510B	05/01/2008 11:30:00 AM
pH	8.2	S.U.	RM	0.1-13.5	4500-H+-B	04/18/2008 02:00:00 PM
Total Dissolved Solids	90	mg/l	RM	20	2540C	04/21/2008 09:17:00 AM
Total Suspended Solids	4	mg/l	RM	2	2540D	04/21/2008 09:40:00 AM
Aluminum as Al (Total Recoverable)	0.80	mg/l	KC	0.05	200.7	04/23/2008 03:32:00 PM
Cadmium as Cd (Total Recoverable)	<0.0001	mg/l	BH	0.0001	200.8	04/21/2008 08:24:00 PM
Calcium as Ca (Total Recoverable)	18	mg/l	KC	1	200.7	04/23/2008 03:32:00 PM
Copper as Cu (Total Recoverable)	0.002	mg/l	BH	0.001	200.8	04/21/2008 08:24:00 PM
Iron as Fe (Total Recoverable)	1.03	mg/l	KC	0.01	200.7	04/23/2008 03:32:00 PM
Lead as Pb (Total Recoverable)	<0.001	mg/l	BH	0.001	200.8	04/21/2008 08:24:00 PM
Magnesium as Mg (Total Recoverable)	6	mg/l	KC	1	200.7	04/23/2008 03:32:00 PM
Manganese as Mn (Total Recoverable)	0.020	mg/l	KC	0.003	200.8	04/21/2008 08:24:00 PM
Potassium as K (Total Recoverable)	<1	mg/l	KC	1	200.7	04/23/2008 03:32:00 PM
Sodium as Na (Total Recoverable)	6	mg/l	KC	1	200.7	04/23/2008 03:32:00 PM
Zinc as Zn (Total Recoverable)	0.01	mg/l	KC	0.01	200.7	04/23/2008 03:32:00 PM
Cations	1.65	meq/l	---	0.30	1030F	
Anions	1.58	meq/l	---	0.38	1030F	
Cation/Anion Balance	0.07	[max 0.20]	---	-----	AWWA/APHA	
Metals Batch#/Digestion Date	1502	-----	BH		200.2	04/18/2008 03:00:00 PM

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 1157561506.205
Laboratory No.: 2008040143-16
Sample Name: RR-SBC-4
Sample Date/Time: 04/15/2008 12:00:
Collected by: SHANE MATOLYAK
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3	<2	mg/l	ES	2	2310 B	04/28/2008 07:09:26 PM
Alkalinity Bicarbonate as HCO3	96	mg/l	ES	1	2320B	04/25/2008 09:20:00 AM
Alkalinity Carbonate as CO3	0	mg/l	ES	0	2320B	04/25/2008 09:20:00 AM
Alkalinity Total as CaCO3	79	mg/l	ES	1	2320B	04/25/2008 09:20:00 AM
Chloride as Cl	<1	mg/l	ES	1	300.0	04/25/2008 11:32:00 AM
Sulfate as SO4	7	mg/l	ES	5	300.0	04/25/2008 11:32:00 AM
Hardness as CaCO3	76	mg/l	BH	7	2340B	04/23/2008 03:34:00 PM
Electrical Conductivity	177	umhos/cm	BH	10	2510B	05/01/2008 11:30:00 AM
pH	8.2	S.U.	RM	0.1-13.5	4500-H+-B	04/18/2008 02:00:00 PM
Total Dissolved Solids	100	mg/l	RM	20	2540C	04/21/2008 09:17:00 AM
Total Suspended Solids	4	mg/l	RM	3	2540D	04/21/2008 09:40:00 AM
Aluminum as Al (Total Recoverable)	0.29	mg/l	KC	0.05	200.7	04/23/2008 03:34:00 PM
Cadmium as Cd (Total Recoverable)	<0.0001	mg/l	BH	0.0001	200.8	04/21/2008 08:30:00 PM
Calcium as Ca (Total Recoverable)	22	mg/l	KC	1	200.7	04/23/2008 03:34:00 PM
Copper as Cu (Total Recoverable)	0.002	mg/l	BH	0.001	200.8	04/21/2008 08:30:00 PM
Iron as Fe (Total Recoverable)	0.62	mg/l	KC	0.01	200.7	04/23/2008 03:34:00 PM
Lead as Pb (Total Recoverable)	<0.001	mg/l	BH	0.001	200.8	04/21/2008 08:30:00 PM
Magnesium as Mg (Total Recoverable)	5	mg/l	KC	1	200.7	04/23/2008 03:34:00 PM
Manganese as Mn (Total Recoverable)	0.008	mg/l	KC	0.003	200.7	04/23/2008 03:34:00 PM
Potassium as K (Total Recoverable)	<1	mg/l	KC	1	200.7	04/23/2008 03:34:00 PM
Sodium as Na (Total Recoverable)	6	mg/l	KC	1	200.7	04/23/2008 03:34:00 PM
Zinc as Zn (Total Recoverable)	<0.01	mg/l	KC	0.01	200.7	04/23/2008 03:34:00 PM
Cations	1.77	meq/l	---	0.30	1030F	
Anions	1.73	meq/l	---	0.38	1030F	
Cation/Anion Balance	0.04	[max 0.20]	---	-----	AWWA/APHA	
Metals Batch#/Digestion Date	1502	-----	BH		200.2	04/18/2008 03:00:00 PM

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 1157561506.205
Laboratory No.: 2008040143-17
Sample Name: DUPLICATE OF 2008040143-2
Sample Date/Time: 04/17/2008 13:15:
Collected by: SHANE MATOLYAK
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3	<2	mg/l	ES	2	2310 B	04/28/2008 05:02:55 PM
Alkalinity Bicarbonate as HCO3	79	mg/l	ES	1	2320B	04/25/2008 09:20:00 AM
Alkalinity Carbonate as CO3	0	mg/l	ES	0	2320B	04/25/2008 09:20:00 AM
Alkalinity Total as CaCO3	65	mg/l	ES	1	2320B	04/25/2008 09:20:00 AM
Chloride as Cl	0*	RPD [0-20]	ES	1	300.0	04/25/2008 12:52:00 AM
Sulfate as SO4	297	mg/l	ES	5	300.0	04/25/2008 12:52:00 AM
Hardness as CaCO3	175	mg/l	BH	7	2340B	04/21/2008 06:14:00 PM
Electrical Conductivity	358	umhos/cm	BH	10	2510B	05/01/2008 11:30:00 AM
pH	0*	RPD [0-20]	RM	0.1-13.5	4500-H+-B	04/18/2008 02:00:00 PM
Total Dissolved Solids	223	mg/l	RM	20	2540C	04/21/2008 09:17:00 AM
Total Suspended Solids	6	mg/l	RM	4	2540D	04/21/2008 09:40:00 AM
Aluminum as Al (Dissolved)	<0.05	mg/l	KC	0.05	200.7	04/21/2008 06:14:00 PM
Aluminum as Al (Total Recoverable)	1.15	mg/l	KC	0.05	200.7	04/23/2008 02:30:00 PM
Cadmium as Cd (Dissolved)	0.0005	mg/l	BH	0.0001	200.8	04/22/2008 04:02:00 PM
Cadmium as Cd (Total Recoverable)	0.0007	mg/l	BH	0.0001	200.8	04/21/2008 06:26:00 PM
Calcium as Ca (Dissolved)	52	mg/l	KC	1	200.7	04/21/2008 06:14:00 PM
Calcium as Ca (Total Recoverable)	52	mg/l	KC	1	200.7	04/23/2008 02:30:00 PM
Copper as Cu (Dissolved)	0.017	mg/l	BH	0.001	200.8	04/22/2008 04:02:00 PM
Copper as Cu (Total Recoverable)	0.30	mg/l	KC	0.02	200.7	04/23/2008 02:30:00 PM
Iron as Fe (Dissolved)	<0.01	mg/l	KC	0.01	200.7	04/21/2008 06:14:00 PM
Iron as Fe (Total Recoverable)	1.25	mg/l	KC	0.01	200.7	04/23/2008 02:30:00 PM
Lead as Pb (Dissolved)	<0.001	mg/l	BH	0.001	200.8	04/22/2008 04:02:00 PM
Lead as Pb (Total Recoverable)	<0.001	mg/l	BH	0.001	200.8	04/21/2008 06:26:00 PM
Magnesium as Mg (Dissolved)	11	mg/l	KC	1	200.7	04/21/2008 06:14:00 PM
Magnesium as Mg (Total Recoverable)	10	mg/l	KC	1	200.7	04/23/2008 02:30:00 PM
Manganese as Mn (Dissolved)	0.35	mg/l	KC	0.003	200.7	04/21/2008 06:14:00 PM
Manganese as Mn (Total Recoverable)	0.36	mg/l	KC	0.003	200.7	04/23/2008 02:30:00 PM
Potassium as K (Dissolved)	<1	mg/l	KC	1	200.7	04/21/2008 06:14:00 PM
Potassium as K (Total Recoverable)	<1	mg/l	KC	1	200.7	04/23/2008 02:30:00 PM
Sodium as Na (Dissolved)	1	mg/l	KC	1	200.7	04/21/2008 06:14:00 PM
Sodium as Na (Total Recoverable)	1	mg/l	KC	1	200.7	04/23/2008 02:30:00 PM
Zinc as Zn (Dissolved)	0.05	mg/l	KC	0.01	200.7	04/21/2008 06:14:00 PM
Zinc as Zn (Total Recoverable)	0.09	mg/l	KC	0.01	200.7	04/23/2008 02:30:00 PM

Northern Analytical Laboratories, Inc.

***Batch duplicate**

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 1157561506.205
Laboratory No.: 2008040143-17
Sample Name: DUPLICATE OF 2008040143-2
Sample Date/Time: 04/17/2008 13:15:
Collected by: SHANE MATOLYAK
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Metals Batch#/Digestion Date	1502	----	BH		200.2	04/18/2008 03:00:00 PM

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 1157561506.205
Laboratory No.: 2008040143-18
Sample Name: MATRIX SPIKE OF 2008040143-6
Sample Date/Time: 04/17/2008 10:30:
Collected by: SHANE MATOLYAK
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3	98	% [70-132]	ES	2	2310 B	04/28/2008 06:59:21 PM
Alkalinity Bicarbonate as HCO3	NA	-----	-----	-----	-----	-----
Alkalinity Carbonate as CO3	NA	-----	-----	-----	-----	-----
Alkalinity Total as CaCO3	103	% [77-116]	ES	1	2320B	04/25/2008 09:20:00 AM
Chloride as Cl	102	% [84-124]	ES	1	300.0	04/25/2008 04:25:00 AM
Sulfate as SO4	106	% [84-124]	ES	5	300.0	04/25/2008 04:25:00 AM
Hardness as CaCO3	NA	-----	-----	-----	-----	-----
Electrical Conductivity	NA	-----	-----	-----	-----	
pH	NA	-----	-----	-----	-----	-----
Total Dissolved Solids	NA	-----	-----	-----	-----	-----
Total Suspended Solids	NA	-----	-----	-----	-----	-----
Aluminum as Al (Dissolved)	99	% [81-117]	KC	0.05	200.7	04/21/2008 06:26:00 PM
Aluminum as Al (Total Recoverable)	104	% [82-128]	KC	0.05	200.7	04/23/2008 02:52:00 PM
Cadmium as Cd (Dissolved)	98	% [81-116]	BH	0.0001	200.8	04/22/2008 04:26:00 PM
Cadmium as Cd (Total Recoverable)	99	% [83-116]	BH	0.0001	200.8	04/21/2008 07:09:00 PM
Calcium as Ca (Dissolved)	99	% [78-122]	KC	1	200.7	04/21/2008 06:28:00 PM
Calcium as Ca (Total Recoverable)	98	% [71-132]	KC	1	200.7	04/23/2008 02:55:00 PM
Copper as Cu (Dissolved)	90	% [70-114]	BH	0.001	200.8	04/22/2008 04:26:00 PM
Copper as Cu (Total Recoverable)	97	% [70-117]	BH	0.001	200.8	04/21/2008 07:09:00 PM
Iron as Fe (Dissolved)	102	% [87-111]	KC	0.01	200.7	04/21/2008 06:26:00 PM
Iron as Fe (Total Recoverable)	105	% [82-124]	KC	0.01	200.7	04/23/2008 02:52:00 PM
Lead as Pb (Dissolved)	94	% [82-117]	BH	0.001	200.8	04/22/2008 04:26:00 PM
Lead as Pb (Total Recoverable)	100	% [76-116]	BH	0.001	200.8	04/21/2008 07:09:00 PM
Magnesium as Mg (Dissolved)	101	% [84-118]	KC	1	200.7	04/21/2008 06:28:00 PM
Magnesium as Mg (Total Recoverable)	97	% [77-126]	KC	1	200.7	04/23/2008 02:55:00 PM
Manganese as Mn (Dissolved)	93	% [76-117]	BH	0.003	200.8	04/22/2008 04:26:00 PM
Manganese as Mn (Total Recoverable)	103	% [78-121]	KC	0.003	200.7	04/23/2008 02:52:00 PM
Potassium as K (Dissolved)	102	% [85-120]	KC	1	200.7	04/21/2008 06:28:00 PM
Potassium as K (Total Recoverable)	104	% [86-125]	KC	1	200.7	04/23/2008 02:55:00 PM
Sodium as Na (Dissolved)	101	% [73-124]	KC	1	200.7	04/21/2008 06:28:00 PM
Sodium as Na (Total Recoverable)	98	% [70-130]	KC	1	200.7	04/23/2008 02:55:00 PM
Zinc as Zn (Dissolved)	100	% [89-113]	KC	0.01	200.7	04/21/2008 06:26:00 PM
Zinc as Zn (Total Recoverable)	105	% [84-121]	KC	0.01	200.7	04/23/2008 02:52:00 PM

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 1157561506.205
Laboratory No.: 2008040143-18
Sample Name: MATRIX SPIKE OF 2008040143-6
Sample Date/Time: 04/17/2008 10:30:
Collected by: SHANE MATOLYAK
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Metals Batch#/Digestion Date	1502	-----	BH		200.2	04/18/2008 03:00:00 PM

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 1157561506.205
Laboratory No.: 2008040143-19
Sample Name: DUPLICATE OF 2008040143-11
Sample Date/Time: 04/15/2008 17:00:
Collected by: SHANE MATOLYAK
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3	<2	% [70-132]	ES	2	2310 B	04/28/2008 07:04:37 PM
Alkalinity Bicarbonate as HCO3	141	mg/l	ES	1	2320B	04/25/2008 09:20:00 AM
Alkalinity Carbonate as CO3	0	mg/l	ES	0	2320B	04/25/2008 09:20:00 AM
Alkalinity Total as CaCO3	115	mg/l	ES	1	2320B	04/25/2008 09:20:00 AM
Chloride as Cl	1	mg/l	ES	1	300.0	04/25/2008 09:00:00 AM
Sulfate as SO4	14	mg/l	ES	5	300.0	04/25/2008 09:00:00 AM
Hardness as CaCO3	131	mg/l	BH	7	2340B	04/21/2008 06:54:00 PM
Electrical Conductivity	258	umhos/cm	BH	10	2510B	05/01/2008 11:30:00 AM
pH	7.9	S.U.	RM	0.1-13.5	4500-H+-B	04/18/2008 02:00:00 PM
Total Dissolved Solids	1*	RPD [0-20]	RM	20	2540C	04/21/2008 09:17:00 AM
Total Suspended Solids	6	mg/l	RM	2	2540D	04/21/2008 09:40:00 AM
Aluminum as Al (Dissolved)	<0.05	mg/l	KC	0.05	200.7	04/21/2008 06:54:00 PM
Aluminum as Al (Total Recoverable)	<0.05	mg/l	KC	0.05	200.7	04/23/2008 03:12:00 PM
Cadmium as Cd (Dissolved)	<0.0001	mg/l	BH	0.0001	200.8	04/22/2008 05:17:00 PM
Cadmium as Cd (Total Recoverable)	<0.0001	mg/l	BH	0.0001	200.8	04/21/2008 08:00:00 PM
Calcium as Ca (Dissolved)	41	mg/l	KC	1	200.7	04/21/2008 06:54:00 PM
Calcium as Ca (Total Recoverable)	41	mg/l	KC	1	200.7	04/23/2008 03:12:00 PM
Copper as Cu (Dissolved)	<0.001	mg/l	BH	0.001	200.8	04/22/2008 05:17:00 PM
Copper as Cu (Total Recoverable)	0.002	mg/l	BH	0.001	200.8	04/21/2008 08:00:00 PM
Iron as Fe (Dissolved)	<0.01	mg/l	KC	0.01	200.7	04/21/2008 06:54:00 PM
Iron as Fe (Total Recoverable)	0.07	mg/l	KC	0.01	200.7	04/23/2008 03:12:00 PM
Lead as Pb (Dissolved)	<0.001	mg/l	BH	0.001	200.8	04/22/2008 05:17:00 PM
Lead as Pb (Total Recoverable)	<0.001	mg/l	BH	0.001	200.8	04/21/2008 08:00:00 PM
Magnesium as Mg (Dissolved)	7	mg/l	KC	1	200.7	04/21/2008 06:54:00 PM
Magnesium as Mg (Total Recoverable)	6	mg/l	KC	1	200.7	04/23/2008 03:12:00 PM
Manganese as Mn (Dissolved)	0.007	mg/l	BH	0.003	200.8	04/22/2008 05:17:00 PM
Manganese as Mn (Total Recoverable)	0.006	mg/l	KC	0.003	200.7	04/23/2008 03:12:00 PM
Potassium as K (Dissolved)	<1	mg/l	KC	1	200.7	04/21/2008 06:54:00 PM
Potassium as K (Total Recoverable)	<1	mg/l	KC	1	200.7	04/23/2008 03:12:00 PM
Sodium as Na (Dissolved)	2	mg/l	KC	1	200.7	04/21/2008 06:54:00 PM
Sodium as Na (Total Recoverable)	2	mg/l	KC	1	200.7	04/23/2008 03:12:00 PM
Zinc as Zn (Dissolved)	<0.01	mg/l	KC	0.01	200.7	04/21/2008 06:54:00 PM
Zinc as Zn (Total Recoverable)	<0.01	mg/l	KC	0.01	200.7	04/23/2008 03:12:00 PM

Northern Analytical Laboratories, Inc.

***Batch duplicate**

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 1157561506.205
Laboratory No.: 2008040143-19
Sample Name: DUPLICATE OF 2008040143-11
Sample Date/Time: 04/15/2008 17:00:
Collected by: SHANE MATOLYAK
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Cations	2.71	meq/l	---	0.30	1030F	
Anions	2.62	meq/l	---	0.38	1030F	
Cation/Anion Balance	0.09	[max 0.20]	---	-----	AWWA/APHA	
Metals Batch#/Digestion Date	1502	-----	BH		200.2	04/18/2008 03:00:00 PM

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 1157561506.205
Laboratory No.: 2008040143-20
Sample Name: MATRIX SPIKE OF 2008040143-16
Sample Date/Time: 04/15/2008 12:00:
Collected by: SHANE MATOLYAK
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3	107	% [70-132]	ES	2	2310 B	04/28/2008 07:10:41 PM
Alkalinity Bicarbonate as HCO3	NA	-----	-----	-----	-----	-----
Alkalinity Carbonate as CO3	NA	-----	-----	-----	-----	-----
Alkalinity Total as CaCO3	101	% [77-116]	ES	1	2320B	04/25/2008 09:20:00 AM
Chloride as Cl	98	% [84-124]	ES	1	300.0	04/25/2008 12:03:00 PM
Sulfate as SO4	99	% [84-124]	ES	5	300.0	04/25/2008 12:03:00 PM
Hardness as CaCO3	NA	-----	-----	-----	-----	-----
Electrical Conductivity	NA	-----	-----	-----	-----	
pH	NA	-----	-----	-----	-----	-----
Total Dissolved Solids	NA	-----	-----	-----	-----	-----
Total Suspended Solids	NA	-----	-----	-----	-----	-----
Aluminum as Al (Total Recoverable)	105	% [82-128]	KC	0.05	200.7	04/23/2008 03:37:00 PM
Cadmium as Cd (Total Recoverable)	95	% [83-116]	BH	0.0001	200.8	04/21/2008 08:36:00 PM
Calcium as Ca (Total Recoverable)	98	% [71-132]	KC	1	200.7	04/23/2008 03:40:00 PM
Copper as Cu (Total Recoverable)	92	% [70-117]	BH	0.001	200.8	04/21/2008 08:36:00 PM
Iron as Fe (Total Recoverable)	107	% [82-124]	KC	0.01	200.7	04/23/2008 03:37:00 PM
Lead as Pb (Total Recoverable)	98	% [81-121]	BH	0.001	200.8	04/21/2008 08:36:00 PM
Magnesium as Mg (Total Recoverable)	97	% [77-126]	KC	1	200.7	04/23/2008 03:40:00 PM
Manganese as Mn (Total Recoverable)	102	% [78-121]	KC	0.003	200.7	04/23/2008 03:37:00 PM
Potassium as K (Total Recoverable)	103	% [86-125]	KC	1	200.7	04/23/2008 03:40:00 PM
Sodium as Na (Total Recoverable)	99	% [70-130]	KC	1	200.7	04/23/2008 03:40:00 PM
Zinc as Zn (Total Recoverable)	104	% [84-121]	KC	0.01	200.7	04/23/2008 03:37:00 PM
Metals Batch#/Digestion Date	1502	-----	BH		200.2	04/18/2008 03:00:00 PM

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 1157561506.205
Laboratory No.: 2008040143-21
Sample Name: METHOD BLANK
Sample Date/Time: ----- -----
Collected by: LABORATORY
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3	<2	mg/l	ES	2	2310 B	04/28/2008 04:58:04 PM
Alkalinity Bicarbonate as HCO3	<1	mg/l	ES	1	2320B	04/25/2008 09:20:00 AM
Alkalinity Carbonate as CO3	0	mg/l	ES	0	2320B	04/25/2008 09:20:00 AM
Alkalinity Total as CaCO3	<1	mg/l	ES	1	2320B	04/25/2008 09:20:00 AM
Chloride as Cl	<1	mg/l	ES	1	300.0	04/24/2008 06:11:00 PM
Sulfate as SO4	<5	mg/l	ES	5	300.0	04/24/2008 06:11:00 PM
Hardness as CaCO3	<7	mg/l	BH	7	2340B	04/21/2008 05:54:00 PM
Electrical Conductivity	<10	mg/l	BH	10	2510B	05/01/2008 11:30:00 AM
pH	NA	-----	-----	-----	-----	-----
Total Dissolved Solids	<20	mg/l	RM	20	2540C	04/21/2008 09:17:00 AM
Total Suspended Solids	<1	mg/l	RM	1	2540D	04/21/2008 09:40:00 AM
Aluminum as Al (Dissolved)	<0.05	mg/l	KC	0.05	200.7	04/21/2008 05:54:00 PM
Aluminum as Al (Total Recoverable)	<0.05	mg/l	KC	0.05	200.7	04/23/2008 02:07:00 PM
Cadmium as Cd (Dissolved)	<0.0001	mg/l	BH	0.0001	200.8	04/22/2008 03:44:00 PM
Cadmium as Cd (Total Recoverable)	<0.0001	mg/l	BH	0.0001	200.8	04/21/2008 06:01:00 PM
Calcium as Ca (Dissolved)	<1	mg/l	KC	1	200.7	04/21/2008 05:54:00 PM
Calcium as Ca (Total Recoverable)	<1	mg/l	KC	1	200.7	04/23/2008 02:07:00 PM
Copper as Cu (Dissolved)	<0.001	mg/l	BH	0.001	200.8	04/22/2008 03:44:00 PM
Copper as Cu (Total Recoverable)	<0.001	mg/l	KC	0.02	200.8	04/22/2008 09:54:00 AM
Iron as Fe (Dissolved)	<0.01	mg/l	KC	0.01	200.7	04/21/2008 05:54:00 PM
Iron as Fe (Total Recoverable)	<0.01	mg/l	KC	0.01	200.7	04/23/2008 02:07:00 PM
Lead as Pb (Dissolved)	<0.001	mg/l	BH	0.001	200.8	04/22/2008 03:44:00 PM
Lead as Pb (Total Recoverable)	<0.001	mg/l	BH	0.001	200.8	04/21/2008 06:01:00 PM
Magnesium as Mg (Dissolved)	<1	mg/l	KC	1	200.7	04/21/2008 05:54:00 PM
Magnesium as Mg (Total Recoverable)	<1	mg/l	KC	1	200.7	04/23/2008 02:07:00 PM
Manganese as Mn (Dissolved)	<0.003	mg/l	BH	0.003	200.8	04/22/2008 03:44:00 PM
Manganese as Mn (Total Recoverable)	<0.003	mg/l	KC	0.003	200.7	04/23/2008 02:07:00 PM
Potassium as K (Dissolved)	<1	mg/l	KC	1	200.7	04/21/2008 05:54:00 PM
Potassium as K (Total Recoverable)	<1	mg/l	KC	1	200.7	04/23/2008 02:07:00 PM
Sodium as Na (Dissolved)	<1	mg/l	KC	1	200.7	04/21/2008 05:54:00 PM
Sodium as Na (Total Recoverable)	<1	mg/l	KC	1	200.7	04/23/2008 02:07:00 PM
Zinc as Zn (Dissolved)	<0.01	mg/l	KC	0.01	200.7	04/21/2008 05:54:00 PM
Zinc as Zn (Total Recoverable)	<0.01	mg/l	KC	0.01	200.7	04/23/2008 02:07:00 PM

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 1157561506.205
Laboratory No.: 2008040143-21
Sample Name: METHOD BLANK
Sample Date/Time: ----- -----
Collected by: LABORATORY
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Metals Batch#/Digestion Date	1502	-----	BH		200.2	04/18/2008 03:00:00 PM

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 1157561506.205
Laboratory No.: 2008040143-22
Sample Name: LABORATORY CONTROL SAMPLE
Sample Date/Time: ----- -----
Collected by: LABORATORY
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3	99	% [91-116]	ES	2	2310 B	04/28/2008 04:58:06 PM
Alkalinity Bicarbonate as HCO3	NA	-----	-----	-----	-----	-----
Alkalinity Carbonate as CO3	NA	-----	-----	-----	-----	-----
Alkalinity Total as CaCO3	98	% [89-110]	ES	1	2320B	04/25/2008 09:20:00 AM
Chloride as Cl	103	% [90-110]	ES	1	300.0	04/24/2008 06:46:00 PM
Sulfate as SO4	103	% [90-110]	ES	5	300.0	04/24/2008 06:46:00 PM
Hardness as CaCO3	NA	-----	-----	-----	-----	-----
Electrical Conductivity	99	% [90-110]	BH	10	2510B	05/01/2008 11:30:00 AM
pH	100	% [99-101]	RM	0.1-13.5	4500-H+-B	04/18/2008 02:00:00 PM
Total Dissolved Solids	94	% [90-106]	RM	20	2540C	04/21/2008 09:17:00 AM
Total Suspended Solids	95	% [71-129]	RM	10	2540D	04/21/2008 09:40:00 AM
Aluminum as Al (Dissolved)	97	% [86-112]	KC	0.05	200.7	04/21/2008 05:57:00 PM
Aluminum as Al (Total Recoverable)	105	% [88-115]	KC	0.05	200.7	04/23/2008 02:18:00 PM
Cadmium as Cd (Dissolved)	96	% [86-113]	BH	0.0001	200.8	04/22/2008 03:49:00 PM
Cadmium as Cd (Total Recoverable)	98	% [85-115]	BH	0.0001	200.8	04/21/2008 06:06:00 PM
Calcium as Ca (Dissolved)	98	% [91-114]	KC	1	200.7	04/21/2008 06:00:00 PM
Calcium as Ca (Total Recoverable)	101	% [91-115]	KC	1	200.7	04/23/2008 02:21:00 PM
Copper as Cu (Dissolved)	96	% [85-114]	BH	0.001	200.8	04/22/2008 03:49:00 PM
Copper as Cu (Total Recoverable)	95	% [85-115]	KC	0.02	200.8	04/21/2008 06:06:00 PM
Iron as Fe (Dissolved)	100	% [90-112]	KC	0.01	200.7	04/21/2008 05:57:00 PM
Iron as Fe (Total Recoverable)	106	% [91-115]	KC	0.01	200.7	04/23/2008 02:18:00 PM
Lead as Pb (Dissolved)	96	% [87-114]	BH	0.001	200.8	04/22/2008 03:49:00 PM
Lead as Pb (Total Recoverable)	99	% [85-115]	BH	0.001	200.8	04/21/2008 06:06:00 PM
Magnesium as Mg (Dissolved)	98	% [89-112]	KC	1	200.7	04/21/2008 06:00:00 PM
Magnesium as Mg (Total Recoverable)	98	% [90-115]	KC	1	200.7	04/23/2008 02:21:00 PM
Manganese as Mn (Dissolved)	99	% [83-113]	BH	0.003	200.8	04/22/2008 03:49:00 PM
Manganese as Mn (Total Recoverable)	105	% [94-115]	KC	0.003	200.7	04/23/2008 02:18:00 PM
Potassium as K (Dissolved)	98	% [86-114]	KC	1	200.7	04/21/2008 06:00:00 PM
Potassium as K (Total Recoverable)	102	% [87-115]	KC	1	200.7	04/23/2008 02:21:00 PM
Sodium as Na (Dissolved)	97	% [87-112]	KC	1	200.7	04/21/2008 06:00:00 PM
Sodium as Na (Total Recoverable)	100	% [87-115]	KC	1	200.7	04/23/2008 02:21:00 PM
Zinc as Zn (Dissolved)	100	% [89-113]	KC	0.01	200.7	04/21/2008 05:57:00 PM
Zinc as Zn (Total Recoverable)	105	% [89-115]	KC	0.01	200.7	04/23/2008 02:18:00 PM

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 1157561506.205
Laboratory No.: 2008040143-22
Sample Name: LABORATORY CONTROL SAMPLE
Sample Date/Time: ----- -----
Collected by: LABORATORY
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Metals Batch#/Digestion Date	1502	-----	BH		200.2	04/18/2008 03:00:00 PM

New World Response & Restoration
Project or Site Name

115 7561506-205
Project Number

Shane Matolyak
Sampler Name (Printed)

Allan Kirk
Project Manager, Report to

CHAIN OF CUSTODY RECORD

NORTHERN
Analytical Laboratories, Inc.

602 South 25th Street
Billings, Montana 59101
Ph: 406-254-7226 • Fax: 406-254-1389
nlabs@wtp.net

Tetra Tech
Report to (Firm or Agency)

851 Bridger Dr.
Address

Bozeman MT 59718
City State Zip

406 582-8780 582-8790
Phone Fax

DATE COLLECTED	TIME COLLECTED	SAMPLE LOCATION OR DESCRIPTION	COMP OR GRAB	SAMPLE MATRIX	NO. OF CONTAINERS	ANALYSIS REQUIRED: Common Ions	TDS	Tot. Metals	dis. Metals				NOTES	LAB NUMBER 2008 VCC 040143
4-17-08	1345	RR-DC-2	G	W	3	X	X	X					See Attached	1
4-17-08	1315	RR-DC-5	G	W	4	X	X	X	X					2
4-17-08	1230	RR-SW-7	G	W	4	X	X	X	X					3
4-17-08	1100	RR-SW-3	G	W	3	X	X	X						4
4-17-08	1030	RR-SW-4	G	W	4	X	X	X	X					5
4-17-08	1030	RR-SW-4X	G	W	4	X	X	X	X					6
4-17-08	0930	RR-CFY-2	G	W	4	X	X	X	X					7
4-17-08	0845	RR-SW-6	G	W	4	X	X	X	X					8
4-15-08	17:30	RR-SW-2	G	W	4	X	X	X	X					9
4-15-08	18:15	RR-SW-5	G	W	4	X	X	X	X					10
4-15-08	17:00	RR-SBT-3	G	W	4	X	X	X	X					11
4-15-08	16:30	RR-SBT-6	G	W	4	X	X	X	X					12

Relinquished by:	Date	Time	Received by:
Shane [illegible]	4-17-08	1500	Ryan Sparhawk
Ryan Sparhawk	4-18-08	0905	Norma C. Trankle

New World Response & Restoration
Project or Site Name

115 7561596-205
Project Number

Shane Matolyak
Sampler Name (Printed)

Allan Kirk
Project Manager, Report to

CHAIN OF CUSTODY RECORD

NORTHERN
Analytical Laboratories, Inc.

602 South 25th Street
Billings, Montana 59101
Ph: 406-254-7226 • Fax: 406-254-1389
nlabs@wtp.net

Tetra Tech
Report to (Firm or Agency)

851 Bridger Dr.
Address

Bozeman MT 59718
City State Zip

406 582-8780 582-8790
Phone Fax

DATE COLLECTED	TIME COLLECTED	SAMPLE LOCATION OR DESCRIPTION	COMP OR GRAB	SAMPLE MATRIX	NO. OF CONTAINERS	ANALYSIS REQUIRED: Common Ions	TDS	Tot. Metals	Dis. Metals				NOTES	2008 LAB NUMBER 040143
4-15-08	15:45	RR-SBC-1	G	W	3	X	X	X					See attached	13
4-15-08	14:30	RR-SBC-2	G	W	3	X	X	X						14
4-15-08	13:00	RR-SBSW-102	G	W	3	X	X	X						15
4-15-08	12:00	RR-SBC-4	G	W	3	X	X	X					Date & time not listed on sample bottles for RR-SBC-4	16
													Dup 2	17
													Spk 6	18
													Dup 11	19
													Spk 16	20
													MB	21
													LCS	22

Relinquished by:	Date	Time	Received by:
Shane Mato	4-17-08	1300	Ryan Sparhawk
Ryan Sparhawk	4-18-08	0905	Norma C. Trankle

NORTHERN
Analytical Laboratories, Inc.

SAMPLE RECEIPT CHECKLIST

Dear Valued Client: This checklist documents the condition of your sample(s) as it (they) arrived at our lab. Please review it and familiarize yourself with its contents. Should you have any questions or comments, please contact us. Thank you for your use of our services.

Client Name: TT - Helena

Date/Time Received: 4/18/08 0905 (Date / Time)

Project: New World

Received by: NT

Laboratory Number(s): 040143

Carrier Name: HAND

Checklist Completed by: MW 4/18/08 (Initials / Date)

Sample Type: H2O

	YES	NO
1. Shipping container in good condition?	✓	
2. Custody seals present on shipping container? Condition: Intact X Broken ____	✓	
3. Chain of custody present?	✓	
4. Chain of custody signed when relinquished and received?	✓	
5. Chain of custody agrees with sample labels?	✓	
6. Custody seals on sample bottles? Condition: Intact ____ Broken ____		✓
7. Samples in proper container/bottle?*	✓	
8. Sample containers intact?*	✓	
9. Sufficient sample volume for indicated test?*	✓	
10. Ice/Frozen Blue Ice present in shipping container? (circle one) container temperature 1. 1.2 C 2. 0.0 C 3. ____ * (if <0 or>10)	✓	
11. All samples rec'd within holding time?*	✓	
12. VOA vials have zero headspace? * (if contains >5mm headspace)	NA	
13. Trip Blank received?		

	YES	NO
14. pH check performed by: MW		
15. Metals bottle(s) pH <2?	✓	
16. Nutrient bottle(s) pH <2?	NA	
17. Cyanide bottle(s) pH >12?		
18. Sulfide bottle(s) pH >9?		
19. TOC bottle(s) pH <2?		
20. Phenolics bottle(s) pH <2?		
21. Oil & grease bottle(s) pH <2? (checked by analyst)		
22. EPH/DRO bottle(s) pH <2? (checked by analyst)		
23. Volatiles (VOA) pH <2? (checked by analyst)		
24. Semivolatiles (525) pH <2? (checked by analyst)		
25. Other test types		
26. Client contacted?	✓	
27. Person contacted	TT-Bob	
28. Date contacted	fax 4/21/08	

NOTES: **Samples may be affected when not transported at the temperature recommended by the EPA for the test you've selected. Please contact the lab if you have concerns about the temperature of your samples.**

*** Critical item - if marked "NO" contact lab manager.**

COMMENTS: _____

TABLE 5
SURFACE WATER ANALYTICAL REQUIREMENTS
2008/2009 Work Plan

Parameter	PQL (mg/L)[1]	EPA Method No.	Max. Holding Time
Physicochemical			
Specific Conductivity	None	2310B	28 days
pH	None	150.1	Upon arrival at lab
Total Dissolved Solids	None	2340C	7 days
Total Suspended Solids	None	160.2	7 days
Hardness	None	2340B	6 months
Acidity	None	305.1	14 days
Metals[2]			
Aluminum	0.05	200.8/200.7	6 months
Cadmium	0.0001	200.8/200.7	6 months
Copper	0.001	200.8/200.7	6 months
Iron	0.01	200.8/200.7	6 months
Lead	0.001	200.8/200.7	6 months
Manganese	0.003	200.8/200.7	6 months
Zinc	0.01	200.8/200.7	6 months
Common Cations[2]			
Calcium	1.0	200.8/200.7	6 months
Magnesium	1.0	200.8/200.7	6 months
Potassium	1.0	200.8/200.7	6 months
Sodium	1.0	200.8/200.7	6 months
Common Anions[2]			
Sulfate	None	375.2	28 Days
Bicarbonate	None	2320B	14 Days
Carbonate	None	2320B	14 Days
Chloride	None	325.3	28 Days

1 PQL = Practical Quantitation Limit in milligrams per liter (mg/L)
2 Surface water parameters will be analyzed as total recoverable (unfiltered); for the select stations shown in Table 2, both total and dissolved metals will be analyzed.

NORTHERN
Analytical Laboratories, Inc.

602 South 25th Street
P O Box 30315
Billings, MT 59107
Telephone: (406) 254-7226
Fax: (406) 254-1389

REPORT TO:	ATTN: MARK PEARSON TETRA TECH, INC. 303 IRENE STREET HELENA, MT 59604	**DATE:** **JOB NUMBER:** **PAGE:** **INVOICE NO.:**	July 10, 2008 87-911-12 1 of 16 8050248

REPORT OF: Water Analysis – New World – Project No. 1157561506.109

CASE NARRATIVE:

On May 30, 2008, these water samples (laboratory numbers 2008050248-1 through -10) were received in our laboratory for analysis. Tests were conducted in accordance with *"Standard Methods for the Examination of Water and Wastewater"*, 20th Edition; EPA/600/R-93-100 *"Methods for the Determination of Inorganic Substances in Environmental Samples"*, EPA/600/R-94-111 *"Methods for the Determination of Metals in Environmental Samples"*, Supplement I; and Code of Federal Regulations, Title 40, Part 136.

The results of the analysis are shown on the following pages. A < sign indicates the value reported was the practical quantitation limit for this sample using the method described. Concentrations of analyte, if present, below this were not quantifiable. Sample results are not corrected for analyte blank concentrations. Values in brackets are the quality control limits for the associated quality control test. RPD is the abbreviation for relative percent difference.

The condition of the samples upon receipt at the laboratory is noted on the attached sample receipt checklist. Chain of custody documentation is enclosed.

Footnotes used in this report include the following:

B – The analyte was detected in the method blank. Sample concentrations flagged with a B may not represent the true sample concentration. The results are not corrected for the method blank concentration.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may be inaccurate or imprecise.

(4) The recovery of this analyte in the matrix spike and/or its spike duplicate did not meet the quality control limits. The recovery of the analyte in the laboratory control sample met the control limits. This indicates the presence of a matrix interference in the sample. The associated sample results have been flagged with a footnote.

Reviewed by_____
Kathleen A. Smit – Laboratory Manager

Cc: Mark Pearson
Tetra Tech, Inc.
Bozeman, MT

Attachments: Chain of Custody
Sample Receipt Checklist
Table 5
Table 12

jkw

As a mutual protection to clients, the public and ourselves, all reports are submitted as the confidential property of our clients and authorization for publication of statements, conclusions or extracts from or regarding our reports is reserved pending our written approval. Test results apply specifically to the samples tested only. The entire report shall not be reproduced, except in full, without the written approval of the laboratory. Samples will be disposed of after testing is completed unless other arrangements are agreed to in writing.

Client: TETRA TECH, INC.
Project Name: NEW WORLD
Project No.: 206
Laboratory No.: 2008050248-1
Sample Name: RR-SBGW-107
Sample Date/Time: 05/29/2008 15:15:00
Collected by: VICKI R. & SHANE M.
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3	<2	mg/l	RM	2	2310 B	06/11/2008 10:07:05 AM
Alkalinity Bicarbonate as HCO3	195	mg/l	ES	1	2320B	06/05/2008 11:25:00 AM
Alkalinity Carbonate as CO3	17	mg/l	ES	0	2320B	06/05/2008 11:25:00 AM
Alkalinity Total as CaCO3	188	mg/l	ES	1	2320B	06/05/2008 11:25:00 AM
Chloride as Cl	2	mg/l	ES	2	300.0	06/11/2008 12:32:00 AM
Sulfate as SO4	83	mg/l	ES	10	300.0	06/11/2008 12:32:00 AM
Hardness as CaCO3	75	mg/l	BH	7	2340B	07/08/2008 03:39:16 PM
Electrical Conductivity	552	umhos/cm	CC	10	2510B	06/11/2008 03:48:00 PM
pH	9.0	S.U.	CC	1.00	4500-H+-B	05/30/2008 06:37:00 PM
Total Dissolved Solids	387	mg/l	CC	20	2540C	06/04/2008 09:00:00 AM
Aluminum as Al (Dissolved)	<0.05	mg/l	DK	0.05	200.8	06/11/2008 04:52:00 PM
Cadmium as Cd (Dissolved)	0.0001	mg/l	BH	0.0001	200.8	06/09/2008 03:33:00 PM
Calcium as Ca (Dissolved)	20	mg/l	BH	1	200.7	06/16/2008 01:38:00 PM
Copper as Cu (Dissolved)	<0.001	mg/l	DK	0.001	200.8	06/11/2008 04:52:00 PM
Iron as Fe (Dissolved)	<0.01	mg/l	BH	0.01	200.7	06/18/2008 08:26:00 PM
Lead as Pb (Dissolved)	<0.001	mg/l	BH	0.001	200.8	06/09/2008 03:33:00 PM
Magnesium as Mg (Dissolved)	6	mg/l	BH	1	200.7	06/16/2008 01:38:00 PM
Manganese as Mn (Dissolved)	0.021	mg/l	DK	0.005	200.8	06/11/2008 04:52:00 PM
Potassium as K (Dissolved)	1	mg/l	BH	1	200.7	06/16/2008 01:38:00 PM
Sodium as Na (Dissolved)	97	mg/l	KC	1	200.7	06/19/2008 04:21:00 PM
Zinc as Zn (Dissolved)	<0.01	mg/l	BH	0.01	200.7	06/18/2008 08:26:00 PM
Cations	5.74	meq/l	---	0.30	1030F	
Anions	5.54	meq/l	---	0.38	1030F	
Cation/Anion Balance	1.77	% [max 5%]	---	-----	AWWA/APHA	

Client: TETRA TECH, INC.
Project Name: NEW WORLD
Project No.: 206
Laboratory No.: 2008050248-2
Sample Name: RR-SBGW-108
Sample Date/Time: 05/29/2008 13:45:0
Collected by: VICKI R. & SHANE M.
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3	<2	mg/l	RM	2	2310 B	06/11/2008 10:07:05 AM
Alkalinity Bicarbonate as HCO3	118	mg/l	ES	1	2320B	06/05/2008 11:25:00 AM
Alkalinity Carbonate as CO3	0	mg/l	ES	0	2320B	06/05/2008 11:25:00 AM
Alkalinity Total as CaCO3	96	mg/l	ES	1	2320B	06/05/2008 11:25:00 AM
Chloride as Cl	2	mg/l	ES	2	300.0	06/11/2008 01:33:00 AM
Sulfate as SO4	9	mg/l	ES	10	300.0	06/11/2008 01:33:00 AM
Hardness as CaCO3	110	mg/l	BH	7	2340B	07/08/2008 03:39:16 PM
Electrical Conductivity	228	umhos/cm	CC	10	2510B	06/11/2008 03:48:00 PM
pH	7.2	S.U.	CC	1.00	4500-H+-B	05/30/2008 06:37:00 PM
Total Dissolved Solids	145	mg/l	CC	20	2540C	06/04/2008 09:00:00 AM
Aluminum as Al (Dissolved)	<0.05	mg/l	BH	0.05	200.8	06/09/2008 03:45:00 PM
Cadmium as Cd (Dissolved)	<0.0001	mg/l	BH	0.0001	200.8	06/09/2008 03:45:00 PM
Calcium as Ca (Dissolved)	36	mg/l	BH	1	200.7	06/16/2008 01:43:00 PM
Copper as Cu (Dissolved)	0.001	mg/l	BH	0.001	200.8	06/09/2008 03:45:00 PM
Iron as Fe (Dissolved)	<0.01	mg/l	BH	0.01	200.7	06/18/2008 08:32:00 PM
Lead as Pb (Dissolved)	<0.001	mg/l	BH	0.001	200.8	06/09/2008 03:45:00 PM
Magnesium as Mg (Dissolved)	5	mg/l	BH	1	200.7	06/16/2008 01:43:00 PM
Manganese as Mn (Dissolved)	<0.003	mg/l	BH	0.005	200.8	06/09/2008 03:45:00 PM
Potassium as K (Dissolved)	<1	mg/l	BH	1	200.7	06/16/2008 01:43:00 PM
Sodium as Na (Dissolved)	2	mg/l	KC	1	200.7	06/19/2008 04:26:00 PM
Zinc as Zn (Dissolved)	<0.01	mg/l	BH	0.01	200.7	06/18/2008 08:32:00 PM
Cations	2.30	meq/l	---	0.30	1030F	
Anions	2.16	meq/l	---	0.38	1030F	
Cation/Anion Balance	0.14	[max 0.20]	---	-----	AWWA/APHA	

Client: TETRA TECH, INC.
Project Name: NEW WORLD
Project No.: 206
Laboratory No.: 2008050248-3
Sample Name: RR-SBGW-107T
Sample Date/Time: 05/29/2008 14:43:0
Collected by: VICKI R. & SHANE M.
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3	<2	mg/l	RM	2	2310 B	06/11/2008 10:07:05 AM
Alkalinity Bicarbonate as HCO3	161	mg/l	ES	1	2320B	06/05/2008 11:25:00 AM
Alkalinity Carbonate as CO3	0	mg/l	ES	0	2320B	06/05/2008 11:25:00 AM
Alkalinity Total as CaCO3	132	mg/l	ES	1	2320B	06/05/2008 11:25:00 AM
Chloride as Cl	2	mg/l	ES	2	300.0	06/11/2008 02:03:00 AM
Sulfate as SO4	32	mg/l	ES	10	300.0	06/11/2008 02:03:00 AM
Hardness as CaCO3	157	mg/l	BH	7	2340B	07/08/2008 03:39:16 PM
Electrical Conductivity	346	umhos/cm	CC	10	2510B	06/11/2008 03:48:00 PM
pH	7.0	S.U.	CC	1.00	4500-H+-B	05/30/2008 06:37:00 PM
Total Dissolved Solids	145	mg/l	CC	20	2540C	06/04/2008 09:00:00 AM
Aluminum as Al (Dissolved)	<0.05	mg/l	BH	0.05	200.8	06/09/2008 03:51:00 PM
Cadmium as Cd (Dissolved)	<0.0001	mg/l	BH	0.0001	200.8	06/09/2008 03:51:00 PM
Calcium as Ca (Dissolved)	53	mg/l	BH	1	200.7	06/16/2008 01:46:00 PM
Copper as Cu (Dissolved)	<0.001	mg/l	BH	0.001	200.8	06/09/2008 03:51:00 PM
Iron as Fe (Dissolved)	<0.01	mg/l	BH	0.01	200.7	06/18/2008 08:41:00 PM
Lead as Pb (Dissolved)	<0.001	mg/l	BH	0.001	200.8	06/09/2008 03:51:00 PM
Magnesium as Mg (Dissolved)	6	mg/l	BH	1	200.7	06/16/2008 01:46:00 PM
Manganese as Mn (Dissolved)	<0.003	mg/l	BH	0.005	200.8	06/09/2008 03:51:00 PM
Potassium as K (Dissolved)	<1	mg/l	BH	1	200.7	06/16/2008 01:46:00 PM
Sodium as Na (Dissolved)	3	mg/l	KC	1	200.7	06/19/2008 04:28:00 PM
Zinc as Zn (Dissolved)	<0.01	mg/l	BH	0.01	200.7	06/18/2008 08:41:00 PM
Cations	3.27	meq/l	---	0.30	1030F	
Anions	3.36	meq/l	---	0.38	1030F	
Cation/Anion Balance	0.09	[max 0.20]	---	-----	AWWA/APHA	

Client: TETRA TECH, INC.
Project Name: NEW WORLD
Project No.: 206
Laboratory No.: 2008050248-4
Sample Name: RR-SBGW-108T
Sample Date/Time: 05/29/2008 14:44:0
Collected by: VICKI R. & SHANE M.
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3	<2	mg/l	RM	2	2310 B	06/11/2008 10:07:05 AM
Alkalinity Bicarbonate as HCO3	172	mg/l	ES	1	2320B	06/05/2008 11:25:00 AM
Alkalinity Carbonate as CO3	0	mg/l	ES	0	2320B	06/05/2008 11:25:00 AM
Alkalinity Total as CaCO3	141	mg/l	ES	1	2320B	06/05/2008 11:25:00 AM
Chloride as Cl	2	mg/l	ES	2	300.0	06/11/2008 02:34:00 AM
Sulfate as SO4	14	mg/l	ES	10	300.0	06/11/2008 02:34:00 AM
Hardness as CaCO3	185	mg/l	BH	7	2340B	07/08/2008 03:39:16 PM
Electrical Conductivity	327	umhos/cm	CC	10	2510B	06/11/2008 03:48:00 PM
pH	7.6	S.U.	CC	1.00	4500-H+-B	05/30/2008 06:37:00 PM
Total Dissolved Solids	206	mg/l	CC	20	2540C	06/04/2008 09:00:00 AM
Aluminum as Al (Dissolved)	<0.05	mg/l	BH	0.05	200.8	06/09/2008 04:25:00 PM
Cadmium as Cd (Dissolved)	0.0005	mg/l	BH	0.0001	200.8	06/09/2008 04:25:00 PM
Calcium as Ca (Dissolved)	64	mg/l	BH	1	200.7	06/16/2008 02:43:00 PM
Copper as Cu (Dissolved)	<0.001	mg/l	BH	0.001	200.8	06/09/2008 04:25:00 PM
Iron as Fe (Dissolved)	<0.01	mg/l	BH	0.01	200.7	06/18/2008 08:44:00 PM
Lead as Pb (Dissolved)	<0.001	mg/l	BH	0.001	200.8	06/09/2008 04:25:00 PM
Magnesium as Mg (Dissolved)	6	mg/l	BH	1	200.7	06/16/2008 02:43:00 PM
Manganese as Mn (Dissolved)	<0.003	mg/l	BH	0.005	200.8	06/09/2008 04:25:00 PM
Potassium as K (Dissolved)	<1	mg/l	BH	1	200.7	06/16/2008 02:43:00 PM
Sodium as Na (Dissolved)	2	mg/l	BH	1	200.7	06/16/2008 02:43:00 PM
Zinc as Zn (Dissolved)	<0.01	mg/l	BH	0.01	200.7	06/18/2008 08:44:00 PM
Cations	3.77	meq/l	---	0.30	1030F	
Anions	3.17	meq/l	---	0.38	1030F	
Cation/Anion Balance	8.65*	% [max 2%]	---	-----	AWWA/APHA	

Northern Analytical Laboratories, Inc.

***Concentrations of major cations and anions were verified with second analyses.**

Client: TETRA TECH, INC.
Project Name: NEW WORLD
Project No.: 206
Laboratory No.: 2008050248-5
Sample Name: RR-SBGW-105
Sample Date/Time: 05/29/2008 12:30:0
Collected by: VICKI R. & SHANE M.
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3	<2	mg/l	RM	2	2310 B	06/11/2008 10:07:05 AM
Alkalinity Bicarbonate as HCO3	118	mg/l	ES	1	2320B	06/05/2008 11:25:00 AM
Alkalinity Carbonate as CO3	3	mg/l	ES	0	2320B	06/05/2008 11:25:00 AM
Alkalinity Total as CaCO3	101	mg/l	ES	1	2320B	06/05/2008 11:25:00 AM
Chloride as Cl	1	mg/l	ES	2	300.0	06/11/2008 10:12:00 AM
Sulfate as SO4	16	mg/l	ES	10	300.0	06/11/2008 10:12:00 AM
Hardness as CaCO3	46	mg/l	BH	7	2340B	07/08/2008 03:39:16 PM
Electrical Conductivity	257	umhos/cm	CC	10	2510B	06/11/2008 03:48:00 PM
pH	8.6	S.U.	CC	1.00	4500-H+-B	05/30/2008 06:37:00 PM
Total Dissolved Solids	199	mg/l	CC	20	2540C	06/04/2008 09:00:00 AM
Aluminum as Al (Dissolved)	<0.05	mg/l	DK	0.05	200.8	06/11/2008 04:57:00 PM
Cadmium as Cd (Dissolved)	<0.0001	mg/l	BH	0.0001	200.8	06/09/2008 04:31:00 PM
Calcium as Ca (Dissolved)	15	mg/l	BH	1	200.7	06/16/2008 02:45:00 PM
Copper as Cu (Dissolved)	<0.001	mg/l	DK	0.001	200.8	06/11/2008 04:57:00 PM
Iron as Fe (Dissolved)	<0.01	mg/l	BH	0.01	200.7	06/18/2008 08:47:00 PM
Lead as Pb (Dissolved)	<0.001	mg/l	BH	0.001	200.8	06/09/2008 04:31:00 PM
Magnesium as Mg (Dissolved)	2	mg/l	BH	1	200.7	06/16/2008 02:45:00 PM
Manganese as Mn (Dissolved)	0.005	mg/l	DK	0.005	200.8	06/11/2008 04:57:00 PM
Potassium as K (Dissolved)	2	mg/l	BH	1	200.7	06/16/2008 02:45:00 PM
Sodium as Na (Dissolved)	41	mg/l	BH	1	200.7	06/16/2008 02:45:00 PM
Zinc as Zn (Dissolved)	<0.01	mg/l	BH	0.01	200.7	06/18/2008 08:47:00 PM
Cations	2.75	meq/l	---	0.30	1030F	
Anions	2.38	meq/l	---	0.38	1030F	
Cation/Anion Balance	0.37*	[max 0.20]	---	-----	AWWA/APHA	

Northern Analytical Laboratories, Inc.

***Concentrations of major cations and anions were verified with second analyses.**

Client: TETRA TECH, INC.
Project Name: NEW WORLD
Project No.: 206
Laboratory No.: 2008050248-6
Sample Name: RR-SBGW-105T
Sample Date/Time: 05/29/2008 11:45:0
Collected by: VICKI R. & SHANE M.
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3	<2UJ	mg/l	RM	2	2310 B	06/11/2008 10:07:05 AM
Alkalinity Bicarbonate as HCO3	204	mg/l	ES	1	2320B	06/05/2008 11:25:00 AM
Alkalinity Carbonate as CO3	0	mg/l	ES	0	2320B	06/05/2008 11:25:00 AM
Alkalinity Total as CaCO3	167	mg/l	ES	1	2320B	06/05/2008 11:25:00 AM
Chloride as Cl	1	mg/l	ES	1	300.0	06/11/2008 11:13:00 AM
Sulfate as SO4	19	mg/l	ES	5	300.0	06/11/2008 11:13:00 AM
Hardness as CaCO3	170	mg/l	BH	7	2340B	07/08/2008 03:39:16 PM
Electrical Conductivity	342	umhos/cm	CC	10	2510B	06/11/2008 03:48:00 PM
pH	7.8	S.U.	CC	1.00	4500-H+-B	05/30/2008 06:37:00 PM
Total Dissolved Solids	209	mg/l	CC	20	2540C	06/04/2008 09:00:00 AM
Aluminum as Al (Dissolved)	<0.05	mg/l	BH	0.05	200.8	06/09/2008 04:37:00 PM
Cadmium as Cd (Dissolved)	<0.0001	mg/l	BH	0.0001	200.8	06/09/2008 04:37:00 PM
Calcium as Ca (Dissolved)	50	mg/l	BH	1	200.7	06/16/2008 02:48:00 PM
Copper as Cu (Dissolved)	<0.001	mg/l	BH	0.001	200.8	06/09/2008 04:37:00 PM
Iron as Fe (Dissolved)	0.19	mg/l	BH	0.01	200.7	06/18/2008 08:50:00 PM
Lead as Pb (Dissolved)	<0.001	mg/l	BH	0.001	200.8	06/09/2008 04:37:00 PM
Magnesium as Mg (Dissolved)	11	mg/l	BH	1	200.7	06/16/2008 02:48:00 PM
Manganese as Mn (Dissolved)	0.10	mg/l	BH	0.005	200.8	06/09/2008 04:37:00 PM
Potassium as K (Dissolved)	1	mg/l	BH	1	200.7	06/16/2008 02:48:00 PM
Sodium as Na (Dissolved)	3	mg/l	BH	1	200.7	06/16/2008 02:48:00 PM
Zinc as Zn (Dissolved)	<0.01	mg/l	BH	0.01	200.7	06/18/2008 08:50:00 PM
Cations	3.56	meq/l	---	0.30	1030F	
Anions	3.76	meq/l	---	0.38	1030F	
Cation/Anion Balance	0.20	[max 0.20]	---	-----	AWWA/APHA	

Client: TETRA TECH, INC.
Project Name: NEW WORLD
Project No.: 206
Laboratory No.: 2008050248-7
Sample Name: RR-SUMP
Sample Date/Time: 05/29/2008 14:15:0
Collected by: VICKI R. & SHANE M.
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3	<2	mg/l	RM	2	2310 B	06/11/2008 10:07:05 AM
Alkalinity Bicarbonate as HCO3	1270	mg/l	ES	1	2320B	06/05/2008 11:25:00 AM
Alkalinity Carbonate as CO3	0	mg/l	ES	0	2320B	06/05/2008 11:25:00 AM
Alkalinity Total as CaCO3	1040	mg/l	ES	1	2320B	06/05/2008 11:25:00 AM
Chloride as Cl	9	mg/l	ES	2	300.0	06/11/2008 04:06:00 AM
Sulfate as SO4	1590	mg/l	ES	50	300.0	06/11/2008 12:14:00 PM
Hardness as CaCO3	2570	mg/l	BH	7	2340B	07/08/2008 03:39:16 PM
Electrical Conductivity	3670	umhos/cm	CC	10	2510B	06/11/2008 03:48:00 PM
pH	6.6	S.U.	CC	1.00	4500-H+-B	05/30/2008 06:37:00 PM
Total Dissolved Solids	3330	mg/l	RM	20	2540C	06/04/2008 01:50:00 PM
Total Suspended Solids	3	mg/l	RM	1	2540D	06/04/2008 01:52:00 PM
Aluminum as Al (Dissolved)	<0.05	mg/l	BH	0.05	200.8	06/09/2008 04:43:00 PM
Aluminum as Al (Total Recoverable)	<0.05	mg/l	BH	0.05	200.7	06/12/2008 06:16:00 PM
Arsenic as As (Total Recoverable)	<0.003	mg/l	BH	0.003	200.8	06/06/2008 02:42:00 PM
Barium as Ba (Total Recoverable)	0.024	mg/l	DK	0.005	200.8	06/03/2008 06:11:00 PM
Cadmium as Cd (Dissolved)	0.0002	mg/l	BH	0.0001	200.8	06/09/2008 04:43:00 PM
Cadmium as Cd (Total Recoverable)	0.0002	mg/l	BH	0.0001	200.8	06/06/2008 02:42:00 PM
Calcium as Ca (Dissolved)	640	mg/l	KC	1	200.7	06/19/2008 09:46:00 PM
Calcium as Ca (Total Recoverable)	626	mg/l	KC	1	200.7	06/19/2008 11:39:00 AM
Chromium as Cr (Total Recoverable)	<0.001	mg/l	BH	0.001	200.8	06/06/2008 02:42:00 PM
Copper as Cu (Dissolved)	0.003	mg/l	BH	0.001	200.8	06/09/2008 04:43:00 PM
Copper as Cu (Total Recoverable)	0.003	mg/l	DK	0.001	200.8	06/04/2008 09:51:00 AM
Iron as Fe (Dissolved)	0.03	mg/l	BH	0.01	200.7	06/18/2008 08:53:00 PM
Iron as Fe (Total Recoverable)	0.14 B	mg/l	KC	0.01	200.7	06/19/2008 01:25:00 PM
Lead as Pb (Dissolved)	<0.001	mg/l	BH	0.001	200.8	06/09/2008 04:43:00 PM
Lead as Pb (Total Recoverable)	<0.001	mg/l	DK	0.001	200.8	06/04/2008 09:51:00 AM
Magnesium as Mg (Dissolved)	237	mg/l	KC	1	200.7	06/19/2008 05:26:00 PM
Manganese as Mn (Dissolved)	5.43	mg/l	BH	0.005	200.7	06/23/2008 01:34:00 PM
Manganese as Mn (Total Recoverable)	4.60	mg/l	KC	0.005	200.7	06/19/2008 01:25:00 PM
Mercury as Hg (Total Recoverable)	NA	-----	-----	-----	-----	
Potassium as K (Dissolved)	6	mg/l	KC	1	200.7	06/19/2008 05:26:00 PM
Potassium as K (Total Recoverable)	7	mg/l	KC	1	200.7	06/19/2008 11:36:00 AM
Selenium as Se (Total Recoverable)	0.005	mg/l	BH	0.001	200.8	06/06/2008 02:42:00 PM

Client: TETRA TECH, INC.
Project Name: NEW WORLD
Project No.: 206
Laboratory No.: 2008050248-7
Sample Name: RR-SUMP
Sample Date/Time: 05/29/2008 14:15:0
Collected by: VICKI R. & SHANE M.
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Silver as Ag (Total Recoverable)	<0.0005	mg/l	DK	0.0005	200.8	06/03/2008 06:11:00 PM
Sodium as Na (Dissolved)	77	mg/l	KC	1	200.7	06/19/2008 05:26:00 PM
Sodium as Na (Total Recoverable)	79	mg/l	KC	1	200.7	06/19/2008 11:36:00 AM
Zinc as Zn (Dissolved)	<0.01	mg/l	BH	0.01	200.7	06/18/2008 08:53:00 PM
Zinc as Zn (Total Recoverable)	0.01	mg/l	BH	0.01	200.7	06/12/2008 06:16:00 PM
ICP/AA Batch#/Digest Date	1556	-----	SH		200.2	06/02/2008 11:00:00 AM
ICPMS Batch#/Digest Date	1556	-----	SH		200.2	06/02/2008 11:00:00 AM
Mercury Batch #/Digest Date	NA	-----	-----	-----	-----	
Cations	54.97	meq/l	---	0.30	1030F	
Anions	54.11	meq/l	---	0.38	1030F	
Cation/Anion Balance	0.79	% [max 5%]	---	-----	AWWA/APHA	

Client: TETRA TECH, INC.
Project Name: NEW WORLD
Project No.: 206
Laboratory No.: 2008050248-8
Sample Name: RR-SBT-6
Sample Date/Time: 05/29/2008 17:00:0
Collected by: VICKI R. & SHANE M.
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3	<2	mg/l	RM	2	2310 B	06/11/2008 10:07:05 AM
Alkalinity Bicarbonate as HCO3	82	mg/l	ES	1	2320B	06/05/2008 11:25:00 AM
Alkalinity Carbonate as CO3	0	mg/l	ES	0	2320B	06/05/2008 11:25:00 AM
Alkalinity Total as CaCO3	67	mg/l	ES	1	2320B	06/05/2008 11:25:00 AM
Chloride as Cl	1	mg/l	ES	1	300.0	06/11/2008 05:00:00 PM
Sulfate as SO4	6	mg/l	ES	5	300.0	06/11/2008 05:00:00 PM
Hardness as CaCO3	79	mg/l	BH	7	2340B	07/08/2008 03:39:16 PM
Electrical Conductivity	155	umhos/cm	CC	10	2510B	06/11/2008 03:48:00 PM
pH	7.9	S.U.	CC	1.00	4500-H+-B	05/30/2008 06:37:00 PM
Total Dissolved Solids	78	mg/l	RM	20	2540C	06/04/2008 01:50:00 PM
Total Suspended Solids	79	mg/l	RM	4	2540D	06/04/2008 01:52:00 PM
Aluminum as Al (Dissolved)	<0.05	mg/l	BH	0.05	200.8	06/09/2008 04:55:00 PM
Aluminum as Al (Total Recoverable)	1.63	mg/l	BH	0.05	200.7	06/12/2008 06:34:00 PM
Cadmium as Cd (Dissolved)	<0.0001	mg/l	BH	0.0001	200.8	06/09/2008 04:55:00 PM
Cadmium as Cd (Total Recoverable)	<0.0001	mg/l	DK	0.0001	200.8	06/04/2008 10:05:00 AM
Calcium as Ca (Dissolved)	25	mg/l	BH	1	200.7	06/16/2008 02:55:00 PM
Calcium as Ca (Total Recoverable)	26	mg/l	BH	1	200.7	06/12/2008 06:34:00 PM
Copper as Cu (Dissolved)	0.001	mg/l	BH	0.001	200.8	06/09/2008 04:55:00 PM
Copper as Cu (Total Recoverable)	0.011	mg/l	DK	0.001	200.8	06/04/2008 10:05:00 AM
Iron as Fe (Dissolved)	<0.01	mg/l	BH	0.01	200.7	06/18/2008 08:59:00 PM
Iron as Fe (Total Recoverable)	2.51	mg/l	KC	0.01	200.7	06/19/2008 01:28:00 PM
Lead as Pb (Dissolved)	<0.001	mg/l	BH	0.001	200.8	06/09/2008 04:55:00 PM
Lead as Pb (Total Recoverable)	0.006	mg/l	DK	0.001	200.8	06/04/2008 10:05:00 AM
Magnesium as Mg (Dissolved)	4	mg/l	BH	1	200.7	06/16/2008 02:55:00 PM
Manganese as Mn (Dissolved)	0.008	mg/l	BH	0.005	200.8	06/09/2008 04:55:00 PM
Manganese as Mn (Total Recoverable)	0.073	mg/l	KC	0.005	200.7	06/19/2008 01:28:00 PM
Potassium as K (Dissolved)	<1	mg/l	BH	1	200.7	06/16/2008 02:55:00 PM
Potassium as K (Total Recoverable)	<1	mg/l	KC	1	200.7	06/19/2008 11:58:00 AM
Sodium as Na (Dissolved)	1	mg/l	BH	1	200.7	06/16/2008 02:55:00 PM
Sodium as Na (Total Recoverable)	1	mg/l	KC	1	200.7	06/19/2008 11:58:00 AM
Zinc as Zn (Dissolved)	<0.01	mg/l	BH	0.01	200.7	06/18/2008 08:59:00 PM
Zinc as Zn (Total Recoverable)	0.02	mg/l	BH	0.01	200.7	06/12/2008 06:34:00 PM
Cations	1.62	meq/l	---	0.30	1030F	

Client: TETRA TECH, INC.
Project Name: NEW WORLD
Project No.: 206
Laboratory No.: 2008050248-8
Sample Name: RR-SBT-6
Sample Date/Time: 05/29/2008 17:00:0
Collected by: VICKI R. & SHANE M.
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Anions	1.49	meq/l	---	0.38	1030F	
Cation/Anion Balance	0.13	[max 0.20]	---	-----	AWWA/APHA	
Metals Batch#/Digestion Date	1556	-----	SH		200.2	

Client: TETRA TECH, INC.
Project Name: NEW WORLD
Project No.: 206
Laboratory No.: 2008050248-9
Sample Name: RR-SBT-36
Sample Date/Time: 05/29/2008 16:30:0
Collected by: VICKI R. & SHANE M.
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3	<2	mg/l	RM	2	2310 B	06/11/2008 10:07:05 AM
Alkalinity Bicarbonate as HCO3	79	mg/l	ES	1	2320B	06/05/2008 11:25:00 AM
Alkalinity Carbonate as CO3	0	mg/l	ES	0	2320B	06/05/2008 11:25:00 AM
Alkalinity Total as CaCO3	65	mg/l	ES	1	2320B	06/05/2008 11:25:00 AM
Chloride as Cl	1	mg/l	ES	1	300.0	06/11/2008 06:01:00 PM
Sulfate as SO4	10	mg/l	ES	5	300.0	06/11/2008 06:01:00 PM
Hardness as CaCO3	76	mg/l	BH	7	2340B	07/08/2008 03:39:16 PM
Electrical Conductivity	157	umhos/cm	CC	10	2510B	06/11/2008 03:48:00 PM
pH	7.7	S.U.	CC	1.00	4500-H+-B	05/30/2008 06:37:00 PM
Total Dissolved Solids	79	mg/l	RM	20	2540C	06/04/2008 01:50:00 PM
Total Suspended Solids	<1	mg/l	RM	1	2540D	06/04/2008 01:52:00 PM
Aluminum as Al (Dissolved)	<0.05	mg/l	BH	0.05	200.8	06/09/2008 05:01:00 PM
Aluminum as Al (Total Recoverable)	<0.05	mg/l	BH	0.05	200.7	06/12/2008 06:40:00 PM
Cadmium as Cd (Dissolved)	<0.0001	mg/l	BH	0.0001	200.8	06/09/2008 05:01:00 PM
Cadmium as Cd (Total Recoverable)	<0.0001	mg/l	DK	0.0001	200.8	06/04/2008 10:11:00 AM
Calcium as Ca (Dissolved)	24	mg/l	BH	1	200.7	06/16/2008 02:58:00 PM
Calcium as Ca (Total Recoverable)	24	mg/l	BH	1	200.7	06/12/2008 06:40:00 PM
Copper as Cu (Dissolved)	<0.001	mg/l	BH	0.001	200.8	06/09/2008 05:01:00 PM
Copper as Cu (Total Recoverable)	0.002	mg/l	DK	0.001	200.8	06/04/2008 10:11:00 AM
Iron as Fe (Dissolved)	<0.01	mg/l	BH	0.01	200.7	06/18/2008 09:02:00 PM
Iron as Fe (Total Recoverable)	0.10 B	mg/l	KC	0.01	200.7	06/19/2008 01:31:00 PM
Lead as Pb (Dissolved)	<0.001	mg/l	BH	0.001	200.8	06/09/2008 05:01:00 PM
Lead as Pb (Total Recoverable)	<0.001	mg/l	DK	0.001	200.8	06/04/2008 10:11:00 AM
Magnesium as Mg (Dissolved)	4	mg/l	BH	1	200.7	06/16/2008 02:58:00 PM
Manganese as Mn (Dissolved)	<0.003	mg/l	BH	0.005	200.8	06/09/2008 05:01:00 PM
Manganese as Mn (Total Recoverable)	<0.003	mg/l	KC	0.005	200.7	06/19/2008 01:31:00 PM
Potassium as K (Dissolved)	<1	mg/l	BH	1	200.7	06/16/2008 02:58:00 PM
Potassium as K (Total Recoverable)	<1	mg/l	KC	1	200.7	06/19/2008 12:04:00 PM
Sodium as Na (Dissolved)	<1	mg/l	BH	1	200.7	06/16/2008 02:58:00 PM
Sodium as Na (Total Recoverable)	1	mg/l	KC	1	200.7	06/19/2008 12:04:00 PM
Zinc as Zn (Dissolved)	<0.01	mg/l	BH	0.01	200.7	06/18/2008 09:02:00 PM
Zinc as Zn (Total Recoverable)	<0.01	mg/l	BH	0.01	200.7	06/12/2008 06:40:00 PM
Cations	1.53	meq/l	---	0.30	1030F	

Client: TETRA TECH, INC.
Project Name: NEW WORLD
Project No.: 206
Laboratory No.: 2008050248-9
Sample Name: RR-SBT-36
Sample Date/Time: 05/29/2008 16:30:0
Collected by: VICKI R. & SHANE M.
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Anions	1.54	meq/l	---	0.38	1030F	
Cation/Anion Balance	0.01	[max 0.20]	---	-----	AWWA/APHA	
Metals Batch#/Digestion Date	1556	-----	SH		200.2	

Client: TETRA TECH, INC.
Project Name: NEW WORLD
Project No.: 206
Laboratory No.: 2008050248-10
Sample Name: RR-SBGW-105X
Sample Date/Time: 05/29/2008 12:30:00
Collected by: VICKI R. & SHANE M.
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3	<2	mg/l	RM	2	2310 B	06/11/2008 10:07:05 AM
Alkalinity Bicarbonate as HCO3	135	mg/l	ES	1	2320B	06/05/2008 11:25:00 AM
Alkalinity Carbonate as CO3	3	mg/l	ES	0	2320B	06/05/2008 11:25:00 AM
Alkalinity Total as CaCO3	115	mg/l	ES	1	2320B	06/05/2008 11:25:00 AM
Chloride as Cl	2	mg/l	ES	1	300.0	06/11/2008 07:02:00 PM
Sulfate as SO4	17	mg/l	ES	5	300.0	06/11/2008 07:02:00 PM
Hardness as CaCO3	43	mg/l	BH	7	2340B	07/08/2008 03:39:16 PM
Electrical Conductivity	261	umhos/cm	CC	10	2510B	06/11/2008 03:48:00 PM
pH	8.7	S.U.	CC	1.00	4500-H+-B	05/30/2008 06:37:00 PM
Total Dissolved Solids	211	mg/l	CC	20	2540C	06/04/2008 09:00:00 AM
Aluminum as Al (Dissolved)	<0.05	mg/l	BH	0.05	200.8	06/09/2008 05:07:00 PM
Cadmium as Cd (Dissolved)	<0.0001	mg/l	BH	0.0001	200.8	06/09/2008 05:07:00 PM
Calcium as Ca (Dissolved)	14	mg/l	BH	1	200.7	06/16/2008 03:00:00 PM
Copper as Cu (Dissolved)	<0.001	mg/l	BH	0.001	200.8	06/09/2008 05:07:00 PM
Iron as Fe (Dissolved)	<0.01	mg/l	BH	0.01	200.7	06/18/2008 09:05:00 PM
Lead as Pb (Dissolved)	<0.001	mg/l	BH	0.001	200.8	06/09/2008 05:07:00 PM
Magnesium as Mg (Dissolved)	2	mg/l	BH	1	200.7	06/16/2008 03:00:00 PM
Manganese as Mn (Dissolved)	0.005	mg/l	BH	0.005	200.8	06/09/2008 05:07:00 PM
Potassium as K (Dissolved)	1	mg/l	BH	1	200.7	06/16/2008 03:00:00 PM
Sodium as Na (Dissolved)	34	mg/l	BH	1	200.7	06/16/2008 03:00:00 PM
Zinc as Zn (Dissolved)	<0.01	mg/l	BH	0.01	200.7	06/18/2008 09:05:00 PM
Cations	2.37	meq/l	---	0.30	1030F	
Anions	2.71	meq/l	---	0.38	1030F	
Cation/Anion Balance	0.34*	[max 0.20]	---	-----	AWWA/APHA	

Northern Analytical Laboratories, Inc.

***Concentrations of major cations and anions were verified with second analyses.**

Client: TETRA TECH, INC.
Project Name: NEW WORLD
Project No.: 206
Laboratory No.: 2008050248-11
Sample Name: DUPLICATE OF 2008050248-1
Sample Date/Time: 05/29/2008 15:15:00
Collected by: VICKI R. & SHANE M.
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3	0	RPD [0-20]	RM	2	2310 B	06/11/2008 10:07:05 AM
Alkalinity Bicarbonate as HCO3	192	mg/l	ES	1	2320B	06/05/2008 11:25:00 AM
Alkalinity Carbonate as CO3	17	mg/l	ES	0	2320B	06/05/2008 11:25:00 AM
Alkalinity Total as CaCO3	186	mg/l	ES	1	2320B	06/05/2008 11:25:00 AM
Chloride as Cl	2	mg/l	ES	2	300.0	06/11/2008 01:03:00 AM
Sulfate as SO4	83	mg/l	ES	10	300.0	06/11/2008 01:03:00 AM
Hardness as CaCO3	72	mg/l	BH	7	2340B	07/08/2008 03:39:16 PM
Electrical Conductivity	562	umhos/cm	CC	10	2510B	06/11/2008 03:48:00 PM
pH	9.1	S.U.	CC	1.00	4500-H+-B	05/30/2008 06:37:00 PM
Total Dissolved Solids	4	RPD [0-20]	CC	20	2540C	06/03/2008 04:30:00 PM
Aluminum as Al (Dissolved)	<0.05	mg/l	DK	0.05	200.8	06/11/2008 04:55:00 PM
Cadmium as Cd (Dissolved)	<0.0001	mg/l	BH	0.0001	200.8	06/09/2008 03:39:00 PM
Calcium as Ca (Dissolved)	19	mg/l	BH	1	200.7	06/16/2008 01:41:00 PM
Copper as Cu (Dissolved)	<0.001	mg/l	DK	0.001	200.8	06/11/2008 04:55:00 PM
Iron as Fe (Dissolved)	<0.01	mg/l	BH	0.01	200.7	06/18/2008 08:29:00 PM
Lead as Pb (Dissolved)	<0.001	mg/l	BH	0.001	200.8	06/09/2008 03:39:00 PM
Magnesium as Mg (Dissolved)	6	mg/l	BH	1	200.7	06/16/2008 01:41:00 PM
Manganese as Mn (Dissolved)	0.021	mg/l	DK	0.005	200.8	06/11/2008 04:55:00 PM
Potassium as K (Dissolved)	1	mg/l	BH	1	200.7	06/16/2008 01:41:00 PM
Sodium as Na (Dissolved)	96	mg/l	KC	1	200.7	06/19/2008 04:23:00 PM
Zinc as Zn (Dissolved)	<0.01	mg/l	BH	0.01	200.7	06/18/2008 08:29:00 PM
Cations	5.64	meq/l	---	0.30	1030F	
Anions	5.50	meq/l	---	0.38	1030F	
Cation/Anion Balance	1.26	% [max 5%]	---	-----	AWWA/APHA	

Client: TETRA TECH, INC.
Project Name: NEW WORLD
Project No.: 206
Laboratory No.: 2008050248-12
Sample Name: MATRIX SPIKE OF 2008050248-7
Sample Date/Time: 05/29/2008 14:15:0
Collected by: VICKI R. & SHANE M.
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3	66(4)	%[70-132]	RM	2	2310 B	06/11/2008 10:07:05 AM
Alkalinity Bicarbonate as HCO3	NA	-----	-----	-----	-----	-----
Alkalinity Carbonate as CO3	NA	-----	-----	-----	-----	-----
Alkalinity Total as CaCO3	102	% [77-116]	ES	1	2320B	06/05/2008 11:25:00 AM
Chloride as Cl	100	% [84-124]	ES	1	300.0	06/11/2008 11:43:00 AM
Sulfate as SO4	94	% [84-124]	ES	5	300.0	06/11/2008 11:43:00 AM
Hardness as CaCO3	NA	-----	-----	-----	-----	-----
Electrical Conductivity	NA	-----	-----	-----	-----	-----
pH	NA	-----	-----	-----	-----	-----
Total Dissolved Solids	NA	-----	-----	-----	-----	-----
Total Suspended Solids	NA	-----	-----	-----	-----	-----
Aluminum as Al (Dissolved)	87	% [70-130]	BH	0.05	200.8	06/09/2008 04:49:00 PM
Aluminum as Al (Total Recoverable)	93	% [70-130]	BH	0.05	200.7	06/12/2008 06:28:00 PM
Cadmium as Cd (Dissolved)	102	% [81-116]	BH	0.0001	200.8	06/09/2008 04:49:00 PM
Cadmium as Cd (Total Recoverable)	98	% [83-116]	BH	0.0001	200.8	06/06/2008 02:45:00 PM
Calcium as Ca (Dissolved)	102	% [78-122]	KC	1	200.7	06/19/2008 09:49:00 PM
Calcium as Ca (Total Recoverable)	84	% [71-132]	KC	1	200.7	06/19/2008 11:33:00 AM
Copper as Cu (Dissolved)	84	% [70-114]	BH	0.001	200.8	06/09/2008 04:49:00 PM
Copper as Cu (Total Recoverable)	76	% [70-117]	DK	0.001	200.8	06/04/2008 09:54:00 AM
Iron as Fe (Dissolved)	99	% [87-111]	BH	0.01	200.7	06/18/2008 08:56:00 PM
Iron as Fe (Total Recoverable)	102	% [82-124]	KC	0.01	200.7	06/19/2008 01:34:00 PM
Lead as Pb (Dissolved)	103	% [82-117]	BH	0.001	200.8	06/09/2008 04:49:00 PM
Lead as Pb (Total Recoverable)	108	% [81-121]	DK	0.001	200.8	06/04/2008 09:54:00 AM
Magnesium as Mg (Dissolved)	104	% [84-118]	KC	1	200.7	06/19/2008 05:34:00 PM
Manganese as Mn (Dissolved)	94	% [81-114]	BH	0.005	200.7	06/23/2008 01:45:00 PM
Manganese as Mn (Total Recoverable)	104	% [78-121]	KC	0.005	200.7	06/19/2008 01:34:00 PM
Potassium as K (Dissolved)	101	% [85-120]	KC	1	200.7	06/19/2008 05:34:00 PM
Potassium as K (Total Recoverable)	84	% [71-132]	KC	1	200.7	06/19/2008 11:55:00 AM
Sodium as Na (Dissolved)	96	% [73-124]	KC	1	200.7	06/19/2008 05:34:00 PM
Sodium as Na (Total Recoverable)	95	% [70-130]	KC	1	200.7	06/19/2008 11:52:00 AM
Zinc as Zn (Dissolved)	100	% [89-113]	BH	0.01	200.7	06/18/2008 08:56:00 PM
Zinc as Zn (Total Recoverable)	109	% [84-121]	BH	0.01	200.7	06/12/2008 06:28:00 PM
Metals Batch#/Digestion Date	1556	-----	SH		200.2	

Client: TETRA TECH, INC.
Project Name: NEW WORLD
Project No.: 206
Laboratory No.: 2008050248-13
Sample Name: METHOD BLANK
Sample Date/Time: ----- -----
Collected by: PREPARED BY LAB
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3	<2	mg/l	RM	2	2310 B	06/11/2008 10:07:05 AM
Alkalinity Bicarbonate as HCO3	0	mg/l	ES	1	2320B	06/05/2008 11:25:00 AM
Alkalinity Carbonate as CO3	0	mg/l	ES	0	2320B	06/05/2008 11:25:00 AM
Alkalinity Total as CaCO3	0	mg/l	ES	1	2320B	06/05/2008 11:25:00 AM
Chloride as Cl	<1	mg/l	ES	1	300.0	06/11/2008 12:02:00 AM
Sulfate as SO4	<5	mg/l	ES	5	300.0	06/11/2008 12:02:00 AM
Hardness as CaCO3	<7	mg/l	BH	7	2340B	07/08/2008 03:39:16 PM
Electrical Conductivity	<10	umhos/cm	CC	10	2510B	06/11/2008 03:48:00 PM
pH	NA	----	-----	-----	-----	-----
Total Dissolved Solids	<20	mg/l	RM	20	2540C	06/04/2008 01:50:00 PM
Total Suspended Solids	<1	mg/l	RM	1	2540D	06/04/2008 01:52:00 PM
Aluminum as Al (Dissolved)	<0.05	mg/l	DK	0.05	200.8	06/11/2008 04:47:00 PM
Aluminum as Al (Total Recoverable)	<0.05	mg/l	BH	0.05	200.7	06/12/2008 06:06:00 PM
Cadmium as Cd (Dissolved)	<0.0001	mg/l	BH	0.0001	200.8	06/09/2008 03:15:00 PM
Cadmium as Cd (Total Recoverable)	<0.0001	mg/l	DK	0.0001	200.8	06/04/2008 09:31:00 AM
Calcium as Ca (Dissolved)	<1	mg/l	BH	1	200.7	06/16/2008 12:04:00 PM
Calcium as Ca (Total Recoverable)	<1	mg/l	KC	1	200.7	06/19/2008 11:30:00 AM
Copper as Cu (Dissolved)	<0.001	mg/l	DK	0.001	200.8	06/11/2008 04:47:00 PM
Copper as Cu (Total Recoverable)	<0.001	mg/l	DK	0.001	200.8	06/04/2008 09:31:00 AM
Iron as Fe (Dissolved)	<0.01	mg/l	BH	0.01	200.7	06/18/2008 08:20:00 PM
Iron as Fe (Total Recoverable)	0.01 B	mg/l	KC	0.01	200.7	06/19/2008 01:22:00 PM
Lead as Pb (Dissolved)	<0.001	mg/l	BH	0.001	200.8	06/09/2008 03:15:00 PM
Lead as Pb (Total Recoverable)	<0.001	mg/l	DK	0.001	200.8	06/04/2008 09:31:00 AM
Magnesium as Mg (Dissolved)	<1	mg/l	BH	1	200.7	06/16/2008 12:04:00 PM
Manganese as Mn (Dissolved)	<0.003	mg/l	DK	0.005	200.8	06/11/2008 04:47:00 PM
Manganese as Mn (Total Recoverable)	<0.003	mg/l	KC	0.005	200.7	06/19/2008 12:07:00 PM
Potassium as K (Dissolved)	<1	mg/l	BH	1	200.7	06/16/2008 12:04:00 PM
Potassium as K (Total Recoverable)	<1	mg/l	KC	1	200.7	06/19/2008 11:30:00 AM
Sodium as Na (Dissolved)	<1	mg/l	BH	1	200.7	06/16/2008 12:04:00 PM
Sodium as Na (Total Recoverable)	<1	mg/l	KC	1	200.7	06/19/2008 11:30:00 AM
Zinc as Zn (Dissolved)	<0.01	mg/l	BH	0.01	200.7	06/18/2008 08:20:00 PM
Zinc as Zn (Total Recoverable)	<0.01	mg/l	BH	0.01	200.7	06/12/2008 06:06:00 PM
Metals Batch#/Digestion Date	1556	----	SH		200.2	

Client: TETRA TECH, INC.
Project Name: NEW WORLD
Project No.: 206
Laboratory No.: 2008050248-14
Sample Name: LABORATORY CONTROL SAMPLE
Sample Date/Time: ----- -----
Collected by: PREPARED BY LAB
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3	104	% [91-116]	RM	2	2310 B	06/11/2008 10:07:05 AM
Alkalinity Bicarbonate as HCO3	NA	-----	-----	-----	-----	-----
Alkalinity Carbonate as CO3	NA	-----	-----	-----	-----	-----
Alkalinity Total as CaCO3	95	% [89-110]	ES	1	2320B	06/05/2008 11:25:00 AM
Chloride as Cl	101	% [90-110]	ES	1	300.0	06/10/2008 11:31:00 PM
Sulfate as SO4	94	% [90-110]	ES	5	300.0	06/10/2008 11:21:00 PM
Hardness as CaCO3	NA	-----	-----	-----	-----	-----
Electrical Conductivity	101	% [92-120]	CC	10	2510B	06/11/2008 03:48:00 PM
pH	99	% [99-101]	CC	1.00	4500-H+-B	05/30/2008 06:37:00 PM
Total Dissolved Solids	96	% [90-106]	RM	20	2540C	06/04/2008 01:50:00 PM
Total Suspended Solids	105	% [71-129]	RM	10	2540D	06/04/2008 01:52:00 PM
Aluminum as Al (Dissolved)	94	% [85-115]	DK	0.05	200.8	06/11/2008 04:49:00 PM
Aluminum as Al (Total Recoverable)	111	% [85-115]	BH	0.05	200.7	06/12/2008 06:09:00 PM
Cadmium as Cd (Dissolved)	96	% [86-113]	BH	0.0001	200.8	06/09/2008 03:20:00 PM
Cadmium as Cd (Total Recoverable)	97	% [85-115]	DK	0.0001	200.8	06/04/2008 09:34:00 AM
Calcium as Ca (Dissolved)	99	% [91-114]	BH	1	200.7	06/16/2008 12:07:00 PM
Calcium as Ca (Total Recoverable)	101	% [91-115]	KC	1	200.7	06/19/2008 11:33:00 AM
Copper as Cu (Dissolved)	96	% [85-114]	DK	0.001	200.8	06/11/2008 04:49:00 PM
Copper as Cu (Total Recoverable)	97	% [85-115]	DK	0.001	200.8	06/04/2008 09:34:00 AM
Iron as Fe (Dissolved)	98	% [90-112]	BH	0.01	200.7	06/18/2008 08:23:00 PM
Iron as Fe (Total Recoverable)	109	% [91-115]	KC	0.01	200.7	06/19/2008 12:10:00 PM
Lead as Pb (Dissolved)	96	% [87-114]	BH	0.001	200.8	06/09/2008 03:20:00 PM
Lead as Pb (Total Recoverable)	101	% [85-115]	DK	0.001	200.8	06/04/2008 09:34:00 AM
Magnesium as Mg (Dissolved)	96	% [89-112]	BH	1	200.7	06/16/2008 12:07:00 PM
Manganese as Mn (Dissolved)	100	% [86-113]	DK	0.005	200.8	06/11/2008 04:49:00 PM
Manganese as Mn (Total Recoverable)	109	% [94-115]	KC	0.005	200.7	06/19/2008 12:10:00 PM
Potassium as K (Dissolved)	99	% [86-114]	BH	1	200.7	06/16/2008 12:07:00 PM
Potassium as K (Total Recoverable)	96	% [87-115]	KC	1	200.7	06/19/2008 11:33:00 AM
Sodium as Na (Dissolved)	96	% [87-112]	BH	1	200.7	06/16/2008 12:07:00 PM
Sodium as Na (Total Recoverable)	98	% [87-115]	KC	1	200.7	06/19/2008 11:33:00 AM
Zinc as Zn (Dissolved)	99	% [89-113]	BH	0.01	200.7	06/18/2008 08:23:00 PM
Zinc as Zn (Total Recoverable)	109	% [89-115]	BH	0.01	200.7	06/12/2008 06:09:00 PM
Metals Batch#/Digestion Date	1556	-----	SH		200.2	

New World
Project or Site Name

#206
Project Number

Vicki Regula & Shane Matolyak
Sampler Name (Printed)

Mark Pearson
Project Manager, Report to

CHAIN OF CUSTODY RECORD

NORTHERN
Analytical Laboratories, Inc.

602 South 25th Street
Billings, Montana 59101
Ph: 406-254-7226 • Fax: 406-254-1389
nlabs@wtp.net

Tetra Tech
Report to (Firm or Agency)

851 Bridger Drive Suite 6
Address

Bozeman MT 59715
City State Zip

406-582-8780
Phone Fax

DATE COLLECTED	TIME COLLECTED	SAMPLE LOCATION OR DESCRIPTION	COMP OR GRAB	SAMPLE MATRIX	NO. OF CONTAINERS	ANALYSIS REQUIRED: Table 12	ANALYSIS REQUIRED: Table 5	NOTES	2008 LAB NUMBER 050248
5/28/08	15:15	RR-SBGW-107	G	H_2O	2	X			1
5/29/08	13:45	RR-SBGW-108			2	X			2
5/29/08	14:43	RR-SBGW-107T			2	X			3
5/29/08	14:44	RR-SBGW-108T			2	X			4
5/29/08	12:30	RR-SBGW-105			2	X			5
5/29/08	11:45	RR-SBGW-105T			2	X			6
5/29/08	14:15	RR-Sump			4		X		7
5/29/08	17:00	RR-SBT-6			4		X		8
5/29/08	16:30	RR-SBT-3			4		X		9
5/29/08	12:30	RR-SBGW-105X			2	X		add per Mark P. 5/30/08	10
								Dup1	11
								Spl 7	12

Relinquished by:	Date	Time	Received by:	
Shane Matolyak	5-29-08	19:00		Bus Charge - MB 13
Relinquished by:	Date	Time	Received by:	41.90 LCS 14
Bus	5/30/08	1330	Steve [illegible]	
Relinquished by:	Date	Time	Received by:	

NORTHERN
Analytical Laboratories, Inc.

SAMPLE RECEIPT CHECKLIST

Dear Valued Client: This checklist documents the condition of your sample(s) as it (they) arrived at our lab. Please review it and familiarize yourself with its contents. Should you have any questions or comments, please contact us. Thank you for your use of our services.

Client Name: TT- Bag

Date/Time Received: 5/30/08 1330 (Date / Time)

Project: New World

Received by: SS

Laboratory Number(s): 050248

Carrier Name: Bus

Checklist Completed by: MW 5/30/08 (Initials / Date)

Sample Type: H2O

	YES	NO
1. Shipping container in good condition?	✓	
2. Custody seals present on shipping container? Condition: Intact X Broken ____	✓	
3. Chain of custody present?	✓	
4. Chain of custody signed when relinquished and received?	✓	
5. Chain of custody agrees with sample labels?	✓	
6. Custody seals on sample bottles? Condition: Intact ____ Broken ____		✓
7. Samples in proper container/bottle?*	✓	
8. Sample containers intact?*	✓	
9. Sufficient sample volume for indicated test?*	✓	
10. Ice/Frozen Blue Ice present in shipping container? (circle one)	✓	
container temperature 1. 1.0°C 2. _____ 3. _____ * (if <0 or>10)		
11. All samples rec'd within holding time?*	✓	
12. VOA vials have zero headspace? * (if contains >5mm headspace)	NA	
13. Trip Blank received?		✓

	YES	NO
14. pH check performed by: MW		
15. Metals bottle(s) pH <2?	✓	
16. Nutrient bottle(s) pH <2?	NA	
17. Cyanide bottle(s) pH >12?		
18. Sulfide bottle(s) pH >9?		
19. TOC bottle(s) pH <2?		
20. Phenolics bottle(s) pH <2?		
21. Oil & grease bottle(s) pH <2? (checked by analyst)		
22. EPH/DRO bottle(s) pH <2? (checked by analyst)		
23. Volatiles (VOA) pH <2? (checked by analyst)		
24. Semivolatiles (525) pH <2? (checked by analyst)		
25. Other test types		
26. Client contacted?	✓	
27. Person contacted	MARK P.	
28. Date contacted	5/30/08 e-mail	

NOTES: **Samples may be affected when not transported at the temperature recommended by the EPA for the test you've selected. Please contact the lab if you have concerns about the temperature of your samples.**

*** Critical item - if marked "NO" contact lab manager.**

COMMENTS: _____

TABLE 5
SURFACE WATER ANALYTICAL REQUIREMENTS
2008/2009 Work Plan

Parameter	PQL (mg/L)[1]	EPA Method No.	Max. Holding Time
Physicochemical			
Specific Conductivity	None	2310B	28 days
pH	None	150.1	Upon arrival at lab
Total Dissolved Solids	None	2340C	7 days
Total Suspended Solids	None	160.2	7 days
Hardness	None	2340B	6 months
Acidity	None	305.1	14 days
Metals[2]			
Aluminum	0.05	200.8/200.7	6 months
Cadmium	0.0001	200.8/200.7	6 months
Copper	0.001	200.8/200.7	6 months
Iron	0.01	200.8/200.7	6 months
Lead	0.001	200.8/200.7	6 months
Manganese	0.003	200.8/200.7	6 months
Zinc	0.01	200.8/200.7	6 months
Common Cations[2]			
Calcium	1.0	200.8/200.7	6 months
Magnesium	1.0	200.8/200.7	6 months
Potassium	1.0	200.8/200.7	6 months
Sodium	1.0	200.8/200.7	6 months
Common Anions[2]			
Sulfate	None	375.2	28 Days
Bicarbonate	None	2320B	14 Days
Carbonate	None	2320B	14 Days
Chloride	None	325.3	28 Days

1 PQL = Practical Quantitation Limit in milligrams per liter (mg/L)
2 Surface water parameters will be analyzed as total recoverable (unfiltered); for the select stations shown in Table 2, both total and dissolved metals will be analyzed.

3

filter Raw
500 Raw
250 Metals

5/14/08
HNO3

May 09 08 01:04p Tetratech 4065828790 p.2

TABLE 12
GROUNDWATER ANALYTICAL REQUIREMENTS
2008/2009 Work Plan

Parameter	PQL (mg/l)[1]	EPA Method No.	Max. Holding Time
Physicochemical			
Specific Conductivity	None	2310B	28 days
pH	None	150.1	Upon arrival at lab
Total Dissolved Solids	None	2340C	7 days
Hardness	None	2340B	6 months
Acidity	None	305.1	14 days
Metals[2]			
Aluminum	0.05	200.8/200.7	6 months
Cadmium	0.0001	200.8/200.7	6 months
Copper	0.001	200.8/200.7	6 months
Iron	0.01	200.8/200.7	6 months
Lead	0.001	200.8/200.7	6 months
Manganese	0.003	200.8/200.7	6 months
Zinc	0.01	200.8/200.7	6 months
Common Cations[2]			
Calcium	1.0	200.8/200.7	6 months
Magnesium	1.0	200.8/200.7	6 months
Potassium	1.0	200.8/200.7	6 months
Sodium	1.0	200.8/200.7	6 months
Common Anions[2]			
Sulfate	None	375.2	28 Days
Bicarbonate	None	2320B	14 Days
Carbonate	None	2320B	14 Days
Chloride	None	325.3	28 Days

1 PQL = Practical Quantitation Limit in milligrams per liter (mg/L)
2 Groundwater parameters will be analyzed as dissolved constituents as filtered through a 0.45 micron filter

7

500 RAW
250 metal

2.5 GLENGARRY CHANNEL RECONSTRUCTION

JW 5/14/8
HNO3

With the closure of the Glengarry Adit and the removal of the Glengarry waste dump in 2005, Fisher Creek was routed into its historic channel, leaving a relict channel that Fisher Creek was diverted into by the historic mining operation. This now abandoned channel, referred to as the Glengarry channel, continues to carry surface water run-off, is susceptible to erosion, and has steep, near-vertical streambanks. To prevent potential headcutting and erosion, several rock check dams will be

May 09 08 01:04p Tetratech 4065828790 p.3

NORTHERN
Analytical Laboratories, Inc.

602 South 25th Street
P O Box 30315
Billings, MT 59107
Telephone: (406) 254-7226
Fax: (406) 254-1389

REPORT TO:	ATTN: MARK F. PEARSON TETRA TECH, INC. 851 BRIDGER DR., SUITE 6 BOZEMAN, MT 59715	**DATE:** **JOB NUMBER:** **PAGE:** **INVOICE NO.:**	August 13, 2008 87-911-12 1 of 28 8070132

REPORT OF: Water Analysis – New World Response & Restoration – Project No. 1157561506A.207

CASE NARRATIVE:

On July 17, 2008, these water samples (laboratory numbers 2008070132-1 through -21) were received in our laboratory for analysis. Tests were conducted in accordance with *"Standard Methods for the Examination of Water and Wastewater"*, 20th Edition; EPA/600/R-93-100 *"Methods for the Determination of Inorganic Substances in Environmental Samples"*, EPA/600/R-94-111 *"Methods for the Determination of Metals in Environmental Samples"*, Supplement I; and Code of Federal Regulations, Title 40, Part 136.

The results of the analysis are shown on the following pages. A < sign indicates the value reported was the practical quantitation limit for this sample using the method described. Concentrations of analyte, if present, below this were not quantifiable. Sample results are not corrected for analyte blank concentrations. Values in brackets are the quality control limits for the associated quality control test. RPD is the abbreviation for relative percent difference.

The condition of the samples upon receipt at the laboratory is noted on the attached sample receipt checklist. Chain of custody documentation is enclosed.

Reviewed by _____
Kathleen A. Smit – Laboratory Manager

Attachments: Chain of Custody (2)
Sample Receipt Checklist
Table 5

nct

As a mutual protection to clients, the public and ourselves, all reports are submitted as the confidential property of our clients and authorization for publication of statements, conclusions or extracts from or regarding our reports is reserved pending our written approval. Test results apply specifically to the samples tested only. The entire report shall not be reproduced, except in full, without the written approval of the laboratory. Samples will be disposed of after testing is completed unless other arrangements are agreed to in writing.

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 1157561506A.207
Laboratory No.: 2008070132-1
Sample Name: RR-SW-6
Sample Date/Time: 07/14/2008 13:00:00
Collected by: MARK PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD SURFACE WATER 2008/2009						
Acidity as CaCO3	<2	mg/l	RM	2	2310 B	07/25/2008 08:46:07 AM
Alkalinity Bicarbonate as HCO3	14	mg/l	ES	1	2320B	07/23/2008 06:10:00 PM
Alkalinity Carbonate as CO3	0	mg/l	ES	0	2320B	07/23/2008 06:10:00 PM
Alkalinity Total as CaCO3	12	mg/l	ES	1	2320B	07/23/2008 06:10:00 PM
Chloride as Cl	<1	mg/l	MRK	1	300.0	07/18/2008 01:54:00 AM
Sulfate as SO4	14	mg/l	MRK	5	300.0	07/18/2008 01:54:00 AM
Hardness as CaCO3	28	mg/l	BH	7	2340B	07/21/2008 03:45:00 PM
Electrical Conductivity	59	umhos/cm	RM	10	2510B	07/25/2008 03:37:00 PM
pH	7.3	S.U.	ES	1.00	4500-H+-B	07/17/2008 03:07:00 PM
Total Dissolved Solids	65	mg/l	RM	20	2540C	07/18/2008 11:07:00 AM
Total Suspended Solids	2	mg/l	RM	2	2540D	07/18/2008 11:29:00 AM
Aluminum as Al (Dissolved)	0.05	mg/l	KC	0.05	200.7	07/21/2008 03:45:00 PM
Aluminum as Al (Total Recoverable)	<0.05	mg/l	BH	0.05	200.7	07/29/2008 12:53:00 PM
Cadmium as Cd (Dissolved)	<0.0001	mg/l	BH	0.0001	200.8	07/21/2008 05:57:00 PM
Cadmium as Cd (Total Recoverable)	<0.0001	mg/l	DK	0.0001	200.8	07/30/2008 06:24:00 PM
Calcium as Ca (Dissolved)	8	mg/l	KC	1	200.7	07/21/2008 03:45:00 PM
Calcium as Ca (Total Recoverable)	8	mg/l	BH	1	200.7	07/29/2008 12:53:00 PM
Copper as Cu (Dissolved)	0.011	mg/l	DK	0.001	200.8	07/28/2008 05:25:00 PM
Copper as Cu (Total Recoverable)	0.016	mg/l	DK	0.001	200.8	07/30/2008 06:24:00 PM
Iron as Fe (Dissolved)	0.02	mg/l	KC	0.01	200.7	07/21/2008 03:45:00 PM
Iron as Fe (Total Recoverable)	0.09	mg/l	BH	0.01	200.7	07/29/2008 12:53:00 PM
Lead as Pb (Dissolved)	<0.001	mg/l	BH	0.001	200.8	07/21/2008 05:57:00 PM
Lead as Pb (Total Recoverable)	<0.001	mg/l	DK	0.001	200.8	07/30/2008 06:24:00 PM
Magnesium as Mg (Dissolved)	2	mg/l	KC	1	200.7	07/21/2008 03:45:00 PM
Magnesium as Mg (Total Recoverable)	2	mg/l	BH	1	200.7	07/29/2008 12:53:00 PM
Manganese as Mn (Dissolved)	0.006	mg/l	BH	0.003	200.7	07/28/2008 11:13:00 AM
Manganese as Mn (Total Recoverable)	0.008	mg/l	BH	0.003	200.7	07/29/2008 12:53:00 PM
Potassium as K (Dissolved)	<1	mg/l	BH	1	200.7	07/28/2008 11:13:00 AM
Potassium as K (Total Recoverable)	<1	mg/l	BH	1	200.7	07/29/2008 12:53:00 PM
Sodium as Na (Dissolved)	<1	mg/l	BH	1	200.7	07/28/2008 11:13:00 AM
Sodium as Na (Total Recoverable)	<1	mg/l	BH	1	200.7	07/29/2008 12:53:00 PM
Zinc as Zn (Dissolved)	<0.01	mg/l	BH	0.01	200.7	07/28/2008 11:13:00 AM
Zinc as Zn (Total Recoverable)	<0.01	mg/l	BH	0.01	200.7	07/29/2008 12:53:00 PM
Cations	0.56	meq/l	---	0.30	1030F	
Anions	0.53	meq/l	---	0.20	1030F	
Cation/Anion Balance	0.03	[max 0.20]	---	-----	AWWA/APHA	
Metals Batch#/Digestion Date	1714	----	DK	----	200.2	07/24/2008 11:10:00 AM

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 1157561506A.207
Laboratory No.: 2008070132-2
Sample Name: RR-CFY-2
Sample Date/Time: 07/14/2008 15:00:00
Collected by: MARK PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD SURFACE WATER 2008/2009						
Acidity as CaCO3	<2	mg/l	RM	2	2310 B	07/25/2008 08:49:45 AM
Alkalinity Bicarbonate as HCO3	11	mg/l	ES	1	2320B	07/23/2008 06:10:00 PM
Alkalinity Carbonate as CO3	0	mg/l	ES	0	2320B	07/23/2008 06:10:00 PM
Alkalinity Total as CaCO3	9	mg/l	ES	1	2320B	07/23/2008 06:10:00 PM
Chloride as Cl	<1	mg/l	MRK	1	300.0	07/18/2008 03:56:00 AM
Sulfate as SO4	23	mg/l	MRK	5	300.0	07/18/2008 03:56:00 AM
Hardness as CaCO3	36	mg/l	BH	7	2340B	07/21/2008 03:51:00 PM
Electrical Conductivity	84	umhos/cm	RM	10	2510B	07/25/2008 03:37:00 PM
pH	7.3	S.U.	ES	1.00	4500-H+-B	07/17/2008 03:07:00 PM
Total Dissolved Solids	71	mg/l	RM	20	2540C	07/18/2008 11:07:00 AM
Total Suspended Solids	3	mg/l	RM	1	2540D	07/18/2008 11:29:00 AM
Aluminum as Al (Dissolved)	0.09	mg/l	KC	0.05	200.7	07/21/2008 03:51:00 PM
Aluminum as Al (Total Recoverable)	0.06	mg/l	BH	0.05	200.7	07/29/2008 12:59:00 PM
Cadmium as Cd (Dissolved)	<0.0001	mg/l	BH	0.0001	200.8	07/21/2008 06:09:00 PM
Cadmium as Cd (Total Recoverable)	<0.0001	mg/l	DK	0.0001	200.8	07/30/2008 06:36:00 PM
Calcium as Ca (Dissolved)	11	mg/l	KC	1	200.7	07/21/2008 03:51:00 PM
Calcium as Ca (Total Recoverable)	11	mg/l	BH	1	200.7	07/29/2008 12:59:00 PM
Copper as Cu (Dissolved)	0.019	mg/l	DK	0.001	200.8	07/28/2008 05:31:00 PM
Copper as Cu (Total Recoverable)	0.033	mg/l	DK	0.001	200.8	07/30/2008 06:36:00 PM
Iron as Fe (Dissolved)	0.03	mg/l	KC	0.01	200.7	07/21/2008 03:51:00 PM
Iron as Fe (Total Recoverable)	0.14	mg/l	BH	0.01	200.7	07/29/2008 12:59:00 PM
Lead as Pb (Dissolved)	<0.001	mg/l	BH	0.001	200.8	07/21/2008 06:09:00 PM
Lead as Pb (Total Recoverable)	<0.001	mg/l	DK	0.001	200.8	07/30/2008 06:36:00 PM
Magnesium as Mg (Dissolved)	2	mg/l	KC	1	200.7	07/21/2008 03:51:00 PM
Magnesium as Mg (Total Recoverable)	2	mg/l	BH	1	200.7	07/29/2008 12:59:00 PM
Manganese as Mn (Dissolved)	0.014	mg/l	BH	0.003	200.7	07/28/2008 11:19:00 AM
Manganese as Mn (Total Recoverable)	0.016	mg/l	BH	0.003	200.7	07/29/2008 12:59:00 PM
Potassium as K (Dissolved)	<1	mg/l	BH	1	200.7	07/28/2008 11:19:00 AM
Potassium as K (Total Recoverable)	<1	mg/l	BH	1	200.7	07/29/2008 12:59:00 PM
Sodium as Na (Dissolved)	<1	mg/l	BH	1	200.7	07/28/2008 11:19:00 AM
Sodium as Na (Total Recoverable)	<1	mg/l	BH	1	200.7	07/29/2008 12:59:00 PM
Zinc as Zn (Dissolved)	<0.01	mg/l	BH	0.01	200.7	07/28/2008 11:19:00 AM
Zinc as Zn (Total Recoverable)	<0.01	mg/l	BH	0.01	200.7	07/29/2008 12:59:00 PM
Cations	0.71	meq/l	---	0.30	1030F	
Anions	0.66	meq/l	---	0.20	1030F	
Cation/Anion Balance	0.05	[max 0.20]	---	----	AWWA/APHA	
Metals Batch#/Digestion Date	1714	-----	DK	-----	200.2	07/24/2008 11:10:00 AM

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 1157561506A.207
Laboratory No.: 2008070132-3
Sample Name: RR-SW-4
Sample Date/Time: 07/14/2008 16:15:00
Collected by: MARK PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD SURFACE WATER 2008/2009						
Acidity as CaCO3	<2	mg/l	RM	2	2310 B	07/25/2008 10:35:26 AM
Alkalinity Bicarbonate as HCO3	11	mg/l	ES	1	2320B	07/23/2008 06:10:00 PM
Alkalinity Carbonate as CO3	0	mg/l	ES	0	2320B	07/23/2008 06:10:00 PM
Alkalinity Total as CaCO3	9	mg/l	ES	1	2320B	07/23/2008 06:10:00 PM
Chloride as Cl	<1	mg/l	MRK	1	300.0	07/18/2008 04:26:00 AM
Sulfate as SO4	25	mg/l	MRK	5	300.0	07/18/2008 04:26:00 AM
Hardness as CaCO3	33	mg/l	BH	7	2340B	07/21/2008 03:55:00 PM
Electrical Conductivity	81	umhos/cm	RM	10	2510B	07/25/2008 03:37:00 PM
pH	7.3	S.U.	ES	1.00	4500-H+-B	07/17/2008 03:07:00 PM
Total Dissolved Solids	66	mg/l	RM	20	2540C	07/18/2008 11:07:00 AM
Total Suspended Solids	2	mg/l	RM	2	2540D	07/18/2008 11:29:00 AM
Aluminum as Al (Dissolved)	<0.05	mg/l	KC	0.05	200.7	07/21/2008 03:55:00 PM
Aluminum as Al (Total Recoverable)	0.13	mg/l	BH	0.05	200.7	07/29/2008 01:02:00 PM
Cadmium as Cd (Dissolved)	<0.0001	mg/l	BH	0.0001	200.8	07/21/2008 06:15:00 PM
Cadmium as Cd (Total Recoverable)	<0.0001	mg/l	DK	0.0001	200.8	07/30/2008 06:43:00 PM
Calcium as Ca (Dissolved)	10	mg/l	KC	1	200.7	07/21/2008 03:55:00 PM
Calcium as Ca (Total Recoverable)	11	mg/l	BH	1	200.7	07/29/2008 01:02:00 PM
Copper as Cu (Dissolved)	0.026	mg/l	DK	0.001	200.8	07/28/2008 05:34:00 PM
Copper as Cu (Total Recoverable)	0.049	mg/l	DK	0.001	200.8	07/30/2008 06:43:00 PM
Iron as Fe (Dissolved)	0.03	mg/l	KC	0.01	200.7	07/21/2008 03:55:00 PM
Iron as Fe (Total Recoverable)	0.18	mg/l	BH	0.01	200.7	07/29/2008 01:02:00 PM
Lead as Pb (Dissolved)	<0.001	mg/l	BH	0.001	200.8	07/21/2008 06:15:00 PM
Lead as Pb (Total Recoverable)	<0.001	mg/l	DK	0.001	200.8	07/30/2008 06:43:00 PM
Magnesium as Mg (Dissolved)	2	mg/l	KC	1	200.7	07/21/2008 03:55:00 PM
Magnesium as Mg (Total Recoverable)	2	mg/l	BH	1	200.7	07/29/2008 01:02:00 PM
Manganese as Mn (Dissolved)	0.021	mg/l	BH	0.003	200.7	07/28/2008 11:31:00 AM
Manganese as Mn (Total Recoverable)	0.022	mg/l	BH	0.003	200.7	07/29/2008 01:02:00 PM
Potassium as K (Dissolved)	<1	mg/l	BH	1	200.7	07/28/2008 11:31:00 AM
Potassium as K (Total Recoverable)	<1	mg/l	BH	1	200.7	07/29/2008 01:02:00 PM
Sodium as Na (Dissolved)	<1	mg/l	BH	1	200.7	07/28/2008 11:31:00 AM
Sodium as Na (Total Recoverable)	<1	mg/l	BH	1	200.7	07/29/2008 01:02:00 PM
Zinc as Zn (Dissolved)	<0.01	mg/l	BH	0.01	200.7	07/28/2008 11:31:00 AM
Zinc as Zn (Total Recoverable)	<0.01	mg/l	BH	0.01	200.7	07/29/2008 01:02:00 PM
Cations	0.66	meq/l	---	0.30	1030F	
Anions	0.70	meq/l	---	0.20	1030F	
Cation/Anion Balance	0.04	[max 0.20]	---	----	AWWA/APHA	
Metals Batch#/Digestion Date	1714	----	DK	----	200.2	07/24/2008 11:10:00 AM

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 1157561506A.207
Laboratory No.: 2008070132-4
Sample Name: RR-SW-3
Sample Date/Time: 07/14/2008 17:15:00
Collected by: MARK PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD SURFACE WATER 2008/2009						
Acidity as CaCO3	5	mg/l	RM	2	2310 B	07/25/2008 11:08:28 AM
Alkalinity Bicarbonate as HCO3	<1	mg/l	ES	1	2320B	07/23/2008 06:10:00 PM
Alkalinity Carbonate as CO3	0	mg/l	ES	0	2320B	07/23/2008 06:10:00 PM
Alkalinity Total as CaCO3	<1	mg/l	ES	1	2320B	07/23/2008 06:10:00 PM
Chloride as Cl	<1	mg/l	MRK	1	300.0	07/18/2008 04:57:00 AM
Sulfate as SO4	30	mg/l	MRK	5	300.0	07/18/2008 04:57:00 AM
Hardness as CaCO3	24	mg/l	BH	7	2340B	07/29/2008 01:05:00 PM
Electrical Conductivity	81	umhos/cm	RM	10	2510B	07/25/2008 03:37:00 PM
pH	5.3	S.U.	ES	1.00	4500-H+-B	07/17/2008 03:07:00 PM
Total Dissolved Solids	82	mg/l	RM	20	2540C	07/18/2008 11:07:00 AM
Total Suspended Solids	5	mg/l	RM	3	2540D	07/18/2008 11:29:00 AM
Aluminum as Al (Total Recoverable)	0.74	mg/l	BH	0.05	200.7	07/29/2008 01:05:00 PM
Cadmium as Cd (Total Recoverable)	0.0001	mg/l	DK	0.0001	200.8	07/30/2008 06:49:00 PM
Calcium as Ca (Total Recoverable)	8	mg/l	BH	1	200.7	07/29/2008 01:05:00 PM
Copper as Cu (Total Recoverable)	0.21	mg/l	DK	0.001	200.8	07/30/2008 06:49:00 PM
Iron as Fe (Total Recoverable)	0.72	mg/l	BH	0.01	200.7	07/29/2008 01:05:00 PM
Lead as Pb (Total Recoverable)	0.001	mg/l	DK	0.001	200.8	07/30/2008 06:49:00 PM
Magnesium as Mg (Total Recoverable)	1	mg/l	BH	1	200.7	07/29/2008 01:05:00 PM
Manganese as Mn (Total Recoverable)	0.10	mg/l	BH	0.003	200.7	07/29/2008 01:05:00 PM
Potassium as K (Total Recoverable)	1	mg/l	BH	1	200.7	07/29/2008 01:05:00 PM
Sodium as Na (Total Recoverable)	1	mg/l	BH	1	200.7	07/29/2008 01:05:00 PM
Zinc as Zn (Total Recoverable)	0.02	mg/l	BH	0.01	200.7	07/29/2008 01:05:00 PM
Cations	0.65	meq/l	---	0.30	1030F	
Anions	0.63	meq/l	---	0.20	1030F	
Cation/Anion Balance	0.02	[max 0.20]	---	-----	AWWA/APHA	
Metals Batch#/Digestion Date	1714	-----	DK	-----	200.2	07/24/2008 11:10:00 AM

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 1157561506A.207
Laboratory No.: 2008070132-5
Sample Name: RR-SW-3X
Sample Date/Time: 07/14/2008 17:20:00
Collected by: MARK PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD SURFACE WATER 2008/2009						
Acidity as CaCO3	4	mg/l	RM	2	2310 B	07/25/2008 11:11:57 AM
Alkalinity Bicarbonate as HCO3	<1	mg/l	ES	1	2320B	07/23/2008 06:10:00 PM
Alkalinity Carbonate as CO3	0	mg/l	ES	0	2320B	07/23/2008 06:10:00 PM
Alkalinity Total as CaCO3	<1	mg/l	ES	1	2320B	07/23/2008 06:10:00 PM
Chloride as Cl	<1	mg/l	MRK	1	300.0	07/18/2008 06:59:00 AM
Sulfate as SO4	30	mg/l	MRK	5	300.0	07/18/2008 06:59:00 AM
Hardness as CaCO3	24	mg/l	BH	7	2340B	07/29/2008 01:18:00 PM
Electrical Conductivity	79	umhos/cm	RM	10	2510B	07/25/2008 03:37:00 PM
pH	5.2	S.U.	ES	1.00	4500-H+-B	07/17/2008 03:07:00 PM
Total Dissolved Solids	81	mg/l	RM	20	2540C	07/18/2008 11:07:00 AM
Total Suspended Solids	8	mg/l	RM	3	2540D	07/18/2008 11:29:00 AM
Aluminum as Al (Total Recoverable)	0.77	mg/l	BH	0.05	200.7	07/29/2008 01:18:00 PM
Cadmium as Cd (Total Recoverable)	0.0001	mg/l	DK	0.0001	200.8	07/30/2008 06:55:00 PM
Calcium as Ca (Total Recoverable)	8	mg/l	BH	1	200.7	07/29/2008 01:18:00 PM
Copper as Cu (Total Recoverable)	0.21	mg/l	DK	0.001	200.8	07/30/2008 06:55:00 PM
Iron as Fe (Total Recoverable)	0.75	mg/l	BH	0.01	200.7	07/29/2008 01:18:00 PM
Lead as Pb (Total Recoverable)	0.001	mg/l	DK	0.001	200.8	07/30/2008 06:55:00 PM
Magnesium as Mg (Total Recoverable)	1	mg/l	BH	1	200.7	07/29/2008 01:18:00 PM
Manganese as Mn (Total Recoverable)	0.11	mg/l	BH	0.003	200.7	07/29/2008 01:18:00 PM
Potassium as K (Total Recoverable)	1	mg/l	BH	1	200.7	07/29/2008 01:18:00 PM
Sodium as Na (Total Recoverable)	1	mg/l	BH	1	200.7	07/29/2008 01:18:00 PM
Zinc as Zn (Total Recoverable)	0.02	mg/l	BH	0.01	200.7	07/29/2008 01:18:00 PM
Cations	0.63	meq/l	---	0.30	1030F	
Anions	0.63	meq/l	---	0.20	1030F	
Cation/Anion Balance	0.00	[max 0.20]	---	-----	AWWA/APHA	
Metals Batch#/Digestion Date	1714	-----	DK	-----	200.2	07/24/2008 11:10:00 AM

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 1157561506A.207
Laboratory No.: 2008070132-6
Sample Name: RR-FCT-11
Sample Date/Time: 07/14/2008 18:30:00
Collected by: MARK PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD SURFACE WATER 2008/2009						
Acidity as CaCO3	9	mg/l	RM	2	2310 B	07/25/2008 11:17:34 AM
Alkalinity Bicarbonate as HCO3	<1	mg/l	ES	1	2320B	07/23/2008 06:10:00 PM
Alkalinity Carbonate as CO3	0	mg/l	ES	0	2320B	07/23/2008 06:10:00 PM
Alkalinity Total as CaCO3	<1	mg/l	ES	1	2320B	07/23/2008 06:10:00 PM
Chloride as Cl	2	mg/l	MRK	1	300.0	07/18/2008 07:29:00 AM
Sulfate as SO4	55	mg/l	MRK	5	300.0	07/18/2008 07:29:00 AM
Hardness as CaCO3	47	mg/l	BH	7	2340B	07/21/2008 03:58:00 PM
Electrical Conductivity	145	umhos/cm	RM	10	2510B	07/25/2008 03:37:00 PM
pH	4.8	S.U.	ES	1.00	4500-H+-B	07/17/2008 03:07:00 PM
Total Dissolved Solids	111	mg/l	RM	20	2540C	07/18/2008 11:07:00 AM
Total Suspended Solids	<5	mg/l	RM	5	2540D	07/18/2008 11:29:00 AM
Aluminum as Al (Dissolved)	0.82	mg/l	KC	0.05	200.7	07/21/2008 03:58:00 PM
Aluminum as Al (Total Recoverable)	1.44	mg/l	BH	0.05	200.7	07/29/2008 01:21:00 PM
Cadmium as Cd (Dissolved)	0.0001	mg/l	BH	0.0001	200.8	07/21/2008 06:21:00 PM
Cadmium as Cd (Total Recoverable)	<0.0001	mg/l	DK	0.0001	200.8	07/30/2008 07:01:00 PM
Calcium as Ca (Dissolved)	14	mg/l	KC	1	200.7	07/21/2008 03:58:00 PM
Calcium as Ca (Total Recoverable)	13	mg/l	BH	1	200.7	07/29/2008 01:21:00 PM
Copper as Cu (Dissolved)	0.42	mg/l	KC	0.001	200.7	07/21/2008 03:58:00 PM
Copper as Cu (Total Recoverable)	0.40	mg/l	DK	0.001	200.8	07/30/2008 07:01:00 PM
Iron as Fe (Dissolved)	1.58	mg/l	KC	0.01	200.7	07/21/2008 03:58:00 PM
Iron as Fe (Total Recoverable)	2.53	mg/l	BH	0.01	200.7	07/29/2008 01:21:00 PM
Lead as Pb (Dissolved)	<0.001	mg/l	BH	0.001	200.8	07/21/2008 06:21:00 PM
Lead as Pb (Total Recoverable)	<0.001	mg/l	DK	0.001	200.8	07/30/2008 07:01:00 PM
Magnesium as Mg (Dissolved)	3	mg/l	KC	1	200.7	07/21/2008 03:58:00 PM
Magnesium as Mg (Total Recoverable)	3	mg/l	BH	1	200.7	07/29/2008 01:21:00 PM
Manganese as Mn (Dissolved)	0.26	mg/l	BH	0.003	200.7	07/28/2008 11:34:00 AM
Manganese as Mn (Total Recoverable)	0.27	mg/l	BH	0.003	200.7	07/29/2008 01:21:00 PM
Potassium as K (Dissolved)	3	mg/l	BH	1	200.7	07/28/2008 11:34:00 AM
Potassium as K (Total Recoverable)	3	mg/l	BH	1	200.7	07/29/2008 01:21:00 PM
Sodium as Na (Dissolved)	1	mg/l	BH	1	200.7	07/28/2008 11:34:00 AM
Sodium as Na (Total Recoverable)	1	mg/l	BH	1	200.7	07/29/2008 01:21:00 PM
Zinc as Zn (Dissolved)	0.02	mg/l	BH	0.01	200.7	07/28/2008 11:34:00 AM
Zinc as Zn (Total Recoverable)	0.02	mg/l	BH	0.01	200.7	07/29/2008 01:21:00 PM
Cations	1.25	meq/l	---	0.30	1030F	
Anions	1.20	meq/l	---	0.20	1030F	
Cation/Anion Balance	0.05	[max 0.20]	---	-----	AWWA/APHA	
Metals Batch#/Digestion Date	1714	-----	DK	-----	200.2	07/24/2008 11:10:00 AM

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 1157561506A.207
Laboratory No.: 2008070132-7
Sample Name: RR-FCT-12
Sample Date/Time: 07/14/2008 19:15:00
Collected by: MARK PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD SURFACE WATER 2008/2009						
Acidity as CaCO3	9	mg/l	RM	2	2310 B	07/25/2008 11:24:16 AM
Alkalinity Bicarbonate as HCO3	<1	mg/l	ES	1	2320B	07/23/2008 06:10:00 PM
Alkalinity Carbonate as CO3	0	mg/l	ES	0	2320B	07/23/2008 06:10:00 PM
Alkalinity Total as CaCO3	<1	mg/l	ES	1	2320B	07/23/2008 06:10:00 PM
Chloride as Cl	<1	mg/l	MRK	1	300.0	07/19/2008 04:04:00 PM
Sulfate as SO4	15	mg/l	MRK	5	300.0	07/19/2008 04:04:00 PM
Hardness as CaCO3	<7	mg/l	BH	7	2340B	07/21/2008 04:17:00 PM
Electrical Conductivity	49	umhos/cm	RM	10	2510B	07/25/2008 03:37:00 PM
pH	4.4	S.U.	ES	1.00	4500-H+-B	07/17/2008 03:07:00 PM
Total Dissolved Solids	50	mg/l	RM	20	2540C	07/18/2008 11:07:00 AM
Total Suspended Solids	2	mg/l	RM	1	2540D	07/18/2008 11:29:00 AM
Aluminum as Al (Dissolved)	0.98	mg/l	KC	0.05	200.7	07/21/2008 04:17:00 PM
Aluminum as Al (Total Recoverable)	0.94	mg/l	BH	0.05	200.7	07/29/2008 01:30:00 PM
Cadmium as Cd (Dissolved)	0.0001	mg/l	BH	0.0001	200.8	07/21/2008 06:33:00 PM
Cadmium as Cd (Total Recoverable)	<0.0001	mg/l	DK	0.0001	200.8	07/30/2008 07:26:00 PM
Calcium as Ca (Dissolved)	2	mg/l	KC	1	200.7	07/21/2008 04:17:00 PM
Calcium as Ca (Total Recoverable)	2	mg/l	BH	1	200.7	07/29/2008 01:30:00 PM
Copper as Cu (Dissolved)	0.51	mg/l	KC	0.001	200.7	07/21/2008 04:17:00 PM
Copper as Cu (Total Recoverable)	0.44	mg/l	DK	0.001	200.8	07/30/2008 07:26:00 PM
Iron as Fe (Dissolved)	0.06	mg/l	KC	0.01	200.7	07/21/2008 04:17:00 PM
Iron as Fe (Total Recoverable)	0.07	mg/l	BH	0.01	200.7	07/29/2008 01:30:00 PM
Lead as Pb (Dissolved)	0.002	mg/l	BH	0.001	200.8	07/21/2008 06:33:00 PM
Lead as Pb (Total Recoverable)	0.002	mg/l	DK	0.001	200.8	07/30/2008 07:26:00 PM
Magnesium as Mg (Dissolved)	<1	mg/l	KC	1	200.7	07/21/2008 04:17:00 PM
Magnesium as Mg (Total Recoverable)	<1	mg/l	BH	1	200.7	07/29/2008 01:30:00 PM
Manganese as Mn (Dissolved)	0.034	mg/l	BH	0.003	200.7	07/28/2008 11:43:00 AM
Manganese as Mn (Total Recoverable)	0.031	mg/l	BH	0.003	200.7	07/29/2008 01:30:00 PM
Potassium as K (Dissolved)	<1	mg/l	BH	1	200.7	07/28/2008 11:43:00 AM
Potassium as K (Total Recoverable)	<1	mg/l	BH	1	200.7	07/29/2008 01:30:00 PM
Sodium as Na (Dissolved)	1	mg/l	BH	1	200.7	07/28/2008 11:43:00 AM
Sodium as Na (Total Recoverable)	1	mg/l	BH	1	200.7	07/29/2008 01:30:00 PM
Zinc as Zn (Dissolved)	0.01	mg/l	BH	0.01	200.7	07/28/2008 11:43:00 AM
Zinc as Zn (Total Recoverable)	0.01	mg/l	BH	0.01	200.7	07/29/2008 01:30:00 PM
Cations	0.32	meq/l	---	0.30	1030F	
Anions	0.31	meq/l	---	0.20	1030F	
Cation/Anion Balance	0.01	[max 0.20]	---	-----	AWWA/APHA	
Metals Batch#/Digestion Date	1714	-----	DK	-----	200.2	07/24/2008 11:10:00 AM

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 1157561506A.207
Laboratory No.: 2008070132-8
Sample Name: RR-SW-7
Sample Date/Time: 07/15/2008 11:30:00
Collected by: MARK PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD SURFACE WATER 2008/2009						
Acidity as CaCO3	<2	mg/l	RM	2	2310 B	07/25/2008 11:28:00 AM
Alkalinity Bicarbonate as HCO3	72	mg/l	ES	1	2320B	07/23/2008 06:10:00 PM
Alkalinity Carbonate as CO3	0	mg/l	ES	0	2320B	07/23/2008 06:10:00 PM
Alkalinity Total as CaCO3	59	mg/l	ES	1	2320B	07/23/2008 06:10:00 PM
Chloride as Cl	<1	mg/l	MRK	1	300.0	07/19/2008 04:35:00 PM
Sulfate as SO4	11	mg/l	MRK	5	300.0	07/19/2008 04:35:00 PM
Hardness as CaCO3	66	mg/l	BH	7	2340B	07/21/2008 04:20:00 PM
Electrical Conductivity	132	umhos/cm	RM	10	2510B	07/25/2008 03:37:00 PM
pH	7.8	S.U.	ES	1.00	4500-H+-B	07/17/2008 03:07:00 PM
Total Dissolved Solids	85	mg/l	RM	20	2540C	07/18/2008 11:07:00 AM
Total Suspended Solids	6	mg/l	RM	2	2540D	07/18/2008 11:29:00 AM
Aluminum as Al (Dissolved)	0.06	mg/l	KC	0.05	200.7	07/21/2008 04:20:00 PM
Aluminum as Al (Total Recoverable)	0.20	mg/l	BH	0.05	200.7	07/29/2008 01:33:00 PM
Cadmium as Cd (Dissolved)	<0.0001	mg/l	BH	0.0001	200.8	07/21/2008 06:39:00 PM
Cadmium as Cd (Total Recoverable)	<0.0001	mg/l	DK	0.0001	200.8	07/30/2008 07:32:00 PM
Calcium as Ca (Dissolved)	20	mg/l	KC	1	200.7	07/21/2008 04:20:00 PM
Calcium as Ca (Total Recoverable)	20	mg/l	BH	1	200.7	07/29/2008 01:33:00 PM
Copper as Cu (Dissolved)	0.009	mg/l	DK	0.001	200.8	07/28/2008 05:37:00 PM
Copper as Cu (Total Recoverable)	0.036	mg/l	DK	0.001	200.8	07/30/2008 07:32:00 PM
Iron as Fe (Dissolved)	<0.01	mg/l	KC	0.01	200.7	07/21/2008 04:20:00 PM
Iron as Fe (Total Recoverable)	0.30	mg/l	BH	0.01	200.7	07/29/2008 01:33:00 PM
Lead as Pb (Dissolved)	<0.001	mg/l	BH	0.001	200.8	07/21/2008 06:39:00 PM
Lead as Pb (Total Recoverable)	<0.001	mg/l	DK	0.001	200.8	07/30/2008 07:32:00 PM
Magnesium as Mg (Dissolved)	4	mg/l	KC	1	200.7	07/21/2008 04:20:00 PM
Magnesium as Mg (Total Recoverable)	4	mg/l	BH	1	200.7	07/29/2008 01:33:00 PM
Manganese as Mn (Dissolved)	0.018	mg/l	BH	0.003	200.7	07/28/2008 11:46:00 AM
Manganese as Mn (Total Recoverable)	0.026	mg/l	BH	0.003	200.7	07/29/2008 01:33:00 PM
Potassium as K (Dissolved)	<1	mg/l	BH	1	200.7	07/28/2008 11:46:00 AM
Potassium as K (Total Recoverable)	<1	mg/l	BH	1	200.7	07/29/2008 01:33:00 PM
Sodium as Na (Dissolved)	1	mg/l	BH	1	200.7	07/28/2008 11:46:00 AM
Sodium as Na (Total Recoverable)	1	mg/l	BH	1	200.7	07/29/2008 01:33:00 PM
Zinc as Zn (Dissolved)	<0.01	mg/l	BH	0.01	200.7	07/28/2008 11:46:00 AM
Zinc as Zn (Total Recoverable)	<0.01	mg/l	BH	0.01	200.7	07/29/2008 01:33:00 PM
Cations	1.37	meq/l	---	0.30	1030F	
Anions	1.41	meq/l	---	0.20	1030F	
Cation/Anion Balance	0.04	[max 0.20]	---	-----	AWWA/APHA	
Metals Batch#/Digestion Date	1714	----	DK	----	200.2	07/24/2008 11:10:00 AM

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 1157561506A.207
Laboratory No.: 2008070132-9
Sample Name: RR-DC-5
Sample Date/Time: 07/15/2008 12:45:00
Collected by: MARK PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD SURFACE WATER 2008/2009						
Acidity as CaCO3	<2	mg/l	RM	2	2310 B	07/25/2008 11:32:48 AM
Alkalinity Bicarbonate as HCO3	44	mg/l	ES	1	2320B	07/23/2008 06:10:00 PM
Alkalinity Carbonate as CO3	0	mg/l	ES	0	2320B	07/23/2008 06:10:00 PM
Alkalinity Total as CaCO3	36	mg/l	ES	1	2320B	07/23/2008 06:10:00 PM
Chloride as Cl	<1	mg/l	MRK	1	300.0	07/19/2008 05:05:00 PM
Sulfate as SO4	35	mg/l	MRK	5	300.0	07/19/2008 05:05:00 PM
Hardness as CaCO3	66	mg/l	BH	7	2340B	07/21/2008 04:23:00 PM
Electrical Conductivity	143	umhos/cm	RM	10	2510B	07/25/2008 03:37:00 PM
pH	7.8	S.U.	ES	1.00	4500-H+-B	07/17/2008 03:07:00 PM
Total Dissolved Solids	97	mg/l	RM	20	2540C	07/18/2008 11:07:00 AM
Total Suspended Solids	15	mg/l	RM	3	2540D	07/18/2008 11:29:00 AM
Aluminum as Al (Dissolved)	0.08	mg/l	KC	0.05	200.7	07/21/2008 04:23:00 PM
Aluminum as Al (Total Recoverable)	0.89	mg/l	BH	0.05	200.7	07/29/2008 01:36:00 PM
Cadmium as Cd (Dissolved)	0.0001	mg/l	BH	0.0001	200.8	07/21/2008 06:57:00 PM
Cadmium as Cd (Total Recoverable)	0.0002	mg/l	DK	0.0001	200.8	07/30/2008 07:38:00 PM
Calcium as Ca (Dissolved)	20	mg/l	KC	1	200.7	07/21/2008 04:23:00 PM
Calcium as Ca (Total Recoverable)	21	mg/l	BH	1	200.7	07/29/2008 01:36:00 PM
Copper as Cu (Dissolved)	0.016	mg/l	DK	0.001	200.8	07/28/2008 05:40:00 PM
Copper as Cu (Total Recoverable)	0.18	mg/l	DK	0.001	200.8	07/30/2008 07:38:00 PM
Iron as Fe (Dissolved)	0.02	mg/l	KC	0.01	200.7	07/21/2008 04:23:00 PM
Iron as Fe (Total Recoverable)	0.98	mg/l	BH	0.01	200.7	07/29/2008 01:36:00 PM
Lead as Pb (Dissolved)	<0.001	mg/l	BH	0.001	200.8	07/21/2008 06:57:00 PM
Lead as Pb (Total Recoverable)	0.002	mg/l	DK	0.001	200.8	07/30/2008 07:38:00 PM
Magnesium as Mg (Dissolved)	4	mg/l	KC	1	200.7	07/21/2008 04:23:00 PM
Magnesium as Mg (Total Recoverable)	4	mg/l	BH	1	200.7	07/29/2008 01:36:00 PM
Manganese as Mn (Dissolved)	0.098	mg/l	BH	0.003	200.7	07/28/2008 11:49:00 AM
Manganese as Mn (Total Recoverable)	0.11	mg/l	BH	0.003	200.7	07/29/2008 01:36:00 PM
Potassium as K (Dissolved)	<1	mg/l	BH	1	200.7	07/28/2008 11:49:00 AM
Potassium as K (Total Recoverable)	<1	mg/l	BH	1	200.7	07/29/2008 01:36:00 PM
Sodium as Na (Dissolved)	<1	mg/l	BH	1	200.7	07/28/2008 11:49:00 AM
Sodium as Na (Total Recoverable)	<1	mg/l	BH	1	200.7	07/29/2008 01:36:00 PM
Zinc as Zn (Dissolved)	<0.01	mg/l	BH	0.01	200.7	07/28/2008 11:49:00 AM
Zinc as Zn (Total Recoverable)	0.03	mg/l	BH	0.01	200.7	07/29/2008 01:36:00 PM
Cations	1.33	meq/l	---	0.30	1030F	
Anions	1.45	meq/l	---	0.20	1030F	
Cation/Anion Balance	0..12	[max 0.20]	---	-----	AWWA/APHA	
Metals Batch#/Digestion Date	1714	-----	DK	-----	200.2	07/24/2008 11:10:00 AM

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 1157561506A.207
Laboratory No.: 2008070132-10
Sample Name: RR-DC-2
Sample Date/Time: 07/15/2008 14:15:00
Collected by: MARK PEARSON
Sample Type: WATER

NEW WORLD SURFACE WATER 2008/2009

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3	<2	mg/l	RM	2	2310 B	07/25/2008 11:37:27 AM
Alkalinity Bicarbonate as HCO3	9	mg/l	ES	1	2320B	07/23/2008 06:10:00 PM
Alkalinity Carbonate as CO3	0	mg/l	ES	0	2320B	07/23/2008 06:10:00 PM
Alkalinity Total as CaCO3	7	mg/l	ES	1	2320B	07/23/2008 06:10:00 PM
Chloride as Cl	<1	mg/l	MRK	1	300.0	07/19/2008 05:36:00 PM
Sulfate as SO4	75	mg/l	MRK	5	300.0	07/19/2008 05:36:00 PM
Hardness as CaCO3	83	mg/l	BH	7	2340B	07/29/2008 01:39:00 PM
Electrical Conductivity	181	umhos/cm	RM	10	2510B	07/25/2008 03:37:00 PM
pH	6.8	S.U.	ES	1.00	4500-H+-B	07/17/2008 03:07:00 PM
Total Dissolved Solids	136	mg/l	RM	20	2540C	07/18/2008 11:07:00 AM
Total Suspended Solids	19	mg/l	RM	6	2540D	07/18/2008 11:29:00 AM
Aluminum as Al (Total Recoverable)	2.30	mg/l	BH	0.05	200.7	07/29/2008 01:39:00 PM
Cadmium as Cd (Total Recoverable)	0.0005	mg/l	DK	0.0001	200.8	07/30/2008 07:44:00 PM
Calcium as Ca (Total Recoverable)	25	mg/l	BH	1	200.7	07/29/2008 01:39:00 PM
Copper as Cu (Total Recoverable)	0.52	mg/l	BH	0.001	200.7	07/29/2008 01:39:00 PM
Iron as Fe (Total Recoverable)	2.32	mg/l	BH	0.01	200.7	07/29/2008 01:39:00 PM
Lead as Pb (Total Recoverable)	0.002	mg/l	DK	0.001	200.8	07/30/2008 07:44:00 PM
Magnesium as Mg (Total Recoverable)	5	mg/l	BH	1	200.7	07/29/2008 01:39:00 PM
Manganese as Mn (Total Recoverable)	0.29	mg/l	BH	0.003	200.7	07/29/2008 01:39:00 PM
Potassium as K (Total Recoverable)	1	mg/l	BH	1	200.7	07/29/2008 01:39:00 PM
Sodium as Na (Total Recoverable)	<1	mg/l	BH	1	200.7	07/29/2008 01:39:00 PM
Zinc as Zn (Total Recoverable)	0.08	mg/l	BH	0.01	200.7	07/29/2008 01:39:00 PM
Cations	1.69	meq/l	---	0.30	1030F	
Anions	1.70	meq/l	---	0.20	1030F	
Cation/Anion Balance	0.01	[max 0.20]	---	-----	AWWA/APHA	
Metals Batch#/Digestion Date	1714	-----	DK	-----	200.2	07/24/2008 11:10:00 AM

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 1157561506A.207
Laboratory No.: 2008070132-11
Sample Name: RR-USGS-1700
Sample Date/Time: 07/15/2008 15:15:00
Collected by: MARK PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD SURFACE WATER 2008/2009						
Acidity as CaCO3	5	mg/l	RM	2	2310 B	07/25/2008 11:43:14 AM
Alkalinity Bicarbonate as HCO3	2	mg/l	ES	1	2320B	07/23/2008 06:10:00 PM
Alkalinity Carbonate as CO3	0	mg/l	ES	0	2320B	07/23/2008 06:10:00 PM
Alkalinity Total as CaCO3	2	mg/l	ES	1	2320B	07/23/2008 06:10:00 PM
Chloride as Cl	<1	mg/l	MRK	1	300.0	07/19/2008 06:06:00 PM
Sulfate as SO4	89	mg/l	MRK	5	300.0	07/19/2008 06:06:00 PM
Hardness as CaCO3	89	mg/l	BH	7	2340B	07/29/2008 01:42:00 PM
Electrical Conductivity	198	umhos/cm	RM	10	2510B	07/25/2008 03:37:00 PM
pH	6.4	S.U.	ES	1.00	4500-H+-B	07/17/2008 03:07:00 PM
Total Dissolved Solids	154	mg/l	RM	20	2540C	07/18/2008 11:07:00 AM
Total Suspended Solids	9	mg/l	RM	4	2540D	07/18/2008 11:29:00 AM
Aluminum as Al (Dissolved)	0.10	mg/l	KC	0.05	200.7	07/21/2008 04:26:00 PM
Aluminum as Al (Total Recoverable)	0.87	mg/l	BH	0.05	200.7	07/29/2008 01:42:00 PM
Cadmium as Cd (Dissolved)	0.0003	mg/l	BH	0.0001	200.8	07/21/2008 07:03:00 PM
Cadmium as Cd (Total Recoverable)	0.0003	mg/l	DK	0.0001	200.8	07/30/2008 07:50:00 PM
Calcium as Ca (Dissolved)	29	mg/l	KC	1	200.7	07/21/2008 04:26:00 PM
Calcium as Ca (Total Recoverable)	31	mg/l	BH	1	200.7	07/29/2008 01:42:00 PM
Copper as Cu (Dissolved)	0.14	mg/l	KC	0.001	200.7	07/21/2008 04:26:00 PM
Copper as Cu (Total Recoverable)	0.20	mg/l	DK	0.001	200.8	07/30/2008 07:50:00 PM
Iron as Fe (Dissolved)	0.12	mg/l	KC	0.01	200.7	07/21/2008 04:26:00 PM
Iron as Fe (Total Recoverable)	1.42	mg/l	BH	0.01	200.7	07/29/2008 01:42:00 PM
Lead as Pb (Dissolved)	<0.001	mg/l	BH	0.001	200.8	07/21/2008 07:03:00 PM
Lead as Pb (Total Recoverable)	0.002	mg/l	DK	0.001	200.8	07/30/2008 07:50:00 PM
Magnesium as Mg (Dissolved)	4	mg/l	KC	1	200.7	07/21/2008 04:26:00 PM
Magnesium as Mg (Total Recoverable)	4	mg/l	BH	1	200.7	07/29/2008 01:42:00 PM
Manganese as Mn (Dissolved)	0.24	mg/l	BH	0.003	200.7	07/28/2008 11:52:00 AM
Manganese as Mn (Total Recoverable)	0.26	mg/l	BH	0.003	200.7	07/29/2008 01:42:00 PM
Potassium as K (Dissolved)	<1	mg/l	BH	1	200.7	07/28/2008 11:52:00 AM
Potassium as K (Total Recoverable)	1	mg/l	BH	1	200.7	07/29/2008 01:42:00 PM
Sodium as Na (Dissolved)	1	mg/l	BH	1	200.7	07/28/2008 11:52:00 AM
Sodium as Na (Total Recoverable)	1	mg/l	BH	1	200.7	07/29/2008 01:42:00 PM
Zinc as Zn (Dissolved)	0.03	mg/l	BH	0.01	200.7	07/28/2008 11:52:00 AM
Zinc as Zn (Total Recoverable)	0.03	mg/l	BH	0.01	200.7	07/29/2008 01:42:00 PM
Cations	1.92	meq/l	---	0.30	1030F	
Anions	1.89	meq/l	---	0.20	1030F	
Cation/Anion Balance	0.03	[max 0.20]	---	-----	AWWA/APHA	
Metals Batch#/Digestion Date	1714	----	DK	-----	200.2	07/24/2008 11:10:00 AM

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 1157561506A.207
Laboratory No.: 2008070132-12
Sample Name: RR-DCT-8
Sample Date/Time: 07/15/2008 16:00:00
Collected by: MARK PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD SURFACE WATER 2008/2009						
Acidity as CaCO3	84	mg/l	RM	2	2310 B	07/25/2008 11:48:05 AM
Alkalinity Bicarbonate as HCO3	<1	mg/l	ES	1	2320B	07/23/2008 06:10:00 PM
Alkalinity Carbonate as CO3	0	mg/l	ES	0	2320B	07/23/2008 06:10:00 PM
Alkalinity Total as CaCO3	<1	mg/l	ES	1	2320B	07/23/2008 06:10:00 PM
Chloride as Cl	<1	mg/l	MRK	1	300.0	07/19/2008 09:40:00 PM
Sulfate as SO4	174	mg/l	MRK	5	300.0	07/19/2008 09:40:00 PM
Hardness as CaCO3	84	mg/l	BH	7	2340B	07/21/2008 04:32:00 PM
Electrical Conductivity	465	umhos/cm	RM	10	2510B	07/25/2008 03:37:00 PM
pH	3.5	S.U.	ES	1.00	4500-H+-B	07/17/2008 03:07:00 PM
Total Dissolved Solids	310	mg/l	RM	20	2540C	07/18/2008 11:07:00 AM
Total Suspended Solids	15	mg/l	RM	3	2540D	07/18/2008 11:29:00 AM
Aluminum as Al (Dissolved)	7.40	mg/l	KC	0.05	200.7	07/21/2008 04:32:00 PM
Aluminum as Al (Total Recoverable)	8.37	mg/l	BH	0.05	200.7	07/29/2008 01:57:00 PM
Cadmium as Cd (Dissolved)	0.0016	mg/l	BH	0.0001	200.8	07/21/2008 07:14:00 PM
Cadmium as Cd (Total Recoverable)	0.0017	mg/l	DK	0.0001	200.8	07/30/2008 08:02:00 PM
Calcium as Ca (Dissolved)	27	mg/l	KC	1	200.7	07/21/2008 04:32:00 PM
Calcium as Ca (Total Recoverable)	28	mg/l	BH	1	200.7	07/29/2008 01:57:00 PM
Copper as Cu (Dissolved)	1.94	mg/l	KC	0.001	200.7	07/21/2008 04:32:00 PM
Copper as Cu (Total Recoverable)	1.98	mg/l	BH	0.001	200.8	07/29/2008 01:57:00 PM
Iron as Fe (Dissolved)	8.51	mg/l	KC	0.01	200.7	07/21/2008 04:32:00 PM
Iron as Fe (Total Recoverable)	10.1	mg/l	BH	0.01	200.7	07/29/2008 01:57:00 PM
Lead as Pb (Dissolved)	0.002	mg/l	BH	0.001	200.8	07/21/2008 07:14:00 PM
Lead as Pb (Total Recoverable)	0.002	mg/l	DK	0.001	200.8	07/30/2008 08:02:00 PM
Magnesium as Mg (Dissolved)	4	mg/l	KC	1	200.7	07/21/2008 04:32:00 PM
Magnesium as Mg (Total Recoverable)	4	mg/l	BH	1	200.7	07/29/2008 01:57:00 PM
Manganese as Mn (Dissolved)	0.60	mg/l	BH	0.003	200.7	07/28/2008 11:58:00 AM
Manganese as Mn (Total Recoverable)	0.62	mg/l	BH	0.003	200.7	07/29/2008 01:57:00 PM
Potassium as K (Dissolved)	3	mg/l	BH	1	200.7	07/28/2008 11:58:00 AM
Potassium as K (Total Recoverable)	3	mg/l	BH	1	200.7	07/29/2008 01:57:00 PM
Sodium as Na (Dissolved)	1	mg/l	BH	1	200.7	07/28/2008 11:58:00 AM
Sodium as Na (Total Recoverable)	1	mg/l	BH	1	200.7	07/29/2008 01:57:00 PM
Zinc as Zn (Dissolved)	0.26	mg/l	BH	0.01	200.7	07/28/2008 11:58:00 AM
Zinc as Zn (Total Recoverable)	0.27	mg/l	BH	0.01	200.7	07/29/2008 01:57:00 PM
Cations	3.48	meq/l	---	0.30	1030F	
Anions	3.62	meq/l	---	0.20	1030F	
Cation/Anion Balance	0.14	[max 0.20]	---	-----	AWWA/APHA	
Metals Batch#/Digestion Date	1714	-----	DK	-----	200.2	07/24/2008 11:10:00 AM

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 1157561506A.207
Laboratory No.: 2008070132-13
Sample Name: RR-DCSW-101
Sample Date/Time: 07/15/2008 17:00:00
Collected by: MARK PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD SURFACE WATER 2008/2009						
Acidity as CaCO3	406	mg/l	RM	2	2310 B	07/25/2008 01:02:22 PM
Alkalinity Bicarbonate as HCO3	<1	mg/l	ES	1	2320B	07/23/2008 06:10:00 PM
Alkalinity Carbonate as CO3	0	mg/l	ES	0	2320B	07/23/2008 06:10:00 PM
Alkalinity Total as CaCO3	<1	mg/l	ES	1	2320B	07/23/2008 06:10:00 PM
Chloride as Cl	1	mg/l	MRK	1	300.0	07/19/2008 10:10:00 PM
Sulfate as SO4	555	mg/l	MRK	5	300.0	07/22/2008 03:15:00 AM
Hardness as CaCO3	122	mg/l	BH	7	2340B	07/21/2008 04:35:00 PM
Electrical Conductivity	1170	umhos/cm	RM	10	2510B	07/25/2008 03:37:00 PM
pH	3.0	S.U.	ES	1.00	4500-H+-B	07/17/2008 03:07:00 PM
Total Dissolved Solids	1100	mg/l	RM	20	2540C	07/18/2008 11:07:00 AM
Total Suspended Solids	<1	mg/l	RM	1	2540D	07/18/2008 11:29:00 AM
Aluminum as Al (Dissolved)	20.0	mg/l	KC	0.05	200.7	07/21/2008 04:35:00 PM
Aluminum as Al (Total Recoverable)	25.5	mg/l	BH	0.05	200.7	07/29/2008 05:36:00 PM
Cadmium as Cd (Dissolved)	0.0068	mg/l	BH	0.0001	200.8	07/21/2008 07:20:00 PM
Cadmium as Cd (Total Recoverable)	0.0074	mg/l	DK	0.0001	200.8	07/30/2008 08:08:00 PM
Calcium as Ca (Dissolved)	34	mg/l	KC	1	200.7	07/21/2008 04:35:00 PM
Calcium as Ca (Total Recoverable)	35	mg/l	BH	1	200.7	07/29/2008 02:00:00 PM
Copper as Cu (Dissolved)	10.4	mg/l	BH	0.001	200.7	07/28/2008 12:14:00 PM
Copper as Cu (Total Recoverable)	10.5	mg/l	BH	0.001	200.8	07/29/2008 05:36:00 PM
Iron as Fe (Dissolved)	94.5	mg/l	BH	0.01	200.7	07/28/2008 12:14:00 PM
Iron as Fe (Total Recoverable)	93.7	mg/l	BH	0.01	200.7	07/29/2008 05:36:00 PM
Lead as Pb (Dissolved)	0.013	mg/l	BH	0.001	200.8	07/21/2008 07:20:00 PM
Lead as Pb (Total Recoverable)	0.016	mg/l	DK	0.001	200.8	07/30/2008 08:08:00 PM
Magnesium as Mg (Dissolved)	9	mg/l	KC	1	200.7	07/21/2008 04:35:00 PM
Magnesium as Mg (Total Recoverable)	10	mg/l	BH	1	200.7	07/29/2008 02:00:00 PM
Manganese as Mn (Dissolved)	2.19	mg/l	BH	0.003	200.7	07/28/2008 12:10:00 PM
Manganese as Mn (Total Recoverable)	2.28	mg/l	BH	0.003	200.7	07/29/2008 02:00:00 PM
Potassium as K (Dissolved)	2	mg/l	BH	1	200.7	07/28/2008 12:10:00 PM
Potassium as K (Total Recoverable)	2	mg/l	BH	1	200.7	07/29/2008 02:00:00 PM
Sodium as Na (Dissolved)	2	mg/l	BH	1	200.7	07/28/2008 12:10:00 PM
Sodium as Na (Total Recoverable)	2	mg/l	BH	1	200.7	07/29/2008 02:00:00 PM
Zinc as Zn (Dissolved)	1.27	mg/l	BH	0.01	200.7	07/28/2008 12:10:00 PM
Zinc as Zn (Total Recoverable)	1.32	mg/l	BH	0.01	200.7	07/29/2008 02:00:00 PM
Cations	10.70	meq/l	---	0.30	1030F	
Anions	11.58	meq/l	---	0.20	1030F	
Cation/Anion Balance	3.95	% [max 5%]	---	-----	AWWA/APHA	
Metals Batch#/Digestion Date	1714	-----	DK	-----	200.2	07/24/2008 11:10:00 AM

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 1157561506A.207
Laboratory No.: 2008070132-14
Sample Name: RR-DCSW-102
Sample Date/Time: 07/15/2008 17:15:00
Collected by: MARK PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD SURFACE WATER 2008/2009						
Acidity as CaCO3	609	mg/l	RM	2	2310 B	07/25/2008 01:09:38 PM
Alkalinity Bicarbonate as HCO3	<1	mg/l	ES	1	2320B	07/23/2008 06:10:00 PM
Alkalinity Carbonate as CO3	0	mg/l	ES	0	2320B	07/23/2008 06:10:00 PM
Alkalinity Total as CaCO3	<1	mg/l	ES	1	2320B	07/23/2008 06:10:00 PM
Chloride as Cl	2	mg/l	MRK	1	300.0	07/19/2008 10:41:00 PM
Sulfate as SO4	852	mg/l	MRK	5	300.0	07/22/2008 03:46:00 AM
Hardness as CaCO3	218	mg/l	BH	7	2340B	07/21/2008 04:38:00 PM
Electrical Conductivity	1540	umhos/cm	RM	10	2510B	07/25/2008 03:37:00 PM
pH	2.7	S.U.	ES	1.00	4500-H+-B	07/17/2008 03:07:00 PM
Total Dissolved Solids	1530	mg/l	RM	20	2540C	07/18/2008 11:07:00 AM
Total Suspended Solids	<1	mg/l	RM	1	2540D	07/18/2008 11:29:00 AM
Aluminum as Al (Dissolved)	30.5	mg/l	BH	0.05	200.7	07/28/2008 12:20:00 PM
Aluminum as Al (Total Recoverable)	34.4	mg/l	BH	0.05	200.7	07/29/2008 05:39:00 PM
Cadmium as Cd (Dissolved)	0.018	mg/l	BH	0.0001	200.8	07/21/2008 07:26:00 PM
Cadmium as Cd (Total Recoverable)	0.020	mg/l	DK	0.0001	200.8	07/30/2008 08:14:00 PM
Calcium as Ca (Dissolved)	56	mg/l	KC	1	200.7	07/21/2008 04:38:00 PM
Calcium as Ca (Total Recoverable)	60	mg/l	BH	1	200.7	07/29/2008 02:03:00 PM
Copper as Cu (Dissolved)	15.8	mg/l	BH	0.001	200.7	07/28/2008 12:20:00 PM
Copper as Cu (Total Recoverable)	15.2	mg/l	BH	0.001	200.8	07/29/2008 05:39:00 PM
Iron as Fe (Dissolved)	118	mg/l	BH	0.01	200.7	07/28/2008 12:20:00 PM
Iron as Fe (Total Recoverable)	115	mg/l	BH	0.01	200.7	07/29/2008 05:39:00 PM
Lead as Pb (Dissolved)	0.003	mg/l	BH	0.001	200.8	07/21/2008 07:26:00 PM
Lead as Pb (Total Recoverable)	0.003	mg/l	DK	0.001	200.8	07/30/2008 08:14:00 PM
Magnesium as Mg (Dissolved)	19	mg/l	KC	1	200.7	07/21/2008 04:38:00 PM
Magnesium as Mg (Total Recoverable)	21	mg/l	BH	1	200.7	07/29/2008 02:03:00 PM
Manganese as Mn (Dissolved)	4.96	mg/l	BH	0.003	200.7	07/28/2008 12:17:00 PM
Manganese as Mn (Total Recoverable)	5.22	mg/l	BH	0.003	200.7	07/29/2008 02:03:00 PM
Potassium as K (Dissolved)	1	mg/l	BH	1	200.7	07/28/2008 12:17:00 PM
Potassium as K (Total Recoverable)	1	mg/l	BH	1	200.7	07/29/2008 02:03:00 PM
Sodium as Na (Dissolved)	2	mg/l	BH	1	200.7	07/28/2008 12:17:00 PM
Sodium as Na (Total Recoverable)	2	mg/l	BH	1	200.7	07/29/2008 02:03:00 PM
Zinc as Zn (Dissolved)	3.06	mg/l	BH	0.01	200.7	07/28/2008 12:17:00 PM
Zinc as Zn (Total Recoverable)	3.32	mg/l	BH	0.01	200.7	07/29/2008 02:03:00 PM
Cations	16.65	meq/l	---	0.30	1030F	
Anions	17.80	meq/l	---	0.20	1030F	
Cation/Anion Balance	3.34	% [max 5%]	---	-----	AWWA/APHA	
Metals Batch#/Digestion Date	1714	-----	DK	-----	200.2	07/24/2008 11:10:00 AM

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 1157561506A.207
Laboratory No.: 2008070132-15
Sample Name: RR-DCSW-103
Sample Date/Time: 07/15/2008 17:30:00
Collected by: MARK PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD SURFACE WATER 2008/2009						
Acidity as CaCO3	1500	mg/l	RM	2	2310 B	07/25/2008 01:20:42 PM
Alkalinity Bicarbonate as HCO3	<1	mg/l	ES	1	2320B	07/23/2008 06:10:00 PM
Alkalinity Carbonate as CO3	0	mg/l	ES	0	2320B	07/23/2008 06:10:00 PM
Alkalinity Total as CaCO3	<1	mg/l	ES	1	2320B	07/23/2008 06:10:00 PM
Chloride as Cl	3	mg/l	MRK	1	300.0	07/19/2008 11:11:00 PM
Sulfate as SO4	2080	mg/l	MRK	5	300.0	07/22/2008 04:16:00 AM
Hardness as CaCO3	553	mg/l	BH	7	2340B	07/21/2008 04:50:00 PM
Electrical Conductivity	2660	umhos/cm	RM	10	2510B	07/25/2008 03:37:00 PM
pH	2.6	S.U.	ES	1.00	4500-H+-B	07/17/2008 03:07:00 PM
Total Dissolved Solids	4020	mg/l	RM	20	2540C	07/18/2008 11:07:00 AM
Total Suspended Solids	<1	mg/l	RM	1	2540D	07/18/2008 11:29:00 AM
Aluminum as Al (Dissolved)	79.7	mg/l	BH	0.05	200.7	07/28/2008 12:26:00 PM
Aluminum as Al (Total Recoverable)	89.9	mg/l	BH	0.05	200.7	07/29/2008 05:42:00 PM
Cadmium as Cd (Dissolved)	0.021	mg/l	BH	0.0001	200.8	07/21/2008 07:32:00 PM
Cadmium as Cd (Total Recoverable)	0.023	mg/l	DK	0.0001	200.8	07/30/2008 08:21:00 PM
Calcium as Ca (Dissolved)	106	mg/l	KC	1	200.7	07/21/2008 04:50:00 PM
Calcium as Ca (Total Recoverable)	108	mg/l	BH	1	200.7	07/29/2008 02:06:00 PM
Copper as Cu (Dissolved)	30.6	mg/l	BH	0.001	200.7	07/28/2008 12:26:00 PM
Copper as Cu (Total Recoverable)	29.3	mg/l	BH	0.001	200.8	07/29/2008 05:42:00 PM
Iron as Fe (Dissolved)	344	mg/l	BH	0.01	200.7	07/28/2008 12:26:00 PM
Iron as Fe (Total Recoverable)	347	mg/l	BH	0.01	200.7	07/29/2008 05:42:00 PM
Lead as Pb (Dissolved)	0.002	mg/l	BH	0.001	200.8	07/21/2008 07:32:00 PM
Lead as Pb (Total Recoverable)	0.002	mg/l	DK	0.001	200.8	07/30/2008 08:21:00 PM
Magnesium as Mg (Dissolved)	70	mg/l	KC	1	200.7	07/21/2008 04:50:00 PM
Magnesium as Mg (Total Recoverable)	72	mg/l	BH	1	200.7	07/29/2008 02:06:00 PM
Manganese as Mn (Dissolved)	10.1	mg/l	BH	0.003	200.7	07/28/2008 12:23:00 PM
Manganese as Mn (Total Recoverable)	9.95	mg/l	BH	0.003	200.7	07/29/2008 02:06:00 PM
Potassium as K (Dissolved)	<1	mg/l	BH	1	200.7	07/28/2008 12:23:00 PM
Potassium as K (Total Recoverable)	<1	mg/l	BH	1	200.7	07/29/2008 02:06:00 PM
Sodium as Na (Dissolved)	4	mg/l	BH	1	200.7	07/28/2008 12:23:00 PM
Sodium as Na (Total Recoverable)	4	mg/l	BH	1	200.7	07/29/2008 02:06:00 PM
Zinc as Zn (Dissolved)	3.29	mg/l	BH	0.01	200.7	07/28/2008 12:23:00 PM
Zinc as Zn (Total Recoverable)	3.92	mg/l	BH	0.01	200.7	07/29/2008 02:06:00 PM
Cations	41.23	meq/l	---	0.30	1030F	
Anions	43.39	meq/l	---	0.20	1030F	
Cation/Anion Balance	2.55	% [max 5%]	---	-----	AWWA/APHA	
Metals Batch#/Digestion Date	1714	-----	DK	-----	200.2	07/24/2008 11:10:00 AM

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 1157561506A.207
Laboratory No.: 2008070132-16
Sample Name: RR-SBC-4
Sample Date/Time: 07/16/2008 09:30:00
Collected by: MARK PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD SURFACE WATER 2008/2009						
Acidity as CaCO3	<2	mg/l	RM	2	2310 B	07/25/2008 01:24:21 PM
Alkalinity Bicarbonate as HCO3	56	mg/l	ES	1	2320B	07/23/2008 06:10:00 PM
Alkalinity Carbonate as CO3	0	mg/l	ES	0	2320B	07/23/2008 06:10:00 PM
Alkalinity Total as CaCO3	46	mg/l	ES	1	2320B	07/23/2008 06:10:00 PM
Chloride as Cl	<1	mg/l	MRK	1	300.0	07/19/2008 11:42:00 PM
Sulfate as SO4	5	mg/l	MRK	5	300.0	07/19/2008 11:42:00 PM
Hardness as CaCO3	45	mg/l	BH	7	2340B	07/29/2008 02:09:00 PM
Electrical Conductivity	98	umhos/cm	RM	10	2510B	07/25/2008 03:37:00 PM
pH	7.7	S.U.	ES	1.00	4500-H+-B	07/17/2008 03:07:00 PM
Total Dissolved Solids	68	mg/l	RM	20	2540C	07/18/2008 11:07:00 AM
Total Suspended Solids	10	mg/l	RM	1	2540D	07/18/2008 11:29:00 AM
Aluminum as Al (Total Recoverable)	0.36	mg/l	BH	0.05	200.7	07/29/2008 02:09:00 PM
Cadmium as Cd (Total Recoverable)	<0.0001	mg/l	DK	0.0001	200.8	07/30/2008 08:39:00 PM
Calcium as Ca (Total Recoverable)	13	mg/l	BH	1	200.7	07/29/2008 02:09:00 PM
Copper as Cu (Total Recoverable)	0.005	mg/l	DK	0.001	200.8	07/30/2008 08:39:00 PM
Iron as Fe (Total Recoverable)	0.57	mg/l	BH	0.01	200.7	07/29/2008 02:09:00 PM
Lead as Pb (Total Recoverable)	<0.001	mg/l	DK	0.001	200.8	07/30/2008 08:39:00 PM
Magnesium as Mg (Total Recoverable)	3	mg/l	BH	1	200.7	07/29/2008 02:09:00 PM
Manganese as Mn (Total Recoverable)	0.010	mg/l	BH	0.003	200.7	07/29/2008 02:09:00 PM
Potassium as K (Total Recoverable)	<1	mg/l	BH	1	200.7	07/29/2008 02:09:00 PM
Sodium as Na (Total Recoverable)	4	mg/l	BH	1	200.7	07/29/2008 02:09:00 PM
Zinc as Zn (Total Recoverable)	<0.01	mg/l	BH	0.01	200.7	07/29/2008 02:09:00 PM
Cations	1.07	meq/l	---	0.30	1030F	
Anions	1.02	meq/l	---	0.20	1030F	
Cation/Anion Balance	0.05	[max 0.20]	---	-----	AWWA/APHA	
Metals Batch#/Digestion Date	1714	-----	DK	-----	200.2	07/24/2008 11:10:00 AM

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 1157561506A.207
Laboratory No.: 2008070132-17
Sample Name: RR-SBSW-102
Sample Date/Time: 07/16/2008 11:15:00
Collected by: MARK PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD SURFACE WATER 2008/2009						
Acidity as CaCO3	<2	mg/l	RM	2	2310 B	07/25/2008 01:32:29 PM
Alkalinity Bicarbonate as HCO3	62	mg/l	ES	1	2320B	07/23/2008 06:10:00 PM
Alkalinity Carbonate as CO3	0	mg/l	ES	0	2320B	07/23/2008 06:10:00 PM
Alkalinity Total as CaCO3	51	mg/l	ES	1	2320B	07/23/2008 06:10:00 PM
Chloride as Cl	<1	mg/l	MRK	1	300.0	07/20/2008 12:12:00 AM
Sulfate as SO4	10	mg/l	MRK	5	300.0	07/20/2008 12:12:00 AM
Hardness as CaCO3	55	mg/l	BH	7	2340B	07/29/2008 02:12:00 PM
Electrical Conductivity	116	umhos/cm	RM	10	2510B	07/25/2008 03:37:00 PM
pH	7.9	S.U.	ES	1.00	4500-H+-B	07/17/2008 03:07:00 PM
Total Dissolved Solids	86	mg/l	RM	20	2540C	07/18/2008 11:07:00 AM
Total Suspended Solids	5	mg/l	RM	1	2540D	07/18/2008 11:29:00 AM
Aluminum as Al (Total Recoverable)	0.15	mg/l	BH	0.05	200.7	07/29/2008 02:12:00 PM
Cadmium as Cd (Total Recoverable)	<0.0001	mg/l	DK	0.0001	200.8	07/30/2008 08:46:00 PM
Calcium as Ca (Total Recoverable)	17	mg/l	BH	1	200.7	07/29/2008 02:12:00 PM
Copper as Cu (Total Recoverable)	0.005	mg/l	DK	0.001	200.8	07/30/2008 08:46:00 PM
Iron as Fe (Total Recoverable)	0.38	mg/l	BH	0.01	200.7	07/29/2008 02:12:00 PM
Lead as Pb (Total Recoverable)	<0.001	mg/l	DK	0.001	200.8	07/30/2008 08:46:00 PM
Magnesium as Mg (Total Recoverable)	3	mg/l	BH	1	200.7	07/29/2008 02:12:00 PM
Manganese as Mn (Total Recoverable)	0.006	mg/l	BH	0.003	200.7	07/29/2008 02:12:00 PM
Potassium as K (Total Recoverable)	<1	mg/l	BH	1	200.7	07/29/2008 02:12:00 PM
Sodium as Na (Total Recoverable)	3	mg/l	BH	1	200.7	07/29/2008 02:12:00 PM
Zinc as Zn (Total Recoverable)	<0.01	mg/l	BH	0.01	200.7	07/29/2008 02:12:00 PM
Cations	1.23	meq/l	---	0.30	1030F	
Anions	1.23	meq/l	---	0.20	1030F	
Cation/Anion Balance	0.00	[max 0.20]	---	-----	AWWA/APHA	
Metals Batch#/Digestion Date	1714	-----	DK	-----	200.2	07/24/2008 11:10:00 AM

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 1157561506A.207
Laboratory No.: 2008070132-18
Sample Name: RR-SBC-2
Sample Date/Time: 07/16/2008 11:40:00
Collected by: MARK PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD SURFACE WATER 2008/2009						
Acidity as CaCO3	<2	mg/l	RM	2	2310 B	07/25/2008 01:51:14 PM
Alkalinity Bicarbonate as HCO3	87	mg/l	ES	1	2320B	07/23/2008 06:10:00 PM
Alkalinity Carbonate as CO3	0	mg/l	ES	0	2320B	07/23/2008 06:10:00 PM
Alkalinity Total as CaCO3	72	mg/l	ES	1	2320B	07/23/2008 06:10:00 PM
Chloride as Cl	1	mg/l	MRK	1	300.0	07/20/2008 12:43:00 AM
Sulfate as SO4	17	mg/l	MRK	5	300.0	07/20/2008 12:43:00 AM
Hardness as CaCO3	93	mg/l	BH	7	2340B	07/29/2008 02:15:00 PM
Electrical Conductivity	168	umhos/cm	RM	10	2510B	07/25/2008 03:37:00 PM
pH	8.0	S.U.	ES	1.00	4500-H+-B	07/17/2008 03:07:00 PM
Total Dissolved Solids	125	mg/l	RM	20	2540C	07/18/2008 11:07:00 AM
Total Suspended Solids	3	mg/l	RM	1	2540D	07/18/2008 11:29:00 AM
Aluminum as Al (Total Recoverable)	<0.05	mg/l	BH	0.05	200.7	07/29/2008 02:15:00 PM
Cadmium as Cd (Total Recoverable)	<0.0001	mg/l	DK	0.0001	200.8	07/30/2008 08:52:00 PM
Calcium as Ca (Total Recoverable)	29	mg/l	BH	1	200.7	07/29/2008 02:15:00 PM
Copper as Cu (Total Recoverable)	0.009	mg/l	DK	0.001	200.8	07/30/2008 08:52:00 PM
Iron as Fe (Total Recoverable)	0.21	mg/l	BH	0.01	200.7	07/29/2008 02:15:00 PM
Lead as Pb (Total Recoverable)	<0.001	mg/l	DK	0.001	200.8	07/30/2008 08:52:00 PM
Magnesium as Mg (Total Recoverable)	5	mg/l	BH	1	200.7	07/29/2008 02:15:00 PM
Manganese as Mn (Total Recoverable)	0.010	mg/l	BH	0.003	200.7	07/29/2008 02:15:00 PM
Potassium as K (Total Recoverable)	<1	mg/l	BH	1	200.7	07/29/2008 02:15:00 PM
Sodium as Na (Total Recoverable)	1	mg/l	BH	1	200.7	07/29/2008 02:15:00 PM
Zinc as Zn (Total Recoverable)	<0.01	mg/l	BH	0.01	200.7	07/29/2008 02:15:00 PM
Cations	1.90	meq/l	---	0.30	1030F	
Anions	1.82	meq/l	---	0.20	1030F	
Cation/Anion Balance	0.08	[max 0.20]	---	-----	AWWA/APHA	
Metals Batch#/Digestion Date	1714	-----	DK	-----	200.2	07/24/2008 11:10:00 AM

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 1157561506A.207
Laboratory No.: 2008070132-19
Sample Name: RR-SBC-1
Sample Date/Time: 07/16/2008 12:30:00
Collected by: MARK PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD SURFACE WATER 2008/2009						
Acidity as CaCO3	<2	mg/l	RM	2	2310 B	07/25/2008 01:54:55 PM
Alkalinity Bicarbonate as HCO3	139	mg/l	ES	1	2320B	07/23/2008 06:10:00 PM
Alkalinity Carbonate as CO3	0	mg/l	ES	0	2320B	07/23/2008 06:10:00 PM
Alkalinity Total as CaCO3	114	mg/l	ES	1	2320B	07/23/2008 06:10:00 PM
Chloride as Cl	2	mg/l	MRK	1	300.0	07/20/2008 01:13:00 AM
Sulfate as SO4	8	mg/l	MRK	5	300.0	07/20/2008 01:13:00 AM
Hardness as CaCO3	126	mg/l	BH	7	2340B	07/29/2008 02:18:00 PM
Electrical Conductivity	234	umhos/cm	RM	10	2510B	07/25/2008 03:37:00 PM
pH	8.3	S.U.	ES	1.00	4500-H+-B	07/17/2008 03:07:00 PM
Total Dissolved Solids	143	mg/l	RM	20	2540C	07/18/2008 11:07:00 AM
Total Suspended Solids	2	mg/l	RM	1	2540D	07/18/2008 11:29:00 AM
Aluminum as Al (Total Recoverable)	<0.05	mg/l	BH	0.05	200.7	07/29/2008 02:18:00 PM
Cadmium as Cd (Total Recoverable)	<0.0001	mg/l	DK	0.0001	200.8	07/30/2008 08:58:00 PM
Calcium as Ca (Total Recoverable)	39	mg/l	BH	1	200.7	07/29/2008 02:18:00 PM
Copper as Cu (Total Recoverable)	<0.001	mg/l	DK	0.001	200.8	07/30/2008 08:58:00 PM
Iron as Fe (Total Recoverable)	0.03	mg/l	BH	0.01	200.7	07/29/2008 02:18:00 PM
Lead as Pb (Total Recoverable)	<0.001	mg/l	DK	0.001	200.8	07/30/2008 08:58:00 PM
Magnesium as Mg (Total Recoverable)	7	mg/l	BH	1	200.7	07/29/2008 02:18:00 PM
Manganese as Mn (Total Recoverable)	<0.003	mg/l	BH	0.003	200.7	07/29/2008 02:18:00 PM
Potassium as K (Total Recoverable)	<1	mg/l	BH	1	200.7	07/29/2008 02:18:00 PM
Sodium as Na (Total Recoverable)	1	mg/l	BH	1	200.7	07/29/2008 02:18:00 PM
Zinc as Zn (Total Recoverable)	<0.01	mg/l	BH	0.01	200.7	07/29/2008 02:18:00 PM
Cations	2.57	meq/l	---	0.30	1030F	
Anions	2.50	meq/l	---	0.20	1030F	
Cation/Anion Balance	0.07	[max 0.20]	---	-----	AWWA/APHA	
Metals Batch#/Digestion Date	1714	-----	DK	-----	200.2	07/24/2008 11:10:00 AM

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 1157561506A.207
Laboratory No.: 2008070132-20
Sample Name: RR-SW-5
Sample Date/Time: 07/16/2008 13:00:00
Collected by: MARK PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD SURFACE WATER 2008/2009						
Acidity as CaCO3	<2	mg/l	RM	2	2310 B	07/25/2008 01:57:41 PM
Alkalinity Bicarbonate as HCO3	57	mg/l	ES	1	2320B	07/23/2008 06:10:00 PM
Alkalinity Carbonate as CO3	0	mg/l	ES	0	2320B	07/23/2008 06:10:00 PM
Alkalinity Total as CaCO3	46	mg/l	ES	1	2320B	07/23/2008 06:10:00 PM
Chloride as Cl	<1	mg/l	MRK	1	300.0	07/20/2008 04:16:00 AM
Sulfate as SO4	15	mg/l	MRK	5	300.0	07/20/2008 01:44:00 AM
Hardness as CaCO3	62	mg/l	BH	7	2340B	07/21/2008 04:53:00 PM
Electrical Conductivity	123	umhos/cm	RM	10	2510B	07/25/2008 03:37:00 PM
pH	8.1	S.U.	ES	1.00	4500-H+-B	07/17/2008 03:07:00 PM
Total Dissolved Solids	77	mg/l	RM	20	2540C	07/18/2008 11:07:00 AM
Total Suspended Solids	2	mg/l	RM	1	2540D	07/18/2008 11:29:00 AM
Aluminum as Al (Dissolved)	0.05	mg/l	KC	0.05	200.7	07/21/2008 04:53:00 PM
Aluminum as Al (Total Recoverable)	<0.05	mg/l	BH	0.05	200.7	07/29/2008 02:21:00 PM
Cadmium as Cd (Dissolved)	<0.0001	mg/l	BH	0.0001	200.8	07/21/2008 07:38:00 PM
Cadmium as Cd (Total Recoverable)	<0.0001	mg/l	DK	0.0001	200.8	07/30/2008 09:04:00 PM
Calcium as Ca (Dissolved)	20	mg/l	KC	1	200.7	07/21/2008 04:53:00 PM
Calcium as Ca (Total Recoverable)	21	mg/l	BH	1	200.7	07/29/2008 02:21:00 PM
Copper as Cu (Dissolved)	0.008	mg/l	DK	0.001	200.8	07/28/2008 05:43:00 PM
Copper as Cu (Total Recoverable)	0.011	mg/l	DK	0.001	200.8	07/30/2008 09:04:00 PM
Iron as Fe (Dissolved)	0.03	mg/l	KC	0.01	200.7	07/21/2008 04:53:00 PM
Iron as Fe (Total Recoverable)	0.09	mg/l	BH	0.01	200.7	07/29/2008 02:21:00 PM
Lead as Pb (Dissolved)	<0.001	mg/l	BH	0.001	200.8	07/21/2008 07:38:00 PM
Lead as Pb (Total Recoverable)	<0.001	mg/l	DK	0.001	200.8	07/30/2008 09:04:00 PM
Magnesium as Mg (Dissolved)	3	mg/l	KC	1	200.7	07/21/2008 04:53:00 PM
Magnesium as Mg (Total Recoverable)	3	mg/l	BH	1	200.7	07/29/2008 02:21:00 PM
Manganese as Mn (Dissolved)	<0.003	mg/l	BH	0.003	200.7	07/28/2008 12:29:00 PM
Manganese as Mn (Total Recoverable)	<0.003	mg/l	BH	0.003	200.7	07/29/2008 02:21:00 PM
Potassium as K (Dissolved)	<1	mg/l	BH	1	200.7	07/28/2008 12:29:00 PM
Potassium as K (Total Recoverable)	<1	mg/l	BH	1	200.7	07/29/2008 02:21:00 PM
Sodium as Na (Dissolved)	<1	mg/l	BH	1	200.7	07/28/2008 12:29:00 PM
Sodium as Na (Total Recoverable)	<1	mg/l	BH	1	200.7	07/29/2008 02:21:00 PM
Zinc as Zn (Dissolved)	<0.01	mg/l	BH	0.01	200.7	07/28/2008 12:29:00 PM
Zinc as Zn (Total Recoverable)	<0.01	mg/l	BH	0.01	200.7	07/29/2008 02:21:00 PM
Cations	1.25	meq/l	---	0.30	1030F	
Anions	1.23	meq/l	---	0.20	1030F	
Cation/Anion Balance	0.02	[max 0.20]	---	-----	AWWA/APHA	
Metals Batch#/Digestion Date	1714	-----	DK	-----	200.2	07/24/2008 11:10:00 AM

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 1157561506A.207
Laboratory No.: 2008070132-21
Sample Name: RR-SW-2
Sample Date/Time: 07/16/2008 13:30:00
Collected by: MARK PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD SURFACE WATER 2008/2009						
Acidity as CaCO3	<2	mg/l	RM	2	2310 B	07/25/2008 02:00:42 PM
Alkalinity Bicarbonate as HCO3	54	mg/l	ES	1	2320B	07/23/2008 06:10:00 PM
Alkalinity Carbonate as CO3	0	mg/l	ES	0	2320B	07/23/2008 06:10:00 PM
Alkalinity Total as CaCO3	44	mg/l	ES	1	2320B	07/23/2008 06:10:00 PM
Chloride as Cl	<1	mg/l	MRK	1	300.0	07/20/2008 05:17:00 AM
Sulfate as SO4	14	mg/l	MRK	5	300.0	07/20/2008 05:17:00 AM
Hardness as CaCO3	60	mg/l	BH	7	2340B	07/21/2008 05:02:00 PM
Electrical Conductivity	117	umhos/cm	RM	10	2510B	07/25/2008 03:37:00 PM
pH	7.9	S.U.	ES	1.00	4500-H+-B	07/17/2008 03:07:00 PM
Total Dissolved Solids	64	mg/l	RM	20	2540C	07/18/2008 11:07:00 AM
Total Suspended Solids	2	mg/l	RM	1	2540D	07/18/2008 11:29:00 AM
Aluminum as Al (Dissolved)	0.05	mg/l	KC	0.05	200.7	07/21/2008 05:02:00 PM
Aluminum as Al (Total Recoverable)	<0.05	mg/l	BH	0.05	200.7	07/29/2008 02:42:00 PM
Cadmium as Cd (Dissolved)	<0.0001	mg/l	BH	0.0001	200.8	07/21/2008 07:51:00 PM
Cadmium as Cd (Total Recoverable)	<0.0001	mg/l	DK	0.0001	200.8	07/30/2008 09:16:00 PM
Calcium as Ca (Dissolved)	19	mg/l	KC	1	200.7	07/21/2008 05:02:00 PM
Calcium as Ca (Total Recoverable)	19	mg/l	BH	1	200.7	07/29/2008 02:42:00 PM
Copper as Cu (Dissolved)	0.011	mg/l	DK	0.001	200.8	07/28/2008 05:56:00 PM
Copper as Cu (Total Recoverable)	0.015	mg/l	DK	0.001	200.8	07/30/2008 09:16:00 PM
Iron as Fe (Dissolved)	0.01	mg/l	KC	0.01	200.7	07/21/2008 05:02:00 PM
Iron as Fe (Total Recoverable)	0.06	mg/l	BH	0.01	200.7	07/29/2008 02:42:00 PM
Lead as Pb (Dissolved)	<0.001	mg/l	BH	0.001	200.8	07/21/2008 07:51:00 PM
Lead as Pb (Total Recoverable)	<0.001	mg/l	DK	0.001	200.8	07/30/2008 09:16:00 PM
Magnesium as Mg (Dissolved)	3	mg/l	KC	1	200.7	07/21/2008 05:02:00 PM
Magnesium as Mg (Total Recoverable)	3	mg/l	BH	1	200.7	07/29/2008 02:42:00 PM
Manganese as Mn (Dissolved)	<0.003	mg/l	BH	0.003	200.7	07/28/2008 12:38:00 PM
Manganese as Mn (Total Recoverable)	<0.003	mg/l	BH	0.003	200.7	07/29/2008 02:42:00 PM
Potassium as K (Dissolved)	<1	mg/l	BH	1	200.7	07/28/2008 12:38:00 PM
Potassium as K (Total Recoverable)	<1	mg/l	BH	1	200.7	07/29/2008 02:42:00 PM
Sodium as Na (Dissolved)	<1	mg/l	BH	1	200.7	07/28/2008 12:38:00 PM
Sodium as Na (Total Recoverable)	<1	mg/l	BH	1	200.7	07/29/2008 02:42:00 PM
Zinc as Zn (Dissolved)	<0.01	mg/l	BH	0.01	200.7	07/28/2008 12:38:00 PM
Zinc as Zn (Total Recoverable)	<0.01	mg/l	BH	0.01	200.7	07/29/2008 02:42:00 PM
Cations	1.20	meq/l	---	0.30	1030F	
Anions	1.17	meq/l	---	0.20	1030F	
Cation/Anion Balance	0.03	[max 0.20]	---	-----	AWWA/APHA	
Metals Batch#/Digestion Date	1714	-----	DK	-----	200.2	07/24/2008 11:10:00 AM

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 1157561506A.207
Laboratory No.: 2008070132-22
Sample Name: DUPLICATE OF 2008070132-01
Sample Date/Time: 07/14/2008 13:00:00
Collected by: MARK PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD SURFACE WATER 2008/2009						
Acidity as CaCO3	<2	mg/l	RM	2	2310 B	07/25/2008 02:03:33 PM
Alkalinity Bicarbonate as HCO3	14	mg/l	ES	1	2320B	07/23/2008 06:10:00 PM
Alkalinity Carbonate as CO3	0	mg/l	ES	0	2320B	07/23/2008 06:10:00 PM
Alkalinity Total as CaCO3	12	mg/l	ES	1	2320B	07/23/2008 06:10:00 PM
Chloride as Cl	<1	mg/l	MRK	1	300.0	07/18/2008 02:24:00 AM
Sulfate as SO4	14	mg/l	MRK	5	300.0	07/18/2008 02:24:00 AM
Hardness as CaCO3	28	mg/l	BH	7	2340B	07/21/2008 03:48:00 PM
Electrical Conductivity	63	umhos/cm	RM	10	2510B	07/25/2008 03:37:00 PM
pH	7.3	S.U.	ES	1.00	4500-H+-B	07/17/2008 03:07:00 PM
Total Dissolved Solids	66	mg/l	RM	20	2540C	07/18/2008 11:07:00 AM
Total Suspended Solids	<3	mg/l	RM	3	2540D	07/18/2008 11:29:00 AM
Aluminum as Al (Dissolved)	0.05	mg/l	KC	0.05	200.7	07/21/2008 03:48:00 PM
Aluminum as Al (Total Recoverable)	<0.05	mg/l	BH	0.05	200.7	07/29/2008 12:56:00 PM
Cadmium as Cd (Dissolved)	<0.0001	mg/l	BH	0.0001	200.8	07/21/2008 06:03:00 PM
Cadmium as Cd (Total Recoverable)	<0.0001	mg/l	DK	0.0001	200.8	07/30/2008 06:30:00 PM
Calcium as Ca (Dissolved)	8	mg/l	KC	1	200.7	07/21/2008 03:48:00 PM
Calcium as Ca (Total Recoverable)	8	mg/l	BH	1	200.7	07/29/2008 12:56:00 PM
Copper as Cu (Dissolved)	0.010	mg/l	DK	0.001	200.8	07/28/2008 05:28:00 PM
Copper as Cu (Total Recoverable)	0.016	mg/l	DK	0.001	200.8	07/30/2008 06:30:00 PM
Iron as Fe (Dissolved)	0.02	mg/l	KC	0.01	200.7	07/21/2008 03:48:00 PM
Iron as Fe (Total Recoverable)	0.10	mg/l	BH	0.01	200.7	07/29/2008 12:56:00 PM
Lead as Pb (Dissolved)	<0.001	mg/l	BH	0.001	200.8	07/21/2008 06:03:00 PM
Lead as Pb (Total Recoverable)	<0.001	mg/l	DK	0.001	200.8	07/30/2008 06:30:00 PM
Magnesium as Mg (Dissolved)	2	mg/l	KC	1	200.7	07/21/2008 03:48:00 PM
Magnesium as Mg (Total Recoverable)	2	mg/l	BH	1	200.7	07/29/2008 12:56:00 PM
Manganese as Mn (Dissolved)	0.006	mg/l	BH	0.003	200.7	07/28/2008 11:16:00 AM
Manganese as Mn (Total Recoverable)	0.008	mg/l	BH	0.003	200.7	07/29/2008 12:56:00 PM
Potassium as K (Dissolved)	<1	mg/l	BH	1	200.7	07/28/2008 11:16:00 AM
Potassium as K (Total Recoverable)	<1	mg/l	BH	1	200.7	07/29/2008 12:56:00 PM
Sodium as Na (Dissolved)	<1	mg/l	BH	1	200.7	07/28/2008 11:16:00 AM
Sodium as Na (Total Recoverable)	<1	mg/l	BH	1	200.7	07/29/2008 12:56:00 PM
Zinc as Zn (Dissolved)	<0.01	mg/l	BH	0.01	200.7	07/28/2008 11:16:00 AM
Zinc as Zn (Total Recoverable)	<0.01	mg/l	BH	0.01	200.7	07/29/2008 12:56:00 PM
Cations	0.56	meq/l	---	0.30	1030F	
Anions	0.53	meq/l	---	0.20	1030F	
Cation/Anion Balance	0.03	[max 0.20]	---	-----	AWWA/APHA	
Metals Batch#/Digestion Date	1714	-----	DK	-----	200.2	07/24/2008 11:10:00 AM

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 1157561506A.207
Laboratory No.: 2008070132-23
Sample Name: MATRIX SPIKE OF 2008070132-06
Sample Date/Time: 07/14/2008 18:30:00
Collected by: MARK PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD SURFACE WATER 2008/2009						
Acidity as CaCO3	100	% [70-132]	RM	2	2310 B	07/25/2008 02:12:51 PM
Alkalinity Bicarbonate as HCO3	NA	-----	-----	-----	-----	-----
Alkalinity Carbonate as CO3	NA	-----	-----	-----	-----	-----
Alkalinity Total as CaCO3	95	% [77-116]	ES	1	2320B	07/23/2008 06:10:00 PM
Chloride as Cl	98	% [84-124]	MRK	1	300.0	07/18/2008 08:00:00 AM
Sulfate as SO4	105	% [84-124]	MRK	5	300.0	07/18/2008 08:00:00 AM
Hardness as CaCO3	NA	-----	-----	-----	-----	-----
Electrical Conductivity	NA	-----	-----	-----	-----	-----
pH	NA	-----	-----	-----	-----	-----
Total Dissolved Solids	NA	-----	-----	-----	-----	-----
Total Suspended Solids	NA	-----	-----	-----	-----	-----
Aluminum as Al (Dissolved)	92	% [81-117]	KC	0.05	200.7	07/21/2008 04:11:00 PM
Aluminum as Al (Total Recoverable)	111	% [82-128]	BH	0.05	200.7	07/29/2008 01:24:00 PM
Cadmium as Cd (Dissolved)	102	% [81-116]	BH	0.0001	200.8	07/21/2008 06:27:00 PM
Cadmium as Cd (Total Recoverable)	102	% [83-116]	DK	0.0001	200.8	07/30/2008 07:07:00 PM
Calcium as Ca (Dissolved)	99	% [78-122]	KC	1	200.7	07/21/2008 04:14:00 PM
Calcium as Ca (Total Recoverable)	104	% [71-130]	BH	1	200.7	07/29/2008 01:27:00 PM
Copper as Cu (Dissolved)	97	% [70-130]	KC	0.001	200.7	07/21/2008 04:11:00 PM
Copper as Cu (Total Recoverable)	91	% [70-117]	DK	0.001	200.8	07/30/2008 07:07:00 PM
Iron as Fe (Dissolved)	96	% [87-111]	KC	0.01	200.7	07/21/2008 04:11:00 PM
Iron as Fe (Total Recoverable)	112	% [82-124]	BH	0.01	200.7	07/29/2008 01:24:00 PM
Lead as Pb (Dissolved)	100	% [82-117]	BH	0.001	200.8	07/21/2008 06:27:00 PM
Lead as Pb (Total Recoverable)	105	% [81-121]	DK	0.001	200.8	07/30/2008 07:07:00 PM
Magnesium as Mg (Dissolved)	101	% [84-118]	KC	1	200.7	07/21/2008 04:14:00 PM
Magnesium as Mg (Total Recoverable)	100	% [77-126]	BH	1	200.7	07/29/2008 01:27:00 PM
Manganese as Mn (Dissolved)	99	% [81-114]	BH	0.003	200.7	07/28/2008 11:37:00 AM
Manganese as Mn (Total Recoverable)	110	% [78-121]	BH	0.003	200.7	07/29/2008 01:24:00 PM
Potassium as K (Dissolved)	95	% [85-120]	BH	1	200.7	07/28/2008 11:40:00 AM
Potassium as K (Total Recoverable)	98	% [86-125]	BH	1	200.7	07/29/2008 01:27:00 PM
Sodium as Na (Dissolved)	97	% [73-124]	BH	1	200.7	07/28/2008 11:40:00 AM
Sodium as Na (Total Recoverable)	99	% [70-130]	BH	1	200.7	07/29/2008 01:27:00 PM
Zinc as Zn (Dissolved)	100	% [89-113]	BH	0.01	200.7	07/28/2008 11:37:00 AM
Zinc as Zn (Total Recoverable)	110	% [84-121]	BH	0.01	200.7	07/29/2008 01:24:00 PM
Metals Batch#/Digestion Date	1714	-----	DK	-----	200.2	07/24/2008 11:10:00 AM

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 1157561506A.207
Laboratory No.: 2008070132-24
Sample Name: DUPLICATE OF 2008070132-11
Sample Date/Time: 07/15/2008 15:15:00
Collected by: MARK PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD SURFACE WATER 2008/2009						
Acidity as CaCO3	2*	RPD [0-20]	RM	2	2310 B	07/25/2008 02:18:45 PM
Alkalinity Bicarbonate as HCO3	2	mg/l	ES	1	2320B	07/23/2008 06:10:00 PM
Alkalinity Carbonate as CO3	0	mg/l	ES	0	2320B	07/23/2008 06:10:00 PM
Alkalinity Total as CaCO3	2	mg/l	ES	1	2320B	07/23/2008 06:10:00 PM
Chloride as Cl	<1	mg/l	MRK	1	300.0	07/19/2008 06:37:00 PM
Sulfate as SO4	89	mg/l	MRK	5	300.0	07/19/2008 06:37:00 PM
Hardness as CaCO3	89	mg/l	BH	7	2340B	07/21/2008 04:29:00 PM
Electrical Conductivity	208	umhos/cm	RM	10	2510B	07/25/2008 03:37:00 PM
pH	6.4	S.U.	ES	1.00	4500-H+-B	07/17/2008 03:07:00 PM
Total Dissolved Solids	169	mg/l	RM	20	2540C	07/18/2008 11:07:00 AM
Total Suspended Solids	11	mg/l	RM	4	2540D	07/18/2008 11:29:00 AM
Aluminum as Al (Dissolved)	0.12	mg/l	KC	0.05	200.7	07/21/2008 04:29:00 PM
Aluminum as Al (Total Recoverable)	0.86	mg/l	BH	0.05	200.7	07/29/2008 01:45:00 PM
Cadmium as Cd (Dissolved)	0.0003	mg/l	BH	0.0001	200.8	07/21/2008 07:09:00 PM
Cadmium as Cd (Total Recoverable)	0.0003	mg/l	DK	0.0001	200.8	07/30/2008 07:56:00 PM
Calcium as Ca (Dissolved)	29	mg/l	KC	1	200.7	07/21/2008 04:29:00 PM
Calcium as Ca (Total Recoverable)	29	mg/l	BH	1	200.7	07/29/2008 01:45:00 PM
Copper as Cu (Dissolved)	0.14	mg/l	KC	0.001	200.7	07/21/2008 04:29:00 PM
Copper as Cu (Total Recoverable)	0.20	mg/l	DK	0.001	200.8	07/30/2008 07:56:00 PM
Iron as Fe (Dissolved)	0.12	mg/l	KC	0.01	200.7	07/21/2008 04:29:00 PM
Iron as Fe (Total Recoverable)	1.48	mg/l	BH	0.01	200.7	07/29/2008 01:45:00 PM
Lead as Pb (Dissolved)	<0.001	mg/l	BH	0.001	200.8	07/21/2008 07:09:00 PM
Lead as Pb (Total Recoverable)	0.002	mg/l	DK	0.001	200.8	07/30/2008 07:56:00 PM
Magnesium as Mg (Dissolved)	4	mg/l	KC	1	200.7	07/21/2008 04:29:00 PM
Magnesium as Mg (Total Recoverable)	4	mg/l	BH	1	200.7	07/29/2008 01:45:00 PM
Manganese as Mn (Dissolved)	0.24	mg/l	BH	0.003	200.7	07/28/2008 11:55:00 AM
Manganese as Mn (Total Recoverable)	0.25	mg/l	BH	0.003	200.7	07/29/2008 01:45:00 PM
Potassium as K (Dissolved)	<1	mg/l	BH	1	200.7	07/28/2008 11:55:00 AM
Potassium as K (Total Recoverable)	1	mg/l	BH	1	200.7	07/29/2008 01:45:00 PM
Sodium as Na (Dissolved)	1	mg/l	BH	1	200.7	07/28/2008 11:55:00 AM
Sodium as Na (Total Recoverable)	1	mg/l	BH	1	200.7	07/29/2008 01:45:00 PM
Zinc as Zn (Dissolved)	0.03	mg/l	BH	0.01	200.7	07/28/2008 11:55:00 AM
Zinc as Zn (Total Recoverable)	0.03	mg/l	BH	0.01	200.7	07/29/2008 01:45:00 PM
Cations	1.86	meq/l	---	0.30	1030F	
Anions	1.89	meq/l	---	0.20	1030F	
Cation/Anion Balance	0.03	[max 0.20]	---	-----	AWWA/APHA	
Metals Batch#/Digestion Date	1714	-----	DK	-----	200.2	07/24/2008 11:10:00 AM

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 1157561506A.207
Laboratory No.: 2008070132-25
Sample Name: MATRIX SPIKE OF 2008070132-20
Sample Date/Time: 07/16/2008 13:00:00
Collected by: MARK PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD SURFACE WATER 2008/2009						
Acidity as CaCO3	105	% [70-132]	RM	2	2310 B	07/25/2008 02:22:00 PM
Alkalinity Bicarbonate as HCO3	NA	-----	-----	-----	-----	-----
Alkalinity Carbonate as CO3	NA	-----	-----	-----	-----	-----
Alkalinity Total as CaCO3	96	% [77-116]	ES	1	2320B	07/23/2008 06:10:00 PM
Chloride as Cl	98	% [84-124]	MRK	1	300.0	07/19/2008 02:14:00 AM
Sulfate as SO4	102	% [84-124]	MRK	5	300.0	07/19/2008 02:14:00 AM
Hardness as CaCO3	NA	-----	-----	-----	-----	-----
Electrical Conductivity	NA	-----	-----	-----	-----	-----
pH	NA	-----	-----	-----	-----	-----
Total Dissolved Solids	NA	-----	-----	-----	-----	-----
Total Suspended Solids	NA	-----	-----	-----	-----	-----
Aluminum as Al (Dissolved)	93	% [81-117]	KC	0.05	200.7	07/21/2008 04:56:00 PM
Aluminum as Al (Total Recoverable)	108	% [82-128]	BH	0.05	200.7	07/29/2008 02:24:00 PM
Cadmium as Cd (Dissolved)	101	% [81-116]	BH	0.0001	200.8	07/21/2008 07:44:00 PM
Cadmium as Cd (Total Recoverable)	101	% [83-116]	DK	0.0001	200.8	07/30/2008 09:10:00 PM
Calcium as Ca (Dissolved)	103	% [78-122]	KC	1	200.7	07/21/2008 04:59:00 PM
Calcium as Ca (Total Recoverable)	105	% [71-130]	BH	1	200.7	07/29/2008 02:39:00 PM
Copper as Cu (Dissolved)	98	% [70-114]	DK	0.001	200.8	07/28/2008 05:46:00 PM
Copper as Cu (Total Recoverable)	100	% [70-117]	DK	0.001	200.8	07/30/2008 09:10:00 PM
Iron as Fe (Dissolved)	100	% [87-111]	KC	0.01	200.7	07/21/2008 04:56:00 PM
Iron as Fe (Total Recoverable)	106	% [82-124]	BH	0.01	200.7	07/29/2008 02:24:00 PM
Lead as Pb (Dissolved)	98	% [82-117]	BH	0.001	200.8	07/21/2008 07:44:00 PM
Lead as Pb (Total Recoverable)	108	% [81-121]	DK	0.001	200.8	07/30/2008 09:10:00 PM
Magnesium as Mg (Dissolved)	104	% [84-118]	KC	1	200.7	07/21/2008 04:59:00 PM
Magnesium as Mg (Total Recoverable)	109	% [77-126]	BH	1	200.7	07/29/2008 02:39:00 PM
Manganese as Mn (Dissolved)	98	% [81-114]	BH	0.003	200.7	07/28/2008 12:32:00 PM
Manganese as Mn (Total Recoverable)	106	% [78-121]	BH	0.003	200.7	07/29/2008 02:24:00 PM
Potassium as K (Dissolved)	96	% [85-120]	BH	1	200.7	07/28/2008 12:35:00 PM
Potassium as K (Total Recoverable)	99	% [86-125]	BH	1	200.7	07/29/2008 02:39:00 PM
Sodium as Na (Dissolved)	97	% [73-124]	BH	1	200.7	07/28/2008 12:35:00 PM
Sodium as Na (Total Recoverable)	101	% [70-130]	BH	1	200.7	07/29/2008 02:39:00 PM
Zinc as Zn (Dissolved)	99	% [89-113]	BH	0.01	200.7	07/28/2008 12:32:00 PM
Zinc as Zn (Total Recoverable)	110	% [84-121]	BH	0.01	200.7	07/29/2008 02:24:00 PM
Metals Batch#/Digestion Date	1714	-----	DK	-----	200.2	07/24/2008 11:10:00 AM

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 1157561506A.207
Laboratory No.: 2008070132-26
Sample Name: METHOD BLANK
Sample Date/Time: ----- -----
Collected by: PREPARED BY LAB
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD SURFACE WATER 2008/2009						
Acidity as CaCO3	<2	mg/l	RM	2	2310 B	07/25/2008 02:25:48 PM
Alkalinity Bicarbonate as HCO3	<1	mg/l	ES	1	2320B	07/23/2008 06:10:00 PM
Alkalinity Carbonate as CO3	0	mg/l	ES	0	2320B	07/23/2008 06:10:00 PM
Alkalinity Total as CaCO3	<1	mg/l	ES	1	2320B	07/23/2008 06:10:00 PM
Chloride as Cl	<1	mg/l	MRK	1	300.0	07/18/2008 11:21:00 PM
Sulfate as SO4	<5	mg/l	MRK	5	300.0	07/18/2008 11:21:00 PM
Hardness as CaCO3	<7	mg/l	BH	7	2340B	07/21/2008 03:07:00 PM
Electrical Conductivity	<10	umhos/cm	RM	10	2510B	07/25/2008 03:37:00 PM
pH	NA	-----	-----	-----	-----	-----
Total Dissolved Solids	<20	mg/l	RM	20	2540C	07/18/2008 11:07:00 AM
Total Suspended Solids	<1	mg/l	RM	1	2540D	07/18/2008 11:29:00 AM
Aluminum as Al (Dissolved)	<0.05	mg/l	KC	0.05	200.7	07/21/2008 03:07:00 PM
Aluminum as Al (Total Recoverable)	<0.05	mg/l	BH	0.05	200.7	07/29/2008 12:44:00 PM
Cadmium as Cd (Dissolved)	<0.0001	mg/l	BH	0.0001	200.8	07/21/2008 05:46:00 PM
Cadmium as Cd (Total Recoverable)	<0.0001	mg/l	DK	0.0001	200.8	07/30/2008 06:12:00 PM
Calcium as Ca (Dissolved)	<1	mg/l	KC	1	200.7	07/21/2008 03:07:00 PM
Calcium as Ca (Total Recoverable)	<1	mg/l	BH	1	200.7	07/29/2008 12:44:00 PM
Copper as Cu (Dissolved)	<0.001	mg/l	DK	0.001	200.8	07/28/2008 05:20:00 PM
Copper as Cu (Total Recoverable)	<0.001	mg/l	DK	0.001	200.8	07/30/2008 06:12:00 PM
Iron as Fe (Dissolved)	<0.01	mg/l	KC	0.01	200.7	07/21/2008 03:07:00 PM
Iron as Fe (Total Recoverable)	<0.01	mg/l	BH	0.01	200.7	07/29/2008 12:44:00 PM
Lead as Pb (Dissolved)	<0.001	mg/l	BH	0.001	200.8	07/21/2008 05:46:00 PM
Lead as Pb (Total Recoverable)	<0.001	mg/l	DK	0.001	200.8	07/30/2008 06:12:00 PM
Magnesium as Mg (Dissolved)	<1	mg/l	KC	1	200.7	07/21/2008 03:07:00 PM
Magnesium as Mg (Total Recoverable)	<1	mg/l	BH	1	200.7	07/29/2008 12:44:00 PM
Manganese as Mn (Dissolved)	<0.003	mg/l	BH	0.003	200.7	07/28/2008 11:04:00 AM
Manganese as Mn (Total Recoverable)	<0.003	mg/l	BH	0.003	200.7	07/29/2008 12:44:00 PM
Potassium as K (Dissolved)	<1	mg/l	BH	1	200.7	07/28/2008 11:04:00 AM
Potassium as K (Total Recoverable)	<1	mg/l	BH	1	200.7	07/29/2008 12:44:00 PM
Sodium as Na (Dissolved)	<1	mg/l	BH	1	200.7	07/28/2008 11:04:00 AM
Sodium as Na (Total Recoverable)	<1	mg/l	BH	1	200.7	07/29/2008 12:44:00 PM
Zinc as Zn (Dissolved)	<0.01	mg/l	BH	0.01	200.7	07/28/2008 11:04:00 AM
Zinc as Zn (Total Recoverable)	<0.01	mg/l	BH	0.01	200.7	07/29/2008 12:44:00 PM
Metals Batch#/Digestion Date	1714	-----	DK	-----	200.2	07/24/2008 11:10:00 AM

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 1157561506A.207
Laboratory No.: 2008070132-27
Sample Name: LABORATORY CONTROL SAMPLE
Sample Date/Time: ----- -----
Collected by: PREPARED BY LAB
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD SURFACE WATER 2008/2009						
Acidity as CaCO3	103	% [91-116]	RM	2	2310 B	07/25/2008 02:27:49 PM
Alkalinity Bicarbonate as HCO3	NA	-----	-----	-----	-----	-----
Alkalinity Carbonate as CO3	NA	-----	-----	-----	-----	-----
Alkalinity Total as CaCO3	99	% [89-110]	ES	1	2320B	07/23/2008 06:10:00 PM
Chloride as Cl	98	% [90-110]	MRK	1	300.0	07/18/2008 11:52:00 PM
Sulfate as SO4	101	% [90-110]	MRK	5	300.0	07/18/2008 11:52:00 PM
Hardness as CaCO3	NA	-----	-----	-----	-----	-----
Electrical Conductivity	102	% [92-120]	RM	10	2510B	07/25/2008 03:37:00 PM
pH	100	% [99-101]	ES	1.00	4500-H+-B	07/17/2008 03:07:00 PM
Total Dissolved Solids	99	% [90-106]	RM	20	2540C	07/18/2008 11:07:00 AM
Total Suspended Solids	110	% [71-129]	RM	10	2540D	07/18/2008 11:29:00 AM
Aluminum as Al (Dissolved)	95	% [86-112]	KC	0.05	200.7	07/21/2008 03:19:00 PM
Aluminum as Al (Total Recoverable)	102	% [88-115]	BH	0.05	200.7	07/29/2008 12:47:00 PM
Cadmium as Cd (Dissolved)	96	% [86-113]	BH	0.0001	200.8	07/21/2008 05:51:00 PM
Cadmium as Cd (Total Recoverable)	103	% [85-115]	DK	0.0001	200.8	07/30/2008 06:18:00 PM
Calcium as Ca (Dissolved)	101	% [91-114]	KC	1	200.7	07/21/2008 03:22:00 PM
Calcium as Ca (Total Recoverable)	105	% [91-115]	BH	1	200.7	07/29/2008 12:50:00 PM
Copper as Cu (Dissolved)	100	% [85-114]	DK	0.001	200.8	07/28/2008 05:22:00 PM
Copper as Cu (Total Recoverable)	101	% [85-115]	DK	0.001	200.8	07/30/2008 06:18:00 PM
Iron as Fe (Dissolved)	98	% [90-112]	KC	0.01	200.7	07/21/2008 03:19:00 PM
Iron as Fe (Total Recoverable)	101	% [91-115]	BH	0.01	200.7	07/29/2008 12:47:00 PM
Lead as Pb (Dissolved)	95	% [87-114]	BH	0.001	200.8	07/21/2008 05:51:00 PM
Lead as Pb (Total Recoverable)	104	% [85-115]	DK	0.001	200.8	07/30/2008 06:18:00 PM
Magnesium as Mg (Dissolved)	99	% [89-112]	KC	1	200.7	07/21/2008 03:22:00 PM
Magnesium as Mg (Total Recoverable)	104	% [90-115]	BH	1	200.7	07/29/2008 12:50:00 PM
Manganese as Mn (Dissolved)	101	% [92-114]	BH	0.003	200.7	07/28/2008 11:07:00 AM
Manganese as Mn (Total Recoverable)	103	% [94-115]	BH	0.003	200.7	07/29/2008 12:47:00 PM
Potassium as K (Dissolved)	94	% [86-114]	BH	1	200.7	07/28/2008 11:10:00 AM
Potassium as K (Total Recoverable)	98	% [87-115]	BH	1	200.7	07/29/2008 12:50:00 PM
Sodium as Na (Dissolved)	97	% [87-112]	BH	1	200.7	07/28/2008 11:10:00 AM
Sodium as Na (Total Recoverable)	101	% [87-115]	BH	1	200.7	07/29/2008 12:50:00 PM
Zinc as Zn (Dissolved)	101	% [89-113]	BH	0.01	200.7	07/28/2008 11:07:00 AM
Zinc as Zn (Total Recoverable)	103	% [89-115]	BH	0.01	200.7	07/29/2008 12:47:00 PM
Metals Batch#/Digestion Date	1714	-----	DK	-----	200.2	07/24/2008 11:10:00 AM

New world Response and Restoration
Project or Site Name

115 7561506A.207
Project Number

Mark F. Pearson
Sampler Name (Printed)

Same as above
Project Manager, Report to

CHAIN OF CUSTODY RECORD

NORTHERN
Analytical Laboratories, Inc.

602 South 25th Street
Billings, Montana 59101
Ph: 406-254-7226 • Fax: 406-254-1389
nlabs@wtp.net

Tetra Tech (TT) 87-911-12
Report to (Firm or Agency)

851 Bridger Dr., Ste 6
Address

Bozeman MT 59715
City State Zip

582-8780
Phone Fax

DATE COLLECTED 2008	TIME COLLECTED	SAMPLE LOCATION OR DESCRIPTION	COMP OR GRAB	SAMPLE MATRIX	NO. OF CONTAINERS	ANALYSIS REQUIRED	NOTES	LAB NUMBER 2008 070132
7/14	1300	RR-SW-6	G	W	4	TSS / Common and Total metals, Diss metals	See attached analysis table	1
	1500	RR-CFY-2						2
	1615	RR-SW-4						3
	1715	RR-SW-3			3	TSS Common and Total metals		4
	1720	RR-SW-3X			3			5
	1830	RR-FCT-11			4			6
	1915	RR-FCT-12						7
7/15	1130	RR-SW-7						8
	1245	RR-DC-5						9
	1415	RR-DC-2			3			10
	1515	RR-USGS-1700			4			11
	1600	RR-DCT-8			4			12

MK 7/17/08

Relinquished by:	Date	Time	Received by:
Mark F. Pearson (TT)	7/17	830	Kent T. Meredith (TT)
Kent T. Meredith	7/17	1201	[illegible]

Page 1 of 2
Samples in 3 coolers

New World Response and Restoration
Project or Site Name

115 7561506 A.207
Project Number

Mark F. Pearson
Sampler Name (Printed)

Mark F. Pearson
Project Manager, Report to

CHAIN OF CUSTODY RECORD

NORTHERN
Analytical Laboratories, Inc.

602 South 25th Street
Billings, Montana 59101
Ph: 406-254-7226 · Fax: 406-254-1389
nlabs@wtp.net

Tetra Tech (TT)
Report to (Firm or Agency)

851 Bridger Dr., Ste 6
Address

Bozeman MT 59715
City State Zip

582-8780
Phone Fax

DATE COLLECTED	TIME COLLECTED	SAMPLE LOCATION OR DESCRIPTION	COMP OR GRAB	SAMPLE MATRIX	NO. OF CONTAINERS	ANALYSIS REQUIRED	NOTES	LAB NUMBER
7/15	1700	RR-DCSW-101	G	W	4		See attached analysis table	13
	1715	RR-DCSW-102						14
	1730	RR-DCSW-103						15
7/16	930	RR-SBC-4			3			16
	1115	RR-SBSW-102			3			17
	1140	RR-SBC-2			3			18
	1230	RR-SBC-1			3			19
	1300	RR-SW-5			4			20
	1330	RR-SW-2			4			21
							Dup1	22
							MS6	23
							Dup11	24
							MS10	25
							MB26	
							LCS27	

Relinquished by:	Date	Time	Received by:
Mark F. Pearson (TT)	7/17	830	Paul T. Meredith (TT)
Paul T. Meredith	7/17	1201	Billy Hig
Relinquished by:	Date	Time	Received by:

Sheet 2 of 2

Samples in 3 coolers

NORTHERN
Analytical Laboratories, Inc.

SAMPLE RECEIPT CHECKLIST

Dear Valued Client: This checklist documents the condition of your sample(s) as it (they) arrived at our lab. Please review it and familiarize yourself with its contents. Should you have any questions or comments, please contact us. Thank you for your use of our services.

Client Name: Tetra tech

Project: New world R.O.R

Laboratory Number(s): 2008070132

Checklist Completed by: SH 7/17/08 (Initials / Date)

Date/Time Received: 7/17/08 1201 (Date / Time)

Received by: SH

Carrier Name: hand

Sample Type: H_2O

	YES	NO
1. Shipping container in good condition?	✓	
2. Custody seals present on shipping container? Condition: Intact ____ Broken ____		✓
3. Chain of custody present?	✓	
4. Chain of custody signed when relinquished and received?	✓	
5. Chain of custody agrees with sample labels?	✓	
6. Custody seals on sample bottles? Condition: Intact ✓ Broken ____	✓	✗
7. Samples in proper container/bottle?*	✓	
8. Sample containers intact?*	✓	
9. Sufficient sample volume for indicated test?*	✓	
10. Ice/Frozen Blue Ice present in shipping container? (circle one)	✓	
container temperature 1. 1.6 2. 2.0 3. 1.2 * (if <0 or>10)		
11. All samples rec'd within holding time?*	✓	
12. VOA vials have zero headspace? * (if contains >5mm headspace)	NA	
13. Trip Blank received?	✓	

	YES	NO
14. pH check performed by: SH		
15. Metals bottle(s) pH <2?		
16. Nutrient bottle(s) pH <2?	NA	
17. Cyanide bottle(s) pH >12?		
18. Sulfide bottle(s) pH >9?		
19. TOC bottle(s) pH <2?		
20. Phenolics bottle(s) pH <2?		
21. Oil & grease bottle(s) pH <2? (checked by analyst)		
22. EPH/DRO bottle(s) pH <2? (checked by analyst)		
23. Volatiles (VOA) pH <2? (checked by analyst)		
24. Semivolatiles (525) pH <2? (checked by analyst)		
25. Other test types	✓	
26. Client contacted?	✓	
27. Person contacted	M. Pearson	
28. Date contacted	7/17/email	

NOTES: **Samples may be affected when not transported at the temperature recommended by the EPA for the test you've selected. Please contact the lab if you have concerns about the temperature of your samples.**

*** Critical item - if marked "NO" contact lab manager.**

COMMENTS: _____

TABLE 5
SURFACE WATER ANALYTICAL REQUIREMENTS
2008/2009 Work Plan

Parameter	PQL (mg/L)[1]	EPA Method No.	Max. Holding Time
Physicochemical			
Specific Conductivity	None	2310B	28 days
pH	None	150.1	Upon arrival at lab
Total Dissolved Solids	None	2340C	7 days
Total Suspended Solids	None	160.2	7 days
Hardness	None	2340B	6 months
Acidity	None	305.1	14 days
Metals[2]			
Aluminum	0.05	200.8/200.7	6 months
Cadmium	0.0001	200.8/200.7	6 months
Copper	0.001	200.8/200.7	6 months
Iron	0.01	200.8/200.7	6 months
Lead	0.001	200.8/200.7	6 months
Manganese	0.003	200.8/200.7	6 months
Zinc	0.01	200.8/200.7	6 months
Common Cations[2]			
Calcium	1.0	200.8/200.7	6 months
Magnesium	1.0	200.8/200.7	6 months
Potassium	1.0	200.8/200.7	6 months
Sodium	1.0	200.8/200.7	6 months
Common Anions[2]			
Sulfate	None	375.2	28 Days
Bicarbonate	None	2320B	14 Days
Carbonate	None	2320B	14 Days
Chloride	None	325.3	28 Days

1 PQL = Practical Quantitation Limit in milligrams per liter (mg/L)
2 Surface water parameters will be analyzed as total recoverable (unfiltered); for the select stations shown in Table 2, both total and dissolved metals will be analyzed.

NORTHERN
Analytical Laboratories, Inc.

602 South 25th Street
P O Box 30315
Billings, MT 59107
Telephone: (406) 254-7226
Fax: (406) 254-1389

REPORT TO:	ATTN: ALLAN R. KIRK TETRA TECH, INC. 851 BRIDGER DRIVE, SUITE 6 BOZEMAN, MT 59715	**DATE:** **JOB NUMBER:** **PAGE:** **INVOICE NO.:**	September 15, 2008 87-911-12 1 of 25 8080082

REPORT OF: Water Analysis – New World Response & Restoration – Project No. 1157561506A.207

CASE NARRATIVE:

On August 8, 2008, these water samples (laboratory numbers 2008080082-1 through -18) were received in our laboratory for analysis. Tests were conducted in accordance with *"Standard Methods for the Examination of Water and Wastewater"*, 20th Edition; EPA/600/R-93-100 *"Methods for the Determination of Inorganic Substances in Environmental Samples"*, EPA/600/R-94-111 *"Methods for the Determination of Metals in Environmental Samples"*, Supplement I; and Code of Federal Regulations, Title 40, Part 136.

The results of the analysis are shown on the following pages. A < sign indicates the value reported was the practical quantitation limit for this sample using the method described. Concentrations of analyte, if present, below this were not quantifiable. Sample results are not corrected for analyte blank concentrations. Values in brackets are the quality control limits for the associated quality control test. RPD is the abbreviation for relative percent difference.

The condition of the samples upon receipt at the laboratory is noted on the attached sample receipt checklist. Chain of custody documentation is enclosed.

Footnotes used in this report include the following:
(2) The recovery of the matrix spike is outside the stated quality control limit. However, the sample result was greater than four times the spike added, therefore no corrective action was required.

Reviewed by _____
Kathleen A. Smit – Laboratory Manager

Attachments: Chain of Custody (2)
Sample Receipt Checklist
Table 5
Table 12

nct

As a mutual protection to clients, the public and ourselves, all reports are submitted as the confidential property of our clients and authorization for publication of statements, conclusions or extracts from or regarding our reports is reserved pending our written approval. Test results apply specifically to the samples tested only. The entire report shall not be reproduced, except in full, without the written approval of the laboratory. Samples will be disposed of after testing is completed unless other arrangements are agreed to in writing.

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 115 7561506.207
Laboratory No.: 2008080082-1
Sample Name: RR-MW-11
Sample Date/Time: 08/04/2008 14:30:00
Collected by: MARK PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD GROUNDWATER 2008/2009						
Acidity as CaCO3	<2	mg/l	RM	2	2310 B	08/15/2008 09:26:33 AM
Alkalinity Bicarbonate as HCO3	8	mg/l	RM	1	2320B	08/18/2008 08:50:00 PM
Alkalinity Carbonate as CO3	0	mg/l	RM	0	2320B	08/18/2008 08:50:00 PM
Alkalinity Total as CaCO3	6	mg/l	RM	1	2320B	08/18/2008 08:50:00 PM
Chloride as Cl	2	mg/l	MRK	1	300.0	08/16/2008 09:51:00 PM
Sulfate as SO4	13	mg/l	MRK	5	300.0	08/16/2008 09:51:00 PM
Hardness as CaCO3	14	mg/l	BH	7	2340B	08/15/2008 08:19:00 PM
Electrical Conductivity	44	umhos/cm	CC	10	2510B	08/12/2008 05:55:00 PM
pH	6.0	S.U.	ES	0.1-13.5	4500-H+-B	08/08/2008 04:50:00 PM
Total Dissolved Solids	89	mg/l	RM	20	2540C	08/11/2008 09:33:00 AM
Aluminum as Al (Dissolved)	0.05	mg/l	BH	0.05	200.7	08/15/2008 08:19:00 PM
Cadmium as Cd (Dissolved)	<0.0001	mg/l	BH	0.0001	200.8	08/18/2008 03:31:00 PM
Calcium as Ca (Dissolved)	4	mg/l	BH	1	200.7	08/15/2008 08:19:00 PM
Copper as Cu (Dissolved)	0.004	mg/l	BH	0.001	200.8	08/18/2008 03:31:00 PM
Iron as Fe (Dissolved)	0.05	mg/l	BH	0.01	200.7	08/15/2008 08:19:00 PM
Lead as Pb (Dissolved)	<0.001	mg/l	BH	0.001	200.8	08/18/2008 03:31:00 PM
Magnesium as Mg (Dissolved)	1	mg/l	BH	1	200.7	08/15/2008 08:19:00 PM
Manganese as Mn (Dissolved)	<0.003	mg/l	BH	0.003	200.7	08/15/2008 08:19:00 PM
Potassium as K (Dissolved)	<1	mg/l	BH	1	200.7	08/15/2008 08:19:00 PM
Sodium as Na (Dissolved)	1	mg/l	BH	1	200.7	08/15/2008 08:19:00 PM
Zinc as Zn (Dissolved)	<0.01	mg/l	BH	0.01	200.7	08/15/2008 08:19:00 PM
Cations	0.33	meq/l	---	0.30	1030F	
Anions	0.45	meq/l	---	0.38	1030F	
Cation/Anion Balance	0.12	[max 0.20]	---	-----	AWWA/APHA	

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 115 7561506.207
Laboratory No.: 2008080082-2
Sample Name: RR-MW-10B
Sample Date/Time: 08/04/2008 16:00:00
Collected by: MARK PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD GROUNDWATER 2008/2009						
Acidity as CaCO3	<2	mg/l	RM	2	2310 B	08/15/2008 09:30:50 AM
Alkalinity Bicarbonate as HCO3	163	mg/l	RM	1	2320B	08/18/2008 08:50:00 PM
Alkalinity Carbonate as CO3	0	mg/l	RM	0	2320B	08/18/2008 08:50:00 PM
Alkalinity Total as CaCO3	134	mg/l	RM	1	2320B	08/18/2008 08:50:00 PM
Chloride as Cl	8	mg/l	MRK	1	300.0	08/15/2008 07:49:00 AM
Sulfate as SO4	1150	mg/l	MRK	25	300.0	08/15/2008 07:49:00 AM
Hardness as CaCO3	933	mg/l	BH	7	2340B	08/21/2008 02:12:00 PM
Electrical Conductivity	1950	umhos/cm	CC	10	2510B	08/12/2008 05:55:00 PM
pH	7.2	S.U.	ES	0.1-13.5	4500-H+-B	08/08/2008 04:50:00 PM
Total Dissolved Solids	1810	mg/l	RM	20	2540C	08/11/2008 09:33:00 AM
Aluminum as Al (Dissolved)	<0.05	mg/l	BH	0.05	200.7	08/15/2008 08:25:00 PM
Cadmium as Cd (Dissolved)	<0.0001	mg/l	BH	0.0001	200.8	08/18/2008 03:43:00 PM
Calcium as Ca (Dissolved)	278	mg/l	DK	1	200.8	08/21/2008 02:12:00 PM
Copper as Cu (Dissolved)	0.001	mg/l	BH	0.001	200.8	08/18/2008 03:43:00 PM
Iron as Fe (Dissolved)	2.32	mg/l	BH	0.01	200.7	08/15/2008 08:25:00 PM
Lead as Pb (Dissolved)	<0.001	mg/l	BH	0.001	200.8	08/18/2008 03:43:00 PM
Magnesium as Mg (Dissolved)	58	mg/l	BH	1	200.7	08/15/2008 08:25:00 PM
Manganese as Mn (Dissolved)	0.19	mg/l	BH	0.003	200.7	08/15/2008 08:25:00 PM
Potassium as K (Dissolved)	6	mg/l	BH	1	200.7	08/15/2008 08:25:00 PM
Sodium as Na (Dissolved)	144	mg/l	BH	1	200.7	08/15/2008 08:25:00 PM
Zinc as Zn (Dissolved)	<0.01	mg/l	BH	0.01	200.7	08/15/2008 08:25:00 PM
Cations	25.06	meq/l	---	0.30	1030F	
Anions	26.85	meq/l	---	0.38	1030F	
Cation/Anion Balance	3.45	% [max 5%]	---	-----	AWWA/APHA	

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 115 7561506.207
Laboratory No.: 2008080082-3
Sample Name: RR-MW-10A
Sample Date/Time: 08/04/2008 16:15:00
Collected by: MARK PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD GROUNDWATER 2008/2009						
Acidity as CaCO3	<2	mg/l	RM	2	2310 B	08/15/2008 09:35:46 AM
Alkalinity Bicarbonate as HCO3	7	mg/l	RM	1	2320B	08/18/2008 08:50:00 PM
Alkalinity Carbonate as CO3	0	mg/l	RM	0	2320B	08/18/2008 08:50:00 PM
Alkalinity Total as CaCO3	6	mg/l	RM	1	2320B	08/18/2008 08:50:00 PM
Chloride as Cl	18	mg/l	MRK	1	300.0	08/26/2008 02:29:00 AM
Sulfate as SO4	41	mg/l	MRK	5	300.0	08/26/2008 02:29:00 AM
Hardness as CaCO3	56	mg/l	BH	7	2340B	08/15/2008 08:28:00 PM
Electrical Conductivity	182	umhos/cm	CC	10	2510B	08/12/2008 05:55:00 PM
pH	5.8	S.U.	ES	0.1-13.5	4500-H+-B	08/08/2008 04:50:00 PM
Total Dissolved Solids	133	mg/l	RM	20	2540C	08/11/2008 09:33:00 AM
Aluminum as Al (Dissolved)	<0.05	mg/l	BH	0.05	200.7	08/15/2008 08:28:00 PM
Cadmium as Cd (Dissolved)	<0.0001	mg/l	BH	0.0001	200.8	08/18/2008 03:49:00 PM
Calcium as Ca (Dissolved)	16	mg/l	BH	1	200.7	08/15/2008 08:28:00 PM
Copper as Cu (Dissolved)	0.031	mg/l	BH	0.001	200.8	08/18/2008 03:49:00 PM
Iron as Fe (Dissolved)	<0.05	mg/l	BH	0.01	200.7	08/15/2008 08:28:00 PM
Lead as Pb (Dissolved)	<0.001	mg/l	BH	0.001	200.8	08/18/2008 03:49:00 PM
Magnesium as Mg (Dissolved)	4	mg/l	BH	1	200.7	08/15/2008 08:28:00 PM
Manganese as Mn (Dissolved)	0.056	mg/l	BH	0.003	200.7	08/15/2008 08:28:00 PM
Potassium as K (Dissolved)	6	mg/l	BH	1	200.7	08/15/2008 08:28:00 PM
Sodium as Na (Dissolved)	10	mg/l	BH	1	200.7	08/15/2008 08:28:00 PM
Zinc as Zn (Dissolved)	0.01	mg/l	BH	0.01	200.7	08/15/2008 08:28:00 PM
Cations	1.72	meq/l	---	0.30	1030F	
Anions	1.43	meq/l	---	0.38	1030F	
Cation/Anion Balance	0.29*	[max 0.20]	---	-----	AWWA/APHA	

Northern Analytical Laboratories, Inc.

***The concentrations of the major cations and anions were verified with a second analysis.**

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 115 7561506.207
Laboratory No.: 2008080082-4
Sample Name: RR-SB-16
Sample Date/Time: 08/04/2008 18:00:00
Collected by: MARK PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD GROUNDWATER 2008/2009						
Acidity as CaCO3	<2	mg/l	RM	2	2310 B	08/15/2008 09:38:29 AM
Alkalinity Bicarbonate as HCO3	106	mg/l	RM	1	2320B	08/18/2008 08:50:00 PM
Alkalinity Carbonate as CO3	0	mg/l	RM	0	2320B	08/18/2008 08:50:00 PM
Alkalinity Total as CaCO3	87	mg/l	RM	1	2320B	08/18/2008 08:50:00 PM
Chloride as Cl	2	mg/l	MRK	1	300.0	08/16/2008 10:52:00 PM
Sulfate as SO4	273	mg/l	MRK	25	300.0	08/15/2008 10:22:00 AM
Hardness as CaCO3	313	mg/l	BH	7	2340B	08/28/2008 01:53:00 PM
Electrical Conductivity	624	umhos/cm	CC	10	2510B	08/12/2008 05:55:00 PM
pH	7.6	S.U.	ES	0.1-13.5	4500-H+-B	08/08/2008 04:50:00 PM
Total Dissolved Solids	468	mg/l	RM	20	2540C	08/11/2008 09:33:00 AM
Aluminum as Al (Dissolved)	<0.05	mg/l	BH	0.05	200.7	08/15/2008 08:31:00 PM
Cadmium as Cd (Dissolved)	<0.0001	mg/l	BH	0.0001	200.8	08/18/2008 03:54:00 PM
Calcium as Ca (Dissolved)	99	mg/l	BH	1	200.7	08/28/2008 01:53:00 PM
Copper as Cu (Dissolved)	<0.001	mg/l	BH	0.001	200.8	08/18/2008 03:54:00 PM
Iron as Fe (Dissolved)	0.45	mg/l	BH	0.01	200.7	08/15/2008 08:31:00 PM
Lead as Pb (Dissolved)	<0.001	mg/l	BH	0.001	200.8	08/18/2008 03:54:00 PM
Magnesium as Mg (Dissolved)	16	mg/l	BH	1	200.7	08/28/2008 01:53:00 PM
Manganese as Mn (Dissolved)	0.19	mg/l	BH	0.003	200.7	08/15/2008 08:31:00 PM
Potassium as K (Dissolved)	3	mg/l	BH	1	200.7	08/28/2008 01:53:00 PM
Sodium as Na (Dissolved)	24	mg/l	BH	1	200.7	08/28/2008 01:53:00 PM
Zinc as Zn (Dissolved)	<0.01	mg/l	BH	0.01	200.7	08/15/2008 08:31:00 PM
Cations	7.38	meq/l	---	0.30	1030F	
Anions	7.48	meq/l	---	0.38	1030F	
Cation/Anion Balance	0.69	% [max 2%]	---	-----	AWWA/APHA	

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 115 7561506.207
Laboratory No.: 2008080082-5
Sample Name: RR-EPA-11
Sample Date/Time: 08/05/2008 12:15:00
Collected by: MARK PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD GROUNDWATER 2008/2009						
Acidity as CaCO3	304	mg/l	RM	2	2310 B	08/15/2008 09:45:51 AM
Alkalinity Bicarbonate as HCO3	8	mg/l	RM	1	2320B	08/18/2008 08:50:00 PM
Alkalinity Carbonate as CO3	0	mg/l	RM	0	2320B	08/18/2008 08:50:00 PM
Alkalinity Total as CaCO3	6	mg/l	RM	1	2320B	08/18/2008 08:50:00 PM
Chloride as Cl	1	mg/l	MRK	1	300.0	08/16/2008 11:23:00 PM
Sulfate as SO4	930	mg/l	MRK	25	300.0	08/15/2008 10:52:00 AM
Hardness as CaCO3	575	mg/l	BH	7	2340B	08/28/2008 01:56:00 PM
Electrical Conductivity	1360	umhos/cm	CC	10	2510B	08/12/2008 05:55:00 PM
pH	5.4	S.U.	ES	0.1-13.5	4500-H+-B	08/08/2008 04:50:00 PM
Total Dissolved Solids	1490	mg/l	RM	20	2540C	08/11/2008 09:33:00 AM
Aluminum as Al (Dissolved)	0.79	mg/l	BH	0.05	200.7	08/15/2008 08:34:00 PM
Cadmium as Cd (Dissolved)	0.0015	mg/l	BH	0.0001	200.8	08/18/2008 04:00:00 PM
Calcium as Ca (Dissolved)	146	mg/l	BH	1	200.7	08/28/2008 01:56:00 PM
Copper as Cu (Dissolved)	<0.001	mg/l	BH	0.001	200.8	08/18/2008 04:00:00 PM
Iron as Fe (Dissolved)	204	mg/l	BH	0.01	200.7	08/22/2008 02:32:00 PM
Lead as Pb (Dissolved)	0.017	mg/l	BH	0.001	200.8	08/18/2008 04:00:00 PM
Magnesium as Mg (Dissolved)	51	mg/l	BH	1	200.7	08/28/2008 01:56:00 PM
Manganese as Mn (Dissolved)	7.94	mg/l	BH	0.003	200.7	08/15/2008 08:34:00 PM
Potassium as K (Dissolved)	4	mg/l	BH	1	200.7	08/28/2008 01:56:00 PM
Sodium as Na (Dissolved)	3	mg/l	BH	1	200.7	08/28/2008 01:56:00 PM
Zinc as Zn (Dissolved)	0.57	mg/l	BH	0.01	200.7	08/15/2008 08:34:00 PM
Cations	17.80	meq/l	---	0.30	1030F	
Anions	19.51	meq/l	---	0.38	1030F	
Cation/Anion Balance	4.60	% [max 5%]	---	-----	AWWA/APHA	

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 115 7561506.207
Laboratory No.: 2008080082-6
Sample Name: RR-MW-1
Sample Date/Time: 08/05/2008 14:30:00
Collected by: MARK PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD GROUNDWATER 2008/2009						
Acidity as CaCO3	117	mg/l	RM	2	2310 B	08/15/2008 09:50:24 AM
Alkalinity Bicarbonate as HCO3	<1	mg/l	RM	1	2320B	08/18/2008 08:50:00 PM
Alkalinity Carbonate as CO3	0	mg/l	RM	0	2320B	08/18/2008 08:50:00 PM
Alkalinity Total as CaCO3	<1	mg/l	RM	1	2320B	08/18/2008 08:50:00 PM
Chloride as Cl	3	mg/l	MRK	1	300.0	08/16/2008 11:53:00 PM
Sulfate as SO4	487	mg/l	MRK	25	300.0	08/15/2008 11:23:00 AM
Hardness as CaCO3	341	mg/l	BH	7	2340B	08/15/2008 08:38:00 PM
Electrical Conductivity	957	umhos/cm	CC	10	2510B	08/12/2008 05:55:00 PM
pH	4.6	S.U.	ES	0.1-13.5	4500-H+-B	08/08/2008 04:50:00 PM
Total Dissolved Solids	782	mg/l	RM	20	2540C	08/11/2008 09:33:00 AM
Aluminum as Al (Dissolved)	0.26	mg/l	BH	0.05	200.7	08/15/2008 08:38:00 PM
Cadmium as Cd (Dissolved)	<0.0001	mg/l	BH	0.0001	200.8	08/18/2008 04:06:00 PM
Calcium as Ca (Dissolved)	87	mg/l	BH	1	200.7	08/15/2008 08:38:00 PM
Copper as Cu (Dissolved)	0.007	mg/l	BH	0.001	200.8	08/18/2008 04:06:00 PM
Iron as Fe (Dissolved)	67.5	mg/l	BH	0.01	200.7	08/15/2008 08:38:00 PM
Lead as Pb (Dissolved)	0.002	mg/l	BH	0.001	200.8	08/18/2008 04:06:00 PM
Magnesium as Mg (Dissolved)	30	mg/l	BH	1	200.7	08/15/2008 08:38:00 PM
Manganese as Mn (Dissolved)	4.27	mg/l	BH	0.003	200.7	08/15/2008 08:38:00 PM
Potassium as K (Dissolved)	3	mg/l	BH	1	200.7	08/15/2008 08:38:00 PM
Sodium as Na (Dissolved)	3	mg/l	BH	1	200.7	08/15/2008 08:38:00 PM
Zinc as Zn (Dissolved)	0.12	mg/l	BH	0.01	200.7	08/15/2008 08:38:00 PM
Cations	9.36	meq/l	---	0.30	1030F	
Anions	10.22	meq/l	---	0.38	1030F	
Cation/Anion Balance	4.39	% [max 5%]	---	-----	AWWA/APHA	

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 115 7561506.207
Laboratory No.: 2008080082-7
Sample Name: RR-EPA-12
Sample Date/Time: 08/05/2008 17:35:00
Collected by: MARK PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD GROUNDWATER 2008/2009						
Acidity as CaCO3	53	mg/l	RM	2	2310 B	08/15/2008 09:55:28 AM
Alkalinity Bicarbonate as HCO3	13	mg/l	RM	1	2320B	08/18/2008 08:50:00 PM
Alkalinity Carbonate as CO3	0	mg/l	RM	0	2320B	08/18/2008 08:50:00 PM
Alkalinity Total as CaCO3	11	mg/l	RM	1	2320B	08/18/2008 08:50:00 PM
Chloride as Cl	<1	mg/l	MRK	1	300.0	08/17/2008 12:54:00 AM
Sulfate as SO4	217	mg/l	MRK	5	300.0	08/15/2008 12:24:00 PM
Hardness as CaCO3	162	mg/l	BH	7	2340B	08/28/2008 02:02:00 PM
Electrical Conductivity	410	umhos/cm	CC	10	2510B	08/12/2008 05:55:00 PM
pH	6.5	S.U.	ES	0.1-13.5	4500-H+-B	08/08/2008 04:50:00 PM
Total Dissolved Solids	427	mg/l	RM	20	2540C	08/11/2008 09:33:00 AM
Aluminum as Al (Dissolved)	<0.1	mg/l	BH	0.05	200.7	08/15/2008 08:56:00 PM
Cadmium as Cd (Dissolved)	<0.0001	mg/l	BH	0.0001	200.8	08/18/2008 04:30:00 PM
Calcium as Ca (Dissolved)	42	mg/l	BH	1	200.7	08/28/2008 02:02:00 PM
Copper as Cu (Dissolved)	<0.001	mg/l	BH	0.001	200.8	08/18/2008 04:30:00 PM
Iron as Fe (Dissolved)	42.4	mg/l	BH	0.01	200.7	08/15/2008 08:56:00 PM
Lead as Pb (Dissolved)	<0.001	mg/l	BH	0.001	200.8	08/18/2008 04:30:00 PM
Magnesium as Mg (Dissolved)	14	mg/l	BH	1	200.7	08/28/2008 02:02:00 PM
Manganese as Mn (Dissolved)	2.18	mg/l	BH	0.003	200.7	08/15/2008 08:56:00 PM
Potassium as K (Dissolved)	2	mg/l	BH	1	200.7	08/28/2008 02:02:00 PM
Sodium as Na (Dissolved)	4	mg/l	BH	1	200.7	08/28/2008 02:02:00 PM
Zinc as Zn (Dissolved)	0.06	mg/l	BH	0.01	200.7	08/15/2008 08:56:00 PM
Cations	4.53	meq/l	---	0.30	1030F	
Anions	4.77	meq/l	---	0.38	1030F	
Cation/Anion Balance	2.21*	% [max 2%]	---	-----	AWWA/APHA	

Northern Analytical Laboratories, Inc.

***The concentrations of the major cations and anions were verified with a second analysis.**

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 115 7561506.207
Laboratory No.: 2008080082-8
Sample Name: RR-TRACER 5
Sample Date/Time: 08/05/2008 17:15:00
Collected by: MARK PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD GROUNDWATER 2008/2009						
Acidity as CaCO3	325	mg/l	RM	2	2310 B	08/15/2008 10:00:07 AM
Alkalinity Bicarbonate as HCO3	<1	mg/l	RM	1	2320B	08/18/2008 08:50:00 PM
Alkalinity Carbonate as CO3	0	mg/l	RM	0	2320B	08/18/2008 08:50:00 PM
Alkalinity Total as CaCO3	<1	mg/l	RM	1	2320B	08/18/2008 08:50:00 PM
Chloride as Cl	<1	mg/l	MRK	1	300.0	08/17/2008 01:25:00 AM
Sulfate as SO4	402	mg/l	MRK	25	300.0	08/15/2008 12:54:00 PM
Hardness as CaCO3	30	mg/l	BH	7	2340B	08/15/2008 08:59:00 PM
Electrical Conductivity	714	umhos/cm	CC	10	2510B	08/25/2008 12:00:00 PM
pH	3.8	S.U.	ES	0.1-13.5	4500-H+-B	08/08/2008 04:50:00 PM
Total Dissolved Solids	829	mg/l	RM	20	2540C	08/11/2008 09:33:00 AM
Aluminum as Al (Dissolved)	36.4	mg/l	BH	0.05	200.7	08/22/2008 02:35:00 PM
Cadmium as Cd (Dissolved)	0.0025	mg/l	BH	0.0001	200.8	08/18/2008 04:36:00 PM
Calcium as Ca (Dissolved)	7	mg/l	BH	1	200.7	08/15/2008 08:59:00 PM
Copper as Cu (Dissolved)	0.97	mg/l	BH	0.001	200.8	08/18/2008 04:36:00 PM
Iron as Fe (Dissolved)	69.6	mg/l	BH	0.01	200.7	08/15/2008 08:59:00 PM
Lead as Pb (Dissolved)	0.005	mg/l	BH	0.001	200.8	08/18/2008 04:36:00 PM
Magnesium as Mg (Dissolved)	3	mg/l	BH	1	200.7	08/15/2008 08:59:00 PM
Manganese as Mn (Dissolved)	1.08	mg/l	BH	0.003	200.7	08/15/2008 08:59:00 PM
Potassium as K (Dissolved)	3	mg/l	BH	1	200.7	08/15/2008 08:59:00 PM
Sodium as Na (Dissolved)	5	mg/l	BH	1	200.7	08/15/2008 08:59:00 PM
Zinc as Zn (Dissolved)	0.37	mg/l	BH	0.01	200.7	08/15/2008 08:59:00 PM
Cations	7.39	meq/l	---	0.30	1030F	
Anions	8.40	meq/l	---	0.38	1030F	
Cation/Anion Balance	6.40*	% [max 5%]	---	-----	AWWA/APHA	

Northern Analytical Laboratories, Inc.

***The concentrations of the major cations and anions were verified with a second analysis.**

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 115 7561506.207
Laboratory No.: 2008080082-9
Sample Name: RR-MW-9B
Sample Date/Time: 08/05/2008 18:45:00
Collected by: MARK PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD GROUNDWATER 2008/2009						
Acidity as CaCO3	<2	mg/l	RM	2	2310 B	08/15/2008 10:03:54 AM
Alkalinity Bicarbonate as HCO3	7	mg/l	RM	1	2320B	08/18/2008 08:50:00 PM
Alkalinity Carbonate as CO3	0	mg/l	RM	0	2320B	08/18/2008 08:50:00 PM
Alkalinity Total as CaCO3	6	mg/l	RM	1	2320B	08/18/2008 08:50:00 PM
Chloride as Cl	1	mg/l	MRK	1	300.0	08/17/2008 03:27:00 AM
Sulfate as SO4	56	mg/l	MRK	5	300.0	08/15/2008 01:25:00 PM
Hardness as CaCO3	51	mg/l	BH	7	2340B	08/15/2008 09:02:00 PM
Electrical Conductivity	136	umhos/cm	CC	10	2510B	08/12/2008 05:55:00 PM
pH	6.1	S.U.	ES	0.1-13.5	4500-H+-B	08/08/2008 04:50:00 PM
Total Dissolved Solids	130	mg/l	RM	20	2540C	08/11/2008 09:33:00 AM
Aluminum as Al (Dissolved)	<0.05	mg/l	BH	0.05	200.7	08/15/2008 09:02:00 PM
Cadmium as Cd (Dissolved)	<0.0001	mg/l	BH	0.0001	200.8	08/18/2008 04:42:00 PM
Calcium as Ca (Dissolved)	14	mg/l	BH	1	200.7	08/15/2008 09:02:00 PM
Copper as Cu (Dissolved)	<0.001	mg/l	BH	0.001	200.8	08/18/2008 04:42:00 PM
Iron as Fe (Dissolved)	1.01	mg/l	BH	0.01	200.7	08/15/2008 09:02:00 PM
Lead as Pb (Dissolved)	<0.001	mg/l	BH	0.001	200.8	08/18/2008 04:42:00 PM
Magnesium as Mg (Dissolved)	4	mg/l	BH	1	200.7	08/15/2008 09:02:00 PM
Manganese as Mn (Dissolved)	0.094	mg/l	BH	0.003	200.7	08/15/2008 09:02:00 PM
Potassium as K (Dissolved)	2	mg/l	BH	1	200.7	08/15/2008 09:02:00 PM
Sodium as Na (Dissolved)	4	mg/l	BH	1	200.7	08/15/2008 09:02:00 PM
Zinc as Zn (Dissolved)	0.02	mg/l	BH	0.01	200.7	08/15/2008 09:02:00 PM
Cations	1.25	meq/l	---	0.30	1030F	
Anions	1.31	meq/l	---	0.38	1030F	
Cation/Anion Balance	0.06	[max 0.20]	---	-----	AWWA/APHA	

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 115 7561506.207
Laboratory No.: 2008080082-10
Sample Name: RR-MW-9A
Sample Date/Time: 08/05/2008 19:00:00
Collected by: MARK PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD GROUNDWATER 2008/2009						
Acidity as CaCO3	<2	mg/l	RM	2	2310 B	08/15/2008 10:06:40 AM
Alkalinity Bicarbonate as HCO3	5	mg/l	RM	1	2320B	08/18/2008 08:50:00 PM
Alkalinity Carbonate as CO3	0	mg/l	RM	0	2320B	08/18/2008 08:50:00 PM
Alkalinity Total as CaCO3	4	mg/l	RM	1	2320B	08/18/2008 08:50:00 PM
Chloride as Cl	<1	mg/l	MRK	1	300.0	08/17/2008 03:57:00 AM
Sulfate as SO4	51	mg/l	MRK	5	300.0	08/15/2008 01:55:00 PM
Hardness as CaCO3	36	mg/l	BH	7	2340B	08/15/2008 09:05:00 PM
Electrical Conductivity	122	umhos/cm	CC	10	2510B	08/12/2008 05:55:00 PM
pH	5.6	S.U.	ES	0.1-13.5	4500-H+-B	08/08/2008 04:50:00 PM
Total Dissolved Solids	133	mg/l	RM	20	2540C	08/11/2008 09:33:00 AM
Aluminum as Al (Dissolved)	<0.05	mg/l	BH	0.05	200.7	08/15/2008 09:05:00 PM
Cadmium as Cd (Dissolved)	<0.0001	mg/l	BH	0.0001	200.8	08/18/2008 04:48:00 PM
Calcium as Ca (Dissolved)	11	mg/l	BH	1	200.7	08/15/2008 09:05:00 PM
Copper as Cu (Dissolved)	0.007	mg/l	BH	0.001	200.8	08/18/2008 04:48:00 PM
Iron as Fe (Dissolved)	0.03	mg/l	BH	0.01	200.7	08/15/2008 09:05:00 PM
Lead as Pb (Dissolved)	<0.001	mg/l	BH	0.001	200.8	08/18/2008 04:48:00 PM
Magnesium as Mg (Dissolved)	2	mg/l	BH	1	200.7	08/15/2008 09:05:00 PM
Manganese as Mn (Dissolved)	0.005	mg/l	BH	0.003	200.7	08/15/2008 09:05:00 PM
Potassium as K (Dissolved)	2	mg/l	BH	1	200.7	08/15/2008 09:05:00 PM
Sodium as Na (Dissolved)	3	mg/l	BH	1	200.7	08/15/2008 09:05:00 PM
Zinc as Zn (Dissolved)	<0.01	mg/l	BH	0.01	200.7	08/15/2008 09:05:00 PM
Cations	0.90	meq/l	---	0.30	1030F	
Anions	1.14	meq/l	---	0.38	1030F	
Cation/Anion Balance	0.24*	[max 0.20]	---	-----	AWWA/APHA	

Northern Analytical Laboratories, Inc.

***The concentrations of the major cations and anions were verified with a second analysis.**

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 115 7561506.207
Laboratory No.: 2008080082-11
Sample Name: RR-EPA-12X
Sample Date/Time: 08/05/2008 17:40:00
Collected by: MARK PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD GROUNDWATER 2008/2009						
Acidity as CaCO3	41	mg/l	RM	2	2310 B	08/15/2008 10:11:19 AM
Alkalinity Bicarbonate as HCO3	12	mg/l	RM	1	2320B	08/18/2008 08:50:00 PM
Alkalinity Carbonate as CO3	0	mg/l	RM	0	2320B	08/18/2008 08:50:00 PM
Alkalinity Total as CaCO3	10	mg/l	RM	1	2320B	08/18/2008 08:50:00 PM
Chloride as Cl	<1	mg/l	MRK	1	300.0	08/17/2008 04:28:00 AM
Sulfate as SO4	215	mg/l	MRK	5	300.0	08/15/2008 02:26:00 PM
Hardness as CaCO3	153	mg/l	BH	7	2340B	08/15/2008 09:08:00 PM
Electrical Conductivity	409	umhos/cm	CC	10	2510B	08/12/2008 05:55:00 PM
pH	6.5	S.U.	ES	0.1-13.5	4500-H+-B	08/08/2008 04:50:00 PM
Total Dissolved Solids	413	mg/l	RM	20	2540C	08/11/2008 09:33:00 AM
Aluminum as Al (Dissolved)	<0.05	mg/l	BH	0.05	200.7	08/15/2008 09:08:00 PM
Cadmium as Cd (Dissolved)	<0.0001	mg/l	BH	0.0001	200.8	08/18/2008 04:53:00 PM
Calcium as Ca (Dissolved)	40	mg/l	BH	1	200.7	08/15/2008 09:08:00 PM
Copper as Cu (Dissolved)	<0.001	mg/l	BH	0.001	200.8	08/18/2008 04:53:00 PM
Iron as Fe (Dissolved)	42.3	mg/l	BH	0.01	200.7	08/15/2008 09:08:00 PM
Lead as Pb (Dissolved)	<0.001	mg/l	BH	0.001	200.8	08/18/2008 04:53:00 PM
Magnesium as Mg (Dissolved)	13	mg/l	BH	1	200.7	08/15/2008 09:08:00 PM
Manganese as Mn (Dissolved)	2.18	mg/l	BH	0.003	200.7	08/15/2008 09:08:00 PM
Potassium as K (Dissolved)	2	mg/l	BH	1	200.7	08/15/2008 09:08:00 PM
Sodium as Na (Dissolved)	3	mg/l	BH	1	200.7	08/15/2008 09:08:00 PM
Zinc as Zn (Dissolved)	0.06	mg/l	BH	0.01	200.7	08/15/2008 09:08:00 PM
Cations	4.07	meq/l	---	0.30	1030F	
Anions	4.68	meq/l	---	0.38	1030F	
Cation/Anion Balance	6.97*	% [max 2%]	---	-----	AWWA/APHA	

Northern Analytical Laboratories, Inc.

***The concentrations of the major cations and anions were verified with a second analysis.**

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 115 7561506.207
Laboratory No.: 2008080082-12
Sample Name: RR-MW-3
Sample Date/Time: 08/06/2008 09:30:00
Collected by: MARK PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD GROUNDWATER 2008/2009						
Acidity as CaCO3	<2	mg/l	RM	2	2310 B	08/15/2008 10:13:51 AM
Alkalinity Bicarbonate as HCO3	224	mg/l	RM	1	2320B	08/18/2008 08:50:00 PM
Alkalinity Carbonate as CO3	0	mg/l	RM	0	2320B	08/18/2008 08:50:00 PM
Alkalinity Total as CaCO3	184	mg/l	RM	1	2320B	08/18/2008 08:50:00 PM
Chloride as Cl	<1	mg/l	MRK	1	300.0	08/17/2008 04:58:00 AM
Sulfate as SO4	27	mg/l	MRK	5	300.0	08/15/2008 02:56:00 PM
Hardness as CaCO3	192	mg/l	BH	7	2340B	08/15/2008 09:11:00 PM
Electrical Conductivity	346	umhos/cm	CC	10	2510B	08/12/2008 05:55:00 PM
pH	7.7	S.U.	ES	0.1-13.5	4500-H+-B	08/08/2008 04:50:00 PM
Total Dissolved Solids	240	mg/l	RM	20	2540C	08/11/2008 09:33:00 AM
Aluminum as Al (Dissolved)	<0.05	mg/l	BH	0.05	200.7	08/15/2008 09:11:00 PM
Cadmium as Cd (Dissolved)	<0.0001	mg/l	BH	0.0001	200.8	08/18/2008 04:59:00 PM
Calcium as Ca (Dissolved)	49	mg/l	BH	1	200.7	08/15/2008 09:11:00 PM
Copper as Cu (Dissolved)	<0.001	mg/l	BH	0.001	200.8	08/18/2008 04:59:00 PM
Iron as Fe (Dissolved)	<0.01	mg/l	BH	0.01	200.7	08/15/2008 09:11:00 PM
Lead as Pb (Dissolved)	<0.001	mg/l	BH	0.001	200.8	08/18/2008 04:59:00 PM
Magnesium as Mg (Dissolved)	17	mg/l	BH	1	200.7	08/15/2008 09:11:00 PM
Manganese as Mn (Dissolved)	0.34	mg/l	BH	0.003	200.7	08/15/2008 09:11:00 PM
Potassium as K (Dissolved)	2	mg/l	BH	1	200.7	08/15/2008 09:11:00 PM
Sodium as Na (Dissolved)	4	mg/l	BH	1	200.7	08/15/2008 09:11:00 PM
Zinc as Zn (Dissolved)	<0.01	mg/l	BH	0.01	200.7	08/15/2008 09:11:00 PM
Cations	4.07	meq/l	---	0.30	1030F	
Anions	4.24	meq/l	---	0.38	1030F	
Cation/Anion Balance	0.17	[max 0.20]	---	-----	AWWA/APHA	

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 115 7561506.207
Laboratory No.: 2008080082-13
Sample Name: RR-DCT-9
Sample Date/Time: 08/06/2008 10:30:00
Collected by: MARK PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD SURFACE WATER 2008/2009						
Acidity as CaCO3	56	mg/l	RM	2	2310 B	08/15/2008 10:18:00 AM
Alkalinity Bicarbonate as HCO3	<1	mg/l	RM	1	2320B	08/18/2008 08:50:00 PM
Alkalinity Carbonate as CO3	0	mg/l	RM	0	2320B	08/18/2008 08:50:00 PM
Alkalinity Total as CaCO3	<1	mg/l	RM	1	2320B	08/18/2008 08:50:00 PM
Chloride as Cl	1	mg/l	MRK	1	300.0	08/26/2008 11:26:00 AM
Sulfate as SO4	155	mg/l	MRK	5	300.0	08/26/2008 11:26:00 AM
Hardness as CaCO3	89	mg/l	BH	7	2340B	08/28/2008 02:24:00 PM
Electrical Conductivity	335	umhos/cm	CC	10	2510B	08/12/2008 05:55:00 PM
pH	3.6	S.U.	ES	0.1-13.5	4500-H+-B	08/08/2008 04:50:00 PM
Total Dissolved Solids	288	mg/l	RM	20	2540C	08/11/2008 09:33:00 AM
Total Suspended Solids	<2	mg/l	RM	2	2540D	08/11/2008 04:43:20 PM
Aluminum as Al (Dissolved)	6.12	mg/l	BH	0.05	200.7	08/15/2008 09:14:00 PM
Aluminum as Al (Total Recoverable)	6.89	mg/l	BH	0.03	200.7	08/13/2008 07:38:00 PM
Cadmium as Cd (Dissolved)	0.0006	mg/l	BH	0.0001	200.8	08/18/2008 05:05:00 PM
Cadmium as Cd (Total Recoverable)	0.0008	mg/l	BH	0.0001	200.8	08/19/2008 04:45:00 PM
Calcium as Ca (Dissolved)	29	mg/l	BH	1	200.7	08/28/2008 02:24:00 PM
Calcium as Ca (Total Recoverable)	30	mg/l	BH	1	200.7	08/13/2008 07:38:00 PM
Copper as Cu (Dissolved)	0.58	mg/l	BH	0.001	200.7	08/15/2008 09:14:00 PM
Copper as Cu (Total Recoverable)	0.63	mg/l	BH	0.001	200.7	08/13/2008 07:38:00 PM
Iron as Fe (Dissolved)	0.14	mg/l	BH	0.01	200.7	08/15/2008 09:14:00 PM
Iron as Fe (Total Recoverable)	0.17	mg/l	BH	0.01	200.7	08/13/2008 07:38:00 PM
Lead as Pb (Dissolved)	0.003	mg/l	BH	0.001	200.8	08/18/2008 05:05:00 PM
Lead as Pb (Total Recoverable)	0.003	mg/l	BH	0.001	200.8	08/19/2008 04:45:00 PM
Magnesium as Mg (Dissolved)	4	mg/l	BH	1	200.7	08/28/2008 02:24:00 PM
Magnesium as Mg (Total Recoverable)	4	mg/l	BH	1	200.7	08/13/2008 07:38:00 PM
Manganese as Mn (Dissolved)	0.34	mg/l	BH	0.003	200.7	08/15/2008 09:14:00 PM
Manganese as Mn (Total Recoverable)	0.37	mg/l	BH	0.003	200.7	08/13/2008 07:38:00 PM
Potassium as K (Dissolved)	2	mg/l	BH	1	200.7	08/28/2008 02:24:00 PM
Potassium as K (Total Recoverable)	3	mg/l	BH	1	200.7	08/13/2008 07:38:00 PM
Sodium as Na (Dissolved)	3	mg/l	BH	1	200.7	08/28/2008 02:24:00 PM
Sodium as Na (Total Recoverable)	3	mg/l	BH	1	200.7	08/13/2008 07:38:00 PM
Zinc as Zn (Dissolved)	0.09	mg/l	BH	0.01	200.7	08/15/2008 09:14:00 PM
Zinc as Zn (Total Recoverable)	0.09	mg/l	BH	0.01	200.7	08/13/2008 07:38:00 PM
Cations	3.08	meq/l	---	0.30	1030F	
Anions	3.23	meq/l	---	0.38	1030F	
Cation/Anion Balance	0.15	% [max 5%]	---	-----	AWWA/APHA	
Metals Batch#/Digestion Date	1730	-----	BH		200.2	08/11/2008 10:45:00 AM

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 115 7561506.207
Laboratory No.: 2008080082-14
Sample Name: RR-DCT-7
Sample Date/Time: 08/06/2008 11:15:00
Collected by: MARK PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD SURFACE WATER 2008/2009						
Acidity as CaCO3	<2	mg/l	RM	2	2310 B	08/15/2008 10:22:24 AM
Alkalinity Bicarbonate as HCO3	24	mg/l	RM	1	2320B	08/18/2008 08:50:00 PM
Alkalinity Carbonate as CO3	0	mg/l	RM	0	2320B	08/18/2008 08:50:00 PM
Alkalinity Total as CaCO3	20	mg/l	RM	1	2320B	08/18/2008 08:50:00 PM
Chloride as Cl	<1	mg/l	MRK	1	300.0	08/17/2008 06:30:00 AM
Sulfate as SO4	76	mg/l	MRK	5	300.0	08/16/2008 04:46:00 PM
Hardness as CaCO3	94	mg/l	BH	7	2340B	08/15/2008 09:21:00 PM
Electrical Conductivity	187	umhos/cm	CC	10	2510B	08/12/2008 05:55:00 PM
pH	6.7	S.U.	ES	0.1-13.5	4500-H+-B	08/08/2008 04:50:00 PM
Total Dissolved Solids	146	mg/l	RM	20	2540C	08/11/2008 09:33:00 AM
Total Suspended Solids	<1	mg/l	RM	1	2540D	08/11/2008 04:43:20 PM
Aluminum as Al (Dissolved)	<0.05	mg/l	BH	0.05	200.7	08/15/2008 09:21:00 PM
Aluminum as Al (Total Recoverable)	<0.05	mg/l	BH	0.03	200.7	08/13/2008 07:53:00 PM
Cadmium as Cd (Dissolved)	0.0005	mg/l	BH	0.0001	200.8	08/18/2008 05:17:00 PM
Cadmium as Cd (Total Recoverable)	0.0005	mg/l	BH	0.0001	200.8	08/19/2008 04:57:00 PM
Calcium as Ca (Dissolved)	31	mg/l	BH	1	200.7	08/15/2008 09:21:00 PM
Calcium as Ca (Total Recoverable)	31	mg/l	BH	1	200.7	08/13/2008 07:53:00 PM
Copper as Cu (Dissolved)	0.030	mg/l	BH	0.001	200.8	08/18/2008 05:17:00 PM
Copper as Cu (Total Recoverable)	0.029	mg/l	BH	0.001	200.8	08/19/2008 04:57:00 PM
Iron as Fe (Dissolved)	<0.01	mg/l	BH	0.01	200.7	08/15/2008 09:21:00 PM
Iron as Fe (Total Recoverable)	0.02	mg/l	BH	0.01	200.7	08/13/2008 07:53:00 PM
Lead as Pb (Dissolved)	<0.001	mg/l	BH	0.001	200.8	08/18/2008 05:17:00 PM
Lead as Pb (Total Recoverable)	<0.001	mg/l	BH	0.001	200.8	08/19/2008 04:57:00 PM
Magnesium as Mg (Dissolved)	4	mg/l	BH	1	200.7	08/15/2008 09:21:00 PM
Magnesium as Mg (Total Recoverable)	4	mg/l	BH	1	200.7	08/13/2008 07:53:00 PM
Manganese as Mn (Dissolved)	0.039	mg/l	BH	0.003	200.7	08/15/2008 09:21:00 PM
Manganese as Mn (Total Recoverable)	0.036	mg/l	BH	0.003	200.7	08/13/2008 07:53:00 PM
Potassium as K (Dissolved)	1	mg/l	BH	1	200.7	08/15/2008 09:21:00 PM
Potassium as K (Total Recoverable)	1	mg/l	BH	1	200.7	08/13/2008 07:53:00 PM
Sodium as Na (Dissolved)	<1	mg/l	BH	1	200.7	08/15/2008 09:21:00 PM
Sodium as Na (Total Recoverable)	1	mg/l	BH	1	200.7	08/13/2008 07:53:00 PM
Zinc as Zn (Dissolved)	0.10	mg/l	BH	0.01	200.7	08/15/2008 09:21:00 PM
Zinc as Zn (Total Recoverable)	0.10	mg/l	BH	0.01	200.7	08/13/2008 07:53:00 PM
Cations	1.90	meq/l	---	0.30	1030F	
Anions	1.98	meq/l	---	0.38	1030F	
Cation/Anion Balance	0.08	[max 0.20]	---	-----	AWWA/APHA	
Metals Batch#/Digestion Date	1730	-----	BH		200.2	08/11/2008 10:45:00 AM

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 115 7561506.207
Laboratory No.: 2008080082-15
Sample Name: RR-MW-2
Sample Date/Time: 08/06/2008 13:00:00
Collected by: MARK PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD GROUNDWATER 2008/2009						
Acidity as CaCO3	360	mg/l	RM	2	2310 B	08/15/2008 10:28:05 AM
Alkalinity Bicarbonate as HCO3	<1	mg/l	RM	1	2320B	08/18/2008 08:50:00 PM
Alkalinity Carbonate as CO3	0	mg/l	RM	0	2320B	08/18/2008 08:50:00 PM
Alkalinity Total as CaCO3	<1	mg/l	RM	1	2320B	08/18/2008 08:50:00 PM
Chloride as Cl	<1	mg/l	MRK	1	300.0	08/17/2008 07:31:00 AM
Sulfate as SO4	502	mg/l	MRK	25	300.0	08/16/2008 05:47:00 PM
Hardness as CaCO3	81	mg/l	BH	7	2340B	08/15/2008 09:39:00 PM
Electrical Conductivity	970	umhos/cm	CC	10	2510B	08/25/2008 12:00:00 PM
pH	3.9	S.U.	ES	0.1-13.5	4500-H+-B	08/08/2008 04:50:00 PM
Total Dissolved Solids	1060	mg/l	RM	20	2540C	08/11/2008 09:33:00 AM
Aluminum as Al (Dissolved)	41.9	mg/l	BH	0.05	200.7	08/22/2008 02:38:00 PM
Cadmium as Cd (Dissolved)	0.0012	mg/l	BH	0.0001	200.8	08/18/2008 05:41:00 PM
Calcium as Ca (Dissolved)	21	mg/l	BH	1	200.7	08/15/2008 09:39:00 PM
Copper as Cu (Dissolved)	0.27	mg/l	BH	0.001	200.7	08/15/2008 09:39:00 PM
Iron as Fe (Dissolved)	100	mg/l	BH	0.01	200.7	08/22/2008 02:38:00 PM
Lead as Pb (Dissolved)	0.010	mg/l	BH	0.001	200.8	08/18/2008 05:41:00 PM
Magnesium as Mg (Dissolved)	7	mg/l	BH	1	200.7	08/15/2008 09:39:00 PM
Manganese as Mn (Dissolved)	1.03	mg/l	BH	0.003	200.7	08/15/2008 09:39:00 PM
Potassium as K (Dissolved)	4	mg/l	BH	1	200.7	08/15/2008 09:39:00 PM
Sodium as Na (Dissolved)	3	mg/l	BH	1	200.7	08/15/2008 09:39:00 PM
Zinc as Zn (Dissolved)	0.23	mg/l	BH	0.01	200.7	08/15/2008 09:39:00 PM
Cations	9.06	meq/l	---	0.30	1030F	
Anions	10.45	meq/l	---	0.38	1030F	
Cation/Anion Balance	7.13*	% [max 5%]	---	-----	AWWA/APHA	

Northern Analytical Laboratories, Inc.

***The concentrations of the major cations and anions were verified with a second analysis.**

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 115 7561506.207
Laboratory No.: 2008080082-16
Sample Name: RR-FCGW-100
Sample Date/Time: 08/06/2008 14:00:00
Collected by: MARK PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD GROUNDWATER 2008/2009						
Acidity as CaCO3	477	mg/l	RM	2	2310 B	08/15/2008 10:33:59 AM
Alkalinity Bicarbonate as HCO3	17	mg/l	RM	1	2320B	08/18/2008 08:50:00 PM
Alkalinity Carbonate as CO3	0	mg/l	RM	0	2320B	08/18/2008 08:50:00 PM
Alkalinity Total as CaCO3	14	mg/l	RM	1	2320B	08/18/2008 08:50:00 PM
Chloride as Cl	1	mg/l	MRK	1	300.0	08/17/2008 08:01:00 AM
Sulfate as SO4	1050	mg/l	MRK	25	300.0	08/16/2008 06:18:00 PM
Hardness as CaCO3	513	mg/l	BH	7	2340B	08/15/2008 09:42:00 PM
Electrical Conductivity	1560	umhos/cm	CC	10	2510B	08/25/2008 12:00:00 PM
pH	5.5	S.U.	ES	0.1-13.5	4500-H+-B	08/08/2008 04:50:00 PM
Total Dissolved Solids	1650	mg/l	RM	20	2540C	08/11/2008 09:33:00 AM
Aluminum as Al (Dissolved)	0.37	mg/l	BH	0.05	200.7	08/15/2008 09:42:00 PM
Cadmium as Cd (Dissolved)	<0.0001	mg/l	BH	0.0001	200.8	08/18/2008 05:46:00 PM
Calcium as Ca (Dissolved)	161	mg/l	BH	1	200.7	08/15/2008 09:42:00 PM
Copper as Cu (Dissolved)	0.003	mg/l	BH	0.001	200.8	08/18/2008 05:46:00 PM
Iron as Fe (Dissolved)	291	mg/l	BH	0.01	200.7	08/22/2008 02:41:00 PM
Lead as Pb (Dissolved)	<0.001	mg/l	BH	0.001	200.8	08/18/2008 05:46:00 PM
Magnesium as Mg (Dissolved)	27	mg/l	BH	1	200.7	08/15/2008 09:42:00 PM
Manganese as Mn (Dissolved)	9.42	mg/l	BH	0.003	200.7	08/15/2008 09:42:00 PM
Potassium as K (Dissolved)	8	mg/l	BH	1	200.7	08/15/2008 09:42:00 PM
Sodium as Na (Dissolved)	4	mg/l	BH	1	200.7	08/15/2008 09:42:00 PM
Zinc as Zn (Dissolved)	0.03	mg/l	BH	0.01	200.7	08/15/2008 09:42:00 PM
Cations	20.18	meq/l	---	0.30	1030F	
Anions	22.17	meq/l	---	0.38	1030F	
Cation/Anion Balance	4.70	% [max 5%]	---	-----	AWWA/APHA	

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 115 7561506.207
Laboratory No.: 2008080082-17
Sample Name: RR-DCGW-103D
Sample Date/Time: 08/06/2008 14:45:00
Collected by: MARK PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD GROUNDWATER 2008/2009						
Acidity as CaCO3	<2	mg/l	RM	2	2310 B	08/15/2008 10:36:27 AM
Alkalinity Bicarbonate as HCO3	200	mg/l	RM	1	2320B	08/18/2008 08:50:00 PM
Alkalinity Carbonate as CO3	0	mg/l	RM	0	2320B	08/18/2008 08:50:00 PM
Alkalinity Total as CaCO3	164	mg/l	RM	1	2320B	08/18/2008 08:50:00 PM
Chloride as Cl	<1	mg/l	MRK	1	300.0	08/17/2008 10:03:00 AM
Sulfate as SO4	125	mg/l	MRK	5	300.0	08/16/2008 06:48:00 PM
Hardness as CaCO3	276	mg/l	BH	7	2340B	08/15/2008 09:45:00 PM
Electrical Conductivity	503	umhos/cm	CC	10	2510B	08/12/2008 05:55:00 PM
pH	7.5	S.U.	ES	0.1-13.5	4500-H+-B	08/08/2008 04:50:00 PM
Total Dissolved Solids	368	mg/l	RM	20	2540C	08/11/2008 09:33:00 AM
Aluminum as Al (Dissolved)	<0.05	mg/l	BH	0.05	200.7	08/15/2008 09:45:00 PM
Cadmium as Cd (Dissolved)	<0.0001	mg/l	BH	0.0001	200.8	08/18/2008 05:52:00 PM
Calcium as Ca (Dissolved)	84	mg/l	BH	1	200.7	08/15/2008 09:45:00 PM
Copper as Cu (Dissolved)	<0.001	mg/l	BH	0.001	200.8	08/18/2008 05:52:00 PM
Iron as Fe (Dissolved)	0.31	mg/l	BH	0.01	200.7	08/15/2008 09:45:00 PM
Lead as Pb (Dissolved)	<0.001	mg/l	BH	0.001	200.8	08/18/2008 05:52:00 PM
Magnesium as Mg (Dissolved)	16	mg/l	BH	1	200.7	08/15/2008 09:45:00 PM
Manganese as Mn (Dissolved)	0.21	mg/l	BH	0.003	200.7	08/15/2008 09:45:00 PM
Potassium as K (Dissolved)	2	mg/l	BH	1	200.7	08/15/2008 09:45:00 PM
Sodium as Na (Dissolved)	6	mg/l	BH	1	200.7	08/15/2008 09:45:00 PM
Zinc as Zn (Dissolved)	<0.01	mg/l	BH	0.01	200.7	08/15/2008 09:45:00 PM
Cations	5.82	meq/l	---	0.30	1030F	
Anions	5.88	meq/l	---	0.38	1030F	
Cation/Anion Balance	0.51	% [max 5%]	---	-----	AWWA/APHA	

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 115 7561506.207
Laboratory No.: 2008080082-18
Sample Name: RR-DCGW-103S
Sample Date/Time: 08/06/2008 15:15:00
Collected by: MARK PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD GROUNDWATER 2008/2009						
Acidity as CaCO3	<2	mg/l	RM	2	2310 B	08/15/2008 10:38:34 AM
Alkalinity Bicarbonate as HCO3	194	mg/l	RM	1	2320B	08/18/2008 08:50:00 PM
Alkalinity Carbonate as CO3	0	mg/l	RM	0	2320B	08/18/2008 08:50:00 PM
Alkalinity Total as CaCO3	159	mg/l	RM	1	2320B	08/18/2008 08:50:00 PM
Chloride as Cl	<1	mg/l	MRK	1	300.0	08/17/2008 10:34:00 AM
Sulfate as SO4	229	mg/l	MRK	5	300.0	08/16/2008 07:19:00 PM
Hardness as CaCO3	357	mg/l	BH	7	2340B	08/15/2008 09:48:00 PM
Electrical Conductivity	690	umhos/cm	CC	10	2510B	08/12/2008 05:55:00 PM
pH	6.8	S.U.	ES	0.1-13.5	4500-H+-B	08/08/2008 04:50:00 PM
Total Dissolved Solids	505	mg/l	RM	20	2540C	08/11/2008 09:33:00 AM
Aluminum as Al (Dissolved)	<0.05	mg/l	BH	0.05	200.7	08/15/2008 09:48:00 PM
Cadmium as Cd (Dissolved)	0.0008	mg/l	BH	0.0001	200.8	08/18/2008 05:58:00 PM
Calcium as Ca (Dissolved)	115	mg/l	BH	1	200.7	08/15/2008 09:48:00 PM
Copper as Cu (Dissolved)	0.002	mg/l	BH	0.001	200.8	08/18/2008 05:58:00 PM
Iron as Fe (Dissolved)	0.25	mg/l	BH	0.01	200.7	08/15/2008 09:48:00 PM
Lead as Pb (Dissolved)	<0.001	mg/l	BH	0.001	200.8	08/18/2008 05:58:00 PM
Magnesium as Mg (Dissolved)	17	mg/l	BH	1	200.7	08/15/2008 09:48:00 PM
Manganese as Mn (Dissolved)	0.92	mg/l	BH	0.003	200.7	08/15/2008 09:48:00 PM
Potassium as K (Dissolved)	10	mg/l	BH	1	200.7	08/15/2008 09:48:00 PM
Sodium as Na (Dissolved)	9	mg/l	BH	1	200.7	08/15/2008 09:48:00 PM
Zinc as Zn (Dissolved)	0.15	mg/l	BH	0.01	200.7	08/15/2008 09:48:00 PM
Cations	7.79	meq/l	---	0.30	1030F	
Anions	7.95	meq/l	---	0.38	1030F	
Cation/Anion Balance	1.02	% [max 5%]	---	-----	AWWA/APHA	

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 115 7561506.207
Laboratory No.: 2008080082-19
Sample Name: DUPLICATE OF 2008080082-01
Sample Date/Time: 08/04/2008 14:30:00
Collected by: MARK PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD GROUNDWATER 2008/2009						
Acidity as CaCO3	<2	mg/l	RM	2	2310 B	08/15/2008 10:42:09 AM
Alkalinity Bicarbonate as HCO3	0*	RPD [0-20]	RM	1	2320B	08/18/2008 08:50:00 PM
Alkalinity Carbonate as CO3	0*	RPD [0-20]	RM	0	2320B	08/18/2008 08:50:00 PM
Alkalinity Total as CaCO3	0*	RPD [0-20]	RM	1	2320B	08/18/2008 08:50:00 PM
Chloride as Cl	2	mg/l	MRK	1	300.0	08/16/2008 10:22:00 PM
Sulfate as SO4	13	mg/l	MRK	5	300.0	08/16/2008 10:22:00 PM
Hardness as CaCO3	14	mg/l	BH	7	2340B	08/15/2008 08:22:00 PM
Electrical Conductivity	41	umhos/cm	CC	10	2510B	08/12/2008 05:55:00 PM
pH	6.0	S.U.	ES	0.1-13.5	4500-H+-B	08/08/2008 04:50:00 PM
Total Dissolved Solids	96	mg/l	RM	20	2540C	08/11/2008 09:33:00 AM
Aluminum as Al (Dissolved)	<0.05	mg/l	BH	0.05	200.7	08/15/2008 08:22:00 PM
Cadmium as Cd (Dissolved)	<0.0001	mg/l	BH	0.0001	200.8	08/18/2008 03:37:00 PM
Calcium as Ca (Dissolved)	4	mg/l	BH	1	200.7	08/15/2008 08:22:00 PM
Copper as Cu (Dissolved)	0.004	mg/l	BH	0.001	200.8	08/18/2008 03:37:00 PM
Iron as Fe (Dissolved)	0.05	mg/l	BH	0.01	200.7	08/15/2008 08:22:00 PM
Lead as Pb (Dissolved)	<0.001	mg/l	BH	0.001	200.8	08/18/2008 03:37:00 PM
Magnesium as Mg (Dissolved)	1	mg/l	BH	1	200.7	08/15/2008 08:22:00 PM
Manganese as Mn (Dissolved)	<0.003	mg/l	BH	0.003	200.7	08/15/2008 08:22:00 PM
Potassium as K (Dissolved)	<1	mg/l	BH	1	200.7	08/15/2008 08:22:00 PM
Sodium as Na (Dissolved)	1	mg/l	BH	1	200.7	08/15/2008 08:22:00 PM
Zinc as Zn (Dissolved)	<0.01	mg/l	BH	0.01	200.7	08/15/2008 08:22:00 PM

Northern Analytical Laboratories, Inc.

***Batch Duplicate**

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 115 7561506.207
Laboratory No.: 2008080082-20
Sample Name: MATRIX SPIKE OF 2008080082-06
Sample Date/Time: 08/05/2008 14:30:00
Collected by: MARK PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD GROUNDWATER 2008/2009						
Acidity as CaCO3	121	% [70-132]	RM	2	2310 B	08/15/2008 10:49:52 AM
Alkalinity Bicarbonate as HCO3	NA	-----	-----	-----	-----	-----
Alkalinity Carbonate as CO3	NA	-----	-----	-----	-----	-----
Alkalinity Total as CaCO3	94	% [77-116]	RM	1	2320B	08/18/2008 08:50:00 PM
Chloride as Cl	104	% [84-124]	MRK	1	300.0	08/17/2008 12:24:00 AM
Sulfate as SO4	109	% [84-124]	MRK	5	300.0	08/15/2008 11:53:00 AM
Hardness as CaCO3	NA	-----	-----	-----	-----	-----
Electrical Conductivity	NA	-----	-----	-----	-----	-----
pH	NA	-----	-----	-----	-----	-----
Total Dissolved Solids	NA	-----	-----	-----	-----	-----
Aluminum as Al (Dissolved)	102	% [81-117]	BH	0.05	200.7	08/15/2008 08:41:00 PM
Cadmium as Cd (Dissolved)	107	% [81-116]	BH	0.0001	200.8	08/18/2008 04:24:00 PM
Calcium as Ca (Dissolved)	107	% [78-122]	BH	1	200.7	08/15/2008 08:44:00 PM
Copper as Cu (Dissolved)	96	% [70-114]	BH	0.001	200.8	08/18/2008 04:24:00 PM
Iron as Fe (Dissolved)	(2)	% [87-111]	BH	0.01	200.7	08/15/2008 08:41:00 PM
Lead as Pb (Dissolved)	100	% [82-117]	BH	0.001	200.8	08/18/2008 04:24:00 PM
Magnesium as Mg (Dissolved)	107	% [84-118]	BH	1	200.7	08/15/2008 08:44:00 PM
Manganese as Mn (Dissolved)	109	% [81-114]	BH	0.003	200.7	08/15/2008 08:41:00 PM
Potassium as K (Dissolved)	103	% [85-120]	BH	1	200.7	08/15/2008 08:44:00 PM
Sodium as Na (Dissolved)	98	% [73-124]	BH	1	200.7	08/15/2008 08:44:00 PM
Zinc as Zn (Dissolved)	106	% [89-113]	BH	0.01	200.7	08/15/2008 08:41:00 PM

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 115 7561506.207
Laboratory No.: 2008080082-21
Sample Name: DUPLICATE OF 2008080082-13
Sample Date/Time: 08/06/2008 10:30:00
Collected by: MARK PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD SURFACE WATER 2008/2009						
Acidity as CaCO3	<2	mg/l	RM	2	2310 B	08/15/2008 10:56:54 AM
Alkalinity Bicarbonate as HCO3	<1	mg/l	RM	1	2320B	08/18/2008 08:50:00 PM
Alkalinity Carbonate as CO3	0	mg/l	RM	0	2320B	08/18/2008 08:50:00 PM
Alkalinity Total as CaCO3	<1	mg/l	RM	1	2320B	08/18/2008 08:50:00 PM
Chloride as Cl	1	mg/l	MRK	1	300.0	08/17/2008 05:59:00 AM
Sulfate as SO4	153	mg/l	MRK	5	300.0	08/16/2008 04:16:00 PM
Hardness as CaCO3	86	mg/l	BH	7	2340B	08/15/2008 09:17:00 PM
Electrical Conductivity	343	umhos/cm	CC	10	2510B	08/12/2008 05:55:00 PM
pH	3.6	S.U.	ES	0.1-13.5	4500-H+-B	08/08/2008 04:50:00 PM
Total Dissolved Solids	268	mg/l	RM	20	2540C	08/11/2008 09:33:00 AM
Total Suspended Solids	<2	mg/l	RM	2	2540D	08/11/2008 04:43:20 PM
Aluminum as Al (Dissolved)	6.18	mg/l	BH	0.05	200.7	08/15/2008 09:17:00 PM
Aluminum as Al (Total Recoverable)	6.21	mg/l	BH	0.03	200.7	08/13/2008 07:41:00 PM
Cadmium as Cd (Dissolved)	0.0006	mg/l	BH	0.0001	200.8	08/18/2008 05:11:00 PM
Cadmium as Cd (Total Recoverable)	0.0007	mg/l	BH	0.0001	200.8	08/19/2008 04:51:00 PM
Calcium as Ca (Dissolved)	28	mg/l	BH	1	200.7	08/15/2008 09:17:00 PM
Calcium as Ca (Total Recoverable)	27	mg/l	BH	1	200.7	08/13/2008 07:41:00 PM
Copper as Cu (Dissolved)	0.59	mg/l	BH	0.001	200.7	08/15/2008 09:17:00 PM
Copper as Cu (Total Recoverable)	0.57	mg/l	BH	0.001	200.7	08/13/2008 07:41:00 PM
Iron as Fe (Dissolved)	0.14	mg/l	BH	0.01	200.7	08/15/2008 09:17:00 PM
Iron as Fe (Total Recoverable)	0.15	mg/l	BH	0.01	200.7	08/13/2008 07:41:00 PM
Lead as Pb (Dissolved)	0.003	mg/l	BH	0.001	200.8	08/18/2008 05:11:00 PM
Lead as Pb (Total Recoverable)	0.002	mg/l	BH	0.001	200.8	08/19/2008 04:51:00 PM
Magnesium as Mg (Dissolved)	4	mg/l	BH	1	200.7	08/15/2008 09:17:00 PM
Magnesium as Mg (Total Recoverable)	4	mg/l	BH	1	200.7	08/13/2008 07:41:00 PM
Manganese as Mn (Dissolved)	0.34	mg/l	BH	0.003	200.7	08/15/2008 09:17:00 PM
Manganese as Mn (Total Recoverable)	0.34	mg/l	BH	0.003	200.7	08/13/2008 07:41:00 PM
Potassium as K (Dissolved)	2	mg/l	BH	1	200.7	08/15/2008 09:17:00 PM
Potassium as K (Total Recoverable)	2	mg/l	BH	1	200.7	08/13/2008 07:41:00 PM
Sodium as Na (Dissolved)	2	mg/l	BH	1	200.7	08/15/2008 09:17:00 PM
Sodium as Na (Total Recoverable)	2	mg/l	BH	1	200.7	08/13/2008 07:41:00 PM
Zinc as Zn (Dissolved)	0.09	mg/l	BH	0.01	200.7	08/15/2008 09:17:00 PM
Zinc as Zn (Total Recoverable)	0.09	mg/l	BH	0.01	200.7	08/13/2008 07:41:00 PM
Metals Batch#/Digestion Date	1730	-----	BH		200.2	08/11/2008 10:45:00 AM

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 115 7561506.207
Laboratory No.: 2008080082-22
Sample Name: MATRIX SPIKE OF 2008080082-14
Sample Date/Time: 08/06/2008 11:15:00
Collected by: MARK PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD SURFACE WATER 2008/2009						
Acidity as CaCO3	126	%[70-132]	RM	2	2310 B	08/15/2008 11:00:49 AM
Alkalinity Bicarbonate as HCO3	NA	-----	-----	-----	-----	-----
Alkalinity Carbonate as CO3	NA	-----	-----	-----	-----	-----
Alkalinity Total as CaCO3	102	% [77-116]	RM	1	2320B	08/18/2008 08:50:00 PM
Chloride as Cl	100	% [84-124]	MRK	1	300.0	08/17/2008 07:00:00 AM
Sulfate as SO4	108	% [84-124]	MRK	5	300.0	08/16/2008 05:17:00 PM
Hardness as CaCO3	NA	-----	-----	-----	-----	-----
Electrical Conductivity	NA	-----	-----	-----	-----	-----
pH	NA	-----	-----	-----	-----	-----
Total Dissolved Solids	NA	-----	-----	-----	-----	-----
Total Suspended Solids	NA	-----	-----	-----	-----	-----
Aluminum as Al (Dissolved)	103	% [81-117]	BH	0.05	200.7	08/15/2008 09:24:00 PM
Aluminum as Al (Total Recoverable)	109	% [82-128]	BH	0.03	200.7	08/13/2008 07:56:00 PM
Cadmium as Cd (Dissolved)	106	% [81-116]	BH	0.0001	200.8	08/18/2008 05:34:00 PM
Cadmium as Cd (Total Recoverable)	104	% [83-116]	BH	0.0001	200.8	08/19/2008 05:03:00 PM
Calcium as Ca (Dissolved)	106	% [78-122]	BH	1	200.7	08/15/2008 09:36:00 PM
Calcium as Ca (Total Recoverable)	113	% [71-130]	BH	1	200.7	08/13/2008 07:59:00 PM
Copper as Cu (Dissolved)	100	% [70-114]	BH	0.001	200.8	08/18/2008 05:34:00 PM
Copper as Cu (Total Recoverable)	97	% [70-117]	BH	0.001	200.8	08/19/2008 05:03:00 PM
Iron as Fe (Dissolved)	100	% [81-114]	BH	0.01	200.7	08/15/2008 09:24:00 PM
Iron as Fe (Total Recoverable)	108	% [82-124]	BH	0.01	200.7	08/13/2008 07:56:00 PM
Lead as Pb (Dissolved)	101	% [82-117]	BH	0.001	200.8	08/18/2008 05:34:00 PM
Lead as Pb (Total Recoverable)	99	% [81-121]	BH	0.001	200.8	08/19/2008 05:03:00 PM
Magnesium as Mg (Dissolved)	106	% [84-118]	BH	1	200.7	08/15/2008 09:36:00 PM
Magnesium as Mg (Total Recoverable)	112	% [77-126]	BH	1	200.7	08/13/2008 07:59:00 PM
Manganese as Mn (Dissolved)	100	% [89-113]	BH	0.003	200.7	08/15/2008 09:24:00 PM
Manganese as Mn (Total Recoverable)	108	% [78-121]	BH	0.003	200.7	08/13/2008 07:56:00 PM
Potassium as K (Dissolved)	101	% [85-120]	BH	1	200.7	08/15/2008 09:36:00 PM
Potassium as K (Total Recoverable)	106	% [86-125]	BH	1	200.7	08/13/2008 07:59:00 PM
Sodium as Na (Dissolved)	99	% [73-124]	BH	1	200.7	08/15/2008 09:36:00 PM
Sodium as Na (Total Recoverable)	109	% [70-130]	BH	1	200.7	08/13/2008 07:59:00 PM
Zinc as Zn (Dissolved)	103	% [87-111]	BH	0.01	200.7	08/15/2008 09:24:00 PM
Zinc as Zn (Total Recoverable)	107	% [84-121]	BH	0.01	200.7	08/13/2008 07:56:00 PM
Metals Batch#/Digestion Date	1730	-----	BH		200.2	08/11/2008 10:45:00 AM

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 115 7561506.207
Laboratory No.: 2008080082-23
Sample Name: METHOD BLANK
Sample Date/Time: ----- -----
Collected by: PREPARED BY LAB
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD SURFACE WATER 2008/2009						
Acidity as CaCO3	<2	mg/l	RM	2	2310 B	08/15/2008 11:05:50 AM
Alkalinity Bicarbonate as HCO3	<1	mg/l	RM	1	2320B	08/18/2008 08:50:00 PM
Alkalinity Carbonate as CO3	0	mg/l	RM	0	2320B	08/18/2008 08:50:00 PM
Alkalinity Total as CaCO3	<1	mg/l	RM	1	2320B	08/18/2008 08:50:00 PM
Chloride as Cl	<1	mg/l	MRK	1	300.0	08/16/2008 08:50:00 PM
Sulfate as SO4	<5	mg/l	MRK	5	300.0	08/15/2008 05:17:00 AM
Hardness as CaCO3	<7	mg/l	BH	7	2340B	09/12/2008 08:21:44 AM
Electrical Conductivity	<10	umhos/cm	CC	10	2510B	08/12/2008 05:55:00 PM
pH	NA	-----	-----	-----	-----	-----
Total Dissolved Solids	<20	mg/l	RM	20	2540C	08/11/2008 09:33:00 AM
Total Suspended Solids	<1	mg/l	RM	1	2540D	08/11/2008 04:43:20 PM
Aluminum as Al (Dissolved)	<0.05	mg/l	BH	0.05	200.7	08/15/2008 08:01:00 PM
Aluminum as Al (Total Recoverable)	<0.05	mg/l	BH	0.03	200.7	08/13/2008 07:28:00 PM
Cadmium as Cd (Dissolved)	<0.0001	mg/l	BH	0.0001	200.8	08/18/2008 03:20:00 PM
Cadmium as Cd (Total Recoverable)	<0.0001	mg/l	BH	0.0001	200.8	08/19/2008 04:20:00 PM
Calcium as Ca (Dissolved)	<1	mg/l	BH	1	200.7	08/15/2008 08:01:00 PM
Calcium as Ca (Total Recoverable)	<1	mg/l	BH	1	200.7	08/13/2008 07:28:00 PM
Copper as Cu (Dissolved)	<0.001	mg/l	BH	0.001	200.8	08/18/2008 03:20:00 PM
Copper as Cu (Total Recoverable)	<0.001	mg/l	BH	0.001	200.8	08/19/2008 04:20:00 PM
Iron as Fe (Dissolved)	<0.01	mg/l	BH	0.01	200.7	08/15/2008 08:01:00 PM
Iron as Fe (Total Recoverable)	<0.01	mg/l	BH	0.01	200.7	08/13/2008 07:28:00 PM
Lead as Pb (Dissolved)	<0.001	mg/l	BH	0.001	200.8	08/18/2008 03:20:00 PM
Lead as Pb (Total Recoverable)	<0.001	mg/l	BH	0.001	200.8	08/19/2008 04:20:00 PM
Magnesium as Mg (Dissolved)	<1	mg/l	BH	1	200.7	08/15/2008 08:01:00 PM
Magnesium as Mg (Total Recoverable)	<1	mg/l	BH	1	200.7	08/13/2008 07:28:00 PM
Manganese as Mn (Dissolved)	<0.003	mg/l	BH	0.003	200.7	08/15/2008 08:01:00 PM
Manganese as Mn (Total Recoverable)	<0.003	mg/l	BH	0.003	200.7	08/13/2008 07:28:00 PM
Potassium as K (Dissolved)	<1	mg/l	BH	1	200.7	08/15/2008 08:01:00 PM
Potassium as K (Total Recoverable)	<1	mg/l	BH	1	200.7	08/13/2008 07:28:00 PM
Sodium as Na (Dissolved)	<1	mg/l	BH	1	200.7	08/15/2008 08:01:00 PM
Sodium as Na (Total Recoverable)	<1	mg/l	BH	1	200.7	08/13/2008 07:28:00 PM
Zinc as Zn (Dissolved)	<0.01	mg/l	BH	0.01	200.7	08/15/2008 08:01:00 PM
Zinc as Zn (Total Recoverable)	<0.01	mg/l	BH	0.01	200.7	08/13/2008 07:28:00 PM
Metals Batch#/Digestion Date	1730	-----	BH		200.2	08/11/2008 10:45:00 AM

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 115 7561506.207
Laboratory No.: 2008080082-24
Sample Name: LABORATORY CONTROL SAMPLE
Sample Date/Time: ----- -----
Collected by: PREPARED BY LAB
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD SURFACE WATER 2008/2009						
Acidity as CaCO3	111	% [91-116]	RM	2	2310 B	08/15/2008 11:08:25 AM
Alkalinity Bicarbonate as HCO3	NA	-----	-----	-----	-----	-----
Alkalinity Carbonate as CO3	NA	-----	-----	-----	-----	-----
Alkalinity Total as CaCO3	103	% [89-110]	RM	1	2320B	08/18/2008 08:50:00 PM
Chloride as Cl	100	% [90-110]	MRK	1	300.0	08/16/2008 09:21:00 PM
Sulfate as SO4	104	% [90-110]	MRK	5	300.0	08/15/2008 05:47:00 AM
Hardness as CaCO3	NA	-----	-----	-----	-----	-----
Electrical Conductivity	96	% [92-120]	CC	10	2510B	08/12/2008 05:55:00 PM
pH	100	% [99-101]	ES	0.1-13.5	4500-H+-B	08/08/2008 04:50:00 PM
Total Dissolved Solids	100	% [90-106]	RM	20	2540C	08/11/2008 09:33:00 AM
Total Suspended Solids	100	% [71-129]	RM	10	2540D	08/11/2008 04:43:20 PM
Aluminum as Al (Dissolved)	102	% [86-112]	BH	0.05	200.7	08/15/2008 08:04:00 PM
Aluminum as Al (Total Recoverable)	108	% [88-115]	BH	0.03	200.7	08/13/2008 07:31:00 PM
Cadmium as Cd (Dissolved)	106	% [86-113]	BH	0.0001	200.8	08/18/2008 03:25:00 PM
Cadmium as Cd (Total Recoverable)	107	% [85-115]	BH	0.0001	200.8	08/19/2008 04:38:00 PM
Calcium as Ca (Dissolved)	102	% [91-114]	BH	1	200.7	08/15/2008 08:16:00 PM
Calcium as Ca (Total Recoverable)	103	% [91-115]	BH	1	200.7	08/13/2008 07:35:00 PM
Copper as Cu (Dissolved)	98	% [85-114]	BH	0.001	200.8	08/18/2008 03:25:00 PM
Copper as Cu (Total Recoverable)	104	% [85-115]	BH	0.001	200.8	08/19/2008 04:38:00 PM
Iron as Fe (Dissolved)	98	% [90-112]	BH	0.01	200.7	08/15/2008 08:04:00 PM
Iron as Fe (Total Recoverable)	106	% [91-115]	BH	0.01	200.7	08/13/2008 07:31:00 PM
Lead as Pb (Dissolved)	100	% [87-114]	BH	0.001	200.8	08/18/2008 03:25:00 PM
Lead as Pb (Total Recoverable)	103	% [85-115]	BH	0.001	200.8	08/19/2008 04:38:00 PM
Magnesium as Mg (Dissolved)	102	% [89-112]	BH	1	200.7	08/15/2008 08:16:00 PM
Magnesium as Mg (Total Recoverable)	106	% [90-115]	BH	1	200.7	08/13/2008 07:35:00 PM
Manganese as Mn (Dissolved)	100	% [92-114]	BH	0.003	200.7	08/15/2008 08:04:00 PM
Manganese as Mn (Total Recoverable)	108	% [94-115]	BH	0.003	200.7	08/13/2008 07:31:00 PM
Potassium as K (Dissolved)	103	% [86-114]	BH	1	200.7	08/15/2008 08:16:00 PM
Potassium as K (Total Recoverable)	102	% [87-115]	BH	1	200.7	08/13/2008 07:35:00 PM
Sodium as Na (Dissolved)	100	% [87-112]	BH	1	200.7	08/15/2008 08:16:00 PM
Sodium as Na (Total Recoverable)	106	% [87-115]	BH	1	200.7	08/13/2008 07:35:00 PM
Zinc as Zn (Dissolved)	100	% [89-113]	BH	0.01	200.7	08/15/2008 08:04:00 PM
Zinc as Zn (Total Recoverable)	105	% [84-121]	BH	0.01	200.7	08/13/2008 07:31:00 PM
Metals Batch#/Digestion Date	1730	-----	BH		200.2	08/11/2008 10:45:00 AM

New World Response and Restoration
Project or Site Name

115 7561506.207
Project Number

Mark F. Pearson
Sampler Name (Printed)

Allan R. Kirk
Project Manager, Report to

CHAIN OF CUSTODY RECORD

NORTHERN
Analytical Laboratories, Inc.

602 South 25th Street
Billings, Montana 59101
Ph: 406-254-7226 • Fax: 406-254-1389
nlabs@wtp.net

TetraTech
Report to (Firm or Agency)

851 Bridger Dr., Ste 6
Address

Bozeman MT 59715
City State Zip

582-8780
Phone Fax

VMK 8/8/8

DATE COLLECTED 2008	TIME COLLECTED	SAMPLE LOCATION OR DESCRIPTION	COMP OR GRAB	SAMPLE MATRIX	NO. OF CONTAINERS	ANALYSIS REQUIRED	NOTES	2008 LAB NUMBER 080082
8/4	1430	RR-MW-11	G	Water	2	See Table 12		1
	1600	RR-MW-10B						2
	1615	RR-MW-10A						3
	1800	RR-SB-16						4
8/5	1215	RR-EPA-11						5
	1430	RR-MW-1						6
	1735	RR-EPA-12						7
	1715	RR-Tracer 5						8
	1845	RR-MW-9B						9
	1900	RR-MW-9A						10
	1740	RR-EPA-12X						11
								12 84

Relinquished by:	Date	Time	Received by:
Mark F. Pearson	8/7/08	1400	Greyhound Bus Station
Relinquished by:	Date	Time	Received by:
BUS	8/8/08	1315	[illegible]
Relinquished by:	Date	Time	Received by:

Sheet 1 of 2

Project or Site Name

115 7561506A.207

Project Number

Sampler Name (Printed)

Project Manager, Report to

CHAIN OF CUSTODY RECORD

NORTHERN
Analytical Laboratories, Inc.

602 South 25th Street
Billings, Montana 59101
Ph: 406-254-7226 · Fax: 406-254-1389
nlabs@wtp.net

Report to (Firm or Agency)

Address

See Sheet 1 of 2

City State Zip

Phone Fax

DATE COLLECTED 2008	TIME COLLECTED	SAMPLE LOCATION OR DESCRIPTION	COMP OR GRAB	SAMPLE MATRIX	NO. OF CONTAINERS	ANALYSIS REQUIRED	NOTES	2008 LAB NUMBER 080082
8/6	930	RR-MW-3	G	Water	2	See Table 12		~~13~~ 12
	1030	RR-DCT-9	↓	↓	4	See Table 5	~~(I will fax to you)~~ Included	~~14~~ 13
	1115	RR-DCT-7			4			~~15~~ 14
	1300	RR-MW-2			2			~~16~~ 15
	1400	RR-FCGW-100			↓	See Table 12		8/8/08 ~~17~~ 16
	1445	RR-DCGW-103D						~~18~~ 17
	1515	RR-DCGW-103S						~~19~~ 18
								Dup1-~~20~~ 19
								MS6-~~21~~ 20
								13 Dup14-~~22~~ 21
								14 MS15-~~23~~ 22
								MB-~~24~~ 23
								LCS-~~25~~ 24

Relinquished by:	Date	Time	Received by:
Mark F. Pearson	8/7/08	1400	Greyhound Bus Station
Relinquished by: BUS	Date 8/8/08	Time 1315	Received by:
Relinquished by:	Date	Time	Received by:

Sheet 2 of 2

NORTHERN
Analytical Laboratories, Inc.

SAMPLE RECEIPT CHECKLIST

Dear Valued Client: This checklist documents the condition of your sample(s) as it (they) arrived at our lab. Please review it and familiarize yourself with its contents. Should you have any questions or comments, please contact us. Thank you for your use of our services.

Client Name: TT Bozeman

Project: New Cond

Laboratory Number(s): 2008080082

Checklist Completed by: SH 8/8/08 (Initials / Date)

Date/Time Received: 8/8/08 1315 (Date / Time)

Received by: SHS

Carrier Name: bus

Sample Type: H_2O

	YES	NO
1. Shipping container in good condition?	✓	
2. Custody seals present on shipping container? Condition: Intact ✓ Broken ____	✓	
3. Chain of custody present?	✓	
4. Chain of custody signed when relinquished and received?	✓	
5. Chain of custody agrees with sample labels?	✓	
6. Custody seals on sample bottles? Condition: Intact ____ Broken ____		✓
7. Samples in proper container/bottle?*	✓	
8. Sample containers intact?*	✓	
9. Sufficient sample volume for indicated test?*	✓	
10. Ice/Frozen Blue Ice present in shipping container? (circle one)	✓	
container temperature 1. 2.3 2. 1.1 3. ____ * (if <0 or>10)		
11. All samples rec'd within holding time?*	✓	
12. VOA vials have zero headspace? * (if contains >5mm headspace)	NA	
13. Trip Blank received?	✓	

	YES	NO
14. pH check performed by: SH		
15. Metals bottle(s) pH <2?	✓	
16. Nutrient bottle(s) pH <2?	NA	
17. Cyanide bottle(s) pH >12?		
18. Sulfide bottle(s) pH >9?		
19. TOC bottle(s) pH <2?		
20. Phenolics bottle(s) pH <2?		
21. Oil & grease bottle(s) pH <2? (checked by analyst)		
22. EPH/DRO bottle(s) pH <2? (checked by analyst)		
23. Volatiles (VOA) pH <2? (checked by analyst)		
24. Semivolatiles (525) pH <2? (checked by analyst)		
25. Other test types		
26. Client contacted?	✓	
27. Person contacted	A. Kirk	
28. Date contacted	8/8/08 email	

NOTES: **Samples may be affected when not transported at the temperature recommended by the EPA for the test you've selected. Please contact the lab if you have concerns about the temperature of your samples.**

*** Critical item - if marked "NO" contact lab manager.**

COMMENTS: looks good.

TABLE 5
SURFACE WATER ANALYTICAL REQUIREMENTS
2008/2009 Work Plan

Parameter	PQL (mg/L)[1]	EPA Method No.	Max. Holding Time
Physicochemical			
Specific Conductivity	None	2310B	28 days
pH	None	150.1	Upon arrival at lab
Total Dissolved Solids	None	2340C	7 days
Total Suspended Solids	None	160.2	7 days
Hardness	None	2340B	6 months
Acidity	None	305.1	14 days
Metals[2]			
Aluminum	0.05	200.8/200.7	6 months
Cadmium	0.0001	200.8/200.7	6 months
Copper	0.001	200.8/200.7	6 months
Iron	0.01	200.8/200.7	6 months
Lead	0.001	200.8/200.7	6 months
Manganese	0.003	200.8/200.7	6 months
Zinc	0.01	200.8/200.7	6 months
Common Cations[2]			
Calcium	1.0	200.8/200.7	6 months
Magnesium	1.0	200.8/200.7	6 months
Potassium	1.0	200.8/200.7	6 months
Sodium	1.0	200.8/200.7	6 months
Common Anions[2]			
Sulfate	None	375.2	28 Days
Bicarbonate	None	2320B	14 Days
Carbonate	None	2320B	14 Days
Chloride	None	325.3	28 Days

1 PQL = Practical Quantitation Limit in milligrams per liter (mg/L)
2 Surface water parameters will be analyzed as total recoverable (unfiltered); for the select stations shown in Table 2, both total and dissolved metals will be analyzed.

TABLE 12
GROUNDWATER ANALYTICAL REQUIREMENTS
2008/2009 Work Plan

Parameter	PQL (mg/l)[1]	EPA Method No.	Max. Holding Time
Physicochemical			
Specific Conductivity	None	2310B	28 days
pH	None	150.1	Upon arrival at lab
Total Dissolved Solids	None	2340C	7 days
Hardness	None	2340B	6 months
Acidity	None	305.1	14 days
Metals[2]			
Aluminum	0.05	200.8/200.7	6 months
Cadmium	0.0001	200.8/200.7	6 months
Copper	0.001	200.8/200.7	6 months
Iron	0.01	200.8/200.7	6 months
Lead	0.001	200.8/200.7	6 months
Manganese	0.003	200.8/200.7	6 months
Zinc	0.01	200.8/200.7	6 months
Common Cations[2]			
Calcium	1.0	200.8/200.7	6 months
Magnesium	1.0	200.8/200.7	6 months
Potassium	1.0	200.8/200.7	6 months
Sodium	1.0	200.8/200.7	6 months
Common Anions[2]			
Sulfate	None	375.2	28 Days
Bicarbonate	None	2320B	14 Days
Carbonate	None	2320B	14 Days
Chloride	None	325.3	28 Days

1 PQL = Practical Quantitation Limit in milligrams per liter (mg/L)
2 Groundwater parameters will be analyzed as dissolved constituents as filtered through a 0.45 micron filter

2.5 GLENGARRY CHANNEL RECONSTRUCTION

With the closure of the Glengarry Adit and the removal of the Glengarry waste dump in 2005, Fisher Creek was routed into its historic channel, leaving a relict channel that Fisher Creek was diverted into by the historic mining operation. This now abandoned channel, referred to as the Glengarry channel, continues to carry surface water run-off, is susceptible to erosion, and has steep, near-vertical streambanks. To prevent potential headcutting and erosion, several rock check dams will be

NORTHERN
Analytical Laboratories, Inc.

602 South 25th Street
P O Box 30315
Billings, MT 59107
Telephone: (406) 254-7226
Fax: (406) 254-1389

REPORT TO:	ATTN: ALLAN R. KIRK TETRA TECH, INC. 851 BRIDGER DRIVE, SUITE 6 BOZEMAN, MT 59715	**DATE:** **JOB NUMBER:** **PAGE:** **INVOICE NO.:**	September 25, 2008 87-911-12 1 of 28 8080134

REPORT OF: Water Analysis – New World Response & Restoration – Project No. 1157561506.207

CASE NARRATIVE:

On August 15, 2008, these water samples (laboratory numbers 2008080226-1 through -21) were received in our laboratory for analysis. Tests were conducted in accordance with *"Standard Methods for the Examination of Water and Wastewater"*, 20th Edition; EPA/600/R-93-100 *"Methods for the Determination of Inorganic Substances in Environmental Samples"*, EPA/600/R-94-111 *"Methods for the Determination of Metals in Environmental Samples"*, Supplement I; and Code of Federal Regulations, Title 40, Part 136.

The results of the analysis are shown on the following pages. A < sign indicates the value reported was the reporting limit for this sample using the method described. Concentrations of analyte, if present, below this were not quantifiable. Sample results are not corrected for analyte blank concentrations. Values in brackets are the quality control limits for the associated quality control test. RPS is the abbreviation for the relative percent difference.

For some samples, the total dissolved solids concentration exceeds the electrical conductivity. This is most likely due to the dissolved metal ion species present in the samples.

The condition of the samples upon receipt at the laboratory is noted on the attached sample receipt checklist. Chain of custody documentation is enclosed.

Footnotes used in this report include the following:

UJ- The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may be inaccurate or imprecise.

(3) The recovery or replication is outside the stated quality control limit. Corrective action was not required. The associated sample results do not require qualification.

(4) The recovery of this analyte in the matrix spike and/or its spike duplicate did not meet the quality control limits. The recovery of the analyte in the laboratory control sample met the control limits. This indicates the presence of a matrix interference in the sample. The associated sample results have been footnoted with a data qualifier.

Reviewed by _____
Kathleen A. Smit – Laboratory Manager

Attachments: Chain of Custody (2)
Sample Receipt Checklist
Table 12

nct

As a mutual protection to clients, the public and ourselves, all reports are submitted as the confidential property of our clients and authorization for publication of statements, conclusions or extracts from or regarding our reports is reserved pending our written approval. Test results apply specifically to the samples tested only. The entire report shall not be reproduced, except in full, without the written approval of the laboratory. Samples will be disposed of after testing is completed unless other arrangements are agreed to in writing.

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 1157561506.207
Laboratory No.: 2008080134-1
Sample Name: RR-DCGW-105
Sample Date/Time: 08/11/2008 15:30:00
Collected by: MARK F PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD GROUNDWATER 2008/2009						
Acidity as CaCO3	467	mg/l	RM	2	2310 B	08/22/2008 05:40:27 PM
Alkalinity Bicarbonate as HCO3	<1	mg/l	RM	1	2320B	08/20/2008 03:25:00 PM
Alkalinity Carbonate as CO3	0	mg/l	RM	0	2320B	08/20/2008 03:25:00 PM
Alkalinity Total as CaCO3	<1	mg/l	RM	1	2320B	08/20/2008 03:25:00 PM
Chloride as Cl	2	mg/l	MRK	1	300.0	08/20/2008 08:36:00 AM
Sulfate as SO4	572	mg/l	MRK	15	300.0	08/28/2008 12:37:00 AM
Hardness as CaCO3	64	mg/l	BH	7	2340B	08/22/2008 04:37:00 PM
Electrical Conductivity	1030	umhos/cm	MRK	10	2510B	08/28/2008 01:50:00 PM
pH	2.8	S.U.	ES	0.1-13.5	4500-H+-B	08/15/2008 03:00:00 PM
Total Dissolved Solids	1120	mg/l	RM	20	2540C	08/19/2008 09:11:00 AM
Aluminum as Al (Dissolved)	29.9	mg/l	BH	0.05	200.7	08/28/2008 02:33:00 PM
Cadmium as Cd (Dissolved)	0.0034	mg/l	DK	0.00001	200.8	08/26/2008 04:41:00 PM
Calcium as Ca (Dissolved)	14	mg/l	BH	1	200.7	08/22/2008 04:37:00 PM
Copper as Cu (Dissolved)	8.98	mg/l	BH	0.001	200.7	08/22/2008 04:37:00 PM
Iron as Fe (Dissolved)	112	mg/l	BH	0.01	200.7	08/28/2008 02:33:00 PM
Lead as Pb (Dissolved)	0.012	mg/l	DK	0.001	200.8	08/26/2008 04:41:00 PM
Magnesium as Mg (Dissolved)	7	mg/l	BH	1	200.7	08/22/2008 04:37:00 PM
Manganese as Mn (Dissolved)	1.16	mg/l	BH	0.003	200.7	08/22/2008 04:37:00 PM
Potassium as K (Dissolved)	2	mg/l	BH	1	200.7	08/22/2008 04:37:00 PM
Sodium as Na (Dissolved)	3	mg/l	BH	1	200.7	08/22/2008 04:37:00 PM
Zinc as Zn (Dissolved)	0.47	mg/l	BH	0.01	200.7	08/22/2008 04:37:00 PM
Cations	10.80	meq/l	---	0.30	1030F	
Anions	11.97	meq/l	---	0.38	1030F	
Cation/Anion Balance	5.14*	% [max 5%]	---	-----	AWWA/APHA	

Northern Analytical Laboratories, Inc.

***The concentrations of the major cations and anions used to calculate the cation/anion balance were verified with second analyses.**

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 1157561506.207
Laboratory No.: 2008080134-2
Sample Name: RR-TRACER 2
Sample Date/Time: 08/11/2008 18:00:00
Collected by: MARK F PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD GROUNDWATER 2008/2009						
Acidity as CaCO3	544	mg/l	RM	2	2310 B	08/22/2008 05:48:36 PM
Alkalinity Bicarbonate as HCO3	<1	mg/l	RM	1	2320B	08/20/2008 03:25:00 PM
Alkalinity Carbonate as CO3	0	mg/l	RM	0	2320B	08/20/2008 03:25:00 PM
Alkalinity Total as CaCO3	<1	mg/l	RM	1	2320B	08/20/2008 03:25:00 PM
Chloride as Cl	3	mg/l	MRK	1	300.0	08/20/2008 06:25:00 PM
Sulfate as SO4	698	mg/l	MRK	25	300.0	08/22/2008 04:01:00 AM
Hardness as CaCO3	53	mg/l	BH	7	2340B	08/22/2008 04:43:00 PM
Electrical Conductivity	1030	umhos/cm	MRK	10	2510B	08/28/2008 01:50:00 PM
pH	3.8	S.U.	ES	0.1-13.5	4500-H+-B	08/15/2008 03:00:00 PM
Total Dissolved Solids	1090	mg/l	RM	20	2540C	08/19/2008 09:11:00 AM
Aluminum as Al (Dissolved)	71.7	mg/l	BH	0.05	200.7	08/28/2008 02:39:00 PM
Cadmium as Cd (Dissolved)	0.0012	mg/l	DK	0.00001	200.8	08/26/2008 04:52:00 PM
Calcium as Ca (Dissolved)	8	mg/l	BH	1	200.7	08/22/2008 04:43:00 PM
Copper as Cu (Dissolved)	4.08	mg/l	BH	0.001	200.7	08/22/2008 04:43:00 PM
Iron as Fe (Dissolved)	92.0	mg/l	BH	0.01	200.7	08/28/2008 02:39:00 PM
Lead as Pb (Dissolved)	<0.001	mg/l	DK	0.001	200.8	08/26/2008 04:52:00 PM
Magnesium as Mg (Dissolved)	8	mg/l	BH	1	200.7	08/22/2008 04:43:00 PM
Manganese as Mn (Dissolved)	0.53	mg/l	BH	0.003	200.7	08/22/2008 04:43:00 PM
Potassium as K (Dissolved)	4	mg/l	BH	1	200.7	08/22/2008 04:43:00 PM
Sodium as Na (Dissolved)	3	mg/l	BH	1	200.7	08/22/2008 04:43:00 PM
Zinc as Zn (Dissolved)	0.19	mg/l	BH	0.01	200.7	08/22/2008 04:43:00 PM
Cations	12.17	meq/l	---	0.30	1030F	
Anions	14.62	meq/l	---	0.38	1030F	
Cation/Anion Balance	9.15*	% [max 5%]	---	-----	AWWA/APHA	

Northern Analytical Laboratories, Inc.

***The concentrations of the major cations and anions used to calculate the cation/anion balance were verified with second analyses.**

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 1157561506.207
Laboratory No.: 2008080134-3
Sample Name: RR-DCGW-111S
Sample Date/Time: 08/12/2008 08:45:00
Collected by: MARK F PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD GROUNDWATER 2008/2009						
Acidity as CaCO3	54	mg/l	RM	2	2310 B	08/22/2008 05:53:19 PM
Alkalinity Bicarbonate as HCO3	<1	mg/l	RM	1	2320B	08/20/2008 03:25:00 PM
Alkalinity Carbonate as CO3	0	mg/l	RM	0	2320B	08/20/2008 03:25:00 PM
Alkalinity Total as CaCO3	<1	mg/l	RM	1	2320B	08/20/2008 03:25:00 PM
Chloride as Cl	3	mg/l	MRK	1	300.0	08/20/2008 06:55:00 PM
Sulfate as SO4	794	mg/l	MRK	25	300.0	08/22/2008 04:31:00 AM
Hardness as CaCO3	707	mg/l	BH	7	2340B	08/28/2008 02:42:00 PM
Electrical Conductivity	1230	umhos/cm	MRK	10	2510B	08/28/2008 01:50:00 PM
pH	4.5	S.U.	ES	0.1-13.5	4500-H+-B	08/15/2008 03:00:00 PM
Total Dissolved Solids	1200	mg/l	RM	20	2540C	08/19/2008 09:11:00 AM
Aluminum as Al (Dissolved)	3.63	mg/l	BH	0.05	200.7	08/22/2008 04:48:00 PM
Cadmium as Cd (Dissolved)	0.020	mg/l	DK	0.00001	200.8	08/26/2008 04:58:00 PM
Calcium as Ca (Dissolved)	242	mg/l	BH	1	200.7	08/28/2008 02:42:00 PM
Copper as Cu (Dissolved)	5.16	mg/l	BH	0.001	200.7	08/22/2008 04:48:00 PM
Iron as Fe (Dissolved)	4.70	mg/l	BH	0.01	200.7	08/22/2008 04:48:00 PM
Lead as Pb (Dissolved)	0.01	mg/l	DK	0.001	200.8	08/26/2008 04:58:00 PM
Magnesium as Mg (Dissolved)	25	mg/l	BH	1	200.7	08/22/2008 04:48:00 PM
Manganese as Mn (Dissolved)	4.90	mg/l	BH	0.003	200.7	08/22/2008 04:48:00 PM
Potassium as K (Dissolved)	6	mg/l	BH	1	200.7	08/22/2008 04:48:00 PM
Sodium as Na (Dissolved)	6	mg/l	BH	1	200.7	08/22/2008 04:48:00 PM
Zinc as Zn (Dissolved)	2.66	mg/l	BH	0.01	200.7	08/22/2008 04:48:00 PM
Cations	15.63	meq/l	---	0.30	1030F	
Anions	16.62	meq/l	---	0.38	1030F	
Cation/Anion Balance	3.07	% [max 5%]	---	-----	AWWA/APHA	

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 1157561506.207
Laboratory No.: 2008080134-4
Sample Name: RR-DCGW-111D
Sample Date/Time: 08/12/2008 09:00:00
Collected by: MARK F PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD GROUNDWATER 2008/2009						
Acidity as CaCO3	124	mg/l	RM	2	2310 B	08/22/2008 06:00:57 PM
Alkalinity Bicarbonate as HCO3	32	mg/l	RM	1	2320B	08/20/2008 03:25:00 PM
Alkalinity Carbonate as CO3	0	mg/l	RM	0	2320B	08/20/2008 03:25:00 PM
Alkalinity Total as CaCO3	26	mg/l	RM	1	2320B	08/20/2008 03:25:00 PM
Chloride as Cl	1	mg/l	MRK	1	300.0	08/20/2008 07:26:00 PM
Sulfate as SO4	780	mg/l	MRK	25	300.0	08/22/2008 08:15:00 PM
Hardness as CaCO3	648	mg/l	BH	7	2340B	08/28/2008 02:45:00 PM
Electrical Conductivity	1270	umhos/cm	MRK	10	2510B	08/28/2008 01:50:00 PM
pH	5.2	S.U.	ES	0.1-13.5	4500-H+-B	08/15/2008 03:00:00 PM
Total Dissolved Solids	1300	mg/l	RM	20	2540C	08/19/2008 09:11:00 AM
Aluminum as Al (Dissolved)	8.24	mg/l	BH	0.05	200.7	08/22/2008 05:00:00 PM
Cadmium as Cd (Dissolved)	0.020	mg/l	DK	0.00001	200.8	08/26/2008 05:04:00 PM
Calcium as Ca (Dissolved)	210	mg/l	BH	1	200.7	08/28/2008 02:45:00 PM
Copper as Cu (Dissolved)	12.2	mg/l	BH	0.001	200.7	08/28/2008 02:45:00 PM
Iron as Fe (Dissolved)	45.3	mg/l	BH	0.01	200.7	08/22/2008 05:00:00 PM
Lead as Pb (Dissolved)	0.008	mg/l	DK	0.001	200.8	08/26/2008 05:04:00 PM
Magnesium as Mg (Dissolved)	30	mg/l	BH	1	200.7	08/22/2008 05:00:00 PM
Manganese as Mn (Dissolved)	6.14	mg/l	BH	0.003	200.7	08/22/2008 05:00:00 PM
Potassium as K (Dissolved)	4	mg/l	BH	1	200.7	08/22/2008 05:00:00 PM
Sodium as Na (Dissolved)	5	mg/l	BH	1	200.7	08/22/2008 05:00:00 PM
Zinc as Zn (Dissolved)	2.30	mg/l	BH	0.01	200.7	08/22/2008 05:00:00 PM
Cations	15.75	meq/l	---	0.30	1030F	
Anions	16.79	meq/l	---	0.38	1030F	
Cation/Anion Balance	3.20	% [max 5%]	---	----	AWWA/APHA	

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 1157561506.207
Laboratory No.: 2008080134-5
Sample Name: RR-DCGW-104
Sample Date/Time: 08/12/2008 09:50:00
Collected by: MARK F PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD GROUNDWATER 2008/2009						
Acidity as CaCO3	1090	mg/l	RM	2	2310 B	08/22/2008 06:14:45 PM
Alkalinity Bicarbonate as HCO3	<1	mg/l	RM	1	2320B	08/20/2008 03:25:00 PM
Alkalinity Carbonate as CO3	0	mg/l	RM	0	2320B	08/20/2008 03:25:00 PM
Alkalinity Total as CaCO3	<1	mg/l	RM	1	2320B	08/20/2008 03:25:00 PM
Chloride as Cl	3	mg/l	MRK	1	300.0	08/20/2008 07:56:00 PM
Sulfate as SO4	1770	mg/l	MRK	50	300.0	08/22/2008 08:46:00 AM
Hardness as CaCO3	575	mg/l	BH	7	2340B	08/22/2008 05:03:00 PM
Electrical Conductivity	2740	umhos/cm	MRK	10	2510B	08/28/2008 01:50:00 PM
pH	2.5	S.U.	ES	0.1-13.5	4500-H+-B	08/15/2008 03:00:00 PM
Total Dissolved Solids	3320	mg/l	RM	20	2540C	08/19/2008 09:11:00 AM
Aluminum as Al (Dissolved)	82.7	mg/l	BH	0.05	200.7	08/28/2008 02:48:00 PM
Cadmium as Cd (Dissolved)	0.023	mg/l	DK	0.00001	200.8	08/26/2008 05:10:00 PM
Calcium as Ca (Dissolved)	128	mg/l	BH	1	200.7	08/22/2008 05:03:00 PM
Copper as Cu (Dissolved)	33.8	mg/l	BH	0.001	200.7	08/28/2008 02:48:00 PM
Iron as Fe (Dissolved)	120	mg/l	BH	0.01	200.7	08/28/2008 02:48:00 PM
Lead as Pb (Dissolved)	<0.001	mg/l	DK	0.001	200.8	08/26/2008 05:10:00 PM
Magnesium as Mg (Dissolved)	62	mg/l	BH	1	200.7	08/22/2008 05:03:00 PM
Manganese as Mn (Dissolved)	11.3	mg/l	BH	0.003	200.7	08/22/2008 05:03:00 PM
Potassium as K (Dissolved)	<1	mg/l	BH	1	200.7	08/22/2008 05:03:00 PM
Sodium as Na (Dissolved)	4	mg/l	BH	1	200.7	08/22/2008 05:03:00 PM
Zinc as Zn (Dissolved)	3.91	mg/l	BH	0.01	200.7	08/22/2008 05:03:00 PM
Cations	33.46	meq/l	---	0.30	1030F	
Anions	36.94	meq/l	---	0.38	1030F	
Cation/Anion Balance	4.93	% [max 5%]	---	-----	AWWA/APHA	

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 1157561506.207
Laboratory No.: 2008080134-6
Sample Name: RR-DCGW-137
Sample Date/Time: 08/12/2008 11:40:00
Collected by: MARK F PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD GROUNDWATER 2008/2009						
Acidity as CaCO3	<2 UJ	mg/l	RM	2	2310 B	08/22/2008 06:16:16 PM
Alkalinity Bicarbonate as HCO3	142	mg/l	RM	1	2320B	08/20/2008 03:25:00 PM
Alkalinity Carbonate as CO3	0	mg/l	RM	0	2320B	08/20/2008 03:25:00 PM
Alkalinity Total as CaCO3	117	mg/l	RM	1	2320B	08/20/2008 03:25:00 PM
Chloride as Cl	1	mg/l	MRK	1	300.0	08/20/2008 08:27:00 PM
Sulfate as SO4	43	mg/l	MRK	5	300.0	08/20/2008 08:27:00 PM
Hardness as CaCO3	116	mg/l	BH	7	2340B	08/22/2008 05:06:00 PM
Electrical Conductivity	234	umhos/cm	MRK	10	2510B	08/28/2008 01:50:00 PM
pH	7.9	S.U.	ES	0.1-13.5	4500-H+-B	08/15/2008 03:00:00 PM
Total Dissolved Solids	180	mg/l	RM	20	2540C	08/19/2008 09:11:00 AM
Aluminum as Al (Dissolved)	<0.05	mg/l	BH	0.05	200.7	08/22/2008 05:06:00 PM
Cadmium as Cd (Dissolved)	<0.0001	mg/l	DK	0.00001	200.8	08/26/2008 05:16:00 PM
Calcium as Ca (Dissolved)	40	mg/l	BH	1	200.7	08/22/2008 05:06:00 PM
Copper as Cu (Dissolved)	0.001	mg/l	DK	0.001	200.8	08/27/2008 01:40:00 PM
Iron as Fe (Dissolved)	0.04	mg/l	BH	0.01	200.7	08/22/2008 05:06:00 PM
Lead as Pb (Dissolved)	<0.001	mg/l	DK	0.001	200.8	08/26/2008 05:16:00 PM
Magnesium as Mg (Dissolved)	4	mg/l	BH	1	200.7	08/22/2008 05:06:00 PM
Manganese as Mn (Dissolved)	0.092	mg/l	BH	0.003	200.7	08/22/2008 05:06:00 PM
Potassium as K (Dissolved)	1	mg/l	BH	1	200.7	08/22/2008 05:06:00 PM
Sodium as Na (Dissolved)	4	mg/l	BH	1	200.7	08/22/2008 05:06:00 PM
Zinc as Zn (Dissolved)	<0.01	mg/l	BH	0.01	200.7	08/22/2008 05:06:00 PM
Cations	2.52	meq/l	---	0.30	1030F	
Anions	3.24	meq/l	---	0.38	1030F	
Cation/Anion Balance	0.72*	[max 0.20]	---	-----	AWWA/APHA	

Northern Analytical Laboratories, Inc.

***The concentrations of the major cations and anions used to calculate the cation/anion balance were verified with second analyses.**

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 1157561506.207
Laboratory No.: 2008080134-7
Sample Name: RR-DCGW-136
Sample Date/Time: 08/12/2008 12:15:00
Collected by: MARK F PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD GROUNDWATER 2008/2009						
Acidity as CaCO3	45	mg/l	RM	2	2310 B	08/22/2008 06:23:21 PM
Alkalinity Bicarbonate as HCO3	<1	mg/l	RM	1	2320B	08/20/2008 03:25:00 PM
Alkalinity Carbonate as CO3	0	mg/l	RM	0	2320B	08/20/2008 03:25:00 PM
Alkalinity Total as CaCO3	<1	mg/l	RM	1	2320B	08/20/2008 03:25:00 PM
Chloride as Cl	2	mg/l	MRK	1	300.0	08/20/2008 09:28:00 PM
Sulfate as SO4	177	mg/l	MRK	5	300.0	08/20/2008 09:28:00 PM
Hardness as CaCO3	177	mg/l	BH	7	2340B	08/22/2008 05:15:00 PM
Electrical Conductivity	321	umhos/cm	MRK	10	2510B	08/28/2008 01:50:00 PM
pH	4.6	S.U.	ES	0.1-13.5	4500-H+-B	08/15/2008 03:00:00 PM
Total Dissolved Solids	292	mg/l	RM	20	2540C	08/19/2008 09:11:00 AM
Aluminum as Al (Dissolved)	2.22	mg/l	BH	0.05	200.7	08/22/2008 05:15:00 PM
Cadmium as Cd (Dissolved)	0.0028	mg/l	DK	0.00001	200.8	08/26/2008 05:30:00 PM
Calcium as Ca (Dissolved)	56	mg/l	BH	1	200.7	08/22/2008 05:15:00 PM
Copper as Cu (Dissolved)	1.66	mg/l	BH	0.001	200.7	08/22/2008 05:15:00 PM
Iron as Fe (Dissolved)	<0.01	mg/l	BH	0.01	200.7	08/22/2008 05:15:00 PM
Lead as Pb (Dissolved)	<0.001	mg/l	DK	0.001	200.8	08/26/2008 05:30:00 PM
Magnesium as Mg (Dissolved)	9	mg/l	BH	1	200.7	08/22/2008 05:15:00 PM
Manganese as Mn (Dissolved)	0.90	mg/l	BH	0.003	200.7	08/22/2008 05:15:00 PM
Potassium as K (Dissolved)	1	mg/l	BH	1	200.7	08/22/2008 05:15:00 PM
Sodium as Na (Dissolved)	2	mg/l	BH	1	200.7	08/22/2008 05:15:00 PM
Zinc as Zn (Dissolved)	0.37	mg/l	BH	0.01	200.7	08/22/2008 05:15:00 PM
Cations	4.55	meq/l	---	0.30	1030F	
Anions	3.74	meq/l	---	0.38	1030F	
Cation/Anion Balance	0.81*	[max 0.20]	---	-----	AWWA/APHA	

Northern Analytical Laboratories, Inc.

***The concentrations of the major cations and anions used to calculate the cation/anion balance were verified with second analyses.**

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 1157561506.207
Laboratory No.: 2008080134-8
Sample Name: RR-DCGW-101S
Sample Date/Time: 08/12/2008 12:50:00
Collected by: MARK F PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD GROUNDWATER 2008/2009						
Acidity as CaCO3	25	mg/l	RM	2	2310 B	08/22/2008 06:26:19 PM
Alkalinity Bicarbonate as HCO3	<1	mg/l	RM	1	2320B	08/20/2008 03:25:00 PM
Alkalinity Carbonate as CO3	0	mg/l	RM	0	2320B	08/20/2008 03:25:00 PM
Alkalinity Total as CaCO3	<1	mg/l	RM	1	2320B	08/20/2008 03:25:00 PM
Chloride as Cl	<1	mg/l	MRK	1	300.0	08/20/2008 09:58:00 PM
Sulfate as SO4	98	mg/l	MRK	5	300.0	08/20/2008 09:58:00 PM
Hardness as CaCO3	81	mg/l	BH	7	2340B	08/22/2008 05:18:00 PM
Electrical Conductivity	207	umhos/cm	MRK	10	2510B	08/28/2008 01:50:00 PM
pH	4.5	S.U.	ES	0.1-13.5	4500-H+-B	08/15/2008 03:00:00 PM
Total Dissolved Solids	164	mg/l	RM	20	2540C	08/19/2008 09:11:00 AM
Aluminum as Al (Dissolved)	1.79	mg/l	BH	0.05	200.7	08/22/2008 05:18:00 PM
Cadmium as Cd (Dissolved)	0.0004	mg/l	DK	0.00001	200.8	08/26/2008 05:47:00 PM
Calcium as Ca (Dissolved)	24	mg/l	BH	1	200.7	08/22/2008 05:18:00 PM
Copper as Cu (Dissolved)	0.11	mg/l	DK	0.001	200.8	08/27/2008 01:54:00 PM
Iron as Fe (Dissolved)	<0.01	mg/l	BH	0.01	200.7	08/22/2008 05:18:00 PM
Lead as Pb (Dissolved)	0.002	mg/l	DK	0.001	200.8	08/26/2008 05:47:00 PM
Magnesium as Mg (Dissolved)	5	mg/l	BH	1	200.7	08/22/2008 05:18:00 PM
Manganese as Mn (Dissolved)	0.18	mg/l	BH	0.003	200.7	08/22/2008 05:18:00 PM
Potassium as K (Dissolved)	1	mg/l	BH	1	200.7	08/22/2008 05:18:00 PM
Sodium as Na (Dissolved)	2	mg/l	BH	1	200.7	08/22/2008 05:18:00 PM
Zinc as Zn (Dissolved)	0.06	mg/l	BH	0.01	200.7	08/22/2008 05:18:00 PM
Cations	2.22	meq/l	---	0.30	1030F	
Anions	2.04	meq/l	---	0.38	1030F	
Cation/Anion Balance	0.18	[max 0.20]	---	-----	AWWA/APHA	

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 1157561506.207
Laboratory No.: 2008080134-9
Sample Name: RR-DCGW-101D
Sample Date/Time: 08/12/2008 13:00:00
Collected by: MARK F PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD GROUNDWATER 2008/2009						
Acidity as CaCO3	<2	mg/l	RM	2	2310 B	08/22/2008 06:28:41 PM
Alkalinity Bicarbonate as HCO3	82	mg/l	RM	1	2320B	08/20/2008 03:25:00 PM
Alkalinity Carbonate as CO3	0	mg/l	RM	0	2320B	08/20/2008 03:25:00 PM
Alkalinity Total as CaCO3	67	mg/l	RM	1	2320B	08/20/2008 03:25:00 PM
Chloride as Cl	<1	mg/l	MRK	1	300.0	08/21/2008 12:00:00 AM
Sulfate as SO4	127	mg/l	MRK	5	300.0	08/21/2008 12:00:00 AM
Hardness as CaCO3	196	mg/l	BH	7	2340B	09/10/2008 01:55:00 PM
Electrical Conductivity	381	umhos/cm	MRK	10	2510B	08/28/2008 01:50:00 PM
pH	7.6	S.U.	ES	0.1-13.5	4500-H+-B	08/15/2008 03:00:00 PM
Total Dissolved Solids	282	mg/l	RM	20	2540C	08/19/2008 09:11:00 AM
Aluminum as Al (Dissolved)	<0.05	mg/l	BH	0.05	200.7	08/22/2008 05:21:00 PM
Cadmium as Cd (Dissolved)	<0.0001	mg/l	DK	0.00001	200.8	08/26/2008 05:53:00 PM
Calcium as Ca (Dissolved)	62	mg/l	BH	1	200.7	09/10/2008 01:55:00 PM
Copper as Cu (Dissolved)	<0.001	mg/l	DK	0.001	200.8	08/27/2008 01:57:00 PM
Iron as Fe (Dissolved)	0.01	mg/l	BH	0.01	200.7	08/22/2008 05:21:00 PM
Lead as Pb (Dissolved)	<0.001	mg/l	DK	0.001	200.8	08/26/2008 05:53:00 PM
Magnesium as Mg (Dissolved)	10	mg/l	BH	1	200.7	09/10/2008 01:55:00 PM
Manganese as Mn (Dissolved)	0.42	mg/l	BH	0.003	200.7	08/22/2008 05:21:00 PM
Potassium as K (Dissolved)	2	mg/l	BH	1	200.7	09/10/2008 01:55:00 PM
Sodium as Na (Dissolved)	3	mg/l	BH	1	200.7	09/10/2008 01:55:00 PM
Zinc as Zn (Dissolved)	<0.01	mg/l	BH	0.01	200.7	08/22/2008 05:21:00 PM
Cations	4.10	meq/l	---	0.30	1030F	
Anions	3.98	meq/l	---	0.38	1030F	
Cation/Anion Balance	1.42	% [max 2%]	---	-----	AWWA/APHA	

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 1157561506.207
Laboratory No.: 2008080134-10
Sample Name: RR-DCGW-107
Sample Date/Time: 08/12/2008 15:30:00
Collected by: MARK F PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD GROUNDWATER 2008/2009						
Acidity as CaCO3	<2	mg/l	RM	2	2310 B	08/22/2008 06:33:34 PM
Alkalinity Bicarbonate as HCO3	148	mg/l	RM	1	2320B	08/20/2008 03:25:00 PM
Alkalinity Carbonate as CO3	0	mg/l	RM	0	2320B	08/20/2008 03:25:00 PM
Alkalinity Total as CaCO3	122	mg/l	RM	1	2320B	08/20/2008 03:25:00 PM
Chloride as Cl	<1	mg/l	MRK	1	300.0	08/21/2008 12:31:00 AM
Sulfate as SO4	240	mg/l	MRK	5	300.0	08/21/2008 12:31:00 AM
Hardness as CaCO3	312	mg/l	BH	7	2340B	08/22/2008 05:24:00 PM
Electrical Conductivity	663	umhos/cm	MRK	10	2510B	08/28/2008 01:50:00 PM
pH	7.5	S.U.	ES	0.1-13.5	4500-H+-B	08/15/2008 03:00:00 PM
Total Dissolved Solids	468	mg/l	RM	20	2540C	08/19/2008 09:11:00 AM
Aluminum as Al (Dissolved)	<0.05	mg/l	BH	0.05	200.7	08/22/2008 05:24:00 PM
Cadmium as Cd (Dissolved)	0.0001	mg/l	DK	0.00001	200.8	08/26/2008 05:59:00 PM
Calcium as Ca (Dissolved)	102	mg/l	BH	1	200.7	08/22/2008 05:24:00 PM
Copper as Cu (Dissolved)	<0.001	mg/l	DK	0.001	200.8	08/27/2008 02:00:00 PM
Iron as Fe (Dissolved)	1.30	mg/l	BH	0.01	200.7	08/22/2008 05:24:00 PM
Lead as Pb (Dissolved)	<0.001	mg/l	DK	0.001	200.8	08/26/2008 05:59:00 PM
Magnesium as Mg (Dissolved)	14	mg/l	BH	1	200.7	08/22/2008 05:24:00 PM
Manganese as Mn (Dissolved)	1.43	mg/l	BH	0.003	200.7	08/22/2008 05:24:00 PM
Potassium as K (Dissolved)	6	mg/l	BH	1	200.7	08/22/2008 05:24:00 PM
Sodium as Na (Dissolved)	23	mg/l	BH	1	200.7	08/22/2008 05:24:00 PM
Zinc as Zn (Dissolved)	<0.01	mg/l	BH	0.01	200.7	08/22/2008 05:24:00 PM
Cations	7.40	meq/l	---	0.30	1030F	
Anions	7.44	meq/l	---	0.38	1030F	
Cation/Anion Balance	0.27	% [max 2%]	---	-----	AWWA/APHA	

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 1157561506.207
Laboratory No.: 2008080134-11
Sample Name: RR-DCGW-108
Sample Date/Time: 08/12/2008 15:50:00
Collected by: MARK F PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD GROUNDWATER 2008/2009						
Acidity as CaCO3	27	mg/l	RM	2	2310 B	08/22/2008 06:36:58 PM
Alkalinity Bicarbonate as HCO3	<1	mg/l	RM	1	2320B	08/20/2008 03:25:00 PM
Alkalinity Carbonate as CO3	0	mg/l	RM	0	2320B	08/20/2008 03:25:00 PM
Alkalinity Total as CaCO3	<1	mg/l	RM	1	2320B	08/20/2008 03:25:00 PM
Chloride as Cl	<1	mg/l	MRK	1	300.0	08/21/2008 01:01:00 AM
Sulfate as SO4	88	mg/l	MRK	5	300.0	08/21/2008 01:01:00 AM
Hardness as CaCO3	71	mg/l	BH	7	2340B	08/22/2008 05:27:00 PM
Electrical Conductivity	197	umhos/cm	MRK	10	2510B	08/28/2008 01:50:00 PM
pH	4.5	S.U.	ES	0.1-13.5	4500-H+-B	08/15/2008 03:00:00 PM
Total Dissolved Solids	159	mg/l	RM	20	2540C	08/19/2008 09:11:00 AM
Aluminum as Al (Dissolved)	1.02	mg/l	BH	0.05	200.7	08/22/2008 05:27:00 PM
Cadmium as Cd (Dissolved)	0.0010	mg/l	DK	0.00001	200.8	08/26/2008 06:18:00 PM
Calcium as Ca (Dissolved)	22	mg/l	BH	1	200.7	08/22/2008 05:27:00 PM
Copper as Cu (Dissolved)	0.59	mg/l	BH	0.001	200.7	08/22/2008 05:27:00 PM
Iron as Fe (Dissolved)	0.20	mg/l	BH	0.01	200.7	08/22/2008 05:27:00 PM
Lead as Pb (Dissolved)	<0.001	mg/l	DK	0.001	200.8	08/26/2008 06:18:00 PM
Magnesium as Mg (Dissolved)	4	mg/l	BH	1	200.7	08/22/2008 05:27:00 PM
Manganese as Mn (Dissolved)	0.47	mg/l	BH	0.003	200.7	08/22/2008 05:27:00 PM
Potassium as K (Dissolved)	1	mg/l	BH	1	200.7	08/22/2008 05:27:00 PM
Sodium as Na (Dissolved)	3	mg/l	BH	1	200.7	08/22/2008 05:27:00 PM
Zinc as Zn (Dissolved)	0.18	mg/l	BH	0.01	200.7	08/22/2008 05:27:00 PM
Cations	2.12	meq/l	---	0.30	1030F	
Anions	1.83	meq/l	---	0.38	1030F	
Cation/Anion Balance	0.29*	[max 0.20]	---	-----	AWWA/APHA	

Northern Analytical Laboratories, Inc.

***The concentrations of the major cations and anions used to calculate the cation/anion balance were verified with second analyses.**

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 1157561506.207
Laboratory No.: 2008080134-12
Sample Name: RR-DCGW-138
Sample Date/Time: 08/12/2008 17:00:00
Collected by: MARK F PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD GROUNDWATER 2008/2009						
Acidity as CaCO3	<2	mg/l	RM	2	2310 B	08/22/2008 06:40:11 PM
Alkalinity Bicarbonate as HCO3	37	mg/l	RM	1	2320B	08/20/2008 03:25:00 PM
Alkalinity Carbonate as CO3	0	mg/l	RM	0	2320B	08/20/2008 03:25:00 PM
Alkalinity Total as CaCO3	30	mg/l	RM	1	2320B	08/20/2008 03:25:00 PM
Chloride as Cl	<1	mg/l	MRK	1	300.0	08/21/2008 02:02:00 AM
Sulfate as SO4	70	mg/l	MRK	5	300.0	08/21/2008 02:02:00 AM
Hardness as CaCO3	106	mg/l	BH	7	2340B	08/22/2008 05:43:00 PM
Electrical Conductivity	196	umhos/cm	MRK	10	2510B	08/28/2008 01:50:00 PM
pH	6.5	S.U.	ES	0.1-13.5	4500-H+-B	08/15/2008 03:00:00 PM
Total Dissolved Solids	127	mg/l	RM	20	2540C	08/19/2008 09:11:00 AM
Aluminum as Al (Dissolved)	<0.05	mg/l	BH	0.05	200.7	08/22/2008 05:43:00 PM
Cadmium as Cd (Dissolved)	0.0002	mg/l	DK	0.00001	200.8	08/26/2008 06:29:00 PM
Calcium as Ca (Dissolved)	36	mg/l	BH	1	200.7	08/22/2008 05:43:00 PM
Copper as Cu (Dissolved)	0.005	mg/l	DK	0.001	200.8	08/26/2008 06:29:00 PM
Iron as Fe (Dissolved)	<0.01	mg/l	BH	0.01	200.7	08/22/2008 05:43:00 PM
Lead as Pb (Dissolved)	<0.001	mg/l	DK	0.001	200.8	08/26/2008 06:29:00 PM
Magnesium as Mg (Dissolved)	4	mg/l	BH	1	200.7	08/22/2008 05:43:00 PM
Manganese as Mn (Dissolved)	<0.003	mg/l	BH	0.003	200.7	08/22/2008 05:43:00 PM
Potassium as K (Dissolved)	<1	mg/l	BH	1	200.7	08/22/2008 05:43:00 PM
Sodium as Na (Dissolved)	<1	mg/l	BH	1	200.7	08/22/2008 05:43:00 PM
Zinc as Zn (Dissolved)	0.05	mg/l	BH	0.01	200.7	08/22/2008 05:43:00 PM
Cations	2.13	meq/l	---	0.30	1030F	
Anions	2.06	meq/l	---	0.38	1030F	
Cation/Anion Balance	0.07	[max 0.20]	---	----	AWWA/APHA	

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 1157561506.207
Laboratory No.: 2008080134-13
Sample Name: RR-DCGW-133
Sample Date/Time: 08/12/2008 17:50:00
Collected by: MARK F PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD GROUNDWATER 2008/2009						
Acidity as CaCO3	224	mg/l	RM	2	2310 B	08/22/2008 06:43:43 PM
Alkalinity Bicarbonate as HCO3	<1	mg/l	RM	1	2320B	08/20/2008 03:25:00 PM
Alkalinity Carbonate as CO3	0	mg/l	RM	0	2320B	08/20/2008 03:25:00 PM
Alkalinity Total as CaCO3	<1	mg/l	RM	1	2320B	08/20/2008 03:25:00 PM
Chloride as Cl	1	mg/l	MRK	1	300.0	08/21/2008 02:33:00 AM
Sulfate as SO4	434	mg/l	MRK	10	300.0	08/22/2008 06:03:00 AM
Hardness as CaCO3	196	mg/l	BH	7	2340B	08/22/2008 05:46:00 PM
Electrical Conductivity	996	umhos/cm	MRK	10	2510B	08/28/2008 01:50:00 PM
pH	3.0	S.U.	ES	0.1-13.5	4500-H+-B	08/15/2008 03:00:00 PM
Total Dissolved Solids	688	mg/l	RM	20	2540C	08/19/2008 09:11:00 AM
Aluminum as Al (Dissolved)	18.0	mg/l	BH	0.05	200.7	08/22/2008 05:46:00 PM
Cadmium as Cd (Dissolved)	0.0074	mg/l	DK	0.00001	200.8	08/26/2008 06:35:00 PM
Calcium as Ca (Dissolved)	57	mg/l	BH	1	200.7	08/22/2008 05:46:00 PM
Copper as Cu (Dissolved)	7.48	mg/l	BH	0.001	200.7	08/22/2008 05:46:00 PM
Iron as Fe (Dissolved)	13.2	mg/l	BH	0.01	200.7	08/22/2008 05:46:00 PM
Lead as Pb (Dissolved)	0.008	mg/l	DK	0.001	200.8	08/26/2008 06:35:00 PM
Magnesium as Mg (Dissolved)	13	mg/l	BH	1	200.7	08/22/2008 05:46:00 PM
Manganese as Mn (Dissolved)	2.36	mg/l	BH	0.003	200.7	08/22/2008 05:46:00 PM
Potassium as K (Dissolved)	3	mg/l	BH	1	200.7	08/22/2008 05:46:00 PM
Sodium as Na (Dissolved)	3	mg/l	BH	1	200.7	08/22/2008 05:46:00 PM
Zinc as Zn (Dissolved)	0.86	mg/l	BH	0.01	200.7	08/22/2008 05:46:00 PM
Cations	8.60	meq/l	---	0.30	1030F	
Anions	9.06	meq/l	---	0.38	1030F	
Cation/Anion Balance	2.61*	% [max 2%]	---	-----	AWWA/APHA	

Northern Analytical Laboratories, Inc.

***The concentrations of the major cations and anions used to calculate the cation/anion balance were verified with second analyses.**

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 1157561506.207
Laboratory No.: 2008080134-14
Sample Name: RR-DCGW-132
Sample Date/Time: 08/12/2008 18:10:00
Collected by: MARK F PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD GROUNDWATER 2008/2009						
Acidity as CaCO3	465	mg/l	RM	2	2310 B	08/22/2008 06:47:56 PM
Alkalinity Bicarbonate as HCO3	<1	mg/l	RM	1	2320B	08/20/2008 03:25:00 PM
Alkalinity Carbonate as CO3	0	mg/l	RM	0	2320B	08/20/2008 03:25:00 PM
Alkalinity Total as CaCO3	<1	mg/l	RM	1	2320B	08/20/2008 03:25:00 PM
Chloride as Cl	2	mg/l	MRK	1	300.0	08/21/2008 03:03:00 AM
Sulfate as SO4	914	mg/l	MRK	25	300.0	08/22/2008 06:34:00 AM
Hardness as CaCO3	339	mg/l	BH	7	2340B	08/22/2008 05:49:00 PM
Electrical Conductivity	1530	umhos/cm	MRK	10	2510B	08/28/2008 01:50:00 PM
pH	3.5	S.U.	ES	0.1-13.5	4500-H+-B	08/15/2008 03:00:00 PM
Total Dissolved Solids	1490	mg/l	RM	20	2540C	08/19/2008 09:11:00 AM
Aluminum as Al (Dissolved)	35.0	mg/l	BH	0.05	200.7	08/28/2008 03:03:00 PM
Cadmium as Cd (Dissolved)	0.015	mg/l	DK	0.00001	200.8	08/26/2008 06:41:00 PM
Calcium as Ca (Dissolved)	88	mg/l	BH	1	200.7	08/22/2008 05:49:00 PM
Copper as Cu (Dissolved)	11.2	mg/l	BH	0.001	200.7	08/28/2008 03:03:00 PM
Iron as Fe (Dissolved)	145	mg/l	BH	0.01	200.7	08/28/2008 03:03:00 PM
Lead as Pb (Dissolved)	0.007	mg/l	DK	0.001	200.8	08/26/2008 06:41:00 PM
Magnesium as Mg (Dissolved)	29	mg/l	BH	1	200.7	08/22/2008 05:49:00 PM
Manganese as Mn (Dissolved)	5.04	mg/l	BH	0.003	200.7	08/22/2008 05:49:00 PM
Potassium as K (Dissolved)	4	mg/l	BH	1	200.7	08/22/2008 05:49:00 PM
Sodium as Na (Dissolved)	4	mg/l	BH	1	200.7	08/22/2008 05:49:00 PM
Zinc as Zn (Dissolved)	1.79	mg/l	BH	0.01	200.7	08/22/2008 05:49:00 PM
Cations	16.35	meq/l	---	0.30	1030F	
Anions	19.09	meq/l	---	0.38	1030F	
Cation/Anion Balance	7.73*	% [max 5%]	---	-----	AWWA/APHA	

Northern Analytical Laboratories, Inc.

***The concentrations of the major cations and anions used to calculate the cation/anion balance were verified with second analyses.**

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 1157561506.207
Laboratory No.: 2008080134-15
Sample Name: RR-DCGW-132X
Sample Date/Time: 08/12/2008 18:15:00
Collected by: MARK F PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD GROUNDWATER 2008/2009						
Acidity as CaCO3	475	mg/l	RM	2	2310 B	08/22/2008 06:51:41 PM
Alkalinity Bicarbonate as HCO3	<1	mg/l	RM	1	2320B	08/20/2008 03:25:00 PM
Alkalinity Carbonate as CO3	0	mg/l	RM	0	2320B	08/20/2008 03:25:00 PM
Alkalinity Total as CaCO3	<1	mg/l	RM	1	2320B	08/20/2008 03:25:00 PM
Chloride as Cl	2	mg/l	MRK	1	300.0	08/21/2008 03:34:00 AM
Sulfate as SO4	871	mg/l	MRK	25	300.0	08/22/2008 11:18:00 PM
Hardness as CaCO3	335	mg/l	BH	7	2340B	08/22/2008 05:52:00 PM
Electrical Conductivity	1550	umhos/cm	MRK	10	2510B	08/28/2008 01:50:00 PM
pH	3.5	S.U.	ES	0.1-13.5	4500-H+-B	08/15/2008 03:00:00 PM
Total Dissolved Solids	1220	mg/l	RM	20	2540C	08/19/2008 09:11:00 AM
Aluminum as Al (Dissolved)	33.8	mg/l	BH	0.05	200.7	08/28/2008 03:06:00 PM
Cadmium as Cd (Dissolved)	0.015	mg/l	DK	0.00001	200.8	08/26/2008 06:59:00 PM
Calcium as Ca (Dissolved)	88	mg/l	BH	1	200.7	08/22/2008 05:52:00 PM
Copper as Cu (Dissolved)	10.8	mg/l	BH	0.001	200.7	08/28/2008 03:06:00 PM
Iron as Fe (Dissolved)	139	mg/l	BH	0.01	200.7	08/28/2008 03:06:00 PM
Lead as Pb (Dissolved)	0.008	mg/l	DK	0.001	200.8	08/26/2008 06:59:00 PM
Magnesium as Mg (Dissolved)	28	mg/l	BH	1	200.7	08/22/2008 05:52:00 PM
Manganese as Mn (Dissolved)	4.94	mg/l	BH	0.003	200.7	08/22/2008 05:52:00 PM
Potassium as K (Dissolved)	4	mg/l	BH	1	200.7	08/22/2008 05:52:00 PM
Sodium as Na (Dissolved)	4	mg/l	BH	1	200.7	08/22/2008 05:52:00 PM
Zinc as Zn (Dissolved)	1.81	mg/l	BH	0.01	200.7	08/22/2008 05:52:00 PM
Cations	16.47	meq/l	---	0.30	1030F	
Anions	18.19	meq/l	---	0.38	1030F	
Cation/Anion Balance	4.96	% [max 5%]	---	-----	AWWA/APHA	

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 1157561506.207
Laboratory No.: 2008080134-16
Sample Name: RR-DCGW-100
Sample Date/Time: 08/13/2008 17:42:00
Collected by: MARK F PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD GROUNDWATER 2008/2009						
Acidity as CaCO3	<2	mg/l	RM	2	2310 B	08/22/2008 06:54:42 PM
Alkalinity Bicarbonate as HCO3	194	mg/l	RM	1	2320B	08/20/2008 03:25:00 PM
Alkalinity Carbonate as CO3	0	mg/l	RM	0	2320B	08/20/2008 03:25:00 PM
Alkalinity Total as CaCO3	159	mg/l	RM	1	2320B	08/20/2008 03:25:00 PM
Chloride as Cl	<1	mg/l	MRK	1	300.0	08/21/2008 04:04:00 AM
Sulfate as SO4	157	mg/l	MRK	5	300.0	08/21/2008 04:04:00 AM
Hardness as CaCO3	318	mg/l	BH	7	2340B	08/22/2008 05:55:00 PM
Electrical Conductivity	564	umhos/cm	MRK	10	2510B	08/28/2008 01:50:00 PM
pH	7.2	S.U.	ES	0.1-13.5	4500-H+-B	08/15/2008 03:00:00 PM
Total Dissolved Solids	395	mg/l	RM	20	2540C	08/19/2008 09:11:00 AM
Aluminum as Al (Dissolved)	<0.05	mg/l	BH	0.05	200.7	08/22/2008 05:55:00 PM
Cadmium as Cd (Dissolved)	0.0002	mg/l	DK	0.00001	200.8	08/26/2008 07:05:00 PM
Calcium as Ca (Dissolved)	96	mg/l	BH	1	200.7	08/22/2008 05:55:00 PM
Copper as Cu (Dissolved)	0.005	mg/l	DK	0.001	200.8	08/26/2008 07:05:00 PM
Iron as Fe (Dissolved)	0.22	mg/l	BH	0.01	200.7	08/22/2008 05:55:00 PM
Lead as Pb (Dissolved)	<0.001	mg/l	DK	0.001	200.8	08/26/2008 07:05:00 PM
Magnesium as Mg (Dissolved)	19	mg/l	BH	1	200.7	08/22/2008 05:55:00 PM
Manganese as Mn (Dissolved)	0.42	mg/l	BH	0.003	200.7	08/22/2008 05:55:00 PM
Potassium as K (Dissolved)	1	mg/l	BH	1	200.7	08/22/2008 05:55:00 PM
Sodium as Na (Dissolved)	3	mg/l	BH	1	200.7	08/22/2008 05:55:00 PM
Zinc as Zn (Dissolved)	0.02	mg/l	BH	0.01	200.7	08/22/2008 05:55:00 PM
Cations	6.51	meq/l	---	0.30	1030F	
Anions	6.45	meq/l	---	0.38	1030F	
Cation/Anion Balance	0.46	% [max 2%]	---	-----	AWWA/APHA	

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 1157561506.207
Laboratory No.: 2008080134-17
Sample Name: RR-SBGW-105
Sample Date/Time: 08/14/2008 08:00:00
Collected by: MARK F PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD GROUNDWATER 2008/2009						
Acidity as CaCO3	<2	mg/l	RM	2	2310 B	08/22/2008 06:58:03 PM
Alkalinity Bicarbonate as HCO3	136	mg/l	RM	1	2320B	08/20/2008 03:25:00 PM
Alkalinity Carbonate as CO3	9	mg/l	RM	0	2320B	08/20/2008 03:25:00 PM
Alkalinity Total as CaCO3	126	mg/l	RM	1	2320B	08/20/2008 03:25:00 PM
Chloride as Cl	1	mg/l	MRK	1	300.0	08/21/2008 06:37:00 AM
Sulfate as SO4	19	mg/l	MRK	5	300.0	08/21/2008 06:37:00 AM
Hardness as CaCO3	55	mg/l	BH	7	2340B	09/10/2008 02:10:00 PM
Electrical Conductivity	257	umhos/cm	MRK	10	2510B	08/28/2008 01:50:00 PM
pH	8.6	S.U.	ES	0.1-13.5	4500-H+-B	08/15/2008 03:00:00 PM
Total Dissolved Solids	210	mg/l	RM	20	2540C	08/19/2008 09:11:00 AM
Aluminum as Al (Dissolved)	<0.05	mg/l	BH	0.05	200.7	08/22/2008 06:04:00 PM
Cadmium as Cd (Dissolved)	<0.0001	mg/l	DK	0.00001	200.8	08/26/2008 07:18:00 PM
Calcium as Ca (Dissolved)	17	mg/l	BH	1	200.7	09/10/2008 02:10:00 PM
Copper as Cu (Dissolved)	<0.001	mg/l	DK	0.001	200.8	08/26/2008 07:18:00 PM
Iron as Fe (Dissolved)	<0.01	mg/l	BH	0.01	200.7	08/22/2008 06:04:00 PM
Lead as Pb (Dissolved)	<0.001	mg/l	DK	0.001	200.8	08/26/2008 07:18:00 PM
Magnesium as Mg (Dissolved)	3	mg/l	BH	1	200.7	09/10/2008 02:10:00 PM
Manganese as Mn (Dissolved)	<0.003	mg/l	BH	0.003	200.7	08/22/2008 06:04:00 PM
Potassium as K (Dissolved)	2	mg/l	BH	1	200.7	09/10/2008 02:10:00 PM
Sodium as Na (Dissolved)	37	mg/l	BH	1	200.7	09/10/2008 02:10:00 PM
Zinc as Zn (Dissolved)	0.02	mg/l	BH	0.01	200.7	08/22/2008 06:04:00 PM
Cations	2.76	meq/l	---	0.30	1030F	
Anions	2.94	meq/l	---	0.38	1030F	
Cation/Anion Balance	0.18	[max 0.20]	---	-----	AWWA/APHA	

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 1157561506.207
Laboratory No.: 2008080134-18
Sample Name: RR-SBGW-105T
Sample Date/Time: 08/14/2008 08:20:00
Collected by: MARK F PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD GROUNDWATER 2008/2009						
Acidity as CaCO3	<2	mg/l	RM	2	2310 B	08/22/2008 06:59:22 PM
Alkalinity Bicarbonate as HCO3	312	mg/l	RM	1	2320B	08/20/2008 03:25:00 PM
Alkalinity Carbonate as CO3	0	mg/l	RM	0	2320B	08/20/2008 03:25:00 PM
Alkalinity Total as CaCO3	255	mg/l	RM	1	2320B	08/20/2008 03:25:00 PM
Chloride as Cl	<1	mg/l	MRK	1	300.0	08/21/2008 07:07:00 AM
Sulfate as SO4	25	mg/l	MRK	5	300.0	08/21/2008 07:07:00 AM
Hardness as CaCO3	201	mg/l	BH	7	2340B	08/22/2008 06:07:00 PM
Electrical Conductivity	335	umhos/cm	MRK	10	2510B	08/28/2008 01:50:00 PM
pH	7.7	S.U.	ES	0.1-13.5	4500-H+-B	08/15/2008 03:00:00 PM
Total Dissolved Solids	194	mg/l	RM	20	2540C	08/19/2008 09:11:00 AM
Aluminum as Al (Dissolved)	<0.05	mg/l	BH	0.05	200.7	08/22/2008 06:07:00 PM
Cadmium as Cd (Dissolved)	<0.0001	mg/l	DK	0.00001	200.8	08/26/2008 07:24:00 PM
Calcium as Ca (Dissolved)	59	mg/l	BH	1	200.7	08/22/2008 06:07:00 PM
Copper as Cu (Dissolved)	<0.001	mg/l	DK	0.001	200.8	08/26/2008 07:24:00 PM
Iron as Fe (Dissolved)	0.08	mg/l	BH	0.01	200.7	08/22/2008 06:07:00 PM
Lead as Pb (Dissolved)	<0.001	mg/l	DK	0.001	200.8	08/26/2008 07:24:00 PM
Magnesium as Mg (Dissolved)	13	mg/l	BH	1	200.7	08/22/2008 06:07:00 PM
Manganese as Mn (Dissolved)	0.078	mg/l	BH	0.003	200.7	08/22/2008 06:07:00 PM
Potassium as K (Dissolved)	1	mg/l	BH	1	200.7	08/22/2008 06:07:00 PM
Sodium as Na (Dissolved)	2	mg/l	BH	1	200.7	08/22/2008 06:07:00 PM
Zinc as Zn (Dissolved)	0.03	mg/l	BH	0.01	200.7	08/22/2008 06:07:00 PM
Cations	4.13	meq/l	---	0.30	1030F	
Anions	5.62	meq/l	---	0.38	1030F	
Cation/Anion Balance	15.28*	% [max 2%]	---	-----	AWWA/APHA	

Northern Analytical Laboratories, Inc.

***The concentrations of the major cations and anions used to calculate the cation/anion balance were verified with second analyses.**

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 1157561506.207
Laboratory No.: 2008080134-19
Sample Name: RR-SBGW-108T
Sample Date/Time: 08/14/2008 09:15:00
Collected by: MARK F PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD GROUNDWATER 2008/2009						
Acidity as CaCO3	<2	mg/l	RM	2	2310 B	08/22/2008 07:01:10 PM
Alkalinity Bicarbonate as HCO3	387	mg/l	RM	1	2320B	08/20/2008 03:25:00 PM
Alkalinity Carbonate as CO3	0	mg/l	RM	0	2320B	08/20/2008 03:25:00 PM
Alkalinity Total as CaCO3	317	mg/l	RM	1	2320B	08/20/2008 03:25:00 PM
Chloride as Cl	5	mg/l	MRK	1	300.0	08/21/2008 07:38:00 AM
Sulfate as SO4	28	mg/l	MRK	5	300.0	08/21/2008 07:38:00 AM
Hardness as CaCO3	243	mg/l	BH	7	2340B	08/22/2008 06:19:00 PM
Electrical Conductivity	435	umhos/cm	MRK	10	2510B	08/28/2008 01:50:00 PM
pH	7.6	S.U.	ES	0.1-13.5	4500-H+-B	08/15/2008 03:00:00 PM
Total Dissolved Solids	261	mg/l	RM	20	2540C	08/19/2008 09:11:00 AM
Aluminum as Al (Dissolved)	<0.05	mg/l	BH	0.05	200.7	08/22/2008 06:19:00 PM
Cadmium as Cd (Dissolved)	<0.0001	mg/l	DK	0.00001	200.8	08/26/2008 07:30:00 PM
Calcium as Ca (Dissolved)	79	mg/l	BH	1	200.7	08/22/2008 06:19:00 PM
Copper as Cu (Dissolved)	0.001	mg/l	DK	0.001	200.8	08/26/2008 07:30:00 PM
Iron as Fe (Dissolved)	<0.01	mg/l	BH	0.01	200.7	08/22/2008 06:19:00 PM
Lead as Pb (Dissolved)	<0.001	mg/l	DK	0.001	200.8	08/26/2008 07:30:00 PM
Magnesium as Mg (Dissolved)	11	mg/l	BH	1	200.7	08/22/2008 06:19:00 PM
Manganese as Mn (Dissolved)	<0.003	mg/l	BH	0.003	200.7	08/22/2008 06:19:00 PM
Potassium as K (Dissolved)	1	mg/l	BH	1	200.7	08/22/2008 06:19:00 PM
Sodium as Na (Dissolved)	3	mg/l	BH	1	200.7	08/22/2008 06:19:00 PM
Zinc as Zn (Dissolved)	0.03	mg/l	BH	0.01	200.7	08/22/2008 06:19:00 PM
Cations	5.00	meq/l	---	0.30	1030F	
Anions	7.06	meq/l	---	0.38	1030F	
Cation/Anion Balance	17.08*	% [max 2%]	---	-----	AWWA/APHA	

Northern Analytical Laboratories, Inc.

***The concentrations of the major cations and anions used to calculate the cation/anion balance were verified with second analyses.**

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 1157561506.207
Laboratory No.: 2008080134-20
Sample Name: RR-SBGW-108
Sample Date/Time: 08/14/2008 09:30:00
Collected by: MARK F PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD GROUNDWATER 2008/2009						
Acidity as CaCO3	<2	mg/l	RM	2	2310 B	08/22/2008 07:03:48 PM
Alkalinity Bicarbonate as HCO3	160	mg/l	RM	1	2320B	08/20/2008 03:25:00 PM
Alkalinity Carbonate as CO3	0	mg/l	RM	0	2320B	08/20/2008 03:25:00 PM
Alkalinity Total as CaCO3	131	mg/l	RM	1	2320B	08/20/2008 03:25:00 PM
Chloride as Cl	2	mg/l	MRK	1	300.0	08/21/2008 08:08:00 AM
Sulfate as SO4	9	mg/l	MRK	5	300.0	08/21/2008 08:08:00 AM
Hardness as CaCO3	151	mg/l	BH	7	2340B	08/22/2008 06:22:00 PM
Electrical Conductivity	266	umhos/cm	MRK	10	2510B	08/28/2008 01:50:00 PM
pH	7.3	S.U.	ES	0.1-13.5	4500-H+-B	08/15/2008 03:00:00 PM
Total Dissolved Solids	141	mg/l	RM	20	2540C	08/19/2008 09:11:00 AM
Aluminum as Al (Dissolved)	<0.05	mg/l	BH	0.05	200.7	08/22/2008 06:22:00 PM
Cadmium as Cd (Dissolved)	<0.0001	mg/l	DK	0.00001	200.8	08/26/2008 07:36:00 PM
Calcium as Ca (Dissolved)	49	mg/l	BH	1	200.7	08/22/2008 06:22:00 PM
Copper as Cu (Dissolved)	0.001	mg/l	DK	0.001	200.8	08/26/2008 07:36:00 PM
Iron as Fe (Dissolved)	<0.01	mg/l	BH	0.01	200.7	08/22/2008 06:22:00 PM
Lead as Pb (Dissolved)	<0.001	mg/l	DK	0.001	200.8	08/26/2008 07:36:00 PM
Magnesium as Mg (Dissolved)	7	mg/l	BH	1	200.7	08/22/2008 06:22:00 PM
Manganese as Mn (Dissolved)	0.004	mg/l	BH	0.003	200.7	08/22/2008 06:22:00 PM
Potassium as K (Dissolved)	<1	mg/l	BH	1	200.7	08/22/2008 06:22:00 PM
Sodium as Na (Dissolved)	2	mg/l	BH	1	200.7	08/22/2008 06:22:00 PM
Zinc as Zn (Dissolved)	0.07	mg/l	BH	0.01	200.7	08/22/2008 06:22:00 PM
Cations	3.11	meq/l	---	0.30	1030F	
Anions	2.86	meq/l	---	0.38	1030F	
Cation/Anion Balance	0.25*	[max 0.20]	---	-----	AWWA/APHA	

Northern Analytical Laboratories, Inc.

***The concentrations of the major cations and anions used to calculate the cation/anion balance were verified with second analyses.**

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 1157561506.207
Laboratory No.: 2008080134-21
Sample Name: RR-SBGW-107
Sample Date/Time: 08/14/2008 10:30:00
Collected by: MARK F PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD GROUNDWATER 2008/2009						
Acidity as CaCO3	<2	mg/l	RM	2	2310 B	08/22/2008 07:05:04 PM
Alkalinity Bicarbonate as HCO3	172	mg/l	RM	1	2320B	08/20/2008 03:25:00 PM
Alkalinity Carbonate as CO3	30	mg/l	RM	0	2320B	08/20/2008 03:25:00 PM
Alkalinity Total as CaCO3	191	mg/l	RM	1	2320B	08/20/2008 03:25:00 PM
Chloride as Cl	2	mg/l	MRK	1	300.0	08/21/2008 08:39:00 AM
Sulfate as SO4	83	mg/l	MRK	5	300.0	08/21/2008 08:39:00 AM
Hardness as CaCO3	98	mg/l	BH	7	2340B	08/22/2008 06:25:00 PM
Electrical Conductivity	500	umhos/cm	MRK	10	2510B	08/28/2008 01:50:00 PM
pH	8.9	S.U.	ES	0.1-13.5	4500-H+-B	08/15/2008 03:00:00 PM
Total Dissolved Solids	354	mg/l	RM	20	2540C	08/19/2008 09:11:00 AM
Aluminum as Al (Dissolved)	<0.05	mg/l	BH	0.05	200.7	08/22/2008 06:25:00 PM
Cadmium as Cd (Dissolved)	<0.0001	mg/l	DK	0.00001	200.8	08/26/2008 07:42:00 PM
Calcium as Ca (Dissolved)	26	mg/l	BH	1	200.7	08/22/2008 06:25:00 PM
Copper as Cu (Dissolved)	0.002	mg/l	DK	0.001	200.8	08/26/2008 07:42:00 PM
Iron as Fe (Dissolved)	<0.01	mg/l	BH	0.01	200.7	08/22/2008 06:25:00 PM
Lead as Pb (Dissolved)	<0.001	mg/l	DK	0.001	200.8	08/26/2008 07:42:00 PM
Magnesium as Mg (Dissolved)	8	mg/l	BH	1	200.7	08/22/2008 06:25:00 PM
Manganese as Mn (Dissolved)	0.010	mg/l	BH	0.003	200.7	08/22/2008 06:25:00 PM
Potassium as K (Dissolved)	1	mg/l	BH	1	200.7	08/22/2008 06:25:00 PM
Sodium as Na (Dissolved)	83	mg/l	BH	1	200.7	08/22/2008 06:25:00 PM
Zinc as Zn (Dissolved)	0.01	mg/l	BH	0.01	200.7	08/22/2008 06:25:00 PM
Cations	5.59	meq/l	---	0.30	1030F	
Anions	5.60	meq/l	---	0.38	1030F	
Cation/Anion Balance	0.09	% [max 2%]	---	-----	AWWA/APHA	

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 1157561506.207
Laboratory No.: 2008080134-22
Sample Name: DUPLICATE OF 2008080134-01
Sample Date/Time: 08/11/2008 15:30:00
Collected by: MARK F PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD GROUNDWATER 2008/2009						
Acidity as CaCO3	479	mg/l	RM	2	2310 B	08/22/2008 07:08:54 PM
Alkalinity Bicarbonate as HCO3	<1	mg/l	RM	1	2320B	08/20/2008 03:25:00 PM
Alkalinity Carbonate as CO3	0	mg/l	RM	0	2320B	08/20/2008 03:25:00 PM
Alkalinity Total as CaCO3	<1	mg/l	RM	1	2320B	08/20/2008 03:25:00 PM
Chloride as Cl	2	mg/l	MRK	1	300.0	08/20/2008 09:06:00 AM
Sulfate as SO4	573	mg/l	MRK	15	300.0	08/28/2008 01:07:00 AM
Hardness as CaCO3	61	mg/l	BH	7	2340B	08/22/2008 04:40:00 PM
Electrical Conductivity	1060	umhos/cm	MRK	10	2510B	08/28/2008 01:50:00 PM
pH	2.8	S.U.	ES	0.1-13.5	4500-H+-B	08/15/2008 03:00:00 PM
Total Dissolved Solids	1130	mg/l	RM	20	2540C	08/19/2008 09:11:00 AM
Aluminum as Al (Dissolved)	29.6	mg/l	BH	0.05	200.7	08/28/2008 02:36:00 PM
Cadmium as Cd (Dissolved)	0.0033	mg/l	DK	0.00001	200.8	08/26/2008 04:46:00 PM
Calcium as Ca (Dissolved)	13	mg/l	BH	1	200.7	08/22/2008 04:40:00 PM
Copper as Cu (Dissolved)	8.78	mg/l	BH	0.001	200.7	08/22/2008 04:40:00 PM
Iron as Fe (Dissolved)	110	mg/l	BH	0.01	200.7	08/28/2008 02:36:00 PM
Lead as Pb (Dissolved)	0.011	mg/l	DK	0.001	200.8	08/26/2008 04:46:00 PM
Magnesium as Mg (Dissolved)	7	mg/l	BH	1	200.7	08/22/2008 04:40:00 PM
Manganese as Mn (Dissolved)	1.11	mg/l	BH	0.003	200.7	08/22/2008 04:40:00 PM
Potassium as K (Dissolved)	2	mg/l	BH	1	200.7	08/22/2008 04:40:00 PM
Sodium as Na (Dissolved)	3	mg/l	BH	1	200.7	08/22/2008 04:40:00 PM
Zinc as Zn (Dissolved)	0.47	mg/l	BH	0.01	200.7	08/22/2008 04:40:00 PM

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 1157561506.207
Laboratory No.: 2008080134-23
Sample Name: MATRIX SPIKE OF 2008080134-06
Sample Date/Time: 08/12/2008 11:40:00
Collected by: MARK F PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD GROUNDWATER 2008/2009						
Acidity as CaCO3	32 (4)	% [70-132]	RM	2	2310 B	08/22/2008 07:17:49 PM
Alkalinity Bicarbonate as HCO3	NA	-----	-----	-----	-----	-----
Alkalinity Carbonate as CO3	NA	-----	-----	-----	-----	-----
Alkalinity Total as CaCO3	96	% [77-116]	RM	1	2320B	08/20/2008 03:25:00 PM
Chloride as Cl	108	% [84-124]	MRK	1	300.0	08/20/2008 08:57:00 PM
Sulfate as SO4	109	% [84-124]	MRK	5	300.0	08/20/2008 08:57:00 PM
Hardness as CaCO3	NA	-----	-----	-----	-----	-----
Electrical Conductivity	NA	-----	-----	-----	-----	-----
pH	NA	-----	-----	-----	-----	-----
Total Dissolved Solids	NA	-----	-----	-----	-----	-----
Aluminum as Al (Dissolved)	104	% [81-117]	BH	0.05	200.7	08/22/2008 05:09:00 PM
Cadmium as Cd (Dissolved)	100	% [81-116]	DK	0.00001	200.8	08/26/2008 05:22:00 PM
Calcium as Ca (Dissolved)	106	% [78-122]	BH	1	200.7	08/22/2008 05:12:00 PM
Copper as Cu (Dissolved)	92	% [70-114]	DK	0.001	200.8	08/27/2008 01:43:00 PM
Iron as Fe (Dissolved)	104	% [87-111]	BH	0.01	200.7	08/22/2008 05:09:00 PM
Lead as Pb (Dissolved)	100	% [82-117]	DK	0.001	200.8	08/26/2008 05:22:00 PM
Magnesium as Mg (Dissolved)	109	% [84-118]	BH	1	200.7	08/22/2008 05:12:00 PM
Manganese as Mn (Dissolved)	104	% [81-114]	BH	0.003	200.7	08/22/2008 05:09:00 PM
Potassium as K (Dissolved)	99	% [85-120]	BH	1	200.7	08/22/2008 05:12:00 PM
Sodium as Na (Dissolved)	100	% [73-124]	BH	1	200.7	08/22/2008 05:12:00 PM
Zinc as Zn (Dissolved)	104	% [89-113]	BH	0.01	200.7	08/22/2008 05:09:00 PM

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 1157561506.207
Laboratory No.: 2008080134-24
Sample Name: DUPLICATE OF 2008080134-11
Sample Date/Time: 08/12/2008 15:50:00
Collected by: MARK F PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD GROUNDWATER 2008/2009						
Acidity as CaCO3	29	mg/l	RM	2	2310 B	08/22/2008 07:22:58 PM
Alkalinity Bicarbonate as HCO3	5*	RPD [0-20]	RM	1	2320B	08/20/2008 03:25:00 PM
Alkalinity Carbonate as CO3	29* (3)	RPD [0-20]	RM	0	2320B	08/20/2008 03:25:00 PM
Alkalinity Total as CaCO3	0*	RPD [0-20]	RM	1	2320B	08/20/2008 03:25:00 PM
Chloride as Cl	<1	mg/l	MRK	1	300.0	08/21/2008 01:32:00 AM
Sulfate as SO4	88	mg/l	MRK	5	300.0	08/21/2008 01:32:00 AM
Hardness as CaCO3	69	mg/l	BH	7	2340B	08/22/2008 05:40:00 PM
Electrical Conductivity	196	umhos/cm	MRK	10	2510B	08/28/2008 01:50:00 PM
pH	0*	RPD [0-20]	ES	0.1-13.5	4500-H+-B	08/15/2008 03:00:00 PM
Total Dissolved Solids	158	mg/l	RM	20	2540C	08/19/2008 09:11:00 AM
Aluminum as Al (Dissolved)	0.98	mg/l	BH	0.05	200.7	08/22/2008 05:40:00 PM
Cadmium as Cd (Dissolved)	0.0010	mg/l	DK	0.00001	200.8	08/26/2008 06:23:00 PM
Calcium as Ca (Dissolved)	21	mg/l	BH	1	200.7	08/22/2008 05:40:00 PM
Copper as Cu (Dissolved)	0.57	mg/l	BH	0.001	200.7	08/22/2008 05:40:00 PM
Iron as Fe (Dissolved)	0.19	mg/l	BH	0.01	200.7	08/22/2008 05:40:00 PM
Lead as Pb (Dissolved)	<0.001	mg/l	DK	0.001	200.8	08/26/2008 06:23:00 PM
Magnesium as Mg (Dissolved)	4	mg/l	BH	1	200.7	08/22/2008 05:40:00 PM
Manganese as Mn (Dissolved)	0.46	mg/l	BH	0.003	200.7	08/22/2008 05:40:00 PM
Potassium as K (Dissolved)	1	mg/l	BH	1	200.7	08/22/2008 05:40:00 PM
Sodium as Na (Dissolved)	3	mg/l	BH	1	200.7	08/22/2008 05:40:00 PM
Zinc as Zn (Dissolved)	0.18	mg/l	BH	0.01	200.7	08/22/2008 05:40:00 PM

*Batch Duplicate

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 1157561506.207
Laboratory No.: 2008080134-25
Sample Name: MATRIX SPIKE OF 2008080134-16
Sample Date/Time: 08/13/2008 17:42:00
Collected by: MARK F PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD GROUNDWATER 2008/2009						
Acidity as CaCO3	94	% [70-132]	RM	2	2310 B	08/22/2008 07:28:37 PM
Alkalinity Bicarbonate as HCO3	NA	-----	-----	-----	-----	-----
Alkalinity Carbonate as CO3	NA	-----	-----	-----	-----	-----
Alkalinity Total as CaCO3	99	% [77-116]	RM	1	2320B	08/20/2008 03:25:00 PM
Chloride as Cl	105	% [84-124]	MRK	1	300.0	08/21/2008 04:35:00 AM
Sulfate as SO4	106	% [84-124]	MRK	5	300.0	08/21/2008 04:35:00 AM
Hardness as CaCO3	NA	-----	-----	-----	-----	-----
Electrical Conductivity	NA	-----	-----	-----	-----	-----
pH	NA	-----	-----	-----	-----	-----
Total Dissolved Solids	NA	-----	-----	-----	-----	-----
Aluminum as Al (Dissolved)	106	% [81-117]	BH	0.05	200.7	08/22/2008 05:58:00 PM
Cadmium as Cd (Dissolved)	101	% [81-116]	DK	0.00001	200.8	08/26/2008 07:10:00 PM
Calcium as Ca (Dissolved)	102	% [78-122]	BH	1	200.7	08/22/2008 06:01:00 PM
Copper as Cu (Dissolved)	80	% [70-114]	DK	0.001	200.8	08/26/2008 07:10:00 PM
Iron as Fe (Dissolved)	106	% [87-111]	BH	0.01	200.7	08/22/2008 05:58:00 PM
Lead as Pb (Dissolved)	100	% [82-117]	DK	0.001	200.8	08/26/2008 07:10:00 PM
Magnesium as Mg (Dissolved)	108	% [84-118]	BH	1	200.7	08/22/2008 06:01:00 PM
Manganese as Mn (Dissolved)	106	% [81-114]	BH	0.003	200.7	08/22/2008 05:58:00 PM
Potassium as K (Dissolved)	103	% [85-120]	BH	1	200.7	08/22/2008 06:01:00 PM
Sodium as Na (Dissolved)	101	% [73-124]	BH	1	200.7	08/22/2008 06:01:00 PM
Zinc as Zn (Dissolved)	106	% [89-113]	BH	0.01	200.7	08/22/2008 05:58:00 PM

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 1157561506.207
Laboratory No.: 2008080134-26
Sample Name: METHOD BLANK
Sample Date/Time: ----- -----
Collected by: PREPARED BY LAB
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD GROUNDWATER 2008/2009						
Acidity as CaCO3	<2	mg/l	RM	2	2310 B	08/22/2008 05:26:54 PM
Alkalinity Bicarbonate as HCO3	<1	mg/l	RM	1	2320B	08/20/2008 03:25:00 PM
Alkalinity Carbonate as CO3	0	mg/l	RM	0	2320B	08/20/2008 03:25:00 PM
Alkalinity Total as CaCO3	<1	mg/l	RM	1	2320B	08/20/2008 03:25:00 PM
Chloride as Cl	<1	mg/l	MRK	1	300.0	08/20/2008 08:36:00 AM
Sulfate as SO4	<5	mg/l	MRK	5	300.0	08/20/2008 08:36:00 AM
Hardness as CaCO3	<7	mg/l	BH	7	2340B	08/22/2008 04:27:00 PM
Electrical Conductivity	<10	umhos/cm	MRK	10	2510B	08/28/2008 01:50:00 PM
pH	NA	-----	-----	-----	-----	-----
Total Dissolved Solids	<20	mg/l	RM	20	2540C	08/19/2008 09:11:00 AM
Aluminum as Al (Dissolved)	<0.05	mg/l	BH	0.05	200.7	08/22/2008 04:27:00 PM
Cadmium as Cd (Dissolved)	<0.0001	mg/l	DK	0.00001	200.8	08/26/2008 06:05:00 PM
Calcium as Ca (Dissolved)	<1	mg/l	BH	1	200.7	08/22/2008 04:27:00 PM
Copper as Cu (Dissolved)	<0.001	mg/l	DK	0.001	200.8	08/26/2008 06:05:00 PM
Iron as Fe (Dissolved)	<0.01	mg/l	BH	0.01	200.7	08/22/2008 04:27:00 PM
Lead as Pb (Dissolved)	<0.001	mg/l	DK	0.001	200.8	08/26/2008 06:05:00 PM
Magnesium as Mg (Dissolved)	<1	mg/l	BH	1	200.7	08/22/2008 04:27:00 PM
Manganese as Mn (Dissolved)	<0.003	mg/l	BH	0.003	200.7	08/22/2008 04:27:00 PM
Potassium as K (Dissolved)	<1	mg/l	BH	1	200.7	08/22/2008 04:27:00 PM
Sodium as Na (Dissolved)	<1	mg/l	BH	1	200.7	08/22/2008 04:27:00 PM
Zinc as Zn (Dissolved)	<0.01	mg/l	BH	0.01	200.7	08/22/2008 04:27:00 PM

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION
Project No.: 1157561506.207
Laboratory No.: 2008080134-27
Sample Name: LABORATORY CONTROL SAMPLE
Sample Date/Time: ----- -----
Collected by: PREPARED BY LAB
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD GROUNDWATER 2008/2009						
Acidity as CaCO3	112	% [91-116]	RM	2	2310 B	08/22/2008 05:22:47 PM
Alkalinity Bicarbonate as HCO3	NA	-----	-----	-----	-----	-----
Alkalinity Carbonate as CO3	NA	-----	-----	-----	-----	-----
Alkalinity Total as CaCO3	104	% [89-110]	RM	1	2320B	08/20/2008 03:25:00 PM
Chloride as Cl	97	% [90-110]	MRK	1	300.0	08/20/2008 08:36:00 AM
Sulfate as SO4	102	% [90-110]	MRK	5	300.0	08/20/2008 08:36:00 AM
Hardness as CaCO3	NA	-----	-----	-----	-----	-----
Electrical Conductivity	99	% [92-120]	MRK	10	2510B	08/28/2008 01:50:00 PM
pH	100	% [99-101]	ES	0.1-13.5	4500-H+-B	08/15/2008 03:00:00 PM
Total Dissolved Solids	100	% [90-106]	RM	20	2540C	08/19/2008 09:11:00 AM
Aluminum as Al (Dissolved)	103	% [86-112]	BH	0.05	200.7	08/22/2008 04:31:00 PM
Cadmium as Cd (Dissolved)	104	% [86-113]	DK	0.00001	200.8	08/26/2008 06:10:00 PM
Calcium as Ca (Dissolved)	105	% [91-114]	BH	1	200.7	08/22/2008 04:34:00 PM
Copper as Cu (Dissolved)	96	% [85-114]	DK	0.001	200.8	08/26/2008 06:10:00 PM
Iron as Fe (Dissolved)	102	% [90-112]	BH	0.01	200.7	08/22/2008 04:31:00 PM
Lead as Pb (Dissolved)	104	% [87-114]	DK	0.001	200.8	08/26/2008 06:10:00 PM
Magnesium as Mg (Dissolved)	105	% [89-112]	BH	1	200.7	08/22/2008 04:34:00 PM
Manganese as Mn (Dissolved)	102	% [92-114]	BH	0.003	200.7	08/22/2008 04:31:00 PM
Potassium as K (Dissolved)	98	% [86-114]	BH	1	200.7	08/22/2008 04:34:00 PM
Sodium as Na (Dissolved)	101	% [87-112]	BH	1	200.7	08/22/2008 04:34:00 PM
Zinc as Zn (Dissolved)	101	% [89-113]	BH	0.01	200.7	08/22/2008 04:31:00 PM

New World Response and Restoration
Project or Site Name

115 7561506.207
Project Number

Mark F. Pearson
Sampler Name (Printed)

Allen Kirk
Project Manager, Report to

CHAIN OF CUSTODY RECORD

NORTHERN
Analytical Laboratories, Inc.

602 South 25th Street
Billings, Montana 59101
Ph: 406-254-7226 · Fax: 406-254-1389
nlabs@wtp.net

Tetra Tech
Report to (Firm or Agency)

851 Bridger Dr., Ste 6
Address

Bozeman, MT 59715
City State Zip

582-8780
Phone Fax

DATE COLLECTED 2008	TIME COLLECTED	SAMPLE LOCATION OR DESCRIPTION	COMP OR GRAB	SAMPLE MATRIX	NO. OF CONTAINERS	ANALYSIS REQUIRED	NOTES	✓ CC LAB NUMBER
8/11	1530	RR-DCGW-105	G	Water	2		See Table 12 (attached)	200880134-1
↓	1800	RR-Tracer 2	↓	↓	↓		↓	2
8/12	845	RR-DCGW-111S						3
	900	RR-DCGW-111D						4
	950	RR-DCGW-104						5
	1140	RR-DCGW-137						6
	1215	RR-DCGW-136						7
	1250	RR-DCGW-101S						8
	1300	RR-DCGW-101D						9
	1330	RR-DCGW-134					} samples missing	—
	1420	RR-DCGW-135						—
↓	1530	RR-DCGW-107	↓	↓	↓		↓	10

Relinquished by:	Date	Time	Received by:
Mark F. Pearson	8/14/08	1200	Muell T. Mueller
Muell T. Mueller III	8/15/08	1325	Norma C. Trankle
Relinquished by:	Date	Time	Received by:

Sheet 1 of 2
Samples in 2 coolers

New World Response and Restoration
Project or Site Name

115 7561806.207
Project Number

Sampler Name (Printed)

Project Manager, Report to

CHAIN OF CUSTODY RECORD

NORTHERN
Analytical Laboratories, Inc.

602 South 25th Street
Billings, Montana 59101
Ph: 406-254-7226 • Fax: 406-254-1389
nlabs@wtp.net

Report to (Firm or Agency)

Address

City State Zip

Phone Fax

DATE COLLECTED 2008	TIME COLLECTED	SAMPLE LOCATION OR DESCRIPTION	COMP OR GRAB	SAMPLE MATRIX	NO. OF CONTAINERS	ANALYSIS REQUIRED	NOTES	LAB NUMBER 2008080134-
8/12	1550	RR-DCGW-108	G	Water	2		See Table 12 (attached)	11
	1700	RR-DCGW-138						12
	1750	RR-DCGW-133						13
	1810	RR-DCGW-132						14
	1815	RR-DCGW-132X						15
8/13	1742	RR-DCGW-100			3			16
8/14	800	RR-SBGW-105			2			17
	820	RR-SBGW-105T						18
	915	RR-SBGW-108T						19
	930	RR-SBGW-108						20
	1030	RR-SBGW-107						21

Relinquished by:	Date	Time	Received by:
Matt F. Pearson	8/14/08	1200	Matt T. Merelit
Relinquished by: Matt T. Smith/TE	Date 8/15/08	Time 1325	Received by: Norma C. Frankle
Relinquished by:	Date	Time	Received by:

Sheet 2 of 2

Dup 1 22
MS 6 23
D -11 24
MS-16 25
MB 26
LFB 27

NORTHERN
Analytical Laboratories, Inc.

SAMPLE RECEIPT CHECKLIST

Dear Valued Client: This checklist documents the condition of your sample(s) as it (they) arrived at our lab. Please review it and familiarize yourself with its contents. Should you have any questions or comments, please contact us. Thank you for your use of our services.

Client Name: ~~New World~~ Tetra Tech

Project: New World

Laboratory Number(s): 2008080134

Checklist Completed by: MK 8/15/08 (Initials / Date)

Date/Time Received: 8/15/08 13:25 (Date / Time)

Received by: Norma T

Carrier Name: /

Sample Type: Water

	YES	NO
1. Shipping container in good condition?	✓	
2. Custody seals present on shipping container? Condition: Intact ____ Broken ____	NA	
3. Chain of custody present?	✓	
4. Chain of custody signed when relinquished and received?	✓	
5. Chain of custody agrees with sample labels?	✓	
6. Custody seals on sample bottles? Condition: Intact ____ Broken ____	NA	
7. Samples in proper container/bottle?*	✓	
8. Sample containers intact?*	✓	
9. Sufficient sample volume for indicated test?*	✓	
10. Ice/Frozen Blue Ice present in shipping container? (circle one)	5.8°	
container temperature 1.____ 2.____ 3.____ * (if <0 or>10)		
11. All samples rec'd within holding time?*	✓	
12. VOA vials have zero headspace? * (if contains >5mm headspace)	NA	
13. Trip Blank received?	NA	

	YES	NO
14. pH check performed by: KC		
15. Metals bottle(s) pH <2?	~~NA~~	
16. Nutrient bottle(s) pH <2?	NA	
17. Cyanide bottle(s) pH >12?		
18. Sulfide bottle(s) pH >9?		
19. TOC bottle(s) pH <2?		
20. Phenolics bottle(s) pH <2?		
21. Oil & grease bottle(s) pH <2? (checked by analyst)		
22. EPH/DRO bottle(s) pH <2? (checked by analyst)		
23. Volatiles (VOA) pH <2? (checked by analyst)		
24. Semivolatiles (525) pH <2? (checked by analyst)		
25. Other test types		
26. Client contacted?	✓	
27. Person contacted	M. Pearson	
28. Date contacted	8/18 email	

NOTES: **Samples may be affected when not transported at the temperature recommended by the EPA for the test you've selected. Please contact the lab if you have concerns about the temperature of your samples.**

*** Critical item - if marked "NO" contact lab manager.**

COMMENTS: (*) Missing 2 samples RR-DC6W 134 ; RR DC6W 135

TABLE 12
GROUNDWATER ANALYTICAL REQUIREMENTS
2008/2009 Work Plan

Parameter	PQL (mg/l)[1]	EPA Method No.	Max. Holding Time
Physicochemical			
Specific Conductivity	None	2310B	28 days
pH	None	150.1	Upon arrival at lab
Total Dissolved Solids	None	2340C	7 days
Hardness	None	2340B	6 months
Acidity	None	305.1	14 days
Metals[2] Diss			
Aluminum	0.05	200.8/200.7	6 months
Cadmium	0.0001	200.8/200.7	6 months
Copper	0.001	200.8/200.7	6 months
Iron	0.01	200.8/200.7	6 months
Lead	0.001	200.8/200.7	6 months
Manganese	0.003	200.8/200.7	6 months
Zinc	0.01	200.8/200.7	6 months
Common Cations[2]			
Calcium	1.0	200.8/200.7	6 months
Magnesium	1.0	200.8/200.7	6 months
Potassium	1.0	200.8/200.7	6 months
Sodium	1.0	200.8/200.7	6 months
Common Anions[2]			
Sulfate	None	375.2	28 Days
Bicarbonate	None	2320B	14 Days
Carbonate	None	2320B	14 Days
Chloride	None	325.3	28 Days

1 PQL = Practical Quantitation Limit in milligrams per liter (mg/L)
2 Groundwater parameters will be analyzed as dissolved constituents as filtered through a 0.45 micron filter

2.5 GLENGARRY CHANNEL RECONSTRUCTION

With the closure of the Glengarry Adit and the removal of the Glengarry waste dump in 2005, Fisher Creek was routed into its historic channel, leaving a relict channel that Fisher Creek was diverted into by the historic mining operation. This now abandoned channel, referred to as the Glengarry channel, continues to carry surface water run-off, is susceptible to erosion, and has steep, near-vertical streambanks. To prevent potential headcutting and erosion, several rock check dams will be

NORTHERN
Analytical Laboratories, Inc.

602 South 25th Street
P O Box 30315
Billings, MT 59107
Telephone: (406) 254-7226
Fax: (406) 254-1389

REPORT TO:	ATTN: ALLAN R. KIRK TETRA TECH, INC. 851 BRIDGER DR., SUITE 6 BOZEMAN, MT 59715	**DATE:** **JOB NUMBER:** **PAGE:** **INVOICE NO.:**	September 25, 2008 87-911-12 1 of 6 8080135

REPORT OF: Water Analysis – New World Response & Restoration – Project No. 1157561506.219

CASE NARRATIVE:

On August 15, 2008, this water sample (laboratory number 2008080135-1) was received in our laboratory for analysis. Tests were conducted in accordance with *"Standard Methods for the Examination of Water and Wastewater"*, 20th Edition; EPA/600/R-93-100 *"Methods for the Determination of Inorganic Substances in Environmental Samples"*, EPA/600/R-94-111 *"Methods for the Determination of Metals in Environmental Samples"*, Supplement I; and Code of Federal Regulations, Title 40, Part 136.

The results of the analysis are shown on the following pages. A < sign indicates the value reported was the reporting limit for this sample using the method described. Concentrations of analyte, if present, below this were not quantifiable. Sample results are not corrected for analyte blank concentrations. Values in brackets are the quality control limits for the associated quality control test. RPD is the abbreviation for relative percent difference.

The condition of the sample upon receipt at the laboratory is noted on the attached sample receipt checklist. Chain of custody documentation is enclosed.

Footnotes used in this report include the following:

B – The analyte was detected in the method blank. Sample concentrations flagged with a "B" may not represent the true sample concentration. The results are not corrected for the method blank concentration.

(2) The recovery of the matrix spike is outside the stated quality control limit. However, the sample result was greater than four times the spike added, therefore no corrective action was required.

Reviewed by_____
Kathleen A. Smit – Laboratory Manager

Attachments: Chain of Custody (2)
Sample Receipt Checklist
Table 5

nct

As a mutual protection to clients, the public and ourselves, all reports are submitted as the confidential property of our clients and authorization for publication of statements, conclusions or extracts from or regarding our reports is reserved pending our written approval. Test results apply specifically to the samples tested only. The entire report shall not be reproduced, except in full, without the written approval of the laboratory. Samples will be disposed of after testing is completed unless other arrangements are agreed to in writing.

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION SURFACE WATER
Project No.: 1157561506.219
Laboratory No.: 2008080135-1
Sample Name: GLENGARRY MILLSITE
Sample Date/Time: 08/15/2008 07:15:00
Collected by: MICHAEL T. MEREDITH
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD SURFACE WATER 2008/2009						
Acidity as CaCO3	22	mg/l	RM	2	2310 B	08/22/2008 04:13:44 PM
Alkalinity Bicarbonate as HCO3	2	mg/l	RM	1	2320B	08/18/2008 01:28:00 PM
Alkalinity Carbonate as CO3	0	mg/l	RM	0	2320B	08/18/2008 01:28:00 PM
Alkalinity Total as CaCO3	2	mg/l	RM	1	2320B	08/18/2008 01:28:00 PM
Chloride as Cl	1	mg/l	MRK	1	300.0	08/23/2008 05:24:00 AM
Sulfate as SO4	118	mg/l	MRK	5	300.0	08/23/2008 05:24:00 AM
Hardness as CaCO3	84	mg/l	BH	7	2340B	08/22/2008 03:39:00 PM
Electrical Conductivity	268	umhos/cm	MRK	10	2510B	08/25/2008 01:50:00 PM
pH	6.2	S.U.	ES	0.1-13.5	4500-H+-B	08/15/2008 03:00:00 PM
Total Dissolved Solids	229	mg/l	RM	20	2540C	08/19/2008 09:11:00 AM
Total Suspended Solids	31	mg/l	RM	5	2540D	08/19/2008 09:06:00 AM
Aluminum as Al (Dissolved)	0.06	mg/l	BH	0.05	200.7	08/22/2008 03:39:00 PM
Aluminum as Al (Total Recoverable)	0.34	mg/l	BH	0.05	200.7	09/02/2008 04:10:00 PM
Cadmium as Cd (Dissolved)	<0.0001	mg/l	DK	0.0001	200.8	08/26/2008 04:35:00 PM
Cadmium as Cd (Total Recoverable)	0.0002	mg/l	DK	0.0001	200.8	08/29/2008 11:31:00 AM
Calcium as Ca (Dissolved)	27	mg/l	BH	1	200.7	08/22/2008 03:39:00 PM
Calcium as Ca (Total Recoverable)	25	mg/l	KC	1	200.7	08/26/2008 07:18:00 PM
Copper as Cu (Dissolved)	0.009	mg/l	DK	0.001	200.8	08/27/2008 01:33:00 PM
Copper as Cu (Total Recoverable)	0.045	mg/l	DK	0.001	200.8	08/29/2008 11:31:00 AM
Iron as Fe (Dissolved)	15.8	mg/l	BH	0.01	200.7	08/22/2008 03:39:00 PM
Iron as Fe (Total Recoverable)	18.9	mg/l	BH	0.01	200.7	09/02/2008 04:10:00 PM
Lead as Pb (Dissolved)	<0.001	mg/l	DK	0.001	200.8	08/26/2008 04:35:00 PM
Lead as Pb (Total Recoverable)	0.002	mg/l	DK	0.001	200.8	08/29/2008 11:31:00 AM
Magnesium as Mg (Dissolved)	4	mg/l	BH	1	200.7	08/22/2008 03:39:00 PM
Magnesium as Mg (Total Recoverable)	4	mg/l	KC	1	200.7	08/26/2008 07:18:00 PM
Manganese as Mn (Dissolved)	1.13	mg/l	BH	0.003	200.7	08/22/2008 03:39:00 PM
Manganese as Mn (Total Recoverable)	1.07	mg/l	BH	0.003	200.7	09/02/2008 04:10:00 PM
Potassium as K (Dissolved)	2	mg/l	BH	1	200.7	08/22/2008 03:39:00 PM
Potassium as K (Total Recoverable)	2	mg/l	KC	1	200.7	08/26/2008 07:18:00 PM
Sodium as Na (Dissolved)	7	mg/l	BH	1	200.7	08/22/2008 03:39:00 PM
Sodium as Na (Total Recoverable)	7	mg/l	KC	1	200.7	08/26/2008 07:18:00 PM
Zinc as Zn (Dissolved)	0.12	mg/l	BH	0.01	200.7	08/22/2008 03:39:00 PM
Zinc as Zn (Total Recoverable)	0.13	mg/l	BH	0.01	200.7	09/02/2008 04:10:00 PM
Cations	2.47	meq/l	---	0.30	1030F	
Anions	2.53	meq/l	---	0.38	1030F	
Cation/Anion Balance	1.20	% [max 2%]	---	-----	AWWA/APHA	
Metals Batch#/Digestion Date	1737	-----	DK	-----	200.2	08/19/2008 02:15:00 PM

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION SURFACE WATER
Project No.: 1157561506.219
Laboratory No.: 2008080135-2
Sample Name: DUPLICATE (BATCH)
Sample Date/Time: ----- -----
Collected by: CLIENT
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD SURFACE WATER 2008/2009						
Acidity as CaCO3	20	RPD [0-20]	RM	2	2310 B	08/22/2008 04:06:30 PM
Alkalinity Bicarbonate as HCO3	0	RPD [0-20]	RM	1	2320B	08/18/2008 01:28:00 PM
Alkalinity Carbonate as CO3	0	RPD [0-20]	RM	0	2320B	08/18/2008 01:28:00 PM
Alkalinity Total as CaCO3	0	RPD [0-20]	RM	1	2320B	08/18/2008 01:28:00 PM
Chloride as Cl	0	RPD [0-20]	MRK	1	300.0	08/23/2008 07:57:00 AM
Sulfate as SO4	0	RPD [0-20]	MRK	5	300.0	08/23/2008 07:57:00 AM
Hardness as CaCO3	NA	-----	-----	-----	-----	-----
Electrical Conductivity	5	RPD [0-20]	MRK	10	2510B	08/25/2008 01:50:00 PM
pH	0	RPD [0-20]	ES	0.1-13.5	4500-H+-B	08/15/2008 03:00:00 PM
Total Dissolved Solids	3	RPD [0-20]	RM	20	2540C	08/19/2008 09:11:00 AM
Total Suspended Solids	0	RPD [0-20]	RM	10	2540D	08/19/2008 09:06:00 AM
Aluminum as Al (Dissolved)	15	RPD [0-20]	BH	0.05	200.7	08/22/2008 03:42:00 PM
Aluminum as Al (Total Recoverable)	AVD<RL	[RL]	BH	0.05	200.7	09/02/2008 04:19:00 PM
Cadmium as Cd (Dissolved)	0	RPD [0-20]	DK	0.0001	200.8	08/26/2008 03:46:00 PM
Cadmium as Cd (Total Recoverable)	5	RPD [0-20]	DK	0.0001	200.8	08/29/2008 11:12:00 AM
Calcium as Ca (Dissolved)	4	RPD [0-20]	BH	1	200.7	08/22/2008 03:42:00 PM
Calcium as Ca (Total Recoverable)	2	RPD [0-20]	KC	1	200.7	08/26/2008 02:08:00 PM
Copper as Cu (Dissolved)	12	RPD [0-20]	DK	0.001	200.8	08/27/2008 01:37:00 PM
Copper as Cu (Total Recoverable)	0	RPD [0-20]	DK	0.001	200.8	08/29/2008 11:12:00 AM
Iron as Fe (Dissolved)	4	RPD [0-20]	BH	0.01	200.7	08/22/2008 03:42:00 PM
Iron as Fe (Total Recoverable)	AVD<RL	[RL]	BH	0.01	200.7	09/02/2008 04:19:00 PM
Lead as Pb (Dissolved)	0	RPD [0-20]	DK	0.001	200.8	08/26/2008 03:46:00 PM
Lead as Pb (Total Recoverable)	0	RPD [0-20]	DK	0.001	200.8	08/29/2008 11:12:00 AM
Magnesium as Mg (Dissolved)	0	RPD [0-20]	BH	1	200.7	08/22/2008 03:42:00 PM
Magnesium as Mg (Total Recoverable)	3	RPD [0-20]	KC	1	200.7	08/26/2008 02:08:00 PM
Manganese as Mn (Dissolved)	5	RPD [0-20]	BH	0.003	200.7	08/22/2008 03:42:00 PM
Manganese as Mn (Total Recoverable)	0	RPD [0-20]	BH	0.003	200.7	09/02/2008 04:19:00 PM
Potassium as K (Dissolved)	0	RPD [0-20]	BH	1	200.7	08/22/2008 03:42:00 PM
Potassium as K (Total Recoverable)	2	RPD [0-20]	KC	1	200.7	08/26/2008 02:08:00 PM
Sodium as Na (Dissolved)	0	RPD [0-20]	BH	1	200.7	08/22/2008 03:42:00 PM
Sodium as Na (Total Recoverable)	0	RPD [0-20]	KC	1	200.7	08/26/2008 02:08:00 PM
Zinc as Zn (Dissolved)	9	RPD [0-20]	BH	0.01	200.7	08/22/2008 03:42:00 PM
Zinc as Zn (Total Recoverable)	0	RPD [0-20]	BH	0.01	200.7	09/02/2008 04:19:00 PM
Metals Batch#/Digestion Date	1737	-----	DK	-----	200.2	08/19/2008 02:15:00 PM

Northern Analytical Laboratories, Inc.

AVD<RL means the absolute value difference between the sample and its duplicate was less than the reporting limit. The reporting limit is the control limit for the duplicate pair.

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION SURFACE WATER
Project No.: 1157561506.219
Laboratory No.: 2008080135-3
Sample Name: MATRIX SPIKE (BATCH)
Sample Date/Time: ----- -----
Collected by: CLIENT
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD SURFACE WATER 2008/2009						
Acidity as CaCO3	103	%[70-132]	RM	2	2310 B	08/22/2008 04:19:09 PM
Alkalinity Bicarbonate as HCO3	NA	-----	-----	-----	-----	----
Alkalinity Carbonate as CO3	NA	-----	-----	-----	-----	----
Alkalinity Total as CaCO3	101	% [77-116]	RM	1	2320B	08/18/2008 01:28:00 PM
Chloride as Cl	109	% [84-124]	MRK	1	300.0	08/23/2008 03:22:00 AM
Sulfate as SO4	106	% [84-124]	MRK	5	300.0	08/23/2008 04:23:00 AM
Hardness as CaCO3	NA	-----	-----	-----	-----	-----
Electrical Conductivity	NA	-----	-----	-----	-----	-----
pH	NA	-----	-----	-----	-----	-----
Total Dissolved Solids	NA	-----	-----	-----	-----	-----
Total Suspended Solids	NA	-----	-----	-----	-----	-----
Aluminum as Al (Dissolved)	103	% [81-117]	BH	0.05	200.7	08/22/2008 03:45:00 PM
Aluminum as Al (Total Recoverable)	112	% [82-128]	BH	0.05	200.7	09/02/2008 04:13:00 PM
Cadmium as Cd (Dissolved)	101	% [81-116]	DK	0.0001	200.8	08/26/2008 03:52:00 PM
Cadmium as Cd (Total Recoverable)	109	% [83-116]	DK	0.0001	200.8	08/29/2008 11:24:00 AM
Calcium as Ca (Dissolved)	107	% [78-122]	BH	1	200.7	08/22/2008 03:48:00 PM
Calcium as Ca (Total Recoverable)	101	% [71-130]	KC	1	200.7	08/26/2008 07:24:00 PM
Copper as Cu (Dissolved)	92	% [70-114]	DK	0.001	200.8	08/27/2008 01:43:00 PM
Copper as Cu (Total Recoverable)	95	% [70-117]	DK	0.001	200.8	08/29/2008 11:24:00 AM
Iron as Fe (Dissolved)	84 (2)	% [87-111]	BH	0.01	200.7	08/22/2008 03:45:00 PM
Iron as Fe (Total Recoverable)	109	% [82-124]	BH	0.01	200.7	09/02/2008 04:13:00 PM
Lead as Pb (Dissolved)	100	% [82-117]	DK	0.001	200.8	08/26/2008 03:52:00 PM
Lead as Pb (Total Recoverable)	104	% [81-121]	DK	0.001	200.8	08/29/2008 11:24:00 AM
Magnesium as Mg (Dissolved)	107	% [84-118]	BH	1	200.7	08/22/2008 03:48:00 PM
Magnesium as Mg (Total Recoverable)	101	% [77-126]	KC	1	200.7	08/26/2008 07:24:00 PM
Manganese as Mn (Dissolved)	105	% [81-114]	BH	0.003	200.7	08/22/2008 03:45:00 PM
Manganese as Mn (Total Recoverable)	102	% [78-121]	BH	0.003	200.7	09/02/2008 04:13:00 PM
Potassium as K (Dissolved)	104	% [85-120]	BH	1	200.7	08/22/2008 03:48:00 PM
Potassium as K (Total Recoverable)	97	% [86-125]	KC	1	200.7	08/26/2008 07:24:00 PM
Sodium as Na (Dissolved)	101	% [73-124]	BH	1	200.7	08/22/2008 03:48:00 PM
Sodium as Na (Total Recoverable)	101	% [70-130]	KC	1	200.7	08/26/2008 07:24:00 PM
Zinc as Zn (Dissolved)	102	% [89-113]	BH	0.01	200.7	08/22/2008 03:45:00 PM
Zinc as Zn (Total Recoverable)	103	% [84-121]	BH	0.01	200.7	09/02/2008 04:13:00 PM
Metals Batch#/Digestion Date	1737	-----	DK	-----	200.2	08/19/2008 02:15:00 PM

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION SURFACE WATER
Project No.: 1157561506.219
Laboratory No.: 2008080135-4
Sample Name: METHOD BLANK
Sample Date/Time: ----- -----
Collected by: PREPARED BY LAB
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD SURFACE WATER 2008/2009						
Acidity as CaCO3	<1	mg/l	RM	1	2310 B	08/22/2008 04:00:57 PM
Alkalinity Bicarbonate as HCO3	<1	mg/l	RM	1	2320B	08/18/2008 01:28:00 PM
Alkalinity Carbonate as CO3	0	mg/l	RM	0	2320B	08/18/2008 01:28:00 PM
Alkalinity Total as CaCO3	<1	mg/l	RM	1	2320B	08/18/2008 01:28:00 PM
Chloride as Cl	<1	mg/l	MRK	1	300.0	08/22/2008 05:43:00 PM
Sulfate as SO4	<5	mg/l	MRK	5	300.0	08/22/2008 05:43:00 PM
Hardness as CaCO3	<7	mg/l	BH	7	2340B	08/22/2008 02:19:00 PM
Electrical Conductivity	<10	umhos/cm	MRK	10	2510B	08/25/2008 01:50:00 PM
pH	NA	-----	-----	-----	-----	-----
Total Dissolved Solids	<20	mg/l	RM	20	2540C	08/19/2008 09:11:00 AM
Total Suspended Solids	<1	mg/l	RM	1	2540D	08/19/2008 09:06:00 AM
Aluminum as Al (Dissolved)	<0.05	mg/l	BH	0.05	200.7	08/22/2008 02:19:00 PM
Aluminum as Al (Total Recoverable)	<0.05	mg/l	BH	0.05	200.7	09/02/2008 04:04:00 PM
Cadmium as Cd (Dissolved)	<0.0001	mg/l	DK	0.0001	200.8	08/26/2008 03:21:00 PM
Cadmium as Cd (Total Recoverable)	<0.0001	mg/l	DK	0.0001	200.8	08/29/2008 10:54:00 AM
Calcium as Ca (Dissolved)	<1	mg/l	BH	1	200.7	08/22/2008 02:19:00 PM
Calcium as Ca (Total Recoverable)	<1	mg/l	KC	1	200.7	08/26/2008 07:09:00 PM
Copper as Cu (Dissolved)	<0.001	mg/l	DK	0.001	200.8	08/27/2008 01:21:00 PM
Copper as Cu (Total Recoverable)	<0.001	mg/l	DK	0.001	200.8	08/29/2008 10:54:00 AM
Iron as Fe (Dissolved)	0.02 B	mg/l	BH	0.01	200.7	08/22/2008 02:19:00 PM
Iron as Fe (Total Recoverable)	0.02 B	mg/l	BH	0.01	200.7	09/02/2008 04:04:00 PM
Lead as Pb (Dissolved)	<0.001	mg/l	DK	0.001	200.8	08/26/2008 03:21:00 PM
Lead as Pb (Total Recoverable)	<0.001	mg/l	DK	0.001	200.8	08/29/2008 10:54:00 AM
Magnesium as Mg (Dissolved)	<1	mg/l	BH	1	200.7	08/22/2008 02:19:00 PM
Magnesium as Mg (Total Recoverable)	<1	mg/l	KC	1	200.7	08/26/2008 07:09:00 PM
Manganese as Mn (Dissolved)	<0.003	mg/l	BH	0.003	200.7	08/22/2008 02:19:00 PM
Manganese as Mn (Total Recoverable)	<0.003	mg/l	BH	0.003	200.7	09/02/2008 04:04:00 PM
Potassium as K (Dissolved)	<1	mg/l	BH	1	200.7	08/22/2008 02:19:00 PM
Potassium as K (Total Recoverable)	<1	mg/l	KC	1	200.7	08/26/2008 07:09:00 PM
Sodium as Na (Dissolved)	<1	mg/l	BH	1	200.7	08/22/2008 02:19:00 PM
Sodium as Na (Total Recoverable)	<1	mg/l	KC	1	200.7	08/26/2008 07:09:00 PM
Zinc as Zn (Dissolved)	<0.01	mg/l	BH	0.01	200.7	08/22/2008 02:19:00 PM
Zinc as Zn (Total Recoverable)	<0.01	mg/l	BH	0.01	200.7	09/02/2008 04:04:00 PM
Metals Batch#/Digestion Date	1737	-----	DK	-----	200.2	08/19/2008 02:15:00 PM

Client: TETRA TECH, INC.
Project Name: NEW WORLD RESPONSE & RESTORATION SURFACE WATER
Project No.: 1157561506.219
Laboratory No.: 2008080135-5
Sample Name: LABORATORY CONTROL SAMPLE
Sample Date/Time: ----- -----
Collected by: PREPARED BY LAB
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD SURFACE WATER 2008/2009						
Acidity as CaCO3	110	% [91-116]	RM	1	2310 B	08/22/2008 03:53:46 PM
Alkalinity Bicarbonate as HCO3	NA	-----	-----	-----	----	-----
Alkalinity Carbonate as CO3	NA	-----	-----	-----	----	-----
Alkalinity Total as CaCO3	104	% [89-110]	RM	1	2320B	08/18/2008 01:28:00 PM
Chloride as Cl	96	% [90-110]	MRK	1	300.0	08/22/2008 06:13:00 PM
Sulfate as SO4	102	% [90-110]	MRK	5	300.0	08/22/2008 06:13:00 PM
Hardness as CaCO3	NA	-----	-----	-----	-----	-----
Electrical Conductivity	99	% [92-120]	MRK	10	2510B	08/25/2008 01:50:00 PM
pH	100	% [99-101]	ES	0.1-13.5	4500-H+-B	08/15/2008 03:00:00 PM
Total Dissolved Solids	100	% [90-106]	RM	20	2540C	08/19/2008 09:11:00 AM
Total Suspended Solids	90	% [71-129]	RM	10	2540D	08/19/2008 09:06:00 AM
Aluminum as Al (Dissolved)	101	% [86-112]	BH	0.05	200.7	08/22/2008 02:23:00 PM
Aluminum as Al (Total Recoverable)	106	% [88-115]	BH	0.05	200.7	09/02/2008 04:07:00 PM
Cadmium as Cd (Dissolved)	96	% [86-113]	DK	0.0001	200.8	08/26/2008 03:27:00 PM
Cadmium as Cd (Total Recoverable)	106	% [85-115]	DK	0.0001	200.8	08/29/2008 11:00:00 AM
Calcium as Ca (Dissolved)	102	% [91-114]	BH	1	200.7	08/22/2008 02:26:00 PM
Calcium as Ca (Total Recoverable)	101	% [91-115]	KC	1	200.7	08/26/2008 07:15:00 PM
Copper as Cu (Dissolved)	102	% [85-114]	DK	0.001	200.8	08/27/2008 01:23:00 PM
Copper as Cu (Total Recoverable)	100	% [85-115]	DK	0.001	200.8	08/29/2008 11:00:00 AM
Iron as Fe (Dissolved)	102	% [90-112]	BH	0.01	200.7	08/22/2008 02:23:00 PM
Iron as Fe (Total Recoverable)	107	% [91-115]	BH	0.01	200.7	09/02/2008 04:07:00 PM
Lead as Pb (Dissolved)	96	% [87-114]	DK	0.001	200.8	08/26/2008 03:27:00 PM
Lead as Pb (Total Recoverable)	105	% [85-115]	DK	0.001	200.8	08/29/2008 11:00:00 AM
Magnesium as Mg (Dissolved)	105	% [89-112]	BH	1	200.7	08/22/2008 02:26:00 PM
Magnesium as Mg (Total Recoverable)	98	% [90-115]	KC	1	200.7	08/26/2008 07:15:00 PM
Manganese as Mn (Dissolved)	102	% [92-114]	BH	0.003	200.7	08/22/2008 02:23:00 PM
Manganese as Mn (Total Recoverable)	107	% [94-115]	BH	0.003	200.7	09/02/2008 04:07:00 PM
Potassium as K (Dissolved)	96	% [86-114]	BH	1	200.7	08/22/2008 02:26:00 PM
Potassium as K (Total Recoverable)	98	% [87-115]	KC	1	200.7	08/26/2008 07:15:00 PM
Sodium as Na (Dissolved)	97	% [87-112]	BH	1	200.7	08/22/2008 02:26:00 PM
Sodium as Na (Total Recoverable)	101	% [87-115]	KC	1	200.7	08/26/2008 07:15:00 PM
Zinc as Zn (Dissolved)	100	% [89-113]	BH	0.01	200.7	08/22/2008 02:23:00 PM
Zinc as Zn (Total Recoverable)	104	% [89-115]	BH	0.01	200.7	09/02/2008 04:07:00 PM
Metals Batch#/Digestion Date	1737	-----	DK	-----	200.2	08/19/2008 02:15:00 PM

New World Response and Restoration
Project or Site Name

115 7561506.219
Project Number

Michael T. Meredith
Sampler Name (Printed)

Allan Kirk
Contact Name

CHAIN OF CUSTODY RECORD

NORTHERN
Analytical Laboratories, Inc.

602 South 25th Street
Billings, Montana 59101
Ph: 406-254-7226 • Fax: 406-254-1389

Tetra Tech
Report to (Firm or Agency)

851 Bridger Dr, Ste 6
Address

Bozeman, MT 59715
City State Zip

582-8780
Phone Fax

DATE COLLECTED	TIME COLLECTED	SAMPLE LOCATION OR DESCRIPTION	COMP OR GRAB	SAMPLE MATRIX	NO. OF CONTAINERS	ANALYSIS REQUIRED	NOTES	LAB NUMBER ✓ CC
								20080801 35
8/15/08	0715	Glengarry Millsite	G	Water	4		See Table 5 (attached)	-1
							BQC	2
								3
								4
								5

Relinquished by:	Date	Time	Received by:
Mult. Meredith	8/15/08	1330	Norma C. Frankle
Relinquished by:	Date	Time	Received by:
Relinquished by:	Date	Time	Received by:

Batch DUP - 2
Batch MS - 3
MB - 4
LFB 5

NORTHERN
Analytical Laboratories, Inc.

SAMPLE RECEIPT CHECKLIST

Dear Valued Client: This checklist documents the condition of your sample(s) as it (they) arrived at our lab. Please review it and familiarize yourself with its contents. Should you have any questions or comments, please contact us. Thank you for your use of our services.

Client Name: Tetra Tech

Project: New World

Laboratory Number(s): 20080801355

Checklist Completed by: MK 8/15/08 (Initials / Date)

Date/Time Received: 8/15/08 13:30 (Date / Time)

Received by: Norma T

Carrier Name:

Sample Type: Water

	YES	NO
1. Shipping container in good condition?	✓	
2. Custody seals present on shipping container? Condition: Intact ____ Broken ____	NA	
3. Chain of custody present?	✓	
4. Chain of custody signed when relinquished and received?	✓	
5. Chain of custody agrees with sample labels?	✓	
6. Custody seals on sample bottles? Condition: Intact ____ Broken ____	NA	
7. Samples in proper container/bottle?*	✓	
8. Sample containers intact?*	✓	
9. Sufficient sample volume for indicated test?*	✓	
10. Ice/Frozen Blue Ice present in shipping container? (circle one)	6°	
container temperature 1.____ 2.____ 3.____ * (if <0 or>10)		
11. All samples rec'd within holding time?*	✓	
12. VOA vials have zero headspace? * (if contains >5mm headspace)	NA	
13. Trip Blank received?	✓	

	YES	NO
14. pH check performed by: KC		
15. Metals bottle(s) pH <2?		
16. Nutrient bottle(s) pH <2?	NA	
17. Cyanide bottle(s) pH >12?		
18. Sulfide bottle(s) pH >9?		
19. TOC bottle(s) pH <2?		
20. Phenolics bottle(s) pH <2?		
21. Oil & grease bottle(s) pH <2? (checked by analyst)		
22. EPH/DRO bottle(s) pH <2? (checked by analyst)		
23. Volatiles (VOA) pH <2? (checked by analyst)		
24. Semivolatiles (525) pH <2? (checked by analyst)		
25. Other test types		
26. Client contacted?		
27. Person contacted		
28. Date contacted		

NOTES: **Samples may be affected when not transported at the temperature recommended by the EPA for the test you've selected. Please contact the lab if you have concerns about the temperature of your samples.**

*** Critical item - if marked "NO" contact lab manager.**

COMMENTS: _____

TABLE 5
SURFACE WATER ANALYTICAL REQUIREMENTS
2008/2009 Work Plan

Parameter	PQL (mg/L)[1]	EPA Method No.	Max. Holding Time
Physicochemical			
Specific Conductivity	None	2310B	28 days
pH	None	150.1	Upon arrival at lab
Total Dissolved Solids	None	2340C	7 days
Total Suspended Solids	None	160.2	7 days
Hardness	None	2340B	6 months
Acidity	None	305.1	14 days
Metals[2]			
Aluminum	0.05	200.8/200.7	6 months
Cadmium	0.0001	200.8/200.7	6 months
Copper	0.001	200.8/200.7	6 months
Iron	0.01	200.8/200.7	6 months
Lead	0.001	200.8/200.7	6 months
Manganese	0.003	200.8/200.7	6 months
Zinc	0.01	200.8/200.7	6 months
Common Cations[2]			
Calcium	1.0	200.8/200.7	6 months
Magnesium	1.0	200.8/200.7	6 months
Potassium	1.0	200.8/200.7	6 months
Sodium	1.0	200.8/200.7	6 months
Common Anions[2]			
Sulfate	None	375.2	28 Days
Bicarbonate	None	2320B	14 Days
Carbonate	None	2320B	14 Days
Chloride	None	325.3	28 Days

1 PQL = Practical Quantitation Limit in milligrams per liter (mg/L)
2 Surface water parameters will be analyzed as total recoverable (unfiltered); for the select stations shown in Table 2, both total and dissolved metals will be analyzed.

NORTHERN
Analytical Laboratories, Inc.

602 South 25th Street
P O Box 30315
Billings, MT 59107
Telephone: (406) 254-7226
Fax: (406) 254-1389

REPORT TO: TETRA TECH, INC.
303 IRENE STREET
HELENA, MT 59601

DATE: October 28, 2008
JOB NUMBER: 87-911-12
PAGE: 1 of 48
INVOICE NO.: 8090265

REPORT OF: Water Analysis – New World Surface Water – Project No. 1157561506.209

CASE NARRATIVE:

On September 25, 2008, these water samples (laboratory numbers 2008090265-1 through -32) were received in our laboratory for analysis. Tests were conducted in accordance with *"Standard Methods for the Examination of Water and Wastewater"*, 20th Edition; EPA/600/R-93-100 *"Methods for the Determination of Inorganic Substances in Environmental Samples"*, EPA/600/R-94-111 *"Methods for the Determination of Metals in Environmental Samples"*, Supplement I; and Code of Federal Regulations, Title 40, Part 136.

The results of the analysis are shown on the following pages. A < sign indicates the value reported was the reporting limit for this sample using the method described. Concentrations of analyte, if present, below this were not quantifiable. Sample results are not corrected for analyte blank concentrations. Values in brackets are the quality control limits for the associated quality control test. RPD is the abbreviation for relative percent difference.

The condition of the samples upon receipt at the laboratory is noted on the attached sample receipt checklist. Chain of custody documentation is enclosed.

Footnotes used in this report include the following:
(2) The recovery of the matrix spike is outside the stated quality control limit. However, the sample result was greater than four times the spike added, therefore no corrective action was required.

Reviewed by _____
Kathleen A. Smith – Laboratory Manager

Cc: Mark F. Pearson
Tetra Tech, Inc.
Bozeman, MT

Attachments: Chain of Custody (3)
Sample Receipt Checklist
Table 5
Example Report Page

nct

As a mutual protection to clients, the public and ourselves, all reports are submitted as the confidential property of our clients and authorization for publication of statements, conclusions or extracts from or regarding our reports is reserved pending our written approval. Test results apply specifically to the samples tested only. The entire report shall not be reproduced, except in full, without the written approval of the laboratory. Samples will be disposed of after testing is completed unless other arrangements are agreed to in writing.

Client: TETRA TECH, INC.
Project Name: NEW WORLD SURFACE WATER
Project No.: 1157561506.209
Laboratory No.: 2008090265-1
Sample Name: RR-FCT-11
Sample Date/Time: 09/22/2008 11:40:00
Collected by: R. HIBBS/ M. PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD SURFACE WATER 2008/2009						
Acidity as CaCO3	48	mg/l	ES	2	2310 B	10/03/2008 05:09:42 PM
Alkalinity Bicarbonate as HCO3	<1	mg/l	ES	1	2320B	10/06/2008 04:00:00 PM
Alkalinity Carbonate as CO3	0	mg/l	ES	0	2320B	10/06/2008 04:00:00 PM
Alkalinity Total as CaCO3	<1	mg/l	ES	1	2320B	10/06/2008 04:00:00 PM
Chloride as Cl	2	mg/l	MRK	2	300.0	10/11/2008 08:36:00 PM
Sulfate as SO4	214	mg/l	MRK	10	300.0	10/11/2008 08:36:00 PM
Hardness as CaCO3	163	mg/l	BH	7	2340B	10/03/2008 04:46:00 PM
Electrical Conductivity	501	umhos/cm	MRK	10	2510B	10/10/2008 02:38:00 PM
pH	4.3	S.U.	CC	0.1-13.5	4500-H+-B	09/25/2008 05:59:00 PM
Total Dissolved Solids	340	mg/l	RM	20	2540C	09/29/2008 08:15:00 AM
Total Suspended Solids	12	mg/l	RM	12	2540D	09/29/2008 08:15:00 AM
Aluminum as Al (Dissolved)	1.61	mg/l	BH	0.05	200.7	10/03/2008 04:46:00 PM
Aluminum as Al (Total Recoverable)	2.74	mg/l	BH	0.05	200.7	10/06/2008 06:02:00 PM
Cadmium as Cd (Dissolved)	0.0004	mg/l	BH	0.0001	200.8	10/07/2008 09:06:00 PM
Cadmium as Cd (Total Recoverable)	0.0004	mg/l	BH	0.0001	200.8	10/10/2008 01:00:00 PM
Calcium as Ca (Dissolved)	47	mg/l	BH	1	200.7	10/03/2008 04:46:00 PM
Calcium as Ca (Total Recoverable)	45	mg/l	BH	1	200.7	10/06/2008 06:02:00 PM
Copper as Cu (Dissolved)	0.28	mg/l	BH	0.001	200.8	10/07/2008 09:06:00 PM
Copper as Cu (Total Recoverable)	0.34	mg/l	BH	0.001	200.8	10/10/2008 01:00:00 PM
Iron as Fe (Dissolved)	18.2	mg/l	BH	0.01	200.7	10/03/2008 04:46:00 PM
Iron as Fe (Total Recoverable)	18.8	mg/l	BH	0.01	200.7	10/06/2008 06:02:00 PM
Lead as Pb (Dissolved)	<0.001	mg/l	BH	0.001	200.8	10/07/2008 09:06:00 PM
Lead as Pb (Total Recoverable)	<0.001	mg/l	BH	0.001	200.8	10/10/2008 01:00:00 PM
Magnesium as Mg (Dissolved)	11	mg/l	BH	1	200.7	10/03/2008 04:46:00 PM
Magnesium as Mg (Total Recoverable)	11	mg/l	BH	1	200.7	10/06/2008 06:02:00 PM
Manganese as Mn (Dissolved)	1.53	mg/l	BH	0.003	200.7	10/03/2008 04:46:00 PM
Manganese as Mn (Total Recoverable)	1.49	mg/l	BH	0.005	200.7	10/06/2008 06:02:00 PM
Potassium as K (Dissolved)	4	mg/l	BH	1	200.7	10/03/2008 04:46:00 PM
Potassium as K (Total Recoverable)	4	mg/l	BH	1	200.7	10/06/2008 06:02:00 PM
Sodium as Na (Dissolved)	3	mg/l	BH	1	200.7	10/03/2008 04:46:00 PM
Sodium as Na (Total Recoverable)	3	mg/l	BH	1	200.7	10/06/2008 06:02:00 PM
Zinc as Zn (Dissolved)	0.15	mg/l	BH	0.01	200.7	10/03/2008 04:46:00 PM
Zinc as Zn (Total Recoverable)	0.15	mg/l	BH	0.01	200.7	10/06/2008 06:02:00 PM
Cations	4.44	meq/l	---	0.38	1030F	
Anions	4.51	meq/l	---	0.20	1030F	
Cation/Anion Balance	0.78	% [max 2%]	---	-----	AWWA/APHA	
Metals Batch#/Digestion Date	1783	-----	BH	-----	200.2	10/03/2008 10:45:00 AM

Client: TETRA TECH, INC.
Project Name: NEW WORLD SURFACE WATER
Project No.: 1157561506.209
Laboratory No.: 2008090265-2
Sample Name: RR-FCSI-96-5
Sample Date/Time: 09/22/2008 12:30:00
Collected by: R. HIBBS/ M. PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD SURFACE WATER 2008/2009						
Acidity as CaCO3	<2	mg/l	ES	2	2310 B	10/03/2008 05:09:42 PM
Alkalinity Bicarbonate as HCO3	54	mg/l	ES	1	2320B	10/06/2008 04:00:00 PM
Alkalinity Carbonate as CO3	0	mg/l	ES	0	2320B	10/06/2008 04:00:00 PM
Alkalinity Total as CaCO3	45	mg/l	ES	1	2320B	10/06/2008 04:00:00 PM
Chloride as Cl	<1	mg/l	MRK	1	300.0	10/11/2008 09:37:00 PM
Sulfate as SO4	48	mg/l	MRK	5	300.0	10/11/2008 09:37:00 PM
Hardness as CaCO3	98	mg/l	BH	7	2340B	10/03/2008 05:01:00 PM
Electrical Conductivity	198	umhos/cm	MRK	10	2510B	10/10/2008 02:38:00 PM
pH	7.1	S.U.	CC	0.1-13.5	4500-H+-B	09/25/2008 05:59:00 PM
Total Dissolved Solids	128	mg/l	RM	20	2540C	09/29/2008 08:15:00 AM
Total Suspended Solids	<1	mg/l	RM	1	2540D	09/29/2008 08:15:00 AM
Aluminum as Al (Dissolved)	<0.05	mg/l	BH	0.05	200.7	10/03/2008 05:01:00 PM
Aluminum as Al (Total Recoverable)	<0.05	mg/l	BH	0.05	200.7	10/06/2008 06:08:00 PM
Cadmium as Cd (Dissolved)	0.0001	mg/l	BH	0.0001	200.8	10/07/2008 09:18:00 PM
Cadmium as Cd (Total Recoverable)	0.0001	mg/l	DK	0.0001	200.8	10/14/2008 10:21:00 AM
Calcium as Ca (Dissolved)	26	mg/l	BH	1	200.7	10/03/2008 05:01:00 PM
Calcium as Ca (Total Recoverable)	25	mg/l	BH	1	200.7	10/06/2008 06:08:00 PM
Copper as Cu (Dissolved)	<0.001	mg/l	BH	0.001	200.8	10/07/2008 09:18:00 PM
Copper as Cu (Total Recoverable)	0.002	mg/l	DK	0.001	200.8	10/14/2008 10:21:00 AM
Iron as Fe (Dissolved)	<0.01	mg/l	BH	0.01	200.7	10/03/2008 05:01:00 PM
Iron as Fe (Total Recoverable)	0.17	mg/l	BH	0.01	200.7	10/06/2008 06:08:00 PM
Lead as Pb (Dissolved)	<0.001	mg/l	BH	0.001	200.8	10/07/2008 09:18:00 PM
Lead as Pb (Total Recoverable)	0.001	mg/l	BH	0.001	200.8	10/10/2008 01:12:00 PM
Magnesium as Mg (Dissolved)	8	mg/l	BH	1	200.7	10/03/2008 05:01:00 PM
Magnesium as Mg (Total Recoverable)	9	mg/l	BH	1	200.7	10/06/2008 06:08:00 PM
Manganese as Mn (Dissolved)	0.072	mg/l	BH	0.003	200.7	10/03/2008 05:01:00 PM
Manganese as Mn (Total Recoverable)	0.11	mg/l	BH	0.005	200.7	10/06/2008 06:08:00 PM
Potassium as K (Dissolved)	1	mg/l	BH	1	200.7	10/03/2008 05:01:00 PM
Potassium as K (Total Recoverable)	1	mg/l	BH	1	200.7	10/06/2008 06:08:00 PM
Sodium as Na (Dissolved)	2	mg/l	BH	1	200.7	10/03/2008 05:01:00 PM
Sodium as Na (Total Recoverable)	2	mg/l	BH	1	200.7	10/06/2008 06:08:00 PM
Zinc as Zn (Dissolved)	0.03	mg/l	BH	0.01	200.7	10/03/2008 05:01:00 PM
Zinc as Zn (Total Recoverable)	0.04	mg/l	BH	0.01	200.7	10/06/2008 06:08:00 PM
Cations	2.07	meq/l	---	0.38	1030F	
Anions	1.90	meq/l	---	0.20	1030F	
Cation/Anion Balance	0.17	[max 0.2]	---	-----	AWWA/APHA	
Metals Batch#/Digestion Date	1783	-----	BH	-----	200.2	10/03/2008 10:45:00 AM

Client: TETRA TECH, INC.
Project Name: NEW WORLD SURFACE WATER
Project No.: 1157561506.209
Laboratory No.: 2008090265-3
Sample Name: RR-FCT-12
Sample Date/Time: 09/22/2008 13:00:00
Collected by: R. HIBBS/ M. PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD SURFACE WATER 2008/2009						
Acidity as CaCO3	15	mg/l	ES	2	2310 B	10/03/2008 05:09:42 PM
Alkalinity Bicarbonate as HCO3	<1	mg/l	ES	1	2320B	10/06/2008 04:00:00 PM
Alkalinity Carbonate as CO3	0	mg/l	ES	0	2320B	10/06/2008 04:00:00 PM
Alkalinity Total as CaCO3	<1	mg/l	ES	1	2320B	10/06/2008 04:00:00 PM
Chloride as Cl	<1	mg/l	MRK	1	300.0	10/11/2008 10:07:00 PM
Sulfate as SO4	34	mg/l	MRK	5	300.0	10/11/2008 10:07:00 PM
Hardness as CaCO3	10	mg/l	BH	7	2340B	10/03/2008 05:04:00 PM
Electrical Conductivity	88	umhos/cm	MRK	10	2510B	10/10/2008 02:38:00 PM
pH	4.4	S.U.	CC	0.1-13.5	4500-H+-B	09/25/2008 05:59:00 PM
Total Dissolved Solids	74	mg/l	RM	20	2540C	09/29/2008 08:15:00 AM
Total Suspended Solids	<1	mg/l	RM	1	2540D	09/29/2008 08:15:00 AM
Aluminum as Al (Dissolved)	1.63	mg/l	BH	0.05	200.7	10/03/2008 05:04:00 PM
Aluminum as Al (Total Recoverable)	1.67	mg/l	BH	0.05	200.7	10/06/2008 06:20:00 PM
Cadmium as Cd (Dissolved)	0.0003	mg/l	BH	0.0001	200.8	10/07/2008 09:24:00 PM
Cadmium as Cd (Total Recoverable)	0.0003	mg/l	BH	0.0001	200.8	10/10/2008 01:18:00 PM
Calcium as Ca (Dissolved)	4	mg/l	BH	1	200.7	10/03/2008 05:04:00 PM
Calcium as Ca (Total Recoverable)	4	mg/l	BH	1	200.7	10/06/2008 06:20:00 PM
Copper as Cu (Dissolved)	0.70	mg/l	BH	0.001	200.7	10/03/2008 05:04:00 PM
Copper as Cu (Total Recoverable)	0.69	mg/l	BH	0.001	200.7	10/06/2008 06:20:00 PM
Iron as Fe (Dissolved)	0.03	mg/l	BH	0.01	200.7	10/03/2008 05:04:00 PM
Iron as Fe (Total Recoverable)	0.03	mg/l	BH	0.01	200.7	10/06/2008 06:20:00 PM
Lead as Pb (Dissolved)	0.005	mg/l	BH	0.001	200.8	10/07/2008 09:24:00 PM
Lead as Pb (Total Recoverable)	0.005	mg/l	BH	0.001	200.8	10/10/2008 01:18:00 PM
Magnesium as Mg (Dissolved)	<1	mg/l	BH	1	200.7	10/03/2008 05:04:00 PM
Magnesium as Mg (Total Recoverable)	<1	mg/l	BH	1	200.7	10/06/2008 06:20:00 PM
Manganese as Mn (Dissolved)	0.22	mg/l	BH	0.003	200.7	10/03/2008 05:04:00 PM
Manganese as Mn (Total Recoverable)	0.21	mg/l	BH	0.005	200.7	10/06/2008 06:20:00 PM
Potassium as K (Dissolved)	<1	mg/l	BH	1	200.7	10/03/2008 05:04:00 PM
Potassium as K (Total Recoverable)	<1	mg/l	BH	1	200.7	10/06/2008 06:20:00 PM
Sodium as Na (Dissolved)	4	mg/l	BH	1	200.7	10/03/2008 05:04:00 PM
Sodium as Na (Total Recoverable)	3	mg/l	BH	1	200.7	10/06/2008 06:20:00 PM
Zinc as Zn (Dissolved)	0.06	mg/l	BH	0.01	200.7	10/03/2008 05:04:00 PM
Zinc as Zn (Total Recoverable)	0.06	mg/l	BH	0.01	200.7	10/06/2008 06:20:00 PM
Cations	0.67	meq/l	---	0.38	1030F	
Anions	0.71	meq/l	---	0.20	1030F	
Cation/Anion Balance	0.04	[max 0.2]	---	-----	AWWA/APHA	
Metals Batch#/Digestion Date	1783	-----	BH	-----	200.2	10/03/2008 10:45:00 AM

Client: TETRA TECH, INC.
Project Name: NEW WORLD SURFACE WATER
Project No.: 1157561506.209
Laboratory No.: 2008090265-4
Sample Name: RR-SW-3
Sample Date/Time: 09/22/2008 13:50:00
Collected by: R. HIBBS/ M. PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD SURFACE WATER 2008/2009						
Acidity as CaCO3	28	mg/l	ES	2	2310 B	10/03/2008 05:09:42 PM
Alkalinity Bicarbonate as HCO3	<1	mg/l	ES	1	2320B	10/06/2008 04:00:00 PM
Alkalinity Carbonate as CO3	0	mg/l	ES	0	2320B	10/06/2008 04:00:00 PM
Alkalinity Total as CaCO3	<1	mg/l	ES	1	2320B	10/06/2008 04:00:00 PM
Chloride as Cl	<1	mg/l	MRK	1	300.0	10/11/2008 10:38:00 PM
Sulfate as SO4	94	mg/l	MRK	5	300.0	10/11/2008 10:38:00 PM
Hardness as CaCO3	59	mg/l	BH	7	2340B	10/03/2008 05:07:00 PM
Electrical Conductivity	227	umhos/cm	MRK	10	2510B	10/10/2008 02:38:00 PM
pH	4.0	S.U.	CC	0.1-13.5	4500-H+-B	09/25/2008 05:59:00 PM
Total Dissolved Solids	162	mg/l	RM	20	2540C	09/29/2008 08:15:00 AM
Total Suspended Solids	<1	mg/l	RM	1	2540D	09/29/2008 08:15:00 AM
Aluminum as Al (Dissolved)	2.84	mg/l	BH	0.05	200.7	10/03/2008 05:07:00 PM
Aluminum as Al (Total Recoverable)	2.95	mg/l	BH	0.05	200.7	10/06/2008 06:23:00 PM
Cadmium as Cd (Dissolved)	0.0007	mg/l	BH	0.0001	200.8	10/07/2008 09:30:00 PM
Cadmium as Cd (Total Recoverable)	0.0007	mg/l	BH	0.0001	200.8	10/10/2008 01:24:00 PM
Calcium as Ca (Dissolved)	17	mg/l	BH	1	200.7	10/03/2008 05:07:00 PM
Calcium as Ca (Total Recoverable)	17	mg/l	BH	1	200.7	10/06/2008 06:23:00 PM
Copper as Cu (Dissolved)	0.64	mg/l	BH	0.001	200.7	10/03/2008 05:07:00 PM
Copper as Cu (Total Recoverable)	0.67	mg/l	BH	0.001	200.7	10/06/2008 06:23:00 PM
Iron as Fe (Dissolved)	1.68	mg/l	BH	0.01	200.7	10/03/2008 05:07:00 PM
Iron as Fe (Total Recoverable)	1.69	mg/l	BH	0.01	200.7	10/06/2008 06:23:00 PM
Lead as Pb (Dissolved)	0.002	mg/l	BH	0.001	200.8	10/07/2008 09:30:00 PM
Lead as Pb (Total Recoverable)	0.002	mg/l	BH	0.001	200.8	10/10/2008 01:24:00 PM
Magnesium as Mg (Dissolved)	4	mg/l	BH	1	200.7	10/03/2008 05:07:00 PM
Magnesium as Mg (Total Recoverable)	4	mg/l	BH	1	200.7	10/06/2008 06:23:00 PM
Manganese as Mn (Dissolved)	0.58	mg/l	BH	0.003	200.7	10/03/2008 05:07:00 PM
Manganese as Mn (Total Recoverable)	0.58	mg/l	BH	0.005	200.7	10/06/2008 06:23:00 PM
Potassium as K (Dissolved)	2	mg/l	BH	1	200.7	10/03/2008 05:07:00 PM
Potassium as K (Total Recoverable)	2	mg/l	BH	1	200.7	10/06/2008 06:23:00 PM
Sodium as Na (Dissolved)	4	mg/l	BH	1	200.7	10/03/2008 05:07:00 PM
Sodium as Na (Total Recoverable)	3	mg/l	BH	1	200.7	10/06/2008 06:23:00 PM
Zinc as Zn (Dissolved)	0.11	mg/l	BH	0.01	200.7	10/03/2008 05:07:00 PM
Zinc as Zn (Total Recoverable)	0.11	mg/l	BH	0.01	200.7	10/06/2008 06:23:00 PM
Cations	1.96	meq/l	---	0.38	1030F	
Anions	1.96	meq/l	---	0.20	1030F	
Cation/Anion Balance	0.00	[max 0.2]	---	-----	AWWA/APHA	
Metals Batch#/Digestion Date	1783	-----	BH	-----	200.2	10/03/2008 10:45:00 AM

Client: TETRA TECH, INC.
Project Name: NEW WORLD SURFACE WATER
Project No.: 1157561506.209
Laboratory No.: 2008090265-5
Sample Name: RR-F-28
Sample Date/Time: 09/22/2008 14:30:00
Collected by: R. HIBBS/ M. PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD SURFACE WATER 2008/2009						
Acidity as CaCO3	<2	mg/l	ES	2	2310 B	10/03/2008 05:09:42 PM
Alkalinity Bicarbonate as HCO3	151	mg/l	ES	1	2320B	10/06/2008 04:00:00 PM
Alkalinity Carbonate as CO3	0	mg/l	ES	0	2320B	10/06/2008 04:00:00 PM
Alkalinity Total as CaCO3	124	mg/l	ES	1	2320B	10/06/2008 04:00:00 PM
Chloride as Cl	<1	mg/l	MRK	1	300.0	10/13/2008 09:39:00 PM
Sulfate as SO4	313	mg/l	MRK	10	300.0	10/11/2008 11:08:00 PM
Hardness as CaCO3	423	mg/l	BH	7	2340B	10/16/2008 04:16:00 PM
Electrical Conductivity	772	umhos/cm	MRK	10	2510B	10/10/2008 02:38:00 PM
pH	7.9	S.U.	CC	0.1-13.5	4500-H+-B	09/25/2008 05:59:00 PM
Total Dissolved Solids	605	mg/l	RM	20	2540C	09/29/2008 08:15:00 AM
Total Suspended Solids	6	mg/l	RM	1	2540D	09/29/2008 08:15:00 AM
Aluminum as Al (Dissolved)	<0.05	mg/l	BH	0.05	200.7	10/03/2008 05:10:00 PM
Aluminum as Al (Total Recoverable)	0.05	mg/l	BH	0.05	200.7	10/06/2008 06:26:00 PM
Cadmium as Cd (Dissolved)	<0.0001	mg/l	BH	0.0001	200.8	10/07/2008 09:36:00 PM
Cadmium as Cd (Total Recoverable)	<0.0001	mg/l	DK	0.0001	200.8	10/14/2008 10:25:00 AM
Calcium as Ca (Dissolved)	115	mg/l	BH	1	200.7	10/16/2008 04:16:00 PM
Calcium as Ca (Total Recoverable)	121	mg/l	BH	1	200.7	10/06/2008 06:26:00 PM
Copper as Cu (Dissolved)	<0.001	mg/l	BH	0.001	200.8	10/07/2008 09:36:00 PM
Copper as Cu (Total Recoverable)	0.002	mg/l	DK	0.001	200.8	10/14/2008 10:25:00 AM
Iron as Fe (Dissolved)	0.06	mg/l	BH	0.01	200.7	10/03/2008 05:10:00 PM
Iron as Fe (Total Recoverable)	0.37	mg/l	BH	0.01	200.7	10/06/2008 06:26:00 PM
Lead as Pb (Dissolved)	<0.001	mg/l	BH	0.001	200.8	10/07/2008 09:36:00 PM
Lead as Pb (Total Recoverable)	<0.001	mg/l	BH	0.001	200.8	10/10/2008 01:30:00 PM
Magnesium as Mg (Dissolved)	33	mg/l	BH	1	200.7	10/16/2008 04:16:00 PM
Magnesium as Mg (Total Recoverable)	34	mg/l	BH	1	200.7	10/06/2008 06:26:00 PM
Manganese as Mn (Dissolved)	0.086	mg/l	BH	0.003	200.7	10/03/2008 05:10:00 PM
Manganese as Mn (Total Recoverable)	0.092	mg/l	BH	0.005	200.7	10/06/2008 06:26:00 PM
Potassium as K (Dissolved)	2	mg/l	BH	1	200.7	10/03/2008 05:10:00 PM
Potassium as K (Total Recoverable)	2	mg/l	BH	1	200.7	10/06/2008 06:26:00 PM
Sodium as Na (Dissolved)	10	mg/l	BH	1	200.7	10/16/2008 04:16:00 PM
Sodium as Na (Total Recoverable)	11	mg/l	BH	1	200.7	10/06/2008 06:26:00 PM
Zinc as Zn (Dissolved)	<0.01	mg/l	BH	0.01	200.7	10/03/2008 05:10:00 PM
Zinc as Zn (Total Recoverable)	0.02	mg/l	BH	0.01	200.7	10/06/2008 06:26:00 PM
Cations	8.94	meq/l	---	0.38	1030F	
Anions	9.00	meq/l	---	0.20	1030F	
Cation/Anion Balance	0.33	% [max 2%]	---	-----	AWWA/APHA	
Metals Batch#/Digestion Date	1783	-----	BH	-----	200.2	10/03/2008 10:45:00 AM

Client: TETRA TECH, INC.
Project Name: NEW WORLD SURFACE WATER
Project No.: 1157561506.209
Laboratory No.: 2008090265-6
Sample Name: RR-FC-4
Sample Date/Time: 09/22/2008 15:00:00
Collected by: R. HIBBS/ M. PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD SURFACE WATER 2008/2009						
Acidity as CaCO3	10	mg/l	ES	2	2310 B	10/03/2008 05:09:42 PM
Alkalinity Bicarbonate as HCO3	<1	mg/l	ES	1	2320B	10/06/2008 04:00:00 PM
Alkalinity Carbonate as CO3	0	mg/l	ES	0	2320B	10/06/2008 04:00:00 PM
Alkalinity Total as CaCO3	<1	mg/l	ES	1	2320B	10/06/2008 04:00:00 PM
Chloride as Cl	<1	mg/l	MRK	1	300.0	10/11/2008 11:39:00 PM
Sulfate as SO4	60	mg/l	MRK	5	300.0	10/11/2008 11:39:00 PM
Hardness as CaCO3	45	mg/l	BH	7	2340B	10/03/2008 05:13:00 PM
Electrical Conductivity	143	umhos/cm	MRK	10	2510B	10/10/2008 02:38:00 PM
pH	4.6	S.U.	CC	0.1-13.5	4500-H+-B	09/25/2008 05:59:00 PM
Total Dissolved Solids	117	mg/l	RM	20	2540C	09/29/2008 08:15:00 AM
Total Suspended Solids	<1	mg/l	RM	1	2540D	09/29/2008 08:15:00 AM
Aluminum as Al (Dissolved)	1.50	mg/l	BH	0.05	200.7	10/03/2008 05:13:00 PM
Aluminum as Al (Total Recoverable)	1.98	mg/l	BH	0.05	200.7	10/06/2008 06:29:00 PM
Cadmium as Cd (Dissolved)	0.0004	mg/l	BH	0.0001	200.8	10/07/2008 09:56:00 PM
Cadmium as Cd (Total Recoverable)	0.0004	mg/l	BH	0.0001	200.8	10/10/2008 01:37:00 PM
Calcium as Ca (Dissolved)	13	mg/l	BH	1	200.7	10/03/2008 05:13:00 PM
Calcium as Ca (Total Recoverable)	13	mg/l	BH	1	200.7	10/06/2008 06:29:00 PM
Copper as Cu (Dissolved)	0.37	mg/l	BH	0.001	200.8	10/07/2008 09:56:00 PM
Copper as Cu (Total Recoverable)	0.41	mg/l	BH	0.001	200.8	10/10/2008 01:37:00 PM
Iron as Fe (Dissolved)	0.28	mg/l	BH	0.01	200.7	10/03/2008 05:13:00 PM
Iron as Fe (Total Recoverable)	2.57	mg/l	BH	0.01	200.7	10/06/2008 06:29:00 PM
Lead as Pb (Dissolved)	<0.001	mg/l	BH	0.001	200.8	10/07/2008 09:56:00 PM
Lead as Pb (Total Recoverable)	0.003	mg/l	BH	0.001	200.8	10/10/2008 01:37:00 PM
Magnesium as Mg (Dissolved)	3	mg/l	BH	1	200.7	10/03/2008 05:13:00 PM
Magnesium as Mg (Total Recoverable)	3	mg/l	BH	1	200.7	10/06/2008 06:29:00 PM
Manganese as Mn (Dissolved)	0.33	mg/l	BH	0.003	200.7	10/03/2008 05:13:00 PM
Manganese as Mn (Total Recoverable)	0.33	mg/l	BH	0.005	200.7	10/06/2008 06:29:00 PM
Potassium as K (Dissolved)	1	mg/l	BH	1	200.7	10/03/2008 05:13:00 PM
Potassium as K (Total Recoverable)	1	mg/l	BH	1	200.7	10/06/2008 06:29:00 PM
Sodium as Na (Dissolved)	3	mg/l	BH	1	200.7	10/03/2008 05:13:00 PM
Sodium as Na (Total Recoverable)	3	mg/l	BH	1	200.7	10/06/2008 06:29:00 PM
Zinc as Zn (Dissolved)	0.06	mg/l	BH	0.01	200.7	10/03/2008 05:13:00 PM
Zinc as Zn (Total Recoverable)	0.07	mg/l	BH	0.01	200.7	10/06/2008 06:29:00 PM
Cations	1.25	meq/l	---	0.38	1030F	
Anions	1.25	meq/l	---	0.20	1030F	
Cation/Anion Balance	0.00	[max 0.2]	---	-----	AWWA/APHA	
Metals Batch#/Digestion Date	1783	-----	BH	-----	200.2	10/03/2008 10:45:00 AM

Client: TETRA TECH, INC.
Project Name: NEW WORLD SURFACE WATER
Project No.: 1157561506.209
Laboratory No.: 2008090265-7
Sample Name: RR-SW-4
Sample Date/Time: 09/22/2008 15:40:00
Collected by: R. HIBBS/ M. PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD SURFACE WATER 2008/2009						
Acidity as CaCO3	<2	mg/l	ES	2	2310 B	10/03/2008 05:09:42 PM
Alkalinity Bicarbonate as HCO3	6	mg/l	ES	1	2320B	10/06/2008 04:00:00 PM
Alkalinity Carbonate as CO3	0	mg/l	ES	0	2320B	10/06/2008 04:00:00 PM
Alkalinity Total as CaCO3	5	mg/l	ES	1	2320B	10/06/2008 04:00:00 PM
Chloride as Cl	<1	mg/l	MRK	1	300.0	10/12/2008 12:40:00 AM
Sulfate as SO4	48	mg/l	MRK	5	300.0	10/12/2008 12:40:00 AM
Hardness as CaCO3	59	mg/l	BH	7	2340B	10/03/2008 05:22:00 PM
Electrical Conductivity	132	umhos/cm	MRK	10	2510B	10/10/2008 02:38:00 PM
pH	7.1	S.U.	CC	0.1-13.5	4500-H+-B	09/25/2008 05:59:00 PM
Total Dissolved Solids	102	mg/l	RM	20	2540C	09/29/2008 08:15:00 AM
Total Suspended Solids	<1	mg/l	RM	1	2540D	09/29/2008 08:15:00 AM
Aluminum as Al (Dissolved)	<0.05	mg/l	BH	0.05	200.7	10/03/2008 05:22:00 PM
Aluminum as Al (Total Recoverable)	0.11	mg/l	BH	0.05	200.7	10/06/2008 06:38:00 PM
Cadmium as Cd (Dissolved)	0.0002	mg/l	BH	0.0001	200.8	10/07/2008 10:09:00 PM
Cadmium as Cd (Total Recoverable)	0.0002	mg/l	BH	0.0001	200.8	10/10/2008 02:02:00 PM
Calcium as Ca (Dissolved)	17	mg/l	BH	1	200.7	10/03/2008 05:22:00 PM
Calcium as Ca (Total Recoverable)	17	mg/l	BH	1	200.7	10/06/2008 06:38:00 PM
Copper as Cu (Dissolved)	0.048	mg/l	BH	0.001	200.8	10/07/2008 10:09:00 PM
Copper as Cu (Total Recoverable)	0.065	mg/l	BH	0.001	200.8	10/10/2008 02:02:00 PM
Iron as Fe (Dissolved)	<0.01	mg/l	BH	0.01	200.7	10/03/2008 05:22:00 PM
Iron as Fe (Total Recoverable)	0.02	mg/l	BH	0.01	200.7	10/06/2008 06:38:00 PM
Lead as Pb (Dissolved)	<0.001	mg/l	BH	0.001	200.8	10/07/2008 10:09:00 PM
Lead as Pb (Total Recoverable)	<0.001	mg/l	BH	0.001	200.8	10/10/2008 02:02:00 PM
Magnesium as Mg (Dissolved)	4	mg/l	BH	1	200.7	10/03/2008 05:22:00 PM
Magnesium as Mg (Total Recoverable)	4	mg/l	BH	1	200.7	10/06/2008 06:38:00 PM
Manganese as Mn (Dissolved)	0.045	mg/l	BH	0.003	200.7	10/03/2008 05:22:00 PM
Manganese as Mn (Total Recoverable)	0.046	mg/l	BH	0.005	200.7	10/06/2008 06:38:00 PM
Potassium as K (Dissolved)	<1	mg/l	BH	1	200.7	10/03/2008 05:22:00 PM
Potassium as K (Total Recoverable)	<1	mg/l	BH	1	200.7	10/06/2008 06:38:00 PM
Sodium as Na (Dissolved)	2	mg/l	BH	1	200.7	10/03/2008 05:22:00 PM
Sodium as Na (Total Recoverable)	2	mg/l	BH	1	200.7	10/06/2008 06:38:00 PM
Zinc as Zn (Dissolved)	0.02	mg/l	BH	0.01	200.7	10/03/2008 05:22:00 PM
Zinc as Zn (Total Recoverable)	0.03	mg/l	BH	0.01	200.7	10/06/2008 06:38:00 PM
Cations	1.27	meq/l	---	0.38	1030F	
Anions	1.10	meq/l	---	0.20	1030F	
Cation/Anion Balance	0.17	[max 0.2]	---	-----	AWWA/APHA	
Metals Batch#/Digestion Date	1783	-----	BH	-----	200.2	10/03/2008 10:45:00 AM

Client: TETRA TECH, INC.
Project Name: NEW WORLD SURFACE WATER
Project No.: 1157561506.209
Laboratory No.: 2008090265-8
Sample Name: RR-CFY-2
Sample Date/Time: 09/22/2008 17:30:00
Collected by: R. HIBBS/ M. PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD SURFACE WATER 2008/2009						
Acidity as CaCO3	<2	mg/l	ES	2	2310 B	10/03/2008 05:09:42 PM
Alkalinity Bicarbonate as HCO3	26	mg/l	ES	1	2320B	10/06/2008 04:00:00 PM
Alkalinity Carbonate as CO3	0	mg/l	ES	0	2320B	10/06/2008 04:00:00 PM
Alkalinity Total as CaCO3	21	mg/l	ES	1	2320B	10/06/2008 04:00:00 PM
Chloride as Cl	<1	mg/l	MRK	1	300.0	10/12/2008 01:10:00 AM
Sulfate as SO4	36	mg/l	MRK	5	300.0	10/12/2008 01:10:00 AM
Hardness as CaCO3	52	mg/l	BH	7	2340B	10/03/2008 05:25:00 PM
Electrical Conductivity	116	umhos/cm	MRK	10	2510B	10/10/2008 02:38:00 PM
pH	7.2	S.U.	CC	0.1-13.5	4500-H+-B	09/25/2008 05:59:00 PM
Total Dissolved Solids	84	mg/l	RM	20	2540C	09/29/2008 08:15:00 AM
Total Suspended Solids	32	mg/l	RM	1	2540D	09/29/2008 08:15:00 AM
Aluminum as Al (Dissolved)	<0.05	mg/l	BH	0.05	200.7	10/03/2008 05:25:00 PM
Aluminum as Al (Total Recoverable)	<0.05	mg/l	BH	0.05	200.7	10/06/2008 06:41:00 PM
Cadmium as Cd (Dissolved)	<0.0001	mg/l	BH	0.0001	200.8	10/07/2008 10:15:00 PM
Cadmium as Cd (Total Recoverable)	<0.0001	mg/l	DK	0.0001	200.8	10/14/2008 10:28:00 AM
Calcium as Ca (Dissolved)	16	mg/l	BH	1	200.7	10/03/2008 05:25:00 PM
Calcium as Ca (Total Recoverable)	15	mg/l	BH	1	200.7	10/06/2008 06:41:00 PM
Copper as Cu (Dissolved)	0.009	mg/l	BH	0.001	200.8	10/07/2008 10:15:00 PM
Copper as Cu (Total Recoverable)	0.012	mg/l	BH	0.001	200.8	10/10/2008 02:08:00 PM
Iron as Fe (Dissolved)	<0.01	mg/l	BH	0.01	200.7	10/03/2008 05:25:00 PM
Iron as Fe (Total Recoverable)	<0.01	mg/l	BH	0.01	200.7	10/06/2008 06:41:00 PM
Lead as Pb (Dissolved)	<0.001	mg/l	BH	0.001	200.8	10/07/2008 10:15:00 PM
Lead as Pb (Total Recoverable)	<0.001	mg/l	BH	0.001	200.8	10/10/2008 02:08:00 PM
Magnesium as Mg (Dissolved)	3	mg/l	BH	1	200.7	10/03/2008 05:25:00 PM
Magnesium as Mg (Total Recoverable)	3	mg/l	BH	1	200.7	10/06/2008 06:41:00 PM
Manganese as Mn (Dissolved)	0.004	mg/l	BH	0.003	200.7	10/03/2008 05:25:00 PM
Manganese as Mn (Total Recoverable)	0.006	mg/l	BH	0.003	200.7	10/13/2008 11:04:00 AM
Potassium as K (Dissolved)	<1	mg/l	BH	1	200.7	10/03/2008 05:25:00 PM
Potassium as K (Total Recoverable)	<1	mg/l	BH	1	200.7	10/06/2008 06:41:00 PM
Sodium as Na (Dissolved)	2	mg/l	BH	1	200.7	10/03/2008 05:25:00 PM
Sodium as Na (Total Recoverable)	2	mg/l	BH	1	200.7	10/06/2008 06:41:00 PM
Zinc as Zn (Dissolved)	<0.01	mg/l	BH	0.01	200.7	10/03/2008 05:25:00 PM
Zinc as Zn (Total Recoverable)	0.01	mg/l	BH	0.01	200.7	10/06/2008 06:41:00 PM
Cations	1.13	meq/l	---	0.38	1030F	
Anions	1.17	meq/l	---	0.20	1030F	
Cation/Anion Balance	0.04	[max 0.2]	---	-----	AWWA/APHA	
Metals Batch#/Digestion Date	1783	-----	BH	-----	200.2	10/03/2008 10:45:00 AM

Client: TETRA TECH, INC.
Project Name: NEW WORLD SURFACE WATER
Project No.: 1157561506.209
Laboratory No.: 2008090265-9
Sample Name: RR-SW-6
Sample Date/Time: 09/22/2008 18:40:00
Collected by: R. HIBBS/ M. PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD SURFACE WATER 2008/2009						
Acidity as CaCO3	<2	mg/l	ES	2	2310 B	10/03/2008 05:09:42 PM
Alkalinity Bicarbonate as HCO3	27	mg/l	ES	1	2320B	10/06/2008 04:00:00 PM
Alkalinity Carbonate as CO3	0	mg/l	ES	0	2320B	10/06/2008 04:00:00 PM
Alkalinity Total as CaCO3	22	mg/l	ES	1	2320B	10/06/2008 04:00:00 PM
Chloride as Cl	<1	mg/l	MRK	1	300.0	10/12/2008 02:42:00 AM
Sulfate as SO4	23	mg/l	MRK	5	300.0	10/12/2008 02:42:00 AM
Hardness as CaCO3	47	mg/l	BH	7	2340B	10/03/2008 05:37:00 PM
Electrical Conductivity	103	umhos/cm	MRK	10	2510B	10/10/2008 02:38:00 PM
pH	7.5	S.U.	CC	0.1-13.5	4500-H+-B	09/25/2008 05:59:00 PM
Total Dissolved Solids	67	mg/l	RM	20	2540C	09/29/2008 08:15:00 AM
Total Suspended Solids	<1	mg/l	RM	1	2540D	09/29/2008 08:15:00 AM
Aluminum as Al (Dissolved)	<0.05	mg/l	BH	0.05	200.7	10/03/2008 05:37:00 PM
Aluminum as Al (Total Recoverable)	<0.05	mg/l	BH	0.05	200.7	10/06/2008 06:44:00 PM
Cadmium as Cd (Dissolved)	<0.0001	mg/l	BH	0.0001	200.8	10/07/2008 10:21:00 PM
Cadmium as Cd (Total Recoverable)	<0.0001	mg/l	DK	0.0001	200.8	10/14/2008 10:32:00 AM
Calcium as Ca (Dissolved)	14	mg/l	BH	1	200.7	10/03/2008 05:37:00 PM
Calcium as Ca (Total Recoverable)	14	mg/l	BH	1	200.7	10/06/2008 06:44:00 PM
Copper as Cu (Dissolved)	0.004	mg/l	BH	0.001	200.8	10/07/2008 10:21:00 PM
Copper as Cu (Total Recoverable)	0.004	mg/l	BH	0.001	200.8	10/10/2008 02:14:00 PM
Iron as Fe (Dissolved)	<0.01	mg/l	BH	0.01	200.7	10/03/2008 05:37:00 PM
Iron as Fe (Total Recoverable)	<0.01	mg/l	BH	0.01	200.7	10/06/2008 06:44:00 PM
Lead as Pb (Dissolved)	<0.001	mg/l	BH	0.001	200.8	10/07/2008 10:21:00 PM
Lead as Pb (Total Recoverable)	<0.001	mg/l	BH	0.001	200.8	10/10/2008 02:14:00 PM
Magnesium as Mg (Dissolved)	3	mg/l	BH	1	200.7	10/03/2008 05:37:00 PM
Magnesium as Mg (Total Recoverable)	3	mg/l	BH	1	200.7	10/06/2008 06:44:00 PM
Manganese as Mn (Dissolved)	<0.003	mg/l	BH	0.003	200.7	10/03/2008 05:37:00 PM
Manganese as Mn (Total Recoverable)	<0.003	mg/l	BH	0.003	200.7	10/13/2008 11:07:00 AM
Potassium as K (Dissolved)	<1	mg/l	BH	1	200.7	10/03/2008 05:37:00 PM
Potassium as K (Total Recoverable)	<1	mg/l	BH	1	200.7	10/06/2008 06:44:00 PM
Sodium as Na (Dissolved)	2	mg/l	BH	1	200.7	10/03/2008 05:37:00 PM
Sodium as Na (Total Recoverable)	1	mg/l	BH	1	200.7	10/06/2008 06:44:00 PM
Zinc as Zn (Dissolved)	<0.01	mg/l	BH	0.01	200.7	10/03/2008 05:37:00 PM
Zinc as Zn (Total Recoverable)	<0.01	mg/l	BH	0.01	200.7	10/06/2008 06:44:00 PM
Cations	1.03	meq/l	---	0.38	1030F	
Anions	0.92	meq/l	---	0.20	1030F	
Cation/Anion Balance	0.11	[max 0.2]	---	-----	AWWA/APHA	
Metals Batch#/Digestion Date	1783	-----	BH	-----	200.2	10/03/2008 10:45:00 AM

Client: TETRA TECH, INC.
Project Name: NEW WORLD SURFACE WATER
Project No.: 1157561506.209
Laboratory No.: 2008090265-10
Sample Name: RR-SBC-4
Sample Date/Time: 09/23/2008 08:15:00
Collected by: R. HIBBS/ M. PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD SURFACE WATER 2008/2009						
Acidity as CaCO3	<2	mg/l	ES	2	2310 B	10/03/2008 05:09:42 PM
Alkalinity Bicarbonate as HCO3	121	mg/l	ES	1	2320B	10/07/2008 10:00:00 AM
Alkalinity Carbonate as CO3	0	mg/l	ES	0	2320B	10/07/2008 10:00:00 AM
Alkalinity Total as CaCO3	99	mg/l	ES	1	2320B	10/07/2008 10:00:00 AM
Chloride as Cl	<1	mg/l	MRK	1	300.0	10/12/2008 03:12:00 AM
Sulfate as SO4	9	mg/l	MRK	5	300.0	10/12/2008 03:12:00 AM
Hardness as CaCO3	109	mg/l	BH	7	2340B	10/06/2008 06:47:00 PM
Electrical Conductivity	209	umhos/cm	MRK	10	2510B	10/10/2008 02:38:00 PM
pH	8.1	S.U.	CC	0.1-13.5	4500-H+-B	09/25/2008 05:59:00 PM
Total Dissolved Solids	124	mg/l	RM	20	2540C	09/29/2008 08:15:00 AM
Total Suspended Solids	<2	mg/l	RM	2	2540D	09/29/2008 08:15:00 AM
Aluminum as Al (Total Recoverable)	0.05	mg/l	BH	0.05	200.7	10/06/2008 06:47:00 PM
Cadmium as Cd (Total Recoverable)	<0.0001	mg/l	DK	0.0001	200.8	10/14/2008 10:35:00 AM
Calcium as Ca (Total Recoverable)	32	mg/l	BH	1	200.7	10/06/2008 06:47:00 PM
Copper as Cu (Total Recoverable)	<0.001	mg/l	DK	0.001	200.8	10/14/2008 10:35:00 AM
Iron as Fe (Total Recoverable)	0.12	mg/l	BH	0.01	200.7	10/06/2008 06:47:00 PM
Lead as Pb (Total Recoverable)	<0.001	mg/l	BH	0.001	200.8	10/10/2008 02:20:00 PM
Magnesium as Mg (Total Recoverable)	7	mg/l	BH	1	200.7	10/06/2008 06:47:00 PM
Manganese as Mn (Total Recoverable)	<0.003	mg/l	BH	0.003	200.7	10/13/2008 11:10:00 AM
Potassium as K (Total Recoverable)	<1	mg/l	BH	1	200.7	10/06/2008 06:47:00 PM
Sodium as Na (Total Recoverable)	4	mg/l	BH	1	200.7	10/06/2008 06:47:00 PM
Zinc as Zn (Total Recoverable)	<0.01	mg/l	BH	0.01	200.7	10/06/2008 06:47:00 PM
Cations	2.35	meq/l	---	0.38	1030F	
Anions	2.17	meq/l	---	0.20	1030F	
Cation/Anion Balance	0.18	[max 0.2]	---	-----	AWWA/APHA	
Metals Batch#/Digestion Date	1783	-----	BH	-----	200.2	10/03/2008 10:45:00 AM

Client: TETRA TECH, INC.
Project Name: NEW WORLD SURFACE WATER
Project No.: 1157561506.209
Laboratory No.: 2008090265-11
Sample Name: RR-SBSW-102
Sample Date/Time: 09/23/2008 09:30:00
Collected by: R. HIBBS/ M. PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD SURFACE WATER 2008/2009						
Acidity as CaCO3	<2	mg/l	ES	2	2310 B	10/03/2008 05:09:42 PM
Alkalinity Bicarbonate as HCO3	88	mg/l	ES	1	2320B	10/07/2008 10:00:00 AM
Alkalinity Carbonate as CO3	0	mg/l	ES	0	2320B	10/07/2008 10:00:00 AM
Alkalinity Total as CaCO3	72	mg/l	ES	1	2320B	10/07/2008 10:00:00 AM
Chloride as Cl	<1	mg/l	MRK	1	300.0	10/12/2008 03:43:00 AM
Sulfate as SO4	9	mg/l	MRK	5	300.0	10/12/2008 03:43:00 AM
Hardness as CaCO3	73	mg/l	BH	7	2340B	10/06/2008 07:00:00 PM
Electrical Conductivity	150	umhos/cm	MRK	10	2510B	10/10/2008 02:38:00 PM
pH	8.2	S.U.	CC	0.1-13.5	4500-H+-B	09/25/2008 05:59:00 PM
Total Dissolved Solids	105	mg/l	RM	20	2540C	09/30/2008 08:30:00 AM
Total Suspended Solids	3	mg/l	RM	2	2540D	09/30/2008 08:15:00 AM
Aluminum as Al (Total Recoverable)	0.12	mg/l	BH	0.05	200.7	10/06/2008 07:00:00 PM
Cadmium as Cd (Total Recoverable)	<0.0001	mg/l	DK	0.0001	200.8	10/14/2008 10:39:00 AM
Calcium as Ca (Total Recoverable)	21	mg/l	BH	1	200.7	10/06/2008 07:00:00 PM
Copper as Cu (Total Recoverable)	<0.001	mg/l	DK	0.001	200.8	10/14/2008 10:39:00 AM
Iron as Fe (Total Recoverable)	0.37	mg/l	BH	0.01	200.7	10/06/2008 07:00:00 PM
Lead as Pb (Total Recoverable)	<0.001	mg/l	BH	0.001	200.8	10/10/2008 02:26:00 PM
Magnesium as Mg (Total Recoverable)	5	mg/l	BH	1	200.7	10/06/2008 07:00:00 PM
Manganese as Mn (Total Recoverable)	0.008	mg/l	BH	0.003	200.7	10/13/2008 11:13:00 AM
Potassium as K (Total Recoverable)	<1	mg/l	BH	1	200.7	10/06/2008 07:00:00 PM
Sodium as Na (Total Recoverable)	6	mg/l	BH	1	200.7	10/06/2008 07:00:00 PM
Zinc as Zn (Total Recoverable)	<0.01	mg/l	BH	0.01	200.7	10/06/2008 07:00:00 PM
Cations	1.72	meq/l	---	0.38	1030F	
Anions	1.63	meq/l	---	0.20	1030F	
Cation/Anion Balance	0.09	[max 0.2]	---	-----	AWWA/APHA	
Metals Batch#/Digestion Date	1783	-----	BH	-----	200.2	10/03/2008 10:45:00 AM

Client: TETRA TECH, INC.
Project Name: NEW WORLD SURFACE WATER
Project No.: 1157561506.209
Laboratory No.: 2008090265-12
Sample Name: RR-SBC-2
Sample Date/Time: 09/23/2008 10:15:00
Collected by: R. HIBBS/ M. PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD SURFACE WATER 2008/2009						
Acidity as CaCO3	<2	mg/l	ES	2	2310 B	10/03/2008 05:09:42 PM
Alkalinity Bicarbonate as HCO3	148	mg/l	ES	1	2320B	10/07/2008 10:00:00 AM
Alkalinity Carbonate as CO3	0	mg/l	ES	0	2320B	10/07/2008 10:00:00 AM
Alkalinity Total as CaCO3	122	mg/l	ES	1	2320B	10/07/2008 10:00:00 AM
Chloride as Cl	1	mg/l	MRK	1	300.0	10/12/2008 04:44:00 AM
Sulfate as SO4	34	mg/l	MRK	5	300.0	10/12/2008 04:44:00 AM
Hardness as CaCO3	172	mg/l	BH	7	2340B	10/21/2008 11:57:00 AM
Electrical Conductivity	294	umhos/cm	MRK	10	2510B	10/10/2008 02:38:00 PM
pH	8.0	S.U.	CC	0.1-13.5	4500-H+-B	09/25/2008 05:59:00 PM
Total Dissolved Solids	192	mg/l	RM	20	2540C	09/30/2008 08:30:00 AM
Total Suspended Solids	4	mg/l	RM	2	2540D	09/30/2008 08:15:00 AM
Aluminum as Al (Total Recoverable)	<0.05	mg/l	BH	0.05	200.7	10/06/2008 07:06:00 PM
Cadmium as Cd (Total Recoverable)	<0.0001	mg/l	DK	0.0001	200.8	10/14/2008 10:45:00 AM
Calcium as Ca (Total Recoverable)	51	mg/l	BH	1	200.7	10/21/2008 11:57:00 AM
Copper as Cu (Total Recoverable)	<0.001	mg/l	DK	0.001	200.8	10/14/2008 10:45:00 AM
Iron as Fe (Total Recoverable)	1.51	mg/l	BH	0.01	200.7	10/06/2008 07:06:00 PM
Lead as Pb (Total Recoverable)	<0.001	mg/l	BH	0.001	200.8	10/10/2008 02:38:00 PM
Magnesium as Mg (Total Recoverable)	9	mg/l	BH	1	200.7	10/06/2008 07:06:00 PM
Manganese as Mn (Total Recoverable)	0.052	mg/l	BH	0.005	200.7	10/06/2008 07:06:00 PM
Potassium as K (Total Recoverable)	<1	mg/l	BH	1	200.7	10/06/2008 07:06:00 PM
Sodium as Na (Total Recoverable)	2	mg/l	BH	1	200.7	10/06/2008 07:06:00 PM
Zinc as Zn (Total Recoverable)	<0.01	mg/l	BH	0.01	200.7	10/06/2008 07:06:00 PM
Cations	3.37	meq/l	---	0.38	1030F	
Anions	3.18	meq/l	---	0.20	1030F	
Cation/Anion Balance	0.19	[max 0.2]	---	-----	AWWA/APHA	
Metals Batch#/Digestion Date	1783	-----	BH	-----	200.2	10/03/2008 10:45:00 AM

Client: TETRA TECH, INC.
Project Name: NEW WORLD SURFACE WATER
Project No.: 1157561506.209
Laboratory No.: 2008090265-13
Sample Name: RR-SBC-1
Sample Date/Time: 09/23/2008 10:40:00
Collected by: R. HIBBS/ M. PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD SURFACE WATER 2008/2009						
Acidity as CaCO3	<2	mg/l	ES	2	2310 B	10/03/2008 05:09:42 PM
Alkalinity Bicarbonate as HCO3	151	mg/l	ES	1	2320B	10/07/2008 10:00:00 AM
Alkalinity Carbonate as CO3	3	mg/l	ES	0	2320B	10/07/2008 10:00:00 AM
Alkalinity Total as CaCO3	129	mg/l	ES	1	2320B	10/07/2008 10:00:00 AM
Chloride as Cl	3	mg/l	MRK	1	300.0	10/12/2008 05:14:00 AM
Sulfate as SO4	8	mg/l	MRK	5	300.0	10/12/2008 05:14:00 AM
Hardness as CaCO3	145	mg/l	BH	7	2340B	10/06/2008 07:09:00 PM
Electrical Conductivity	261	umhos/cm	MRK	10	2510B	10/10/2008 02:38:00 PM
pH	8.4	S.U.	CC	0.1-13.5	4500-H+-B	09/25/2008 05:59:00 PM
Total Dissolved Solids	165	mg/l	RM	20	2540C	09/30/2008 08:30:00 AM
Total Suspended Solids	1	mg/l	RM	1	2540D	09/30/2008 08:15:00 AM
Aluminum as Al (Total Recoverable)	<0.05	mg/l	BH	0.05	200.7	10/06/2008 07:09:00 PM
Cadmium as Cd (Total Recoverable)	<0.0001	mg/l	DK	0.0001	200.8	10/14/2008 10:56:00 AM
Calcium as Ca (Total Recoverable)	45	mg/l	BH	1	200.7	10/06/2008 07:09:00 PM
Copper as Cu (Total Recoverable)	<0.001	mg/l	DK	0.001	200.8	10/14/2008 10:56:00 AM
Iron as Fe (Total Recoverable)	<0.01	mg/l	BH	0.01	200.7	10/06/2008 07:09:00 PM
Lead as Pb (Total Recoverable)	<0.001	mg/l	BH	0.001	200.8	10/10/2008 02:44:00 PM
Magnesium as Mg (Total Recoverable)	8	mg/l	BH	1	200.7	10/06/2008 07:09:00 PM
Manganese as Mn (Total Recoverable)	<0.003	mg/l	BH	0.003	200.7	10/13/2008 11:20:00 AM
Potassium as K (Total Recoverable)	<1	mg/l	BH	1	200.7	10/06/2008 07:09:00 PM
Sodium as Na (Total Recoverable)	1	mg/l	BH	1	200.7	10/06/2008 07:09:00 PM
Zinc as Zn (Total Recoverable)	<0.01	mg/l	BH	0.01	200.7	10/06/2008 07:09:00 PM
Cations	2.95	meq/l	--	0.38	1030F	
Anions	2.83	meq/l	--	0.20	1030F	
Cation/Anion Balance	0.12	[max 0.2]	--	-----	AWWA/APHA	
Metals Batch#/Digestion Date	1783	-----	BH	-----	200.2	10/03/2008 10:45:00 AM

Client: TETRA TECH, INC.
Project Name: NEW WORLD SURFACE WATER
Project No.: 1157561506.209
Laboratory No.: 2008090265-14
Sample Name: RR-SW-5
Sample Date/Time: 09/23/2008 11:10:00
Collected by: R. HIBBS/ M. PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD SURFACE WATER 2008/2009						
Acidity as CaCO3	<2	mg/l	ES	2	2310 B	10/03/2008 05:09:42 PM
Alkalinity Bicarbonate as HCO3	83	mg/l	ES	1	2320B	10/07/2008 10:00:00 AM
Alkalinity Carbonate as CO3	0	mg/l	ES	0	2320B	10/07/2008 10:00:00 AM
Alkalinity Total as CaCO3	68	mg/l	ES	1	2320B	10/07/2008 10:00:00 AM
Chloride as Cl	<1	mg/l	MRK	1	300.0	10/12/2008 05:45:00 AM
Sulfate as SO4	34	mg/l	MRK	5	300.0	10/12/2008 05:45:00 AM
Hardness as CaCO3	110	mg/l	BH	7	2340B	10/03/2008 05:40:00 PM
Electrical Conductivity	204	umhos/cm	MRK	10	2510B	10/10/2008 02:38:00 PM
pH	8.2	S.U.	CC	0.1-13.5	4500-H+-B	09/25/2008 05:59:00 PM
Total Dissolved Solids	134	mg/l	RM	20	2540C	09/30/2008 08:30:00 AM
Total Suspended Solids	<1	mg/l	RM	1	2540D	09/30/2008 08:15:00 AM
Aluminum as Al (Dissolved)	<0.05	mg/l	BH	0.05	200.7	10/03/2008 05:40:00 PM
Aluminum as Al (Total Recoverable)	<0.05	mg/l	BH	0.05	200.7	10/06/2008 07:12:00 PM
Cadmium as Cd (Dissolved)	<0.0001	mg/l	DK	0.0001	200.8	10/15/2008 12:25:00 PM
Cadmium as Cd (Total Recoverable)	<0.0001	mg/l	DK	0.0001	200.8	10/14/2008 11:00:00 AM
Calcium as Ca (Dissolved)	36	mg/l	BH	1	200.7	10/03/2008 05:40:00 PM
Calcium as Ca (Total Recoverable)	37	mg/l	BH	1	200.7	10/06/2008 07:12:00 PM
Copper as Cu (Dissolved)	0.002	mg/l	DK	0.001	200.8	10/15/2008 12:25:00 PM
Copper as Cu (Total Recoverable)	0.002	mg/l	DK	0.001	200.8	10/14/2008 11:00:00 AM
Iron as Fe (Dissolved)	<0.01	mg/l	BH	0.01	200.7	10/03/2008 05:40:00 PM
Iron as Fe (Total Recoverable)	<0.01	mg/l	BH	0.01	200.7	10/06/2008 07:12:00 PM
Lead as Pb (Dissolved)	<0.001	mg/l	BH	0.001	200.8	10/08/2008 12:19:00 PM
Lead as Pb (Total Recoverable)	<0.001	mg/l	BH	0.001	200.8	10/10/2008 02:50:00 PM
Magnesium as Mg (Dissolved)	5	mg/l	BH	1	200.7	10/03/2008 05:40:00 PM
Magnesium as Mg (Total Recoverable)	5	mg/l	BH	1	200.7	10/06/2008 07:12:00 PM
Manganese as Mn (Dissolved)	<0.003	mg/l	BH	0.003	200.7	10/03/2008 05:40:00 PM
Manganese as Mn (Total Recoverable)	<0.003	mg/l	BH	0.003	200.7	10/13/2008 11:32:00 AM
Potassium as K (Dissolved)	<1	mg/l	BH	1	200.7	10/03/2008 05:40:00 PM
Potassium as K (Total Recoverable)	<1	mg/l	BH	1	200.7	10/06/2008 07:12:00 PM
Sodium as Na (Dissolved)	1	mg/l	BH	1	200.7	10/03/2008 05:40:00 PM
Sodium as Na (Total Recoverable)	1	mg/l	BH	1	200.7	10/06/2008 07:12:00 PM
Zinc as Zn (Dissolved)	<0.01	mg/l	BH	0.01	200.7	10/03/2008 05:40:00 PM
Zinc as Zn (Total Recoverable)	<0.01	mg/l	BH	0.01	200.7	10/06/2008 07:12:00 PM
Cations	2.25	meq/l	---	0.38	1030F	
Anions	2.07	meq/l	---	0.20	1030F	
Cation/Anion Balance	0.18	[max 0.2]	---	-----	AWWA/APHA	
Metals Batch#/Digestion Date	1783	-----	BH	-----	200.2	10/03/2008 10:45:00 AM

Client: TETRA TECH, INC.
Project Name: NEW WORLD SURFACE WATER
Project No.: 1157561506.209
Laboratory No.: 2008090265-15
Sample Name: RR-SBT-6
Sample Date/Time: 09/23/2008 12:00:00
Collected by: R. HIBBS/ M. PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD SURFACE WATER 2008/2009						
Acidity as CaCO3	<2	mg/l	ES	2	2310 B	10/03/2008 05:09:42 PM
Alkalinity Bicarbonate as HCO3	173	mg/l	ES	1	2320B	10/07/2008 10:00:00 AM
Alkalinity Carbonate as CO3	0	mg/l	ES	0	2320B	10/07/2008 10:00:00 AM
Alkalinity Total as CaCO3	141	mg/l	ES	1	2320B	10/07/2008 10:00:00 AM
Chloride as Cl	<1	mg/l	MRK	1	300.0	10/12/2008 06:15:00 AM
Sulfate as SO4	8	mg/l	MRK	5	300.0	10/12/2008 06:15:00 AM
Hardness as CaCO3	149	mg/l	BH	7	2340B	10/16/2008 04:19:00 PM
Electrical Conductivity	278	umhos/cm	MRK	10	2510B	10/10/2008 02:38:00 PM
pH	8.1	S.U.	CC	0.1-13.5	4500-H+-B	09/25/2008 05:59:00 PM
Total Dissolved Solids	175	mg/l	RM	20	2540C	09/30/2008 08:30:00 AM
Total Suspended Solids	1	mg/l	RM	1	2540D	09/30/2008 08:15:00 AM
Aluminum as Al (Dissolved)	<0.05	mg/l	BH	0.05	200.7	10/03/2008 05:43:00 PM
Aluminum as Al (Total Recoverable)	<0.05	mg/l	BH	0.05	200.7	10/06/2008 07:15:00 PM
Cadmium as Cd (Dissolved)	<0.0001	mg/l	DK	0.0001	200.8	10/15/2008 12:28:00 PM
Cadmium as Cd (Total Recoverable)	<0.0001	mg/l	DK	0.0001	200.8	10/14/2008 11:03:00 AM
Calcium as Ca (Dissolved)	48	mg/l	BH	1	200.7	10/16/2008 04:19:00 PM
Calcium as Ca (Total Recoverable)	51	mg/l	BH	1	200.7	10/06/2008 07:15:00 PM
Copper as Cu (Dissolved)	0.001	mg/l	DK	0.001	200.8	10/15/2008 12:28:00 PM
Copper as Cu (Total Recoverable)	<0.001	mg/l	DK	0.001	200.8	10/14/2008 11:03:00 AM
Iron as Fe (Dissolved)	<0.01	mg/l	BH	0.01	200.7	10/03/2008 05:43:00 PM
Iron as Fe (Total Recoverable)	0.01	mg/l	BH	0.01	200.7	10/06/2008 07:15:00 PM
Lead as Pb (Dissolved)	<0.001	mg/l	BH	0.001	200.8	10/08/2008 12:40:00 PM
Lead as Pb (Total Recoverable)	<0.001	mg/l	BH	0.001	200.8	10/10/2008 02:56:00 PM
Magnesium as Mg (Dissolved)	7	mg/l	BH	1	200.7	10/16/2008 04:19:00 PM
Magnesium as Mg (Total Recoverable)	8	mg/l	BH	1	200.7	10/06/2008 07:15:00 PM
Manganese as Mn (Dissolved)	<0.003	mg/l	BH	0.003	200.7	10/03/2008 05:43:00 PM
Manganese as Mn (Total Recoverable)	0.004	mg/l	BH	0.003	200.7	10/13/2008 11:35:00 AM
Potassium as K (Dissolved)	<1	mg/l	BH	1	200.7	10/03/2008 05:43:00 PM
Potassium as K (Total Recoverable)	<1	mg/l	BH	1	200.7	10/06/2008 07:15:00 PM
Sodium as Na (Dissolved)	2	mg/l	BH	1	200.7	10/03/2008 05:43:00 PM
Sodium as Na (Total Recoverable)	2	mg/l	BH	1	200.7	10/06/2008 07:15:00 PM
Zinc as Zn (Dissolved)	<0.01	mg/l	BH	0.01	200.7	10/03/2008 05:43:00 PM
Zinc as Zn (Total Recoverable)	<0.01	mg/l	BH	0.01	200.7	10/06/2008 07:15:00 PM
Cations	3.06	meq/l	---	0.38	1030F	
Anions	2.99	meq/l	---	0.20	1030F	
Cation/Anion Balance	0.07	[max 0.2]	---	-----	AWWA/APHA	
Metals Batch#/Digestion Date	1783	-----	BH	-----	200.2	10/03/2008 10:45:00 AM

Client: TETRA TECH, INC.
Project Name: NEW WORLD SURFACE WATER
Project No.: 1157561506.209
Laboratory No.: 2008090265-16
Sample Name: RR-SBT-3
Sample Date/Time: 09/23/2008 13:00:00
Collected by: R. HIBBS/ M. PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD SURFACE WATER 2008/2009						
Acidity as CaCO3	<2	mg/l	ES	2	2310 B	10/03/2008 05:09:42 PM
Alkalinity Bicarbonate as HCO3	154	mg/l	ES	1	2320B	10/07/2008 10:00:00 AM
Alkalinity Carbonate as CO3	0	mg/l	ES	0	2320B	10/07/2008 10:00:00 AM
Alkalinity Total as CaCO3	126	mg/l	ES	1	2320B	10/07/2008 10:00:00 AM
Chloride as Cl	1	mg/l	MRK	1	300.0	10/12/2008 06:46:00 AM
Sulfate as SO4	11	mg/l	MRK	5	300.0	10/12/2008 06:46:00 AM
Hardness as CaCO3	145	mg/l	BH	7	2340B	10/16/2008 04:22:00 PM
Electrical Conductivity	271	umhos/cm	MRK	10	2510B	10/10/2008 02:38:00 PM
pH	8.1	S.U.	CC	0.1-13.5	4500-H+-B	09/25/2008 05:59:00 PM
Total Dissolved Solids	177	mg/l	RM	20	2540C	09/30/2008 08:30:00 AM
Total Suspended Solids	<1	mg/l	RM	1	2540D	09/30/2008 08:15:00 AM
Aluminum as Al (Dissolved)	<0.05	mg/l	BH	0.05	200.7	10/03/2008 05:46:00 PM
Aluminum as Al (Total Recoverable)	<0.05	mg/l	BH	0.05	200.7	10/06/2008 07:18:00 PM
Cadmium as Cd (Dissolved)	<0.0001	mg/l	DK	0.0001	200.8	10/15/2008 12:31:00 PM
Cadmium as Cd (Total Recoverable)	<0.0001	mg/l	DK	0.0001	200.8	10/14/2008 11:07:00 AM
Calcium as Ca (Dissolved)	45	mg/l	BH	1	200.7	10/16/2008 04:22:00 PM
Calcium as Ca (Total Recoverable)	47	mg/l	BH	1	200.7	10/06/2008 07:18:00 PM
Copper as Cu (Dissolved)	0.001	mg/l	DK	0.001	200.8	10/15/2008 12:31:00 PM
Copper as Cu (Total Recoverable)	<0.001	mg/l	DK	0.001	200.8	10/14/2008 11:07:00 AM
Iron as Fe (Dissolved)	<0.01	mg/l	BH	0.01	200.7	10/03/2008 05:46:00 PM
Iron as Fe (Total Recoverable)	0.02	mg/l	BH	0.01	200.7	10/06/2008 07:18:00 PM
Lead as Pb (Dissolved)	<0.001	mg/l	BH	0.001	200.8	10/08/2008 12:46:00 PM
Lead as Pb (Total Recoverable)	<0.001	mg/l	BH	0.001	200.8	10/10/2008 03:15:00 PM
Magnesium as Mg (Dissolved)	8	mg/l	BH	1	200.7	10/03/2008 05:46:00 PM
Magnesium as Mg (Total Recoverable)	8	mg/l	BH	1	200.7	10/06/2008 07:18:00 PM
Manganese as Mn (Dissolved)	<0.003	mg/l	BH	0.003	200.7	10/03/2008 05:46:00 PM
Manganese as Mn (Total Recoverable)	0.004	mg/l	BH	0.003	200.7	10/13/2008 11:38:00 AM
Potassium as K (Dissolved)	<1	mg/l	BH	1	200.7	10/03/2008 05:46:00 PM
Potassium as K (Total Recoverable)	<1	mg/l	BH	1	200.7	10/06/2008 07:18:00 PM
Sodium as Na (Dissolved)	2	mg/l	BH	1	200.7	10/03/2008 05:46:00 PM
Sodium as Na (Total Recoverable)	2	mg/l	BH	1	200.7	10/06/2008 07:18:00 PM
Zinc as Zn (Dissolved)	<0.01	mg/l	BH	0.01	200.7	10/03/2008 05:46:00 PM
Zinc as Zn (Total Recoverable)	<0.01	mg/l	BH	0.01	200.7	10/06/2008 07:18:00 PM
Cations	2.99	meq/l	---	0.38	1030F	
Anions	2.78	meq/l	---	0.20	1030F	
Cation/Anion Balance	0.21	[max 0.2]	---	-----	AWWA/APHA	
Metals Batch#/Digestion Date	1783	-----	BH	-----	200.2	10/03/2008 10:45:00 AM

Client: TETRA TECH, INC.
Project Name: NEW WORLD SURFACE WATER
Project No.: 1157561506.209
Laboratory No.: 2008090265-17
Sample Name: RR-SW-2
Sample Date/Time: 09/23/2008 13:30:00
Collected by: R. HIBBS/ M. PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD SURFACE WATER 2008/2009						
Acidity as CaCO3	<2	mg/l	ES	2	2310 B	10/03/2008 05:09:42 PM
Alkalinity Bicarbonate as HCO3	70	mg/l	ES	1	2320B	10/07/2008 10:00:00 AM
Alkalinity Carbonate as CO3	0	mg/l	ES	0	2320B	10/07/2008 10:00:00 AM
Alkalinity Total as CaCO3	57	mg/l	ES	1	2320B	10/07/2008 10:00:00 AM
Chloride as Cl	<1	mg/l	MRK	1	300.0	10/12/2008 09:18:00 AM
Sulfate as SO4	30	mg/l	MRK	5	300.0	10/12/2008 09:18:00 AM
Hardness as CaCO3	99	mg/l	BH	7	2340B	10/03/2008 05:56:00 PM
Electrical Conductivity	182	umhos/cm	MRK	10	2510B	10/10/2008 02:38:00 PM
pH	8.1	S.U.	CC	0.1-13.5	4500-H+-B	09/25/2008 05:59:00 PM
Total Dissolved Solids	122	mg/l	RM	20	2540C	09/30/2008 08:30:00 AM
Total Suspended Solids	<1	mg/l	RM	1	2540D	09/30/2008 08:15:00 AM
Aluminum as Al (Dissolved)	<0.05	mg/l	BH	0.05	200.7	10/03/2008 05:56:00 PM
Aluminum as Al (Total Recoverable)	<0.05	mg/l	BH	0.05	200.7	10/06/2008 07:27:00 PM
Cadmium as Cd (Dissolved)	<0.0001	mg/l	DK	0.0001	200.8	10/15/2008 12:37:00 PM
Cadmium as Cd (Total Recoverable)	0.0003	mg/l	DK	0.0001	200.8	10/14/2008 11:14:00 AM
Calcium as Ca (Dissolved)	30	mg/l	BH	1	200.7	10/03/2008 05:56:00 PM
Calcium as Ca (Total Recoverable)	32	mg/l	BH	1	200.7	10/06/2008 07:27:00 PM
Copper as Cu (Dissolved)	0.005	mg/l	BH	0.001	200.8	10/08/2008 12:59:00 PM
Copper as Cu (Total Recoverable)	0.006	mg/l	BH	0.001	200.8	10/10/2008 03:28:00 PM
Iron as Fe (Dissolved)	0.02	mg/l	BH	0.01	200.7	10/03/2008 05:56:00 PM
Iron as Fe (Total Recoverable)	0.03	mg/l	BH	0.01	200.7	10/06/2008 07:27:00 PM
Lead as Pb (Dissolved)	<0.001	mg/l	BH	0.001	200.8	10/08/2008 12:59:00 PM
Lead as Pb (Total Recoverable)	<0.001	mg/l	BH	0.001	200.8	10/10/2008 03:28:00 PM
Magnesium as Mg (Dissolved)	4	mg/l	BH	1	200.7	10/03/2008 05:56:00 PM
Magnesium as Mg (Total Recoverable)	4	mg/l	BH	1	200.7	10/06/2008 07:27:00 PM
Manganese as Mn (Dissolved)	<0.003	mg/l	BH	0.003	200.7	10/03/2008 05:56:00 PM
Manganese as Mn (Total Recoverable)	0.003	mg/l	BH	0.003	200.7	10/13/2008 11:44:00 AM
Potassium as K (Dissolved)	<1	mg/l	BH	1	200.7	10/03/2008 05:56:00 PM
Potassium as K (Total Recoverable)	<1	mg/l	BH	1	200.7	10/06/2008 07:27:00 PM
Sodium as Na (Dissolved)	1	mg/l	BH	1	200.7	10/03/2008 05:56:00 PM
Sodium as Na (Total Recoverable)	1	mg/l	BH	1	200.7	10/06/2008 07:27:00 PM
Zinc as Zn (Dissolved)	<0.01	mg/l	BH	0.01	200.7	10/03/2008 05:56:00 PM
Zinc as Zn (Total Recoverable)	<0.01	mg/l	BH	0.01	200.7	10/06/2008 07:27:00 PM
Cations	1.83	meq/l	---	0.38	1030F	
Anions	1.76	meq/l	---	0.20	1030F	
Cation/Anion Balance	0.07	[max 0.2]	---	-----	AWWA/APHA	
Metals Batch#/Digestion Date	1783	-----	BH	-----	200.2	10/03/2008 10:45:00 AM

Client: TETRA TECH, INC.
Project Name: NEW WORLD SURFACE WATER
Project No.: 1157561506.209
Laboratory No.: 2008090265-18
Sample Name: RR-M-1
Sample Date/Time: 09/23/2008 15:20:00
Collected by: R. HIBBS/ M. PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD SURFACE WATER 2008/2009						
Acidity as CaCO3	<2	mg/l	ES	2	2310 B	10/03/2008 05:09:42 PM
Alkalinity Bicarbonate as HCO3	197	mg/l	ES	1	2320B	10/07/2008 10:00:00 AM
Alkalinity Carbonate as CO3	0	mg/l	ES	0	2320B	10/07/2008 10:00:00 AM
Alkalinity Total as CaCO3	161	mg/l	ES	1	2320B	10/07/2008 10:00:00 AM
Chloride as Cl	<1	mg/l	MRK	1	300.0	10/13/2008 10:40:00 PM
Sulfate as SO4	452	mg/l	MRK	25	300.0	10/12/2008 10:50:00 AM
Hardness as CaCO3	629	mg/l	BH	7	2340B	10/03/2008 05:59:00 PM
Electrical Conductivity	1020	umhos/cm	MRK	10	2510B	10/10/2008 02:38:00 PM
pH	7.1	S.U.	CC	0.1-13.5	4500-H+-B	09/25/2008 05:59:00 PM
Total Dissolved Solids	849	mg/l	RM	20	2540C	09/30/2008 08:30:00 AM
Total Suspended Solids	26	mg/l	RM	1	2540D	09/30/2008 08:15:00 AM
Aluminum as Al (Dissolved)	<0.05	mg/l	BH	0.05	200.7	10/03/2008 05:59:00 PM
Aluminum as Al (Total Recoverable)	<0.05	mg/l	BH	0.05	200.7	10/06/2008 07:39:00 PM
Cadmium as Cd (Dissolved)	0.0003	mg/l	BH	0.0001	200.8	10/08/2008 01:05:00 PM
Cadmium as Cd (Total Recoverable)	0.0003	mg/l	BH	0.0001	200.8	10/10/2008 03:34:00 PM
Calcium as Ca (Dissolved)	163	mg/l	BH	1	200.7	10/03/2008 05:59:00 PM
Calcium as Ca (Total Recoverable)	167	mg/l	BH	1	200.7	10/06/2008 07:39:00 PM
Copper as Cu (Dissolved)	<0.001	mg/l	DK	0.001	200.8	10/15/2008 12:40:00 PM
Copper as Cu (Total Recoverable)	<0.001	mg/l	DK	0.001	200.8	10/14/2008 11:17:00 AM
Iron as Fe (Dissolved)	13.2	mg/l	BH	0.01	200.7	10/03/2008 05:59:00 PM
Iron as Fe (Total Recoverable)	13.6	mg/l	BH	0.01	200.7	10/06/2008 07:39:00 PM
Lead as Pb (Dissolved)	<0.001	mg/l	BH	0.001	200.8	10/08/2008 01:05:00 PM
Lead as Pb (Total Recoverable)	0.001	mg/l	BH	0.001	200.8	10/10/2008 03:34:00 PM
Magnesium as Mg (Dissolved)	54	mg/l	BH	1	200.7	10/03/2008 05:59:00 PM
Magnesium as Mg (Total Recoverable)	58	mg/l	BH	1	200.7	10/06/2008 07:39:00 PM
Manganese as Mn (Dissolved)	2.20	mg/l	BH	0.003	200.7	10/03/2008 05:59:00 PM
Manganese as Mn (Total Recoverable)	2.24	mg/l	BH	0.005	200.7	10/06/2008 07:39:00 PM
Potassium as K (Dissolved)	2	mg/l	BH	1	200.7	10/03/2008 05:59:00 PM
Potassium as K (Total Recoverable)	2	mg/l	BH	1	200.7	10/06/2008 07:39:00 PM
Sodium as Na (Dissolved)	5	mg/l	BH	1	200.7	10/03/2008 05:59:00 PM
Sodium as Na (Total Recoverable)	5	mg/l	BH	1	200.7	10/06/2008 07:39:00 PM
Zinc as Zn (Dissolved)	0.14	mg/l	BH	0.01	200.7	10/03/2008 05:59:00 PM
Zinc as Zn (Total Recoverable)	0.15	mg/l	BH	0.01	200.7	10/06/2008 07:39:00 PM
Cations	12.85	meq/l	---	0.38	1030F	
Anions	12.63	meq/l	---	0.20	1030F	
Cation/Anion Balance	0.86	% [max 5%]	---	-----	AWWA/APHA	
Metals Batch#/Digestion Date	1783	-----	BH	-----	200.2	10/03/2008 10:45:00 AM

Client: TETRA TECH, INC.
Project Name: NEW WORLD SURFACE WATER
Project No.: 1157561506.209
Laboratory No.: 2008090265-19
Sample Name: RR-D-18
Sample Date/Time: 09/23/2008 16:15:00
Collected by: R. HIBBS/ M. PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD SURFACE WATER 2008/2009						
Acidity as CaCO3	6	mg/l	ES	2	2310 B	10/03/2008 05:09:42 PM
Alkalinity Bicarbonate as HCO3	17	mg/l	ES	1	2320B	10/07/2008 10:00:00 AM
Alkalinity Carbonate as CO3	0	mg/l	ES	0	2320B	10/07/2008 10:00:00 AM
Alkalinity Total as CaCO3	14	mg/l	ES	1	2320B	10/07/2008 10:00:00 AM
Chloride as Cl	<1	mg/l	MRK	1	300.0	10/13/2008 11:11:00 PM
Sulfate as SO4	421	mg/l	MRK	10	300.0	10/12/2008 11:20:00 AM
Hardness as CaCO3	430	mg/l	BH	7	2340B	10/03/2008 06:02:00 PM
Electrical Conductivity	782	umhos/cm	MRK	10	2510B	10/10/2008 02:38:00 PM
pH	6.4	S.U.	CC	0.1-13.5	4500-H+-B	09/25/2008 05:59:00 PM
Total Dissolved Solids	647	mg/l	RM	20	2540C	09/30/2008 08:30:00 AM
Total Suspended Solids	34	mg/l	RM	2	2540D	09/30/2008 08:15:00 AM
Aluminum as Al (Dissolved)	<0.05	mg/l	BH	0.05	200.7	10/03/2008 06:02:00 PM
Aluminum as Al (Total Recoverable)	0.32	mg/l	BH	0.05	200.7	10/13/2008 11:47:00 AM
Cadmium as Cd (Dissolved)	<0.0001	mg/l	DK	0.0001	200.8	10/15/2008 12:43:00 PM
Cadmium as Cd (Total Recoverable)	<0.0001	mg/l	DK	0.0001	200.8	10/14/2008 11:21:00 AM
Calcium as Ca (Dissolved)	136	mg/l	BH	1	200.7	10/03/2008 06:02:00 PM
Calcium as Ca (Total Recoverable)	141	mg/l	BH	1	200.7	10/06/2008 07:42:00 PM
Copper as Cu (Dissolved)	0.005	mg/l	BH	0.001	200.8	10/08/2008 01:11:00 PM
Copper as Cu (Total Recoverable)	0.027	mg/l	BH	0.001	200.8	10/10/2008 03:40:00 PM
Iron as Fe (Dissolved)	24.8	mg/l	BH	0.01	200.7	10/03/2008 06:02:00 PM
Iron as Fe (Total Recoverable)	30.3	mg/l	BH	0.01	200.7	10/06/2008 07:42:00 PM
Lead as Pb (Dissolved)	<0.001	mg/l	BH	0.001	200.8	10/08/2008 01:11:00 PM
Lead as Pb (Total Recoverable)	<0.001	mg/l	BH	0.001	200.8	10/10/2008 03:40:00 PM
Magnesium as Mg (Dissolved)	22	mg/l	BH	1	200.7	10/03/2008 06:02:00 PM
Magnesium as Mg (Total Recoverable)	24	mg/l	BH	1	200.7	10/06/2008 07:42:00 PM
Manganese as Mn (Dissolved)	1.18	mg/l	BH	0.003	200.7	10/03/2008 06:02:00 PM
Manganese as Mn (Total Recoverable)	1.18	mg/l	BH	0.005	200.7	10/06/2008 07:42:00 PM
Potassium as K (Dissolved)	3	mg/l	BH	1	200.7	10/03/2008 06:02:00 PM
Potassium as K (Total Recoverable)	3	mg/l	BH	1	200.7	10/06/2008 07:42:00 PM
Sodium as Na (Dissolved)	5	mg/l	BH	1	200.7	10/03/2008 06:02:00 PM
Sodium as Na (Total Recoverable)	4	mg/l	BH	1	200.7	10/06/2008 07:42:00 PM
Zinc as Zn (Dissolved)	0.08	mg/l	BH	0.01	200.7	10/03/2008 06:02:00 PM
Zinc as Zn (Total Recoverable)	0.09	mg/l	BH	0.01	200.7	10/06/2008 07:42:00 PM
Cations	9.01	meq/l	---	0.38	1030F	
Anions	9.05	meq/l	---	0.20	1030F	
Cation/Anion Balance	0.22	% [max 2%]	---	-----	AWWA/APHA	
Metals Batch#/Digestion Date	1783	-----	BH	-----	200.2	10/03/2008 10:45:00 AM

Client: TETRA TECH, INC.
Project Name: NEW WORLD SURFACE WATER
Project No.: 1157561506.209
Laboratory No.: 2008090265-20
Sample Name: RR-SUMP
Sample Date/Time: 09/23/2008 17:20:00
Collected by: R. HIBBS/ M. PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
METALS						
Arsenic as As (Total Recoverable)	<0.003	mg/l	BH	0.003	200.8	10/10/2008 03:46:00 PM
Barium as Ba (Total Recoverable)	0.025	mg/l	BH	0.005	200.8	10/10/2008 03:46:00 PM
Chromium as Cr (Total Recoverable)	<0.001	mg/l	BH	0.001	200.8	10/10/2008 03:46:00 PM
Mercury as Hg (Total Recoverable)	<0.00001	mg/l	DK	0.00001	200.8	10/02/2008 03:00:00 PM
Selenium as Se (Total Recoverable)	0.003	mg/l	DK	0.001	200.8	10/14/2008 11:24:00 AM
Silver as Ag (Total Recoverable)	<0.0005	mg/l	DK	0.0005	200.8	10/14/2008 11:24:00 AM
Mercury Batch #/Digest Date	1781	-----	DK		200.2	10/01/2008 04:00:00 PM
NEW WORLD SURFACE WATER 2008/2009						
Acidity as CaCO3	<2	mg/l	ES	2	2310 B	10/03/2008 05:09:42 PM
Alkalinity Bicarbonate as HCO3	NA	-----	-----	-----	-----	-----
Alkalinity Carbonate as CO3	NA	-----	-----	-----	-----	-----
Alkalinity Total as CaCO3	NA	-----	-----	-----	-----	-----
Chloride as Cl	8	mg/l	MRK	1	300.0	10/13/2008 11:41:00 PM
Sulfate as SO4	1630	mg/l	MRK	50	300.0	10/12/2008 11:51:00 AM
Hardness as CaCO3	2470	mg/l	BH	7	2340B	10/08/2008 04:46:00 PM
Electrical Conductivity	3680	umhos/cm	MRK	10	2510B	10/10/2008 02:38:00 PM
pH	6.6	S.U.	CC	0.1-13.5	4500-H+-B	09/25/2008 05:59:00 PM
Total Dissolved Solids	3490	mg/l	RM	20	2540C	09/30/2008 08:30:00 AM
Total Suspended Solids	2	mg/l	RM	1	2540D	09/30/2008 08:15:00 AM
Aluminum as Al (Dissolved)	<0.05	mg/l	BH	0.05	200.7	10/03/2008 06:05:00 PM
Aluminum as Al (Total Recoverable)	<0.05	mg/l	BH	0.05	200.7	10/06/2008 07:45:00 PM
Cadmium as Cd (Dissolved)	0.0001	mg/l	DK	0.0001	200.8	10/15/2008 12:46:00 PM
Cadmium as Cd (Total Recoverable)	0.0001	mg/l	DK	0.0001	200.8	10/14/2008 11:24:00 AM
Calcium as Ca (Dissolved)	645	mg/l	BH	1	200.7	10/08/2008 04:46:00 PM
Calcium as Ca (Total Recoverable)	764	mg/l	BH	1	200.7	10/13/2008 11:50:00 AM
Copper as Cu (Dissolved)	0.004	mg/l	BH	0.001	200.8	10/08/2008 01:17:00 PM
Copper as Cu (Total Recoverable)	0.003	mg/l	BH	0.001	200.8	10/10/2008 03:46:00 PM
Iron as Fe (Dissolved)	0.04	mg/l	BH	0.01	200.7	10/03/2008 06:05:00 PM
Iron as Fe (Total Recoverable)	0.14	mg/l	BH	0.01	200.7	10/06/2008 07:45:00 PM
Lead as Pb (Dissolved)	<0.001	mg/l	BH	0.001	200.8	10/08/2008 01:17:00 PM
Lead as Pb (Total Recoverable)	<0.001	mg/l	BH	0.001	200.8	10/10/2008 03:46:00 PM
Magnesium as Mg (Dissolved)	211	mg/l	BH	1	200.7	10/03/2008 06:05:00 PM
Magnesium as Mg (Total Recoverable)	253	mg/l	BH	1	200.7	10/06/2008 07:45:00 PM
Manganese as Mn (Dissolved)	3.83	mg/l	BH	0.003	200.7	10/03/2008 06:05:00 PM
Manganese as Mn (Total Recoverable)	3.57	mg/l	BH	0.005	200.7	10/06/2008 07:45:00 PM
Potassium as K (Dissolved)	6	mg/l	BH	1	200.7	10/03/2008 06:05:00 PM

Client: TETRA TECH, INC.
Project Name: NEW WORLD SURFACE WATER
Project No.: 1157561506.209
Laboratory No.: 2008090265-20
Sample Name: RR-SUMP
Sample Date/Time: 09/23/2008 17:20:00
Collected by: R. HIBBS/ M. PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD SURFACE WATER 2008/2009						
Potassium as K (Total Recoverable)	7	mg/l	BH	1	200.7	10/06/2008 07:45:00 PM
Sodium as Na (Dissolved)	77	mg/l	BH	1	200.7	10/03/2008 06:05:00 PM
Sodium as Na (Total Recoverable)	89	mg/l	BH	1	200.7	10/06/2008 07:45:00 PM
Zinc as Zn (Dissolved)	<0.01	mg/l	BH	0.01	200.7	10/03/2008 06:05:00 PM
Zinc as Zn (Total Recoverable)	<0.01	mg/l	BH	0.01	200.7	10/06/2008 07:45:00 PM
Metals Batch#/Digestion Date	1783	-----	BH	-----	200.2	10/03/2008 10:45:00 AM

Client: TETRA TECH, INC.
Project Name: NEW WORLD SURFACE WATER
Project No.: 1157561506.209
Laboratory No.: 2008090265-21
Sample Name: RR-SW-7
Sample Date/Time: 09/24/2008 09:30:00
Collected by: R. HIBBS/ M. PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD SURFACE WATER 2008/2009						
Acidity as CaCO3	<2	mg/l	ES	2	2310 B	10/08/2008 03:47:49 PM
Alkalinity Bicarbonate as HCO3	109	mg/l	ES	1	2320B	10/07/2008 10:00:00 AM
Alkalinity Carbonate as CO3	0	mg/l	ES	0	2320B	10/07/2008 10:00:00 AM
Alkalinity Total as CaCO3	89	mg/l	ES	1	2320B	10/07/2008 10:00:00 AM
Chloride as Cl	<1	mg/l	MRK	1	300.0	10/12/2008 12:21:00 PM
Sulfate as SO4	20	mg/l	MRK	5	300.0	10/12/2008 12:21:00 PM
Hardness as CaCO3	114	mg/l	BH	7	2340B	10/16/2008 04:32:00 PM
Electrical Conductivity	214	umhos/cm	MRK	10	2510B	10/10/2008 02:38:00 PM
pH	7.8	S.U.	CC	0.1-13.5	4500-H+-B	09/25/2008 05:59:00 PM
Total Dissolved Solids	152	mg/l	RM	20	2540C	09/30/2008 08:15:00 AM
Total Suspended Solids	3	mg/l	RM	2	2540D	09/30/2008 08:15:00 AM
Aluminum as Al (Dissolved)	<0.05	mg/l	BH	0.05	200.7	10/03/2008 06:29:00 PM
Aluminum as Al (Total Recoverable)	<0.05	mg/l	BH	0.05	200.7	10/13/2008 11:59:00 AM
Cadmium as Cd (Dissolved)	<0.0001	mg/l	DK	0.0001	200.8	10/15/2008 12:49:00 PM
Cadmium as Cd (Total Recoverable)	<0.0001	mg/l	DK	0.0001	200.8	10/17/2008 03:54:00 PM
Calcium as Ca (Dissolved)	34	mg/l	BH	1	200.7	10/16/2008 04:32:00 PM
Calcium as Ca (Total Recoverable)	36	mg/l	BH	1	200.7	10/06/2008 07:57:00 PM
Copper as Cu (Dissolved)	0.001	mg/l	DK	0.001	200.8	10/15/2008 12:49:00 PM
Copper as Cu (Total Recoverable)	0.009	mg/l	BH	0.001	200.8	10/10/2008 04:04:00 PM
Iron as Fe (Dissolved)	0.01	mg/l	BH	0.01	200.7	10/03/2008 06:29:00 PM
Iron as Fe (Total Recoverable)	0.19	mg/l	BH	0.01	200.7	10/06/2008 07:57:00 PM
Lead as Pb (Dissolved)	<0.001	mg/l	BH	0.001	200.8	10/08/2008 02:32:00 PM
Lead as Pb (Total Recoverable)	<0.001	mg/l	BH	0.001	200.8	10/10/2008 04:04:00 PM
Magnesium as Mg (Dissolved)	7	mg/l	BH	1	200.7	10/03/2008 06:29:00 PM
Magnesium as Mg (Total Recoverable)	7	mg/l	BH	1	200.7	10/06/2008 07:57:00 PM
Manganese as Mn (Dissolved)	0.016	mg/l	BH	0.003	200.7	10/03/2008 06:29:00 PM
Manganese as Mn (Total Recoverable)	0.018	mg/l	BH	0.005	200.7	10/06/2008 07:57:00 PM
Potassium as K (Dissolved)	<1	mg/l	BH	1	200.7	10/03/2008 06:29:00 PM
Potassium as K (Total Recoverable)	<1	mg/l	BH	1	200.7	10/06/2008 07:57:00 PM
Sodium as Na (Dissolved)	2	mg/l	BH	1	200.7	10/03/2008 06:29:00 PM
Sodium as Na (Total Recoverable)	2	mg/l	BH	1	200.7	10/06/2008 07:57:00 PM
Zinc as Zn (Dissolved)	<0.01	mg/l	BH	0.01	200.7	10/03/2008 06:29:00 PM
Zinc as Zn (Total Recoverable)	<0.01	mg/l	BH	0.01	200.7	10/06/2008 07:57:00 PM
Cations	2.36	meq/l	---	0.38	1030F	
Anions	2.20	meq/l	---	0.20	1030F	
Cation/Anion Balance	0.16	[max 0.2]	---	-----	AWWA/APHA	
Metals Batch#/Digestion Date	1784	-----	BH	-----	200.2	10/03/2008 01:00:00 PM

Client: TETRA TECH, INC.
Project Name: NEW WORLD SURFACE WATER
Project No.: 1157561506.209
Laboratory No.: 2008090265-22
Sample Name: RR-USGS-11890
Sample Date/Time: 09/24/2008 11:30:00
Collected by: R. HIBBS/ M. PEARSON
Sample Type: WATER

NEW WORLD SURFACE WATER 2008/2009

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3	<2	mg/l	ES	2	2310 B	10/08/2008 03:47:49 PM
Alkalinity Bicarbonate as HCO3	73	mg/l	ES	1	2320B	10/07/2008 10:00:00 AM
Alkalinity Carbonate as CO3	0	mg/l	ES	0	2320B	10/07/2008 10:00:00 AM
Alkalinity Total as CaCO3	60	mg/l	ES	1	2320B	10/07/2008 10:00:00 AM
Chloride as Cl	<1	mg/l	MRK	1	300.0	10/12/2008 01:22:00 PM
Sulfate as SO4	59	mg/l	MRK	5	300.0	10/12/2008 01:22:00 PM
Hardness as CaCO3	137	mg/l	BH	7	2340B	10/03/2008 06:35:00 PM
Electrical Conductivity	241	umhos/cm	MRK	10	2510B	10/10/2008 02:38:00 PM
pH	8.1	S.U.	CC	0.1-13.5	4500-H+-B	09/25/2008 05:59:00 PM
Total Dissolved Solids	130	mg/l	RM	20	2540C	09/30/2008 08:15:00 AM
Total Suspended Solids	7	mg/l	RM	3	2540D	09/30/2008 08:15:00 AM
Aluminum as Al (Dissolved)	<0.05	mg/l	BH	0.05	200.7	10/03/2008 06:35:00 PM
Aluminum as Al (Total Recoverable)	0.90	mg/l	BH	0.05	200.7	10/06/2008 08:04:00 PM
Cadmium as Cd (Dissolved)	0.0003	mg/l	BH	0.0001	200.8	10/08/2008 02:44:00 PM
Cadmium as Cd (Total Recoverable)	0.0002	mg/l	DK	0.0001	200.8	10/17/2008 03:59:00 PM
Calcium as Ca (Dissolved)	32	mg/l	BH	1	200.7	10/28/2008 03:11:00 PM
Calcium as Ca (Total Recoverable)	34	mg/l	BH	1	200.7	10/06/2008 08:04:00 PM
Copper as Cu (Dissolved)	0.015	mg/l	DK	0.001	200.8	10/15/2008 01:03:00 PM
Copper as Cu (Total Recoverable)	0.19	mg/l	BH	0.001	200.8	10/10/2008 04:29:00 PM
Iron as Fe (Dissolved)	<0.01	mg/l	BH	0.01	200.7	10/03/2008 06:35:00 PM
Iron as Fe (Total Recoverable)	0.71	mg/l	BH	0.01	200.7	10/06/2008 08:04:00 PM
Lead as Pb (Dissolved)	<0.001	mg/l	BH	0.001	200.8	10/08/2008 02:44:00 PM
Lead as Pb (Total Recoverable)	<0.001	mg/l	BH	0.001	200.8	10/10/2008 04:29:00 PM
Magnesium as Mg (Dissolved)	7	mg/l	BH	1	200.7	10/28/2008 03:11:00 PM
Magnesium as Mg (Total Recoverable)	8	mg/l	BH	1	200.7	10/06/2008 08:04:00 PM
Manganese as Mn (Dissolved)	0.19	mg/l	BH	0.003	200.7	10/03/2008 06:35:00 PM
Manganese as Mn (Total Recoverable)	0.11	mg/l	BH	0.005	200.7	10/06/2008 08:04:00 PM
Potassium as K (Dissolved)	<1	mg/l	BH	1	200.7	10/03/2008 06:35:00 PM
Potassium as K (Total Recoverable)	<1	mg/l	BH	1	200.7	10/06/2008 08:04:00 PM
Sodium as Na (Dissolved)	2	mg/l	BH	1	200.7	10/03/2008 06:35:00 PM
Sodium as Na (Total Recoverable)	2	mg/l	BH	1	200.7	10/06/2008 08:04:00 PM
Zinc as Zn (Dissolved)	<0.01	mg/l	BH	0.01	200.7	10/03/2008 06:35:00 PM
Zinc as Zn (Total Recoverable)	0.03	mg/l	BH	0.01	200.7	10/06/2008 08:04:00 PM
Cations	2.34	meq/l	---	0.38	1030F	
Anions	2.43	meq/l	---	0.20	1030F	
Cation/Anion Balance	0.09	[max 0.2]	---	-----	AWWA/APHA	
Metals Batch#/Digestion Date	1784	-----	BH	-----	200.2	10/03/2008 01:00:00 PM

Client: TETRA TECH, INC.
Project Name: NEW WORLD SURFACE WATER
Project No.: 1157561506.209
Laboratory No.: 2008090265-23
Sample Name: RR-DC-5
Sample Date/Time: 09/24/2008 12:30:00
Collected by: R. HIBBS/ M. PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD SURFACE WATER 2008/2009						
Acidity as CaCO3	<2	mg/l	ES	2	2310 B	10/08/2008 03:47:49 PM
Alkalinity Bicarbonate as HCO3	32	mg/l	ES	1	2320B	10/07/2008 10:00:00 AM
Alkalinity Carbonate as CO3	0	mg/l	ES	0	2320B	10/07/2008 10:00:00 AM
Alkalinity Total as CaCO3	26	mg/l	ES	1	2320B	10/07/2008 10:00:00 AM
Chloride as Cl	<1	mg/l	MRK	1	300.0	10/12/2008 01:53:00 PM
Sulfate as SO4	171	mg/l	MRK	5	300.0	10/12/2008 01:53:00 PM
Hardness as CaCO3	203	mg/l	BH	7	2340B	10/03/2008 06:38:00 PM
Electrical Conductivity	381	umhos/cm	MRK	10	2510B	10/10/2008 02:38:00 PM
pH	7.4	S.U.	CC	0.1-13.5	4500-H+-B	09/25/2008 05:59:00 PM
Total Dissolved Solids	261	mg/l	RM	20	2540C	09/30/2008 08:15:00 AM
Total Suspended Solids	48	mg/l	RM	8	2540D	09/30/2008 08:15:00 AM
Aluminum as Al (Dissolved)	<0.05	mg/l	BH	0.05	200.7	10/03/2008 06:38:00 PM
Aluminum as Al (Total Recoverable)	6.53	mg/l	BH	0.05	200.7	10/06/2008 08:07:00 PM
Cadmium as Cd (Dissolved)	0.0010	mg/l	BH	0.0001	200.8	10/08/2008 02:50:00 PM
Cadmium as Cd (Total Recoverable)	0.0013	mg/l	DK	0.0001	200.8	10/17/2008 04:02:00 PM
Calcium as Ca (Dissolved)	60	mg/l	BH	1	200.7	10/03/2008 06:38:00 PM
Calcium as Ca (Total Recoverable)	60	mg/l	BH	1	200.7	10/06/2008 08:07:00 PM
Copper as Cu (Dissolved)	0.028	mg/l	DK	0.001	200.8	10/15/2008 01:06:00 PM
Copper as Cu (Total Recoverable)	1.48	mg/l	BH	0.001	200.7	10/06/2008 08:07:00 PM
Iron as Fe (Dissolved)	<0.01	mg/l	BH	0.01	200.7	10/03/2008 06:38:00 PM
Iron as Fe (Total Recoverable)	5.34	mg/l	BH	0.01	200.7	10/06/2008 08:07:00 PM
Lead as Pb (Dissolved)	<0.001	mg/l	BH	0.001	200.8	10/08/2008 02:50:00 PM
Lead as Pb (Total Recoverable)	0.005	mg/l	BH	0.001	200.8	10/10/2008 04:35:00 PM
Magnesium as Mg (Dissolved)	13	mg/l	BH	1	200.7	10/03/2008 06:38:00 PM
Magnesium as Mg (Total Recoverable)	14	mg/l	BH	1	200.7	10/06/2008 08:07:00 PM
Manganese as Mn (Dissolved)	0.69	mg/l	BH	0.003	200.7	10/03/2008 06:38:00 PM
Manganese as Mn (Total Recoverable)	0.71	mg/l	BH	0.005	200.7	10/06/2008 08:07:00 PM
Potassium as K (Dissolved)	<1	mg/l	BH	1	200.7	10/03/2008 06:38:00 PM
Potassium as K (Total Recoverable)	1	mg/l	BH	1	200.7	10/06/2008 08:07:00 PM
Sodium as Na (Dissolved)	2	mg/l	BH	1	200.7	10/03/2008 06:38:00 PM
Sodium as Na (Total Recoverable)	2	mg/l	BH	1	200.7	10/06/2008 08:07:00 PM
Zinc as Zn (Dissolved)	0.09	mg/l	BH	0.01	200.7	10/03/2008 06:38:00 PM
Zinc as Zn (Total Recoverable)	0.21	mg/l	BH	0.01	200.7	10/06/2008 08:07:00 PM
Cations	4.15	meq/l	---	0.38	1030F	
Anions	4.08	meq/l	---	0.20	1030F	
Cation/Anion Balance	0.85	% [max 2%]	---	-----	AWWA/APHA	
Metals Batch#/Digestion Date	1784	-----	BH	-----	200.2	10/03/2008 01:00:00 PM

Client: TETRA TECH, INC.
Project Name: NEW WORLD SURFACE WATER
Project No.: 1157561506.209
Laboratory No.: 2008090265-24
Sample Name: RR-USGS-1700
Sample Date/Time: 09/24/2008 14:40:00
Collected by: R. HIBBS/ M. PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD SURFACE WATER 2008/2009						
Acidity as CaCO3	27	mg/l	ES	1	2310 B	10/08/2008 03:47:49 PM
Alkalinity Bicarbonate as HCO3	<1	mg/l	ES	1	2320B	10/07/2008 10:00:00 AM
Alkalinity Carbonate as CO3	0	mg/l	ES	0	2320B	10/07/2008 10:00:00 AM
Alkalinity Total as CaCO3	<1	mg/l	ES	1	2320B	10/07/2008 10:00:00 AM
Chloride as Cl	<1	mg/l	MRK	1	300.0	10/14/2008 12:12:00 AM
Sulfate as SO4	263	mg/l	MRK	10	300.0	10/12/2008 02:23:00 PM
Hardness as CaCO3	244	mg/l	BH	7	2340B	10/03/2008 06:41:00 PM
Electrical Conductivity	508	umhos/cm	MRK	10	2510B	10/10/2008 02:38:00 PM
pH	4.9	S.U.	CC	0.1-13.5	4500-H+-B	09/25/2008 05:59:00 PM
Total Dissolved Solids	371	mg/l	RM	20	2540C	09/30/2008 08:15:00 AM
Total Suspended Solids	15	mg/l	RM	2	2540D	09/30/2008 08:15:00 AM
Aluminum as Al (Dissolved)	3.71	mg/l	BH	0.05	200.7	10/03/2008 06:41:00 PM
Aluminum as Al (Total Recoverable)	4.64	mg/l	BH	0.05	200.7	10/06/2008 08:19:00 PM
Cadmium as Cd (Dissolved)	0.0013	mg/l	BH	0.0001	200.8	10/08/2008 03:11:00 PM
Cadmium as Cd (Total Recoverable)	0.0013	mg/l	DK	0.0001	200.8	10/17/2008 04:05:00 PM
Calcium as Ca (Dissolved)	78	mg/l	BH	1	200.7	10/03/2008 06:41:00 PM
Calcium as Ca (Total Recoverable)	78	mg/l	BH	1	200.7	10/06/2008 08:19:00 PM
Copper as Cu (Dissolved)	0.67	mg/l	BH	0.001	200.7	10/03/2008 06:41:00 PM
Copper as Cu (Total Recoverable)	0.76	mg/l	BH	0.001	200.7	10/06/2008 08:19:00 PM
Iron as Fe (Dissolved)	0.18	mg/l	BH	0.01	200.7	10/03/2008 06:41:00 PM
Iron as Fe (Total Recoverable)	1.28	mg/l	BH	0.01	200.7	10/06/2008 08:19:00 PM
Lead as Pb (Dissolved)	0.009	mg/l	BH	0.001	200.8	10/08/2008 03:11:00 PM
Lead as Pb (Total Recoverable)	0.015	mg/l	BH	0.001	200.8	10/10/2008 04:41:00 PM
Magnesium as Mg (Dissolved)	12	mg/l	BH	1	200.7	10/03/2008 06:41:00 PM
Magnesium as Mg (Total Recoverable)	12	mg/l	BH	1	200.7	10/06/2008 08:19:00 PM
Manganese as Mn (Dissolved)	0.86	mg/l	BH	0.003	200.7	10/03/2008 06:41:00 PM
Manganese as Mn (Total Recoverable)	0.85	mg/l	BH	0.005	200.7	10/06/2008 08:19:00 PM
Potassium as K (Dissolved)	2	mg/l	BH	1	200.7	10/03/2008 06:41:00 PM
Potassium as K (Total Recoverable)	2	mg/l	BH	1	200.7	10/06/2008 08:19:00 PM
Sodium as Na (Dissolved)	3	mg/l	BH	1	200.7	10/03/2008 06:41:00 PM
Sodium as Na (Total Recoverable)	3	mg/l	BH	1	200.7	10/06/2008 08:19:00 PM
Zinc as Zn (Dissolved)	0.14	mg/l	BH	0.01	200.7	10/03/2008 06:41:00 PM
Zinc as Zn (Total Recoverable)	0.15	mg/l	BH	0.01	200.7	10/06/2008 08:19:00 PM
Cations	5.60	meq/l	---	0.38	1030F	
Anions	5.46	meq/l	---	0.20	1030F	
Cation/Anion Balance	1.27	% [max 2%]	---	-----	AWWA/APHA	
Metals Batch#/Digestion Date	1784	-----	BH	-----	200.2	10/03/2008 01:00:00 PM

Client: TETRA TECH, INC.
Project Name: NEW WORLD SURFACE WATER
Project No.: 1157561506.209
Laboratory No.: 2008090265-25
Sample Name: RR-DCT-9
Sample Date/Time: 09/24/2008 15:00:00
Collected by: R. HIBBS/ M. PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD SURFACE WATER 2008/2009						
Acidity as CaCO3	81	mg/l	ES	1	2310 B	10/08/2008 03:47:49 PM
Alkalinity Bicarbonate as HCO3	<1	mg/l	ES	1	2320B	10/07/2008 10:00:00 AM
Alkalinity Carbonate as CO3	0	mg/l	ES	0	2320B	10/07/2008 10:00:00 AM
Alkalinity Total as CaCO3	<1	mg/l	ES	1	2320B	10/07/2008 10:00:00 AM
Chloride as Cl	<1	mg/l	MRK	1	300.0	10/14/2008 02:14:00 AM
Sulfate as SO4	221	mg/l	MRK	10	300.0	10/12/2008 03:55:00 PM
Hardness as CaCO3	135	mg/l	BH	7	2340B	10/03/2008 06:44:00 PM
Electrical Conductivity	494	umhos/cm	MRK	10	2510B	10/10/2008 02:38:00 PM
pH	3.4	S.U.	CC	0.1-13.5	4500-H+-B	09/25/2008 05:59:00 PM
Total Dissolved Solids	371	mg/l	RM	20	2540C	09/30/2008 08:15:00 AM
Total Suspended Solids	<1	mg/l	RM	1	2540D	09/30/2008 08:15:00 AM
Aluminum as Al (Dissolved)	9.46	mg/l	BH	0.05	200.7	10/03/2008 06:44:00 PM
Aluminum as Al (Total Recoverable)	9.87	mg/l	BH	0.05	200.7	10/06/2008 08:22:00 PM
Cadmium as Cd (Dissolved)	0.0010	mg/l	BH	0.0001	200.8	10/08/2008 03:17:00 PM
Cadmium as Cd (Total Recoverable)	0.0010	mg/l	DK	0.0001	200.8	10/17/2008 04:07:00 PM
Calcium as Ca (Dissolved)	44	mg/l	BH	1	200.7	10/03/2008 06:44:00 PM
Calcium as Ca (Total Recoverable)	44	mg/l	BH	1	200.7	10/06/2008 08:22:00 PM
Copper as Cu (Dissolved)	0.69	mg/l	BH	0.001	200.7	10/03/2008 06:44:00 PM
Copper as Cu (Total Recoverable)	0.74	mg/l	BH	0.001	200.7	10/06/2008 08:22:00 PM
Iron as Fe (Dissolved)	0.66	mg/l	BH	0.01	200.7	10/03/2008 06:44:00 PM
Iron as Fe (Total Recoverable)	0.65	mg/l	BH	0.01	200.7	10/06/2008 08:22:00 PM
Lead as Pb (Dissolved)	0.004	mg/l	BH	0.001	200.8	10/08/2008 03:17:00 PM
Lead as Pb (Total Recoverable)	0.004	mg/l	BH	0.001	200.8	10/10/2008 04:47:00 PM
Magnesium as Mg (Dissolved)	6	mg/l	BH	1	200.7	10/03/2008 06:44:00 PM
Magnesium as Mg (Total Recoverable)	6	mg/l	BH	1	200.7	10/06/2008 08:22:00 PM
Manganese as Mn (Dissolved)	0.52	mg/l	BH	0.003	200.7	10/03/2008 06:44:00 PM
Manganese as Mn (Total Recoverable)	0.52	mg/l	BH	0.005	200.7	10/06/2008 08:22:00 PM
Potassium as K (Dissolved)	3	mg/l	BH	1	200.7	10/03/2008 06:44:00 PM
Potassium as K (Total Recoverable)	3	mg/l	BH	1	200.7	10/06/2008 08:22:00 PM
Sodium as Na (Dissolved)	4	mg/l	BH	1	200.7	10/03/2008 06:44:00 PM
Sodium as Na (Total Recoverable)	3	mg/l	BH	1	200.7	10/06/2008 08:22:00 PM
Zinc as Zn (Dissolved)	0.12	mg/l	BH	0.01	200.7	10/03/2008 06:44:00 PM
Zinc as Zn (Total Recoverable)	0.12	mg/l	BH	0.01	200.7	10/06/2008 08:22:00 PM
Cations	4.56	meq/l	---	0.38	1030F	
Anions	4.60	meq/l	---	0.20	1030F	
Cation/Anion Balance	0.44	% [max 2%]	---	-----	AWWA/APHA	
Metals Batch#/Digestion Date	1784	-----	BH	-----	200.2	10/03/2008 01:00:00 PM

Client: TETRA TECH, INC.
Project Name: NEW WORLD SURFACE WATER
Project No.: 1157561506.209
Laboratory No.: 2008090265-26
Sample Name: RR-DCT-8
Sample Date/Time: 09/24/2008 15:30:00
Collected by: R. HIBBS/ M. PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD SURFACE WATER 2008/2009						
Acidity as CaCO3	301	mg/l	ES	1	2310 B	10/08/2008 03:47:49 PM
Alkalinity Bicarbonate as HCO3	<1	mg/l	ES	1	2320B	10/07/2008 10:00:00 AM
Alkalinity Carbonate as CO3	0	mg/l	ES	0	2320B	10/07/2008 10:00:00 AM
Alkalinity Total as CaCO3	<1	mg/l	ES	1	2320B	10/07/2008 10:00:00 AM
Chloride as Cl	<1	mg/l	MRK	1	300.0	10/14/2008 02:44:00 AM
Sulfate as SO4	618	mg/l	MRK	25	300.0	10/12/2008 04:25:00 PM
Hardness as CaCO3	269	mg/l	BH	7	2340B	10/03/2008 06:57:00 PM
Electrical Conductivity	1140	umhos/cm	MRK	10	2510B	10/10/2008 02:38:00 PM
pH	2.9	S.U.	CC	0.1-13.5	4500-H+-B	09/25/2008 05:59:00 PM
Total Dissolved Solids	891	mg/l	RM	20	2540C	09/30/2008 08:15:00 AM
Total Suspended Solids	2	mg/l	RM	1	2540D	09/30/2008 08:15:00 AM
Aluminum as Al (Dissolved)	28.3	mg/l	KC	0.05	200.7	10/10/2008 03:06:00 PM
Aluminum as Al (Total Recoverable)	29.0	mg/l	BH	0.25	200.7	10/13/2008 12:14:00 PM
Cadmium as Cd (Dissolved)	0.0077	mg/l	BH	0.0001	200.8	10/08/2008 03:23:00 PM
Cadmium as Cd (Total Recoverable)	0.0078	mg/l	DK	0.0001	200.8	10/17/2008 04:10:00 PM
Calcium as Ca (Dissolved)	78	mg/l	BH	1	200.7	10/03/2008 06:57:00 PM
Calcium as Ca (Total Recoverable)	78	mg/l	BH	1	200.7	10/06/2008 08:25:00 PM
Copper as Cu (Dissolved)	7.19	mg/l	BH	0.001	200.7	10/03/2008 06:57:00 PM
Copper as Cu (Total Recoverable)	7.80	mg/l	BH	0.001	200.7	10/06/2008 08:25:00 PM
Iron as Fe (Dissolved)	34.0	mg/l	BH	0.01	200.7	10/03/2008 06:57:00 PM
Iron as Fe (Total Recoverable)	33.1	mg/l	BH	0.01	200.7	10/06/2008 08:25:00 PM
Lead as Pb (Dissolved)	0.006	mg/l	BH	0.001	200.8	10/08/2008 03:23:00 PM
Lead as Pb (Total Recoverable)	0.006	mg/l	BH	0.001	200.8	10/10/2008 04:53:00 PM
Magnesium as Mg (Dissolved)	18	mg/l	BH	1	200.7	10/03/2008 06:57:00 PM
Magnesium as Mg (Total Recoverable)	20	mg/l	BH	1	200.7	10/06/2008 08:25:00 PM
Manganese as Mn (Dissolved)	3.58	mg/l	BH	0.003	200.7	10/03/2008 06:57:00 PM
Manganese as Mn (Total Recoverable)	3.51	mg/l	BH	0.005	200.7	10/06/2008 08:25:00 PM
Potassium as K (Dissolved)	3	mg/l	BH	1	200.7	10/03/2008 06:57:00 PM
Potassium as K (Total Recoverable)	3	mg/l	BH	1	200.7	10/06/2008 08:25:00 PM
Sodium as Na (Dissolved)	4	mg/l	BH	1	200.7	10/03/2008 06:57:00 PM
Sodium as Na (Total Recoverable)	4	mg/l	BH	1	200.7	10/06/2008 08:25:00 PM
Zinc as Zn (Dissolved)	1.16	mg/l	BH	0.01	200.7	10/03/2008 06:57:00 PM
Zinc as Zn (Total Recoverable)	1.17	mg/l	BH	0.01	200.7	10/06/2008 08:25:00 PM
Cations	11.64	meq/l	---	0.38	1030F	
Anions	12.87	meq/l	---	0.20	1030F	
Cation/Anion Balance	5.02	% [max 5%]	---	-----	AWWA/APHA	
Metals Batch#/Digestion Date	1784	-----	BH	-----	200.2	10/03/2008 01:00:00 PM

Client: TETRA TECH, INC.
Project Name: NEW WORLD SURFACE WATER
Project No.: 1157561506.209
Laboratory No.: 2008090265-27
Sample Name: RR-DCT-7
Sample Date/Time: 09/24/2008 16:00:00
Collected by: R. HIBBS/ M. PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD SURFACE WATER 2008/2009						
Acidity as CaCO3	8	mg/l	ES	1	2310 B	10/08/2008 03:47:49 PM
Alkalinity Bicarbonate as HCO3	27	mg/l	ES	1	2320B	10/07/2008 10:00:00 AM
Alkalinity Carbonate as CO3	0	mg/l	ES	0	2320B	10/07/2008 10:00:00 AM
Alkalinity Total as CaCO3	22	mg/l	ES	1	2320B	10/07/2008 10:00:00 AM
Chloride as Cl	<1	mg/l	MRK	1	300.0	10/12/2008 05:26:00 PM
Sulfate as SO4	128	mg/l	MRK	5	300.0	10/12/2008 05:26:00 PM
Hardness as CaCO3	142	mg/l	BH	7	2340B	10/16/2008 04:48:00 PM
Electrical Conductivity	311	umhos/cm	MRK	10	2510B	10/10/2008 02:38:00 PM
pH	6.4	S.U.	CC	0.1-13.5	4500-H+-B	09/25/2008 05:59:00 PM
Total Dissolved Solids	227	mg/l	RM	20	2540C	09/30/2008 08:15:00 AM
Total Suspended Solids	1	mg/l	RM	1	2540D	09/30/2008 08:15:00 AM
Aluminum as Al (Dissolved)	<0.05	mg/l	BH	0.05	200.7	10/03/2008 07:06:00 PM
Aluminum as Al (Total Recoverable)	0.08	mg/l	BH	0.05	200.7	10/13/2008 12:20:00 PM
Cadmium as Cd (Dissolved)	0.0012	mg/l	BH	0.0001	200.8	10/08/2008 03:35:00 PM
Cadmium as Cd (Total Recoverable)	0.0012	mg/l	DK	0.0001	200.8	10/17/2008 04:12:00 PM
Calcium as Ca (Dissolved)	47	mg/l	BH	1	200.7	10/16/2008 04:48:00 PM
Calcium as Ca (Total Recoverable)	55	mg/l	BH	1	200.7	10/06/2008 08:34:00 PM
Copper as Cu (Dissolved)	0.094	mg/l	DK	0.001	200.8	10/15/2008 01:08:00 PM
Copper as Cu (Total Recoverable)	0.11	mg/l	BH	0.001	200.8	10/10/2008 05:06:00 PM
Iron as Fe (Dissolved)	0.01	mg/l	BH	0.01	200.7	10/03/2008 07:06:00 PM
Iron as Fe (Total Recoverable)	0.03	mg/l	BH	0.01	200.7	10/06/2008 08:34:00 PM
Lead as Pb (Dissolved)	0.001	mg/l	BH	0.001	200.8	10/08/2008 03:35:00 PM
Lead as Pb (Total Recoverable)	<0.001	mg/l	BH	0.001	200.8	10/10/2008 05:06:00 PM
Magnesium as Mg (Dissolved)	6	mg/l	BH	1	200.7	10/03/2008 07:06:00 PM
Magnesium as Mg (Total Recoverable)	7	mg/l	BH	1	200.7	10/06/2008 08:34:00 PM
Manganese as Mn (Dissolved)	0.15	mg/l	BH	0.003	200.7	10/03/2008 07:06:00 PM
Manganese as Mn (Total Recoverable)	0.16	mg/l	BH	0.005	200.7	10/06/2008 08:34:00 PM
Potassium as K (Dissolved)	2	mg/l	BH	1	200.7	10/03/2008 07:06:00 PM
Potassium as K (Total Recoverable)	2	mg/l	BH	1	200.7	10/06/2008 08:34:00 PM
Sodium as Na (Dissolved)	1	mg/l	BH	1	200.7	10/16/2008 04:48:00 PM
Sodium as Na (Total Recoverable)	2	mg/l	BH	1	200.7	10/06/2008 08:34:00 PM
Zinc as Zn (Dissolved)	0.23	mg/l	BH	0.01	200.7	10/03/2008 07:06:00 PM
Zinc as Zn (Total Recoverable)	0.24	mg/l	BH	0.01	200.7	10/06/2008 08:34:00 PM
Cations	3.09	meq/l	---	0.38	1030F	
Anions	3.11	meq/l	---	0.20	1030F	
Cation/Anion Balance	0.02	[max 0.2]	---	-----	AWWA/APHA	
Metals Batch#/Digestion Date	1784	-----	BH	-----	200.2	10/03/2008 01:00:00 PM

Client: TETRA TECH, INC.
Project Name: NEW WORLD SURFACE WATER
Project No.: 1157561506.209
Laboratory No.: 2008090265-28
Sample Name: RR-DCSW-101
Sample Date/Time: 09/24/2008 16:30:00
Collected by: R. HIBBS/ M. PEARSON
Sample Type: WATER

NEW WORLD SURFACE WATER 2008/2009

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3	470	mg/l	ES	1	2310 B	10/08/2008 03:47:49 PM
Alkalinity Bicarbonate as HCO3	<1	mg/l	ES	1	2320B	10/07/2008 10:00:00 AM
Alkalinity Carbonate as CO3	0	mg/l	ES	0	2320B	10/07/2008 10:00:00 AM
Alkalinity Total as CaCO3	<1	mg/l	ES	1	2320B	10/07/2008 10:00:00 AM
Chloride as Cl	<1	mg/l	MRK	1	300.0	10/14/2008 03:45:00 AM
Sulfate as SO4	612	mg/l	MRK	10	300.0	10/16/2008 07:20:00 AM
Hardness as CaCO3	144	mg/l	BH	7	2340B	10/03/2008 07:15:00 PM
Electrical Conductivity	1280	umhos/cm	MRK	10	2510B	10/10/2008 02:38:00 PM
pH	2.9	S.U.	CC	0.1-13.5	4500-H+-B	09/25/2008 05:59:00 PM
Total Dissolved Solids	1020	mg/l	RM	20	2540C	09/30/2008 08:15:00 AM
Total Suspended Solids	25	mg/l	RM	3	2540D	09/30/2008 08:15:00 AM
Aluminum as Al (Dissolved)	26.8	mg/l	KC	0.05	200.7	10/10/2008 03:12:00 PM
Aluminum as Al (Total Recoverable)	27.0	mg/l	BH	0.25	200.7	10/13/2008 12:24:00 PM
Cadmium as Cd (Dissolved)	0.0085	mg/l	BH	0.0001	200.8	10/08/2008 03:41:00 PM
Cadmium as Cd (Total Recoverable)	0.0084	mg/l	DK	0.0001	200.8	10/17/2008 04:21:00 PM
Calcium as Ca (Dissolved)	38	mg/l	BH	1	200.7	10/03/2008 07:15:00 PM
Calcium as Ca (Total Recoverable)	39	mg/l	BH	1	200.7	10/06/2008 08:37:00 PM
Copper as Cu (Dissolved)	10.8	mg/l	KC	0.001	200.7	10/10/2008 03:12:00 PM
Copper as Cu (Total Recoverable)	11.3	mg/l	BH	0.05	200.7	10/13/2008 12:24:00 PM
Iron as Fe (Dissolved)	137	mg/l	KC	0.01	200.7	10/10/2008 03:12:00 PM
Iron as Fe (Total Recoverable)	142	mg/l	BH	0.01	200.7	10/13/2008 12:24:00 PM
Lead as Pb (Dissolved)	0.006	mg/l	BH	0.001	200.8	10/08/2008 03:41:00 PM
Lead as Pb (Total Recoverable)	0.008	mg/l	BH	0.001	200.8	10/10/2008 05:12:00 PM
Magnesium as Mg (Dissolved)	12	mg/l	BH	1	200.7	10/03/2008 07:15:00 PM
Magnesium as Mg (Total Recoverable)	13	mg/l	BH	1	200.7	10/06/2008 08:37:00 PM
Manganese as Mn (Dissolved)	2.84	mg/l	BH	0.003	200.7	10/03/2008 07:15:00 PM
Manganese as Mn (Total Recoverable)	2.86	mg/l	BH	0.005	200.7	10/06/2008 08:37:00 PM
Potassium as K (Dissolved)	2	mg/l	BH	1	200.7	10/03/2008 07:15:00 PM
Potassium as K (Total Recoverable)	2	mg/l	BH	1	200.7	10/06/2008 08:37:00 PM
Sodium as Na (Dissolved)	3	mg/l	BH	1	200.7	10/03/2008 07:15:00 PM
Sodium as Na (Total Recoverable)	3	mg/l	BH	1	200.7	10/06/2008 08:37:00 PM
Zinc as Zn (Dissolved)	1.46	mg/l	BH	0.01	200.7	10/03/2008 07:15:00 PM
Zinc as Zn (Total Recoverable)	1.44	mg/l	BH	0.01	200.7	10/06/2008 08:37:00 PM
Cations	12.47	meq/l	---	0.38	1030F	
Anions	12.74	meq/l	---	0.20	1030F	
Cation/Anion Balance	1.06	% [max 5%]	---	-----	AWWA/APHA	
Metals Batch#/Digestion Date	1784	-----	BH	-----	200.2	10/03/2008 01:00:00 PM

Client: TETRA TECH, INC.
Project Name: NEW WORLD SURFACE WATER
Project No.: 1157561506.209
Laboratory No.: 2008090265-29
Sample Name: RR-DCSW-101X
Sample Date/Time: 09/24/2008 16:40:00
Collected by: R. HIBBS/ M. PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD SURFACE WATER 2008/2009						
Acidity as CaCO3	483	mg/l	ES	1	2310 B	10/08/2008 03:47:49 PM
Alkalinity Bicarbonate as HCO3	<1	mg/l	ES	1	2320B	10/07/2008 10:00:00 AM
Alkalinity Carbonate as CO3	0	mg/l	ES	0	2320B	10/07/2008 10:00:00 AM
Alkalinity Total as CaCO3	<1	mg/l	ES	1	2320B	10/07/2008 10:00:00 AM
Chloride as Cl	<1	mg/l	MRK	1	300.0	10/14/2008 04:16:00 AM
Sulfate as SO4	676	mg/l	MRK	25	300.0	10/12/2008 06:27:00 PM
Hardness as CaCO3	144	mg/l	BH	7	2340B	10/03/2008 07:18:00 PM
Electrical Conductivity	1300	umhos/cm	MRK	10	2510B	10/10/2008 02:38:00 PM
pH	2.9	S.U.	CC	0.1-13.5	4500-H+-B	09/25/2008 05:59:00 PM
Total Dissolved Solids	989	mg/l	RM	20	2540C	09/30/2008 08:15:00 AM
Total Suspended Solids	34	mg/l	RM	2	2540D	09/30/2008 08:15:00 AM
Aluminum as Al (Dissolved)	26.8	mg/l	KC	0.05	200.7	10/10/2008 03:24:00 PM
Aluminum as Al (Total Recoverable)	28.4	mg/l	BH	0.25	200.7	10/13/2008 12:27:00 PM
Cadmium as Cd (Dissolved)	0.0085	mg/l	BH	0.0001	200.8	10/08/2008 03:47:00 PM
Cadmium as Cd (Total Recoverable)	0.0085	mg/l	DK	0.0001	200.8	10/17/2008 04:28:00 PM
Calcium as Ca (Dissolved)	38	mg/l	BH	1	200.7	10/03/2008 07:18:00 PM
Calcium as Ca (Total Recoverable)	41	mg/l	BH	1	200.7	10/06/2008 08:40:00 PM
Copper as Cu (Dissolved)	10.7	mg/l	KC	0.001	200.7	10/10/2008 03:24:00 PM
Copper as Cu (Total Recoverable)	11.8	mg/l	BH	0.05	200.7	10/13/2008 12:27:00 PM
Iron as Fe (Dissolved)	135	mg/l	KC	0.01	200.7	10/10/2008 03:24:00 PM
Iron as Fe (Total Recoverable)	152	mg/l	BH	0.01	200.7	10/13/2008 12:27:00 PM
Lead as Pb (Dissolved)	0.006	mg/l	BH	0.001	200.8	10/08/2008 03:47:00 PM
Lead as Pb (Total Recoverable)	0.006	mg/l	BH	0.001	200.8	10/10/2008 05:18:00 PM
Magnesium as Mg (Dissolved)	12	mg/l	BH	1	200.7	10/03/2008 07:18:00 PM
Magnesium as Mg (Total Recoverable)	13	mg/l	BH	1	200.7	10/06/2008 08:40:00 PM
Manganese as Mn (Dissolved)	2.88	mg/l	BH	0.003	200.7	10/03/2008 07:18:00 PM
Manganese as Mn (Total Recoverable)	2.99	mg/l	BH	0.005	200.7	10/06/2008 08:40:00 PM
Potassium as K (Dissolved)	2	mg/l	BH	1	200.7	10/03/2008 07:18:00 PM
Potassium as K (Total Recoverable)	2	mg/l	BH	1	200.7	10/06/2008 08:40:00 PM
Sodium as Na (Dissolved)	3	mg/l	BH	1	200.7	10/03/2008 07:18:00 PM
Sodium as Na (Total Recoverable)	3	mg/l	BH	1	200.7	10/06/2008 08:40:00 PM
Zinc as Zn (Dissolved)	1.42	mg/l	BH	0.01	200.7	10/03/2008 07:18:00 PM
Zinc as Zn (Total Recoverable)	1.48	mg/l	BH	0.01	200.7	10/06/2008 08:40:00 PM
Cations	12.73	meq/l	---	0.38	1030F	
Anions	14.08	meq/l	---	0.20	1030F	
Cation/Anion Balance	5.04	% [max 5%]	---	-----	AWWA/APHA	
Metals Batch#/Digestion Date	1784	-----	BH	-----	200.2	10/03/2008 01:00:00 PM

Client: TETRA TECH, INC.
Project Name: NEW WORLD SURFACE WATER
Project No.: 1157561506.209
Laboratory No.: 2008090265-30
Sample Name: RR-DCSW-102
Sample Date/Time: 09/24/2008 17:00:00
Collected by: R. HIBBS/ M. PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD SURFACE WATER 2008/2009						
Acidity as CaCO3	451	mg/l	ES	1	2310 B	10/08/2008 03:47:49 PM
Alkalinity Bicarbonate as HCO3	<1	mg/l	ES	1	2320B	10/07/2008 10:00:00 AM
Alkalinity Carbonate as CO3	0	mg/l	ES	0	2320B	10/07/2008 10:00:00 AM
Alkalinity Total as CaCO3	<1	mg/l	ES	1	2320B	10/07/2008 10:00:00 AM
Chloride as Cl	<1	mg/l	MRK	1	300.0	10/14/2008 04:46:00 AM
Sulfate as SO4	651	mg/l	MRK	10	300.0	10/16/2008 08:52:00 AM
Hardness as CaCO3	172	mg/l	BH	7	2340B	10/03/2008 07:24:00 PM
Electrical Conductivity	1300	umhos/cm	MRK	10	2510B	10/10/2008 02:38:00 PM
pH	2.7	S.U.	CC	0.1-13.5	4500-H+-B	09/25/2008 05:59:00 PM
Total Dissolved Solids	995	mg/l	RM	20	2540C	09/30/2008 08:15:00 AM
Total Suspended Solids	<1	mg/l	RM	1	2540D	09/30/2008 08:15:00 AM
Aluminum as Al (Dissolved)	20.9	mg/l	KC	0.05	200.7	10/10/2008 03:27:00 PM
Aluminum as Al (Total Recoverable)	22.2	mg/l	BH	0.25	200.7	10/13/2008 12:30:00 PM
Cadmium as Cd (Dissolved)	0.010	mg/l	BH	0.0001	200.8	10/08/2008 03:53:00 PM
Cadmium as Cd (Total Recoverable)	0.010	mg/l	DK	0.0001	200.8	10/17/2008 04:31:00 PM
Calcium as Ca (Dissolved)	41	mg/l	BH	1	200.7	10/03/2008 07:24:00 PM
Calcium as Ca (Total Recoverable)	42	mg/l	BH	1	200.7	10/06/2008 08:43:00 PM
Copper as Cu (Dissolved)	11.6	mg/l	KC	0.001	200.7	10/10/2008 03:27:00 PM
Copper as Cu (Total Recoverable)	13.0	mg/l	BH	0.05	200.7	10/13/2008 12:30:00 PM
Iron as Fe (Dissolved)	90.6	mg/l	KC	0.01	200.7	10/10/2008 03:27:00 PM
Iron as Fe (Total Recoverable)	101	mg/l	BH	0.01	200.7	10/13/2008 12:30:00 PM
Lead as Pb (Dissolved)	0.002	mg/l	BH	0.001	200.8	10/08/2008 03:53:00 PM
Lead as Pb (Total Recoverable)	0.001	mg/l	BH	0.001	200.8	10/10/2008 05:24:00 PM
Magnesium as Mg (Dissolved)	17	mg/l	BH	1	200.7	10/03/2008 07:24:00 PM
Magnesium as Mg (Total Recoverable)	18	mg/l	BH	1	200.7	10/06/2008 08:43:00 PM
Manganese as Mn (Dissolved)	3.53	mg/l	BH	0.003	200.7	10/03/2008 07:24:00 PM
Manganese as Mn (Total Recoverable)	3.51	mg/l	BH	0.005	200.7	10/06/2008 08:43:00 PM
Potassium as K (Dissolved)	<1	mg/l	BH	1	200.7	10/03/2008 07:24:00 PM
Potassium as K (Total Recoverable)	1	mg/l	BH	1	200.7	10/06/2008 08:43:00 PM
Sodium as Na (Dissolved)	3	mg/l	BH	1	200.7	10/03/2008 07:24:00 PM
Sodium as Na (Total Recoverable)	3	mg/l	BH	1	200.7	10/06/2008 08:43:00 PM
Zinc as Zn (Dissolved)	1.76	mg/l	BH	0.01	200.7	10/03/2008 07:24:00 PM
Zinc as Zn (Total Recoverable)	1.74	mg/l	BH	0.01	200.7	10/06/2008 08:43:00 PM
Cations	12.60	meq/l	---	0.38	1030F	
Anions	13.55	meq/l	---	0.20	1030F	
Cation/Anion Balance	3.63	% [max 5%]	---	-----	AWWA/APHA	
Metals Batch#/Digestion Date	1784	-----	BH	-----	200.2	10/03/2008 01:00:00 PM

Client: TETRA TECH, INC.
Project Name: NEW WORLD SURFACE WATER
Project No.: 1157561506.209
Laboratory No.: 2008090265-31
Sample Name: RR-DCSW-103
Sample Date/Time: 09/24/2008 17:30:00
Collected by: R. HIBBS/ M. PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD SURFACE WATER 2008/2009						
Acidity as CaCO3	1130	mg/l	ES	1	2310 B	10/08/2008 03:47:49 PM
Alkalinity Bicarbonate as HCO3	<1	mg/l	ES	1	2320B	10/07/2008 10:00:00 AM
Alkalinity Carbonate as CO3	0	mg/l	ES	0	2320B	10/07/2008 10:00:00 AM
Alkalinity Total as CaCO3	<1	mg/l	ES	1	2320B	10/07/2008 10:00:00 AM
Chloride as Cl	2	mg/l	MRK	1	300.0	10/14/2008 05:17:00 AM
Sulfate as SO4	1740	mg/l	MRK	25	300.0	10/12/2008 07:28:00 PM
Hardness as CaCO3	523	mg/l	BH	7	2340B	10/08/2008 03:14:00 PM
Electrical Conductivity	2390	umhos/cm	MRK	10	2510B	10/10/2008 02:38:00 PM
pH	2.6	S.U.	CC	0.1-13.5	4500-H+-B	09/25/2008 05:59:00 PM
Total Dissolved Solids	2560	mg/l	RM	20	2540C	09/30/2008 08:15:00 AM
Total Suspended Solids	<2	mg/l	RM	2	2540D	09/30/2008 08:15:00 AM
Aluminum as Al (Dissolved)	64.0	mg/l	KC	0.05	200.7	10/10/2008 03:30:00 PM
Aluminum as Al (Total Recoverable)	66.1	mg/l	BH	0.25	200.7	10/13/2008 12:33:00 PM
Cadmium as Cd (Dissolved)	0.022	mg/l	BH	0.0001	200.8	10/08/2008 03:59:00 PM
Cadmium as Cd (Total Recoverable)	0.020	mg/l	DK	0.0001	200.8	10/17/2008 04:33:00 PM
Calcium as Ca (Dissolved)	104	mg/l	BH	1	200.7	10/08/2008 03:14:00 PM
Calcium as Ca (Total Recoverable)	112	mg/l	BH	1	200.7	10/06/2008 08:46:00 PM
Copper as Cu (Dissolved)	23.1	mg/l	KC	0.001	200.7	10/10/2008 03:30:00 PM
Copper as Cu (Total Recoverable)	24.9	mg/l	BH	0.05	200.8	10/13/2008 12:33:00 PM
Iron as Fe (Dissolved)	244	mg/l	KC	0.01	200.7	10/10/2008 03:30:00 PM
Iron as Fe (Total Recoverable)	270	mg/l	BH	0.01	200.7	10/13/2008 12:33:00 PM
Lead as Pb (Dissolved)	0.002	mg/l	BH	0.001	200.8	10/08/2008 03:59:00 PM
Lead as Pb (Total Recoverable)	0.003	mg/l	BH	0.001	200.8	10/10/2008 05:43:00 PM
Magnesium as Mg (Dissolved)	64	mg/l	BH	1	200.7	10/03/2008 07:36:00 PM
Magnesium as Mg (Total Recoverable)	70	mg/l	BH	1	200.7	10/06/2008 08:46:00 PM
Manganese as Mn (Dissolved)	10.7	mg/l	BH	0.003	200.7	10/03/2008 07:36:00 PM
Manganese as Mn (Total Recoverable)	10.7	mg/l	BH	0.005	200.7	10/06/2008 08:46:00 PM
Potassium as K (Dissolved)	<1	mg/l	BH	1	200.7	10/03/2008 07:36:00 PM
Potassium as K (Total Recoverable)	<1	mg/l	BH	1	200.7	10/06/2008 08:46:00 PM
Sodium as Na (Dissolved)	5	mg/l	BH	1	200.7	10/03/2008 07:36:00 PM
Sodium as Na (Total Recoverable)	5	mg/l	BH	1	200.7	10/06/2008 08:46:00 PM
Zinc as Zn (Dissolved)	3.62	mg/l	BH	0.01	200.7	10/03/2008 07:36:00 PM
Zinc as Zn (Total Recoverable)	3.73	mg/l	BH	0.01	200.7	10/06/2008 08:46:00 PM
Cations	33.28	meq/l	---	0.38	1030F	
Anions	36.28	meq/l	---	0.20	1030F	
Cation/Anion Balance	4.31	% [max 5%]	---	-----	AWWA/APHA	
Metals Batch#/Digestion Date	1784	-----	BH	-----	200.2	10/03/2008 01:00:00 PM

Client: TETRA TECH, INC.
Project Name: NEW WORLD SURFACE WATER
Project No.: 1157561506.209
Laboratory No.: 2008090265-32
Sample Name: RR-DC-2
Sample Date/Time: 09/24/2008 13:40:00
Collected by: R. HIBBS/ M. PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD SURFACE WATER 2008/2009						
Acidity as CaCO3	114	mg/l	ES	1	2310 B	10/08/2008 03:47:49 PM
Alkalinity Bicarbonate as HCO3	<1	mg/l	ES	1	2320B	10/07/2008 10:00:00 AM
Alkalinity Carbonate as CO3	0	mg/l	ES	0	2320B	10/07/2008 10:00:00 AM
Alkalinity Total as CaCO3	<1	mg/l	ES	1	2320B	10/07/2008 10:00:00 AM
Chloride as Cl	<1	mg/l	MRK	1	300.0	10/14/2008 06:18:00 AM
Sulfate as SO4	312	mg/l	MRK	5	300.0	10/16/2008 08:52:00 AM
Hardness as CaCO3	217	mg/l	BH	7	2340B	10/08/2008 03:17:00 PM
Electrical Conductivity	650	umhos/cm	MRK	10	2510B	10/10/2008 02:38:00 PM
pH	4.0	S.U.	CC	0.1-13.5	4500-H+-B	09/25/2008 05:59:00 PM
Total Dissolved Solids	467	mg/l	RM	20	2540C	09/30/2008 08:15:00 AM
Total Suspended Solids	15	mg/l	RM	5	2540D	09/30/2008 08:15:00 AM
Aluminum as Al (Dissolved)	13.3	mg/l	BH	0.05	200.7	10/03/2008 07:39:00 PM
Aluminum as Al (Total Recoverable)	14.1	mg/l	BH	0.05	200.7	10/06/2008 08:50:00 PM
Cadmium as Cd (Dissolved)	0.0039	mg/l	BH	0.0001	200.8	10/08/2008 04:05:00 PM
Cadmium as Cd (Total Recoverable)	0.0040	mg/l	DK	0.0001	200.8	10/17/2008 04:36:00 PM
Calcium as Ca (Dissolved)	62	mg/l	BH	1	200.7	10/08/2008 03:17:00 PM
Calcium as Ca (Total Recoverable)	62	mg/l	BH	1	200.7	10/06/2008 08:50:00 PM
Copper as Cu (Dissolved)	3.26	mg/l	BH	0.001	200.7	10/03/2008 07:39:00 PM
Copper as Cu (Total Recoverable)	3.54	mg/l	BH	0.001	200.7	10/06/2008 08:50:00 PM
Iron as Fe (Dissolved)	6.35	mg/l	BH	0.01	200.7	10/03/2008 07:39:00 PM
Iron as Fe (Total Recoverable)	10.3	mg/l	BH	0.01	200.7	10/06/2008 08:50:00 PM
Lead as Pb (Dissolved)	0.004	mg/l	BH	0.001	200.8	10/08/2008 04:05:00 PM
Lead as Pb (Total Recoverable)	0.005	mg/l	BH	0.001	200.8	10/10/2008 05:49:00 PM
Magnesium as Mg (Dissolved)	15	mg/l	BH	1	200.7	10/03/2008 07:39:00 PM
Magnesium as Mg (Total Recoverable)	16	mg/l	BH	1	200.7	10/06/2008 08:50:00 PM
Manganese as Mn (Dissolved)	2.25	mg/l	BH	0.003	200.7	10/03/2008 07:39:00 PM
Manganese as Mn (Total Recoverable)	2.12	mg/l	BH	0.005	200.7	10/06/2008 08:50:00 PM
Potassium as K (Dissolved)	2	mg/l	BH	1	200.7	10/03/2008 07:39:00 PM
Potassium as K (Total Recoverable)	2	mg/l	BH	1	200.7	10/06/2008 08:50:00 PM
Sodium as Na (Dissolved)	2	mg/l	BH	1	200.7	10/03/2008 07:39:00 PM
Sodium as Na (Total Recoverable)	2	mg/l	BH	1	200.7	10/06/2008 08:50:00 PM
Zinc as Zn (Dissolved)	0.59	mg/l	BH	0.01	200.7	10/03/2008 07:39:00 PM
Zinc as Zn (Total Recoverable)	0.56	mg/l	BH	0.01	200.7	10/06/2008 08:50:00 PM
Cations	6.75	meq/l	---	0.38	1030F	
Anions	6.49	meq/l	---	0.20	1030F	
Cation/Anion Balance	1.96	% [max 2%]	---	-----	AWWA/APHA	
Metals Batch#/Digestion Date	1784	-----	BH	-----	200.2	10/03/2008 01:00:00 PM

Client: TETRA TECH, INC.
Project Name: NEW WORLD SURFACE WATER
Project No.: 1157561506.209
Laboratory No.: 2008090265-33
Sample Name: DUPLICATE OF 2008090265-1
Sample Date/Time: 09/22/2008 11:40:00
Collected by: R. HIBBS/ M. PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD SURFACE WATER 2008/2009						
Acidity as CaCO3	50	mg/l	ES	2	2310 B	10/03/2008 05:09:42 PM
Alkalinity Bicarbonate as HCO3	<1	mg/l	ES	1	2320B	10/06/2008 04:00:00 PM
Alkalinity Carbonate as CO3	0	mg/l	ES	0	2320B	10/06/2008 04:00:00 PM
Alkalinity Total as CaCO3	<1	mg/l	ES	1	2320B	10/06/2008 04:00:00 PM
Chloride as Cl	2	mg/l	MRK	2	300.0	10/11/2008 09:06:00 PM
Sulfate as SO4	216	mg/l	MRK	10	300.0	10/11/2008 09:06:00 PM
Hardness as CaCO3	163	mg/l	BH	7	2340B	10/03/2008 04:58:00 PM
Electrical Conductivity	554	umhos/cm	MRK	10	2510B	10/10/2008 02:38:00 PM
pH	4.3	S.U.	CC	0.1-13.5	4500-H+-B	09/25/2008 05:59:00 PM
Total Dissolved Solids	327	mg/l	RM	20	2540C	09/29/2008 08:15:00 AM
Total Suspended Solids	14	mg/l	RM	13	2540D	09/29/2008 08:15:00 AM
Aluminum as Al (Dissolved)	1.62	mg/l	BH	0.05	200.7	10/03/2008 04:58:00 PM
Aluminum as Al (Total Recoverable)	2.73	mg/l	BH	0.05	200.7	10/06/2008 06:05:00 PM
Cadmium as Cd (Dissolved)	0.0004	mg/l	BH	0.0001	200.8	10/07/2008 09:12:00 PM
Cadmium as Cd (Total Recoverable)	0.0004	mg/l	BH	0.0001	200.8	10/10/2008 01:06:00 PM
Calcium as Ca (Dissolved)	47	mg/l	BH	1	200.7	10/03/2008 04:58:00 PM
Calcium as Ca (Total Recoverable)	46	mg/l	BH	1	200.7	10/06/2008 06:05:00 PM
Copper as Cu (Dissolved)	0.28	mg/l	BH	0.001	200.8	10/07/2008 09:12:00 PM
Copper as Cu (Total Recoverable)	0.35	mg/l	BH	0.001	200.8	10/10/2008 01:06:00 PM
Iron as Fe (Dissolved)	18.5	mg/l	BH	0.01	200.7	10/03/2008 04:58:00 PM
Iron as Fe (Total Recoverable)	19.3	mg/l	BH	0.01	200.7	10/06/2008 06:05:00 PM
Lead as Pb (Dissolved)	<0.001	mg/l	BH	0.001	200.8	10/07/2008 09:12:00 PM
Lead as Pb (Total Recoverable)	<0.001	mg/l	BH	0.001	200.8	10/10/2008 01:06:00 PM
Magnesium as Mg (Dissolved)	11	mg/l	BH	1	200.7	10/03/2008 04:58:00 PM
Magnesium as Mg (Total Recoverable)	11	mg/l	BH	1	200.7	10/06/2008 06:05:00 PM
Manganese as Mn (Dissolved)	1.54	mg/l	BH	0.003	200.7	10/03/2008 04:58:00 PM
Manganese as Mn (Total Recoverable)	1.54	mg/l	BH	0.005	200.7	10/06/2008 06:05:00 PM
Potassium as K (Dissolved)	4	mg/l	BH	1	200.7	10/03/2008 04:58:00 PM
Potassium as K (Total Recoverable)	4	mg/l	BH	1	200.7	10/06/2008 06:05:00 PM
Sodium as Na (Dissolved)	3	mg/l	BH	1	200.7	10/03/2008 04:58:00 PM
Sodium as Na (Total Recoverable)	3	mg/l	BH	1	200.7	10/06/2008 06:05:00 PM
Zinc as Zn (Dissolved)	0.15	mg/l	BH	0.01	200.7	10/03/2008 04:58:00 PM
Zinc as Zn (Total Recoverable)	0.15	mg/l	BH	0.01	200.7	10/06/2008 06:05:00 PM
Metals Batch#/Digestion Date	1783	-----	BH	-----	200.2	10/03/2008 10:45:00 AM

Northern Analytical Laboratories, Inc.

NOTE: The precision requirements of the quality control plan were demonstrated by this duplicate.

Client: TETRA TECH, INC.
Project Name: NEW WORLD SURFACE WATER
Project No.: 1157561506.209
Laboratory No.: 2008090265-34
Sample Name: MATRIX SPIKE OF 2008090265-6
Sample Date/Time: 09/22/2008 15:00:00
Collected by: R. HIBBS/ M. PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD SURFACE WATER 2008/2009						
Acidity as CaCO3	103	% [70-132]	ES	2	2310 B	10/03/2008 05:09:42 PM
Alkalinity Bicarbonate as HCO3	NA	-----	-----	-----	-----	-----
Alkalinity Carbonate as CO3	NA	-----	-----	-----	-----	-----
Alkalinity Total as CaCO3	103	% [77-116]	ES	1	2320B	10/06/2008 04:00:00 PM
Chloride as Cl	101	% [84-124]	MRK	1	300.0	10/12/2008 12:09:00 AM
Sulfate as SO4	98	% [84-124]	MRK	5	300.0	10/12/2008 12:09:00 AM
Hardness as CaCO3	689	-----	KAS	7	2340B	10/03/2008 05:19:00 PM
Electrical Conductivity	NA	-----	-----	-----	-----	-----
pH	NA	-----	-----	-----	-----	-----
Total Dissolved Solids	NA	-----	-----	-----	-----	-----
Total Suspended Solids	NA	-----	-----	-----	-----	-----
Aluminum as Al (Dissolved)	93	% [81-117]	BH	0.05	200.7	10/03/2008 05:16:00 PM
Aluminum as Al (Total Recoverable)	100	% [82-128]	BH	0.05	200.7	10/06/2008 06:32:00 PM
Cadmium as Cd (Dissolved)	104	% [81-116]	BH	0.0001	200.8	10/07/2008 10:02:00 PM
Cadmium as Cd (Total Recoverable)	109	% [83-116]	BH	0.0001	200.8	10/10/2008 01:43:00 PM
Calcium as Ca (Dissolved)	106	% [78-122]	BH	1	200.7	10/03/2008 05:19:00 PM
Calcium as Ca (Total Recoverable)	108	% [71-130]	BH	1	200.7	10/06/2008 06:35:00 PM
Copper as Cu (Dissolved)	88	% [70-114]	BH	0.001	200.8	10/07/2008 10:02:00 PM
Copper as Cu (Total Recoverable)	119	% [70-117]	BH	0.001	200.8	10/10/2008 01:43:00 PM
Iron as Fe (Dissolved)	101	% [87-111]	BH	0.01	200.7	10/03/2008 05:16:00 PM
Iron as Fe (Total Recoverable)	99	% [82-124]	BH	0.01	200.7	10/06/2008 06:32:00 PM
Lead as Pb (Dissolved)	104	% [82-117]	BH	0.001	200.8	10/07/2008 10:02:00 PM
Lead as Pb (Total Recoverable)	112	% [81-121]	BH	0.001	200.8	10/10/2008 01:43:00 PM
Magnesium as Mg (Dissolved)	103	% [84-118]	BH	1	200.7	10/03/2008 05:19:00 PM
Magnesium as Mg (Total Recoverable)	107	% [77-126]	BH	1	200.7	10/06/2008 06:35:00 PM
Manganese as Mn (Dissolved)	101	% [81-114]	BH	0.003	200.7	10/03/2008 05:16:00 PM
Manganese as Mn (Total Recoverable)	105	% [78-121]	BH	0.005	200.7	10/06/2008 06:32:00 PM
Potassium as K (Dissolved)	103	% [85-120]	BH	1	200.7	10/03/2008 05:19:00 PM
Potassium as K (Total Recoverable)	104	% [86-125]	BH	1	200.7	10/06/2008 06:35:00 PM
Sodium as Na (Dissolved)	96	% [73-124]	BH	1	200.7	10/03/2008 05:19:00 PM
Sodium as Na (Total Recoverable)	106	% [70-130]	BH	1	200.7	10/06/2008 06:35:00 PM
Zinc as Zn (Dissolved)	101	% [89-113]	BH	0.01	200.7	10/03/2008 05:16:00 PM
Zinc as Zn (Total Recoverable)	100	% [84-121]	BH	0.01	200.7	10/06/2008 06:32:00 PM
Metals Batch#/Digestion Date	1783	-----	BH	-----	200.2	10/03/2008 10:45:00 AM

Client: TETRA TECH, INC.
Project Name: NEW WORLD SURFACE WATER
Project No.: 1157561506.209
Laboratory No.: 2008090265-35
Sample Name: DUPLICATE OF 2008090265-11
Sample Date/Time: 09/23/2008 09:30:00
Collected by: R. HIBBS/ M. PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD SURFACE WATER 2008/2009						
Acidity as CaCO3	<2	mg/l	ES	2	2310 B	10/03/2008 05:09:42 PM
Alkalinity Bicarbonate as HCO3	88	mg/l	ES	1	2320B	10/07/2008 10:00:00 AM
Alkalinity Carbonate as CO3	0	mg/l	ES	0	2320B	10/07/2008 10:00:00 AM
Alkalinity Total as CaCO3	72	mg/l	ES	1	2320B	10/07/2008 10:00:00 AM
Chloride as Cl	<1	mg/l	MRK	1	300.0	10/12/2008 04:13:00 AM
Sulfate as SO4	9	mg/l	MRK	5	300.0	10/12/2008 04:13:00 AM
Hardness as CaCO3	75	mg/l	BH	7	2340B	10/06/2008 07:03:00 PM
Electrical Conductivity	159	umhos/cm	MRK	10	2510B	10/10/2008 02:38:00 PM
pH	8.2	S.U.	CC	0.1-13.5	4500-H+-B	09/25/2008 05:59:00 PM
Total Dissolved Solids	115	mg/l	RM	20	2540C	09/30/2008 08:30:00 AM
Total Suspended Solids	4	mg/l	RM	2	2540D	09/29/2008 08:15:00 AM
Aluminum as Al (Total Recoverable)	0.13	mg/l	BH	0.05	200.7	10/06/2008 07:03:00 PM
Cadmium as Cd (Total Recoverable)	<0.0001	mg/l	DK	0.0001	200.8	10/14/2008 10:42:00 AM
Calcium as Ca (Total Recoverable)	22	mg/l	BH	1	200.7	10/06/2008 07:03:00 PM
Copper as Cu (Total Recoverable)	<0.001	mg/l	DK	0.001	200.8	10/14/2008 10:42:00 AM
Iron as Fe (Total Recoverable)	0.38	mg/l	BH	0.01	200.7	10/06/2008 07:03:00 PM
Lead as Pb (Total Recoverable)	<0.001	mg/l	BH	0.001	200.8	10/10/2008 02:32:00 PM
Magnesium as Mg (Total Recoverable)	5	mg/l	BH	1	200.7	10/06/2008 07:03:00 PM
Manganese as Mn (Total Recoverable)	0.008	mg/l	BH	0.003	200.7	10/13/2008 11:16:00 AM
Potassium as K (Total Recoverable)	<1	mg/l	BH	1	200.7	10/06/2008 07:03:00 PM
Sodium as Na (Total Recoverable)	5	mg/l	BH	1	200.7	10/06/2008 07:03:00 PM
Zinc as Zn (Total Recoverable)	<0.01	mg/l	BH	0.01	200.7	10/06/2008 07:03:00 PM
Metals Batch#/Digestion Date	1783	-----	BH	-----	200.2	10/03/2008 10:45:00 AM

Northern Analytical Laboratories, Inc.

NOTE: The precision requirements of the quality control plan were demonstrated by this duplicate.

Client: TETRA TECH, INC.
Project Name: NEW WORLD SURFACE WATER
Project No.: 1157561506.209
Laboratory No.: 2008090265-36
Sample Name: MATRIX SPIKE OF 2008090265-16
Sample Date/Time: 09/23/2008 13:00:00
Collected by: R. HIBBS/ M. PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD SURFACE WATER 2008/2009						
Acidity as CaCO3	94	% [70-132]	ES	2	2310 B	10/03/2008 05:09:42 PM
Alkalinity Bicarbonate as HCO3	NA	-----	-----	-----	-----	-----
Alkalinity Carbonate as CO3	NA	-----	-----	-----	-----	-----
Alkalinity Total as CaCO3	97	% [77-116]	ES	1	2320B	10/07/2008 10:00:00 AM
Chloride as Cl	100	% [84-124]	MRK	1	300.0	10/12/2008 07:16:00 AM
Sulfate as SO4	98	% [84-124]	MRK	5	300.0	10/12/2008 07:16:00 AM
Hardness as CaCO3	678	-----	KAS	7	2340B	10/03/2008 05:53:00 PM
Electrical Conductivity	NA	-----	-----	-----	-----	-----
pH	NA	-----	-----	-----	-----	-----
Total Dissolved Solids	NA	-----	-----	-----	-----	-----
Total Suspended Solids	NA	-----	-----	-----	-----	-----
Aluminum as Al (Dissolved)	86	% [81-117]	BH	0.05	200.7	10/03/2008 05:50:00 PM
Aluminum as Al (Total Recoverable)	102	% [82-128]	BH	0.05	200.7	10/06/2008 07:21:00 PM
Cadmium as Cd (Dissolved)	101	% [81-116]	DK	0.0001	200.8	10/15/2008 12:34:00 PM
Cadmium as Cd (Total Recoverable)	98	% [83-116]	DK	0.0001	200.8	10/14/2008 11:10:00 AM
Calcium as Ca (Dissolved)	105	% [78-122]	BH	1	200.7	10/03/2008 05:53:00 PM
Calcium as Ca (Total Recoverable)	113	% [71-130]	BH	1	200.7	10/06/2008 07:24:00 PM
Copper as Cu (Dissolved)	97	% [70-114]	DK	0.001	200.8	10/15/2008 12:34:00 PM
Copper as Cu (Total Recoverable)	95	% [70-117]	DK	0.001	200.8	10/14/2008 11:10:00 AM
Iron as Fe (Dissolved)	99	% [87-111]	BH	0.01	200.7	10/03/2008 05:50:00 PM
Iron as Fe (Total Recoverable)	102	% [82-124]	BH	0.01	200.7	10/06/2008 07:21:00 PM
Lead as Pb (Dissolved)	105	% [82-117]	BH	0.001	200.8	10/08/2008 12:52:00 PM
Lead as Pb (Total Recoverable)	112	% [81-121]	BH	0.001	200.8	10/10/2008 03:21:00 PM
Magnesium as Mg (Dissolved)	101	% [84-118]	BH	1	200.7	10/03/2008 05:53:00 PM
Magnesium as Mg (Total Recoverable)	110	% [77-126]	BH	1	200.7	10/06/2008 07:24:00 PM
Manganese as Mn (Dissolved)	100	% [81-114]	BH	0.003	200.7	10/03/2008 05:50:00 PM
Manganese as Mn (Total Recoverable)	95	% [78-121]	BH	0.003	200.7	10/13/2008 11:41:00 AM
Potassium as K (Dissolved)	101	% [85-120]	BH	1	200.7	10/03/2008 05:53:00 PM
Potassium as K (Total Recoverable)	105	% [86-125]	BH	1	200.7	10/06/2008 07:24:00 PM
Sodium as Na (Dissolved)	98	% [73-124]	BH	1	200.7	10/03/2008 05:53:00 PM
Sodium as Na (Total Recoverable)	107	% [70-130]	BH	1	200.7	10/06/2008 07:24:00 PM
Zinc as Zn (Dissolved)	97	% [89-113]	BH	0.01	200.7	10/03/2008 05:50:00 PM
Zinc as Zn (Total Recoverable)	103	% [84-121]	BH	0.01	200.7	10/06/2008 07:21:00 PM
Metals Batch#/Digestion Date	1783	-----	BH	-----	200.2	10/03/2008 10:45:00 AM

Client: TETRA TECH, INC.
Project Name: NEW WORLD SURFACE WATER
Project No.: 1157561506.209
Laboratory No.: 2008090265-37
Sample Name: DUPLICATE OF 2008090265-21
Sample Date/Time: 09/24/2008 09:30:00
Collected by: R. HIBBS/ M. PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD SURFACE WATER 2008/2009						
Acidity as CaCO3	<2	mg/l	ES	1	2310 B	10/08/2008 03:47:49 PM
Alkalinity Bicarbonate as HCO3	106	mg/l	ES	1	2320B	10/07/2008 10:00:00 AM
Alkalinity Carbonate as CO3	0	mg/l	ES	0	2320B	10/07/2008 10:00:00 AM
Alkalinity Total as CaCO3	87	mg/l	ES	1	2320B	10/07/2008 10:00:00 AM
Chloride as Cl	<1	mg/l	MRK	1	300.0	10/12/2008 12:52:00 PM
Sulfate as SO4	20	mg/l	MRK	5	300.0	10/12/2008 12:52:00 PM
Hardness as CaCO3	27	mg/l	BH	7	2340B	10/16/2008 04:35:00 PM
Electrical Conductivity	215	umhos/cm	MRK	10	2510B	10/10/2008 02:38:00 PM
pH	7.9	S.U.	CC	0.1-13.5	4500-H+-B	09/25/2008 05:59:00 PM
Total Dissolved Solids	133	mg/l	RM	20	2540C	09/30/2008 08:15:00 AM
Total Suspended Solids	3	mg/l	RM	2	2540D	09/30/2008 08:15:00 AM
Aluminum as Al (Dissolved)	<0.05	mg/l	BH	0.05	200.7	10/03/2008 06:32:00 PM
Aluminum as Al (Total Recoverable)	0.10	mg/l	BH	0.05	200.7	10/13/2008 12:11:00 PM
Cadmium as Cd (Dissolved)	<0.0001	mg/l	DK	0.0001	200.8	10/15/2008 12:51:00 PM
Cadmium as Cd (Total Recoverable)	<0.0001	mg/l	DK	0.0001	200.8	10/17/2008 03:57:00 PM
Calcium as Ca (Dissolved)	1*	RPD [0-20]	BH	1	200.7	10/16/2008 04:35:00 PM
Calcium as Ca (Total Recoverable)	36	mg/l	BH	1	200.7	10/06/2008 08:00:00 PM
Copper as Cu (Dissolved)	0.001	mg/l	DK	0.001	200.8	10/15/2008 12:51:00 PM
Copper as Cu (Total Recoverable)	0.009	mg/l	BH	0.001	200.8	10/10/2008 04:10:00 PM
Iron as Fe (Dissolved)	0.01	mg/l	BH	0.01	200.7	10/03/2008 06:32:00 PM
Iron as Fe (Total Recoverable)	0.22	mg/l	BH	0.01	200.7	10/06/2008 08:00:00 PM
Lead as Pb (Dissolved)	<0.001	mg/l	BH	0.001	200.8	10/08/2008 02:38:00 PM
Lead as Pb (Total Recoverable)	<0.001	mg/l	BH	0.001	200.8	10/10/2008 04:10:00 PM
Magnesium as Mg (Dissolved)	6	mg/l	BH	1	200.7	10/03/2008 06:32:00 PM
Magnesium as Mg (Total Recoverable)	7	mg/l	BH	1	200.7	10/06/2008 08:00:00 PM
Manganese as Mn (Dissolved)	0.016	mg/l	BH	0.003	200.7	10/03/2008 06:32:00 PM
Manganese as Mn (Total Recoverable)	0.018	mg/l	BH	0.005	200.7	10/06/2008 08:00:00 PM
Potassium as K (Dissolved)	<1	mg/l	BH	1	200.7	10/03/2008 06:32:00 PM
Potassium as K (Total Recoverable)	<1	mg/l	BH	1	200.7	10/06/2008 08:00:00 PM
Sodium as Na (Dissolved)	2	mg/l	BH	1	200.7	10/03/2008 06:32:00 PM
Sodium as Na (Total Recoverable)	2	mg/l	BH	1	200.7	10/06/2008 08:00:00 PM
Zinc as Zn (Dissolved)	<0.01	mg/l	BH	0.01	200.7	10/03/2008 06:32:00 PM
Zinc as Zn (Total Recoverable)	<0.01	mg/l	BH	0.01	200.7	10/06/2008 08:00:00 PM
Metals Batch#/Digestion Date	1784	-----	BH	-----	200.2	10/03/2008 01:00:00 PM

Northern Analytical Laboratories, Inc.

***Batch Duplicate**
NOTE: The precision requirements of the quality control plan were demonstrated by this duplicate.

Client: TETRA TECH, INC.
Project Name: NEW WORLD SURFACE WATER
Project No.: 1157561506.209
Laboratory No.: 2008090265-38
Sample Name: MATRIX SPIKE OF 2008090265-26
Sample Date/Time: 09/24/2008 15:30:00
Collected by: R. HIBBS/ M. PEARSON
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD SURFACE WATER 2008/2009						
Acidity as CaCO3	102	% [70-132]	ES	1	2310 B	10/08/2008 03:47:49 PM
Alkalinity Bicarbonate as HCO3	NA	-----	-----	-----	-----	-----
Alkalinity Carbonate as CO3	NA	-----	-----	-----	-----	-----
Alkalinity Total as CaCO3	108	% [77-116]	ES	1	2320B	10/07/2008 10:00:00 AM
Chloride as Cl	100	% [84-124]	MRK	1	300.0	10/14/2008 03:15:00 AM
Sulfate as SO4	108	% [84-124]	MRK	25	300.0	10/12/2008 04:56:00 PM
Hardness as CaCO3	656	-----	KAS	7	2340B	10/03/2008 07:03:00 PM
Electrical Conductivity	NA	-----	-----	-----	-----	-----
pH	NA	-----	-----	-----	-----	-----
Total Dissolved Solids	NA	-----	-----	-----	-----	-----
Total Suspended Solids	NA	-----	-----	-----	-----	-----
Aluminum as Al (Dissolved)	93	% [81-117]	KC	0.05	200.7	10/10/2008 03:09:00 PM
Aluminum as Al (Total Recoverable)	108	% [82-128]	BH	0.05	200.7	10/13/2008 12:17:00 PM
Cadmium as Cd (Dissolved)	107	% [81-116]	BH	0.0001	200.8	10/08/2008 03:29:00 PM
Cadmium as Cd (Total Recoverable)	99	% [83-116]	DK	0.0001	200.8	10/17/2008 04:24:00 PM
Calcium as Ca (Dissolved)	101	% [78-122]	BH	1	200.7	10/03/2008 07:03:00 PM
Calcium as Ca (Total Recoverable)	97	% [71-130]	BH	1	200.7	10/06/2008 08:31:00 PM
Copper as Cu (Dissolved)	91	% [70-130]	BH	0.001	200.7	10/03/2008 07:00:00 PM
Copper as Cu (Total Recoverable)	117	% [70-130]	BH	0.001	200.7	10/06/2008 08:28:00 PM
Iron as Fe (Dissolved)	(2)	% [87-111]	BH	0.01	200.7	10/03/2008 07:00:00 PM
Iron as Fe (Total Recoverable)	(2)	% [82-124]	BH	0.01	200.7	10/06/2008 08:28:00 PM
Lead as Pb (Dissolved)	108	% [82-117]	BH	0.001	200.8	10/08/2008 03:29:00 PM
Lead as Pb (Total Recoverable)	110	% [81-121]	BH	0.001	200.8	10/10/2008 04:59:00 PM
Magnesium as Mg (Dissolved)	98	% [84-118]	BH	1	200.7	10/03/2008 07:03:00 PM
Magnesium as Mg (Total Recoverable)	104	% [77-126]	BH	1	200.7	10/06/2008 08:31:00 PM
Manganese as Mn (Dissolved)	101	% [81-114]	BH	0.003	200.7	10/03/2008 07:00:00 PM
Manganese as Mn (Total Recoverable)	103	% [78-121]	BH	0.005	200.7	10/06/2008 08:28:00 PM
Potassium as K (Dissolved)	99	% [85-120]	BH	1	200.7	10/03/2008 07:03:00 PM
Potassium as K (Total Recoverable)	101	% [86-125]	BH	1	200.7	10/06/2008 08:31:00 PM
Sodium as Na (Dissolved)	98	% [73-124]	BH	1	200.7	10/03/2008 07:03:00 PM
Sodium as Na (Total Recoverable)	105	% [70-130]	BH	1	200.7	10/06/2008 08:31:00 PM
Zinc as Zn (Dissolved)	101	% [89-113]	BH	0.01	200.7	10/03/2008 07:00:00 PM
Zinc as Zn (Total Recoverable)	107	% [84-121]	BH	0.01	200.7	10/06/2008 08:28:00 PM
Metals Batch#/Digestion Date	1784	-----	BH	-----	200.2	10/03/2008 01:00:00 PM

Client: TETRA TECH, INC.
Project Name: NEW WORLD SURFACE WATER
Project No.: 1157561506.209
Laboratory No.: 2008090265-39
Sample Name: METHOD BLANK
Sample Date/Time: ----- -----
Collected by: PREPARED BY LAB
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
METALS						
Arsenic as As (Total Recoverable)	<0.003	mg/l	BH	0.003	200.8	10/10/2008 12:48:00 PM
Barium as Ba (Total Recoverable)	<0.005	mg/l	BH	0.005	200.8	10/10/2008 12:48:00 PM
Chromium as Cr (Total Recoverable)	<0.001	mg/l	BH	0.001	200.8	10/10/2008 12:48:00 PM
Mercury as Hg (Total Recoverable)	<0.00001	mg/l	DK	0.00001	200.8	10/02/2008 11:27:00 AM
Selenium as Se (Total Recoverable)	<0.001	mg/l	DK	0.001	200.8	10/14/2008 10:15:00 AM
Silver as Ag (Total Recoverable)	<0.0005	mg/l	DK	0.0005	200.8	10/14/2008 10:15:00 AM
Mercury Batch #/Digest Date	1781	-----	DK		200.2	10/01/2008 04:00:00 PM
NEW WORLD SURFACE WATER 2008/2009						
Acidity as CaCO3	<2	mg/l	ES	2	2310 B	10/03/2008 05:09:42 PM
Alkalinity Bicarbonate as HCO3	<1	mg/l	ES	1	2320B	10/06/2008 04:00:00 PM
Alkalinity Carbonate as CO3	0	mg/l	ES	0	2320B	10/06/2008 04:00:00 PM
Alkalinity Total as CaCO3	<1	mg/l	ES	1	2320B	10/06/2008 04:00:00 PM
Chloride as Cl	<1	mg/l	MRK	1	300.0	10/11/2008 04:18:00 PM
Sulfate as SO4	<5	mg/l	MRK	5	300.0	10/11/2008 04:18:00 PM
Hardness as CaCO3	<7	mg/l	BH	7	2340B	10/03/2008 04:36:00 PM
Electrical Conductivity	<10	umhos/cm	MRK	10	2510B	10/10/2008 02:38:00 PM
pH	NA	-----	-----	-----	-----	-----
Total Dissolved Solids	<20	mg/l	RM	20	2540C	09/29/2008 08:15:00 AM
Total Suspended Solids	<1	mg/l	RM	1	2540D	09/29/2008 08:15:00 AM
Aluminum as Al (Dissolved)	<0.05	mg/l	BH	0.05	200.7	10/03/2008 04:36:00 PM
Aluminum as Al (Total Recoverable)	<0.05	mg/l	BH	0.05	200.7	10/06/2008 05:53:00 PM
Cadmium as Cd (Dissolved)	<0.0001	mg/l	BH	0.0001	200.8	10/07/2008 08:54:00 PM
Cadmium as Cd (Total Recoverable)	<0.0001	mg/l	DK	0.0001	200.8	10/14/2008 10:15:00 AM
Calcium as Ca (Dissolved)	<1	mg/l	BH	1	200.7	10/03/2008 04:36:00 PM
Calcium as Ca (Total Recoverable)	<1	mg/l	BH	1	200.7	10/06/2008 05:53:00 PM
Copper as Cu (Dissolved)	<0.001	mg/l	BH	0.001	200.8	10/07/2008 08:54:00 PM
Copper as Cu (Total Recoverable)	<0.001	mg/l	DK	0.001	200.8	10/14/2008 10:15:00 AM
Iron as Fe (Dissolved)	<0.01	mg/l	BH	0.01	200.7	10/03/2008 04:36:00 PM
Iron as Fe (Total Recoverable)	<0.01	mg/l	BH	0.01	200.7	10/06/2008 05:53:00 PM
Lead as Pb (Dissolved)	<0.001	mg/l	BH	0.001	200.8	10/07/2008 08:54:00 PM
Lead as Pb (Total Recoverable)	<0.001	mg/l	BH	0.001	200.8	10/10/2008 12:48:00 PM
Magnesium as Mg (Dissolved)	<1	mg/l	BH	1	200.7	10/03/2008 04:36:00 PM
Magnesium as Mg (Total Recoverable)	<1	mg/l	BH	1	200.7	10/06/2008 05:53:00 PM
Manganese as Mn (Dissolved)	<0.003	mg/l	BH	0.003	200.7	10/03/2008 04:36:00 PM
Manganese as Mn (Total Recoverable)	<0.003	mg/l	BH	0.005	200.7	10/06/2008 05:53:00 PM
Potassium as K (Dissolved)	<1	mg/l	BH	1	200.7	10/03/2008 04:36:00 PM

Client: TETRA TECH, INC.
Project Name: NEW WORLD SURFACE WATER
Project No.: 1157561506.209
Laboratory No.: 2008090265-39
Sample Name: METHOD BLANK
Sample Date/Time: ----- -----
Collected by: PREPARED BY LAB
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD SURFACE WATER 2008/2009						
Potassium as K (Total Recoverable)	<1	mg/l	BH	1	200.7	10/06/2008 05:53:00 PM
Sodium as Na (Dissolved)	<1	mg/l	BH	1	200.7	10/03/2008 04:36:00 PM
Sodium as Na (Total Recoverable)	<1	mg/l	BH	1	200.7	10/06/2008 05:53:00 PM
Zinc as Zn (Dissolved)	<0.01	mg/l	BH	0.01	200.7	10/03/2008 04:36:00 PM
Zinc as Zn (Total Recoverable)	<0.01	mg/l	BH	0.01	200.7	10/06/2008 05:53:00 PM
Metals Batch#/Digestion Date	1783	-----	BH	-----	200.2	10/03/2008 10:45:00 AM

Client: TETRA TECH, INC.
Project Name: NEW WORLD SURFACE WATER
Project No.: 1157561506.209
Laboratory No.: 2008090265-40
Sample Name: LABORATORY CONTROL SAMPLE
Sample Date/Time: ----- -----
Collected by: PREPARED BY LAB
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
METALS						
Arsenic as As (Total Recoverable)	100	% [85-115]	BH	0.003	200.8	10/10/2008 12:54:00 PM
Barium as Ba (Total Recoverable)	104	% [85-115]	BH	0.005	200.8	10/10/2008 12:54:00 PM
Chromium as Cr (Total Recoverable)	104	% [87-114]	BH	0.001	200.8	10/10/2008 12:54:00 PM
Mercury as Hg (Total Recoverable)	102	% [85-115]	DK	0.00001	200.8	10/02/2008 11:56:00 AM
Selenium as Se (Total Recoverable)	100	% [85-115]	DK	0.001	200.8	10/14/2008 10:17:00 AM
Silver as Ag (Total Recoverable)	100	% [85-115]	DK	0.0005	200.8	10/14/2008 10:17:00 AM
Mercury Batch #/Digest Date	1781	-----	DK		200.2	10/01/2008 04:00:00 PM
NEW WORLD SURFACE WATER 2008/2009						
Acidity as CaCO3	100	% [91-116]	ES	2	2310 B	10/03/2008 05:09:42 PM
Alkalinity Bicarbonate as HCO3	NA	-----	-----	-----	-----	-----
Alkalinity Carbonate as CO3	NA	-----	-----	-----	-----	-----
Alkalinity Total as CaCO3	102	% [89-110]	ES	1	2320B	10/06/2008 04:00:00 PM
Chloride as Cl	99	% [90-110]	MRK	1	300.0	10/11/2008 04:48:00 PM
Sulfate as SO4	100	% [90-110]	MRK	5	300.0	10/11/2008 04:48:00 PM
Hardness as CaCO3	685	-----	KAS	7	2340B	10/03/2008 04:43:00 PM
Electrical Conductivity	97	% [92-120]	MRK	10	2510B	10/10/2008 02:38:00 PM
pH	99	% [99-101]	CC	0.1-13.5	4500-H+-B	09/25/2008 05:59:00 PM
Total Dissolved Solids	100	% [90-106]	RM	20	2540C	09/29/2008 08:15:00 AM
Total Suspended Solids	105	% [71-129]	RM	10	2540D	09/29/2008 08:15:00 AM
Aluminum as Al (Dissolved)	94	% [86-112]	BH	0.05	200.7	10/03/2008 04:40:00 PM
Aluminum as Al (Total Recoverable)	104	% [88-115]	BH	0.05	200.7	10/06/2008 05:56:00 PM
Cadmium as Cd (Dissolved)	104	% [86-113]	BH	0.0001	200.8	10/07/2008 08:59:00 PM
Cadmium as Cd (Total Recoverable)	104	% [85-115]	DK	0.0001	200.8	10/14/2008 10:17:00 AM
Calcium as Ca (Dissolved)	106	% [91-114]	BH	1	200.7	10/03/2008 04:43:00 PM
Calcium as Ca (Total Recoverable)	106	% [91-115]	BH	1	200.7	10/06/2008 05:59:00 PM
Copper as Cu (Dissolved)	101	% [85-114]	BH	0.001	200.8	10/07/2008 08:59:00 PM
Copper as Cu (Total Recoverable)	104	% [85-115]	DK	0.001	200.8	10/14/2008 10:17:00 AM
Iron as Fe (Dissolved)	106	% [90-112]	BH	0.01	200.7	10/03/2008 04:40:00 PM
Iron as Fe (Total Recoverable)	103	% [91-115]	BH	0.01	200.7	10/06/2008 05:56:00 PM
Lead as Pb (Dissolved)	104	% [87-114]	BH	0.001	200.8	10/07/2008 08:59:00 PM
Lead as Pb (Total Recoverable)	106	% [85-115]	BH	0.001	200.8	10/10/2008 12:54:00 PM
Magnesium as Mg (Dissolved)	102	% [89-112]	BH	1	200.7	10/03/2008 04:43:00 PM
Magnesium as Mg (Total Recoverable)	104	% [90-115]	BH	1	200.7	10/06/2008 05:59:00 PM
Manganese as Mn (Dissolved)	104	% [92-114]	BH	0.003	200.7	10/03/2008 04:40:00 PM
Manganese as Mn (Total Recoverable)	107	% [94-115]	BH	0.005	200.7	10/06/2008 05:56:00 PM
Potassium as K (Dissolved)	99	% [86-114]	BH	1	200.7	10/03/2008 04:43:00 PM

Client: TETRA TECH, INC.
Project Name: NEW WORLD SURFACE WATER
Project No.: 1157561506.209
Laboratory No.: 2008090265-40
Sample Name: LABORATORY CONTROL SAMPLE
Sample Date/Time: ----- -----
Collected by: PREPARED BY LAB
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD SURFACE WATER 2008/2009						
Potassium as K (Total Recoverable)	105	% [87-115]	BH	1	200.7	10/06/2008 05:59:00 PM
Sodium as Na (Dissolved)	97	% [87-112]	BH	1	200.7	10/03/2008 04:43:00 PM
Sodium as Na (Total Recoverable)	107	% [87-115]	BH	1	200.7	10/06/2008 05:59:00 PM
Zinc as Zn (Dissolved)	102	% [89-113]	BH	0.01	200.7	10/03/2008 04:40:00 PM
Zinc as Zn (Total Recoverable)	104	% [89-115]	BH	0.01	200.7	10/06/2008 05:56:00 PM
Metals Batch#/Digestion Date	1783	-----	BH	-----	200.2	10/03/2008 10:45:00 AM

Client: TETRA TECH, INC.
Project Name: NEW WORLD SURFACE WATER
Project No.: 1157561506.209
Laboratory No.: 2008090265-41
Sample Name: METHOD BLANK
Sample Date/Time: ----- -----
Collected by: PREPARED BY LAB
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
METALS						
Arsenic as As (Total Recoverable)	NA	-----	-----	-----	-----	
Barium as Ba (Total Recoverable)	NA	-----	-----	-----	-----	
Chromium as Cr (Total Recoverable)	NA	-----	-----	-----	-----	
Mercury as Hg (Total Recoverable)	NA	-----	-----	-----	-----	
Selenium as Se (Total Recoverable)	NA	-----	-----	-----	-----	
Silver as Ag (Total Recoverable)	NA	-----	-----	-----	-----	
Mercury Batch #/Digest Date	1781	-----	DK		200.2	10/01/2008 04:00:00 PM
NEW WORLD SURFACE WATER 2008/2009						
Acidity as CaCO3	<2	mg/l	ES	1	2310 B	10/08/2008 03:47:49 PM
Alkalinity Bicarbonate as HCO3	<1	mg/l	ES	1	2320B	10/07/2008 10:00:00 AM
Alkalinity Carbonate as CO3	0	mg/l	ES	0	2320B	10/07/2008 10:00:00 AM
Alkalinity Total as CaCO3	<1	mg/l	ES	1	2320B	10/07/2008 10:00:00 AM
Chloride as Cl	<1	mg/l	MRK	1	300.0	10/12/2008 09:49:00 AM
Sulfate as SO4	<5	mg/l	MRK	5	300.0	10/12/2008 09:49:00 AM
Hardness as CaCO3	<7	mg/l	BH	7	2340B	10/03/2008 06:20:00 PM
Electrical Conductivity	<10	umhos/cm	MRK	10	2510B	10/10/2008 02:38:00 PM
pH	NA	-----	-----	-----	-----	-----
Total Dissolved Solids	<20	mg/l	RM	20	2540C	09/29/2008 08:15:00 AM
Total Suspended Solids	<1	mg/l	RM	1	2540D	09/29/2008 08:15:00 AM
Aluminum as Al (Dissolved)	<0.05	mg/l	BH	0.05	200.7	10/03/2008 06:20:00 PM
Aluminum as Al (Total Recoverable)	<0.05	mg/l	BH	0.05	200.7	10/06/2008 07:48:00 PM
Cadmium as Cd (Dissolved)	<0.0001	mg/l	BH	0.0001	200.8	10/08/2008 02:20:00 PM
Cadmium as Cd (Total Recoverable)	<0.0001	mg/l	DK	0.0001	200.8	10/17/2008 03:48:00 PM
Calcium as Ca (Dissolved)	<1	mg/l	BH	1	200.7	10/03/2008 06:20:00 PM
Calcium as Ca (Total Recoverable)	<1	mg/l	BH	1	200.7	10/06/2008 07:48:00 PM
Copper as Cu (Dissolved)	<0.001	mg/l	BH	0.001	200.8	10/08/2008 02:20:00 PM
Copper as Cu (Total Recoverable)	<0.001	mg/l	BH	0.001	200.8	10/10/2008 03:52:00 PM
Iron as Fe (Dissolved)	<0.01	mg/l	BH	0.01	200.7	10/03/2008 06:20:00 PM
Iron as Fe (Total Recoverable)	<0.01	mg/l	BH	0.01	200.7	10/06/2008 07:48:00 PM
Lead as Pb (Dissolved)	<0.0005	mg/l	BH	0.001	200.8	10/08/2008 02:20:00 PM
Lead as Pb (Total Recoverable)	<0.001	mg/l	BH	0.001	200.8	10/10/2008 03:52:00 PM
Magnesium as Mg (Dissolved)	<1	mg/l	BH	1	200.7	10/03/2008 06:20:00 PM
Magnesium as Mg (Total Recoverable)	<1	mg/l	BH	1	200.7	10/06/2008 07:48:00 PM
Manganese as Mn (Dissolved)	<0.003	mg/l	BH	0.003	200.7	10/03/2008 06:20:00 PM
Manganese as Mn (Total Recoverable)	<0.003	mg/l	BH	0.005	200.7	10/06/2008 07:48:00 PM
Potassium as K (Dissolved)	<1	mg/l	BH	1	200.7	10/03/2008 06:20:00 PM

Client: TETRA TECH, INC.
Project Name: NEW WORLD SURFACE WATER
Project No.: 1157561506.209
Laboratory No.: 2008090265-41
Sample Name: METHOD BLANK
Sample Date/Time: ----- -----
Collected by: PREPARED BY LAB
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD SURFACE WATER 2008/2009						
Potassium as K (Total Recoverable)	<1	mg/l	BH	1	200.7	10/06/2008 07:48:00 PM
Sodium as Na (Dissolved)	<1	mg/l	BH	1	200.7	10/03/2008 06:20:00 PM
Sodium as Na (Total Recoverable)	<1	mg/l	BH	1	200.7	10/06/2008 07:48:00 PM
Zinc as Zn (Dissolved)	<0.01	mg/l	BH	0.01	200.7	10/03/2008 06:20:00 PM
Zinc as Zn (Total Recoverable)	<0.01	mg/l	BH	0.01	200.7	10/06/2008 07:48:00 PM
Metals Batch#/Digestion Date	1784	-----	BH	-----	200.2	10/03/2008 01:00:00 PM

Client: TETRA TECH, INC.
Project Name: NEW WORLD SURFACE WATER
Project No.: 1157561506.209
Laboratory No.: 2008090265-42
Sample Name: LABORATORY CONTROL SAMPLE
Sample Date/Time: ----- -----
Collected by: PREPARED BY LAB
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
METALS						
Arsenic as As (Total Recoverable)	NA	-----	-----	-----	-----	
Barium as Ba (Total Recoverable)	NA	-----	-----	-----	-----	
Chromium as Cr (Total Recoverable)	NA	-----	-----	-----	-----	
Mercury as Hg (Total Recoverable)	NA	-----	-----	-----	-----	
Selenium as Se (Total Recoverable)	NA	-----	-----	-----	-----	
Silver as Ag (Total Recoverable)	NA	-----	-----	-----	-----	
Mercury Batch #/Digest Date	1781	-----	DK		200.2	10/01/2008 04:00:00 PM
NEW WORLD SURFACE WATER 2008/2009						
Acidity as CaCO3	104	% [91-116]	ES	1	2310 B	10/08/2008 03:47:49 PM
Alkalinity Bicarbonate as HCO3	NA	-----	-----	-----	-----	-----
Alkalinity Carbonate as CO3	NA	-----	-----	-----	-----	-----
Alkalinity Total as CaCO3	102	% [89-110]	ES	1	2320B	10/07/2008 10:00:00 AM
Chloride as Cl	99	% [90-110]	MRK	1	300.0	10/12/2008 10:19:00 AM
Sulfate as SO4	99	% [90-110]	MRK	5	300.0	10/12/2008 10:19:00 AM
Hardness as CaCO3	650	-----	KAS	7	2340B	10/03/2008 06:26:00 PM
Electrical Conductivity	100	% [92-120]	MRK	10	2510B	10/10/2008 02:38:00 PM
pH	99	% [99-101]	CC	0.1-13.5	4500-H+-B	09/25/2008 05:59:00 PM
Total Dissolved Solids	98	% [90-106]	RM	20	2540C	09/29/2008 08:15:00 AM
Total Suspended Solids	95	% [71-129]	RM	10	2540D	09/29/2008 08:15:00 AM
Aluminum as Al (Dissolved)	90	% [86-112]	BH	0.05	200.7	10/03/2008 06:23:00 PM
Aluminum as Al (Total Recoverable)	105	% [88-115]	BH	0.05	200.7	10/06/2008 07:51:00 PM
Cadmium as Cd (Dissolved)	103	% [86-113]	BH	0.0001	200.8	10/08/2008 02:25:00 PM
Cadmium as Cd (Total Recoverable)	102	% [85-115]	DK	0.0001	200.8	10/17/2008 03:50:00 PM
Calcium as Ca (Dissolved)	102	% [91-114]	BH	1	200.7	10/03/2008 06:26:00 PM
Calcium as Ca (Total Recoverable)	110	% [91-115]	BH	1	200.7	10/06/2008 07:54:00 PM
Copper as Cu (Dissolved)	102	% [85-114]	BH	0.001	200.8	10/08/2008 02:25:00 PM
Copper as Cu (Total Recoverable)	99	% [85-115]	BH	0.001	200.8	10/10/2008 03:57:00 PM
Iron as Fe (Dissolved)	101	% [90-112]	BH	0.01	200.7	10/03/2008 06:23:00 PM
Iron as Fe (Total Recoverable)	105	% [91-115]	BH	0.01	200.7	10/06/2008 07:51:00 PM
Lead as Pb (Dissolved)	106	% [87-114]	BH	0.001	200.8	10/08/2008 02:25:00 PM
Lead as Pb (Total Recoverable)	106	% [85-115]	BH	0.001	200.8	10/10/2008 03:57:00 PM
Magnesium as Mg (Dissolved)	96	% [89-112]	BH	1	200.7	10/03/2008 06:26:00 PM
Magnesium as Mg (Total Recoverable)	106	% [90-115]	BH	1	200.7	10/06/2008 07:54:00 PM
Manganese as Mn (Dissolved)	105	% [92-114]	BH	0.003	200.7	10/03/2008 06:23:00 PM
Manganese as Mn (Total Recoverable)	111	% [94-115]	BH	0.005	200.7	10/06/2008 07:51:00 PM
Potassium as K (Dissolved)	99	% [86-114]	BH	1	200.7	10/03/2008 06:26:00 PM

Client: TETRA TECH, INC.
Project Name: NEW WORLD SURFACE WATER
Project No.: 1157561506.209
Laboratory No.: 2008090265-42
Sample Name: LABORATORY CONTROL SAMPLE
Sample Date/Time: ----- -----
Collected by: PREPARED BY LAB
Sample Type: WATER

PARAMETER	MEASURED VALUE	UNITS	ANALYST	REPORTING LIMIT	METHOD NUMBER	DATE/TIME ANALYZED
NEW WORLD SURFACE WATER 2008/2009						
Potassium as K (Total Recoverable)	105	% [87-115]	BH	1	200.7	10/06/2008 07:54:00 PM
Sodium as Na (Dissolved)	96	% [87-112]	BH	1	200.7	10/03/2008 06:26:00 PM
Sodium as Na (Total Recoverable)	107	% [87-115]	BH	1	200.7	10/06/2008 07:54:00 PM
Zinc as Zn (Dissolved)	97	% [89-113]	BH	0.01	200.7	10/03/2008 06:23:00 PM
Zinc as Zn (Total Recoverable)	108	% [89-115]	BH	0.01	200.7	10/06/2008 07:51:00 PM
Metals Batch#/Digestion Date	1784	-----	BH	-----	200.2	10/03/2008 01:00:00 PM

NEW World
Project or Site Name

115756 1506.209
Project Number

R. Hibbs, M. Pearson
Sampler Name (Printed)

[redacted] (copy to MF Pearson Tetra Tech, Bozeman)
Project Manager, Report to

CHAIN OF CUSTODY RECORD

NORTHERN
Analytical Laboratories, Inc.

602 South 25th Street
Billings, Montana 59101
Ph: 406-254-7226 • Fax: 406-254-1389
nlabs@wtp.net

Tetra Tech, Inc.
Report to (Firm or Agency)

303 Irene
Address

Helena MT 59601
City State Zip

443-5210
Phone Fax

DATE COLLECTED 2008	TIME COLLECTED	SAMPLE LOCATION OR DESCRIPTION	COMP OR GRAB	SAMPLE MATRIX	NO. OF CONTAINERS	ANALYSIS REQUIRED: Table 5						NOTES	LAB NUMBER 2008 0902605
9/22	1140	RR-FCT-11	G	Water	4	✓						Table 5 is attached	1
	1230	RR-FCSI-96-5				✓							2
	1300	RR-FCT-12				✓							3
	1350	RR-SW-3				✓							4
	1430	RR-F-28				✓							5
	1500	RR-FC-4				✓							6
	1540	RR-SW-4				✓							7
	1730	RR-CFY-2				✓							8
	1840	RR-SW-6				✓							9
9/23	0815	RR-SBC-4			3 No DW meals	✓						Client emailed & said use RR-SBC-2	10
	0930	RR-SBSW-102				✓							11
	1015	RR-SBCT-2				✓						labeled SBC-2	12

Relinquished by:	Date	Time	Received by:
Mark F. Pearson	9/25	900	
Ryan Hibbs	9/25	1155	Norma C. Trankle

Record 1 of 3

Samples are in 4 coolers.

New World
Project or Site Name

115 756 1506.209
Project Number

R. Hibbs, M. Pearson
Sampler Name (Printed)

M. Pearson (Tetra Tech Bozeman)
Project Manager, Report to

CHAIN OF CUSTODY RECORD

NORTHERN
Analytical Laboratories, Inc.

602 South 25th Street
Billings, Montana 59101
Ph: 406-254-7226 · Fax: 406-254-1389
nlabs@wtp.net

Tetra Tech, Inc.
Report to (Firm or Agency)

303 Irene
Address

Helena MT 59601
City State Zip

443-5210
Phone Fax

DATE COLLECTED 2008	TIME COLLECTED	SAMPLE LOCATION OR DESCRIPTION	COMP OR GRAB	SAMPLE MATRIX	NO. OF CONTAINERS	ANALYSIS REQUIRED: Table 5	ANALYSIS REQUIRED: See report						NOTES	2008 LAB NUMBER 090265
9/23	1040	RR-SBC-1	G	Water	3	✓							Table 5 attached	13
	1110	RR-SW-5			4	✓								14
	1200	RR-SBT-6				✓								15
	1300	RR-SBT-3				✓								16
	1330	RR-SW-2				✓								17
	1520	RR-M-1				✓								18
	1615	RR-D-18				✓								19
	1720	RR-Sump			3		✓						See Repository Sump Analytical report.	20
9/24	0930	RR-SW-7			4	✓							Table 5 attached	21
	1130	RR-USGS-11890				✓								22
	1230	RR-DC-5				✓								23
	1440	RR-USGS-1700				✓								24

Relinquished by:	Date	Time	Received by:
Mark F. Pearson		900	
Ryan Hibbs	9/25	1155	Norma C. Trankle

Recd 2 of 3

New World
Project or Site Name

115 756 1506 .209
Project Number

R. Hibbs, M. Pearson
Sampler Name (Printed)

M. Pearson (Tetra Tech Bozeman)
Project Manager, Report to

CHAIN OF CUSTODY RECORD

NORTHERN
Analytical Laboratories, Inc.

602 South 25th Street
Billings, Montana 59101
Ph: 406-254-7226 • Fax: 406-254-1389
nlabs@wtp.net

Tetra Tech, Inc.
Report to (Firm or Agency)

303 Irene
Address

Helena MT 59601
City State Zip

443-5210
Phone Fax

DATE COLLECTED 2008	TIME COLLECTED	SAMPLE LOCATION OR DESCRIPTION	COMP OR GRAB	SAMPLE MATRIX	NO. OF CONTAINERS	ANALYSIS REQUIRED: Table 5							NOTES	LAB NUMBER 2008 090265
9/24	1500	RR-DCT-9	G	Water	4	✓							Table 5 attached	25
	1530	RR-DCT-8				✓								26
	1600	RR-DCT-7				✓								27
	1630	RR-DCSW-101				✓								28
	1640	RR-DCSW-101X				✓								29
	1700	RR-DCSW-102				✓								30
	1730	RR-DCSW-103				✓								31
	1340	RR-DC-2				✓								32
														Dup1-33
														MS6-34
														Dup11-35
														MS16-36

Relinquished by:	Date	Time	Received by:
Mark F. Pearson	9/25	900	
Relinquished by:	Date	Time	Received by:
[illegible]	9/25	1155	Norma C. Trankle
Relinquished by:	Date	Time	Received by:

Record 3 of 3

Dup21-37
MS26-38
~~Dup~~MB-39
LCS-40
MB-41
LCS-42

NORTHERN
Analytical Laboratories, Inc.

SAMPLE RECEIPT CHECKLIST

Dear Valued Client: This checklist documents the condition of your sample(s) as it (they) arrived at our lab. Please review it and familiarize yourself with its contents. Should you have any questions or comments, please contact us. Thank you for your use of our services.

Client Name: TT Helena

Project: New World

Laboratory Number(s): 2008090265

Checklist Completed by: SH 9/25/08 (Initials / Date)

Date/Time Received: 9/25/08 1155 (Date / Time)

Received by: NI

Carrier Name: hand

Sample Type: H_2O

	YES	NO
1. Shipping container in good condition?	✓	
2. Custody seals present on shipping container? Condition: Intact ____ Broken ____	NA	
3. Chain of custody present?	✓	
4. Chain of custody signed when relinquished and received?	✓	
5. Chain of custody agrees with sample labels?		✓
6. Custody seals on sample bottles? Condition: Intact ____ Broken ____		✓
7. Samples in proper container/bottle?*	✓	
8. Sample containers intact?*	✓	
9. Sufficient sample volume for indicated test?*	✓	
10. Ice/Frozen Blue Ice present in shipping container? (circle one)		
container temperature 1. 0.6 2. 1.2 3. 0.8 * (if <0 or>10) 0.1		
11. All samples rec'd within holding time?*	✓	
12. VOA vials have zero headspace? * (if contains >5mm headspace)	NA	
13. Trip Blank received?	✓	

	YES	NO
14. pH check performed by: SH		
15. Metals bottle(s) pH <2?	✓	
16. Nutrient bottle(s) pH <2?	NA	
17. Cyanide bottle(s) pH >12?		
18. Sulfide bottle(s) pH >9?		
19. TOC bottle(s) pH <2?		
20. Phenolics bottle(s) pH <2?		
21. Oil & grease bottle(s) pH <2? (checked by analyst)		
22. EPH/DRO bottle(s) pH <2? (checked by analyst)		
23. Volatiles (VOA) pH <2? (checked by analyst)		
24. Semivolatiles (525) pH <2? (checked by analyst)		
25. Other test types		
26. Client contacted?	✓	
27. Person contacted	M. Pearson	
28. Date contacted	9/26 email	

NOTES: **Samples may be affected when not transported at the temperature recommended by the EPA for the test you've selected. Please contact the lab if you have concerns about the temperature of your samples.**

*** Critical item - if marked "NO" contact lab manager.**

COMMENTS: COC has RR-SBCT-2 and bottles are labeled RR-SBC-2

TABLE 5
SURFACE WATER ANALYTICAL REQUIREMENTS
2008/2009 Work Plan

Parameter	PQL (mg/L)[1]	EPA Method No.	Max. Holding Time
Physicochemical			
Specific Conductivity	None	2310B	28 days
pH	None	150.1	Upon arrival at lab
Total Dissolved Solids	None	2340C	7 days
Total Suspended Solids	None	160.2	7 days
Hardness	None	2340B	6 months
Acidity	None	305.1	14 days
Metals[2]			
Aluminum	0.05	200.8/200.7	6 months
Cadmium	0.0001	200.8/200.7	6 months
Copper	0.001	200.8/200.7	6 months
Iron	0.01	200.8/200.7	6 months
Lead	0.001	200.8/200.7	6 months
Manganese	0.003	200.8/200.7	6 months
Zinc	0.01	200.8/200.7	6 months
Common Cations[2]			
Calcium	1.0	200.8/200.7	6 months
Magnesium	1.0	200.8/200.7	6 months
Potassium	1.0	200.8/200.7	6 months
Sodium	1.0	200.8/200.7	6 months
Common Anions[2]			
Sulfate	None	375.2	28 Days
Bicarbonate	None	2320B	14 Days
Carbonate	None	2320B	14 Days
Chloride	None	325.3	28 Days

1 PQL = Practical Quantitation Limit in milligrams per liter (mg/L)
2 Surface water parameters will be analyzed as total recoverable (unfiltered); for the select stations shown in Table 2, both total and dissolved metals will be analyzed.

Northern Analytical Laboratories, Inc.

Client Name: MAXIM TECHNOLOGIES, INC.

Project No.: 9902245.321

Project Name: NEW WORLD USFS

Post-it® Fax Note 7671	Date 4/6/06	# of pages ▶ 1
To Mark Pearson	From Michael Cormier	
Co./Dept. Maxim Bozo	Co. Helena	
Phone #	Phone # 443-5210	
Fax #	Fax #	

Sample No.: 2002010106-1 **Description:** REPOSITORY SUMP

Date Received: 01/17/2002

Date Collected: 01/15/2002 **Collected by:** SCOTT COLVIN **Matrix:** WATER

Laboratory Test	Measured Value	Test Units	Test Method	Date of Analysis
METALS				
Arsenic as As (Total Recoverable)	<0.003	mg/l	200.8	01/23/2002
Barium as Ba (Total Recoverable)	0.03	mg/l	200.8	01/23/2002
Chromium as Cr (Total Recoverable)	<0.001	mg/l	200.8	01/23/2002
Mercury as Hg (Total Recoverable)	<0.0002	mg/l	245.1	01/21/2002
Selenium as Se (Total Recoverable)	0.003	mg/l	200.8	01/28/2002
Silver as Ag (Total Recoverable)	0.0055	mg/l	200.8	01/28/2002
Mercury Batch #/Digest Date	283	—	245.1	01/21/2002
NEW WORLD SURFACE WATER				
Acidity as CaCO3	<2	mg/l	305.1	01/22/2002
Alkalinity Bicarbonate as HCO3	1020	mg/l	2320B	01/21/2002
Alkalinity Carbonate as CO3	0	mg/l	2320B	01/21/2002
Alkalinity Total as CaCO3	839	mg/l	2320B	01/21/2002
Chloride as Cl	12	mg/l	325.3	01/21/2002
Sulfate as SO4	1720	mg/l	375.2	02/04/2002
Calcium as Ca	505	mg/l	200.7	02/11/2002
Hardness as CaCO3	1840	mg/l	2340B	02/11/2002
Magnesium as Mg	195	mg/l	200.7	02/11/2002
Potassium as K	18	mg/l	200.7	02/11/2002
Sodium as Na	220	mg/l	200.7	02/11/2002
Electrical Conductivity	4050	umhos/cm	2510B	01/25/2002
pH	6.8	S.U.	150.1	01/12/2002
Total Dissolved Solids	3350	mg/l	2540C	01/18/2002
Total Suspended Solids	16	mg/l	160.2	01/18/2002
Aluminum as Al (Total Recoverable) also Dissolved	0.2	mg/l	200.7	01/24/2002
Cadmium as Cd (Total Recoverable)	<0.0001	mg/l	200.8	01/23/2002
Copper as Cu (Total Recoverable)	<0.001	mg/l	200.8	01/23/2002
Iron as Fe (Total Recoverable)	0.89	mg/l	200.7	01/24/2002
Lead as Pb (Total Recoverable)	<0.001	mg/l	200.8	01/23/2002
Manganese as Mn (Total Recoverable)	1.99 J	mg/l	200.8	01/23/2002
Zinc as Zn (Total Recoverable)	<0.01	mg/l	200.8	01/23/2002
ICP/AA Batch#/Digest Date	1744	—	200.7	01/18/2002
ICPMS Batch#/Digest Date	1745	—	3020A	01/18/2002