RESOLUTION COPPER COMPANY SURFACE WATER BASELINE REPORT OCTOBER 2002 THROUGH FEBRUARY 2006

VOLUME I OF II – TEXT, TABLES, FIGURES

Submitted to:

Resolution Copper Company 102 Magma Heights Superior, Arizona 85273

Submitted by:

Golder Associates Inc. 4730 N. Oracle Rd., Suite 210 Tucson, Arizona 85705

Distribution:

2 Copies - Dr. Casey McKeon, Resolution Copper Company 1 Copy - Golder Associates Inc.

June 30, 2006 063-2565

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EXECUTIVE SUMMARY

The Resolution Copper Company (RCC) commissioned Golder Associates Inc. (Golder) to establish a program for the collection of baseline surface water data near the future RCC mine and associated facilities. The intended uses of the data are primarily to (1) support an Environmental Impact Statement, if needed; (2) develop a sound conceptual site model as a basis for predicting future impacts; and (3) document current conditions as a baseline for judging future impacts. Initially, the program focused on areas near the Resolution orebody (i.e., Apache Leap Area, Devils Canyon, and upper Queen Creek). Other areas (i.e., Arnett Creek, lower Queen Creek, and Telegraph Canyon) received less attention.

Preliminary fieldwork and a workplan for initial design of the program were presented to RCC on December 16, 2002 (Golder, 2002). The subsequent clarification of scope letter was submitted on January 23, 2003 (Golder, 2003a). The monitoring network was implemented during 2003, with 2004 being the first full year of data collection. During the implementation process, Golder trained and phased in RCC staff to take over the monitoring program. By mid-2004, RCC was performing all of the monitoring activities, with only minor technical assistance from Golder. This report summarizes data collected through February 2006.

The **types of data** that were collected can generally be defined as occurrence, quality, and quantity:

- Occurrence refers to the spatial and temporal variation in the presence or absence of surface water features as documented during surface water inventories.
- Surface water quality was documented by field parameters measured during sampling events, laboratory analysis of water quality samples, and collection of continuous field parameter measurements with data sondes at strategic locations in Devils Canyon.
- Surface water quantity was documented by discrete discharge measurements during sampling events and by surrogate measurements of flow depth with the continuously recording data sondes.

Data quality was ensured by a combination of Standard Operating Procedures (SOPs), training, audits (field and laboratory), Quality Assurance Plan (QAP) (required by Arizona Department of Environmental Quality [ADEQ]), and third-party data verification/validation of water quality data by Innovative Technology Solutions, Inc. (ITSI). Golder prepared and submitted the SOP manual to RCC in December 2003 (Golder, 2003c) and re-submitted it (with minor edits) as part of the QAP (submitted to RCC for submittal to ADEQ on January 23, 2006) (Golder, 2006).

Dr. Paul Taufen performed a laboratory audit, under contract to RCC, in 2003 (Geochemistry Solutions, 2003). Golder performed a field audit during the November 2004 sampling event (Golder, 2004d). The QAP was prepared by Golder for RCC submittal to ADEQ on January 26, 2006. ITSI performed data verification and validation (June 2006) and found no rejected data.

Ten surface water inventories were performed between November 2002 and September 2005 to document the occurrence and nature of surface water features. Ten quarterly surface water sampling events were performed between May 2003 and August 2005 to monitor quality and quantity at 19 sampling stations. Six data sondes were deployed in Devils Canyon during 2003 for continuous monitoring of field parameters and flow depths; they are still collecting data. Eighty-five years of precipitation data collected at the West Plant Site indicate that 3 of 4 years monitored have had below average rainfall, with 2002 (the onset of the program) being approximately twice as dry as the driest year on record. Consequently, all data collected represent a drought cycle.

Results of the surface water inventories (i.e., **occurrence**) indicate that the Devils Canyon watershed has more surface water features than the Queen Creek watershed. In Devils Canyon, inventories indicate that approximately 2.5 kilometers (km) of perennially flowing surface water features exist along the main channel of Devils Canyon between the US60 bridge and Rawhide Canyon. Numerous springs and seeps occur along a 5.5 km reach of Devils Canyon, from the confluence with Rancho Rio Canyon to approximately 2.4 km downstream of the Crater Tanks. The springs emanate along the banks of Devils Canyon, or within side canyons near their confluence with Devils Canyon. Observed spring flows range from 12 to less than 1 gallons per minute (gpm). Upstream of the Crater Tanks, all substantial springs emanate from the west bank of the canyon. Downstream of the Crater Tanks, all substantial springs emanate from the east bank of the canyon.

In the Queen Creek watershed (which includes the Apache Leap Area, Arnett Creek, and Telegraph Canyon), there were six perennial reaches documented. These include:

- Upper Queen Creek
 - Pump Station Spring (approximately 40-meter (m) reach emanating from a spring).
- Lower Queen Creek
 - Effluent-dependent reach (an approximately 2-km reach) associated with the Town of Superior Wastewater Treatment Plant and dewatering activities at the Perlite Mine owned by Harborlite.
- Arnett Creek

- Two short flowing reaches (combined length approximately 60 m) immediately upstream and downstream of the confluence with Telegraph Creek.
- Telegraph Canyon
 - Two flowing reaches separated by short, dry reach (combined length approximately 350 m) located immediately upstream of confluence with Arnett Canyon.

Seven perennial springs were identified within the inventoried area of the Queen Creek watershed. Three were located along Queen Creek, three along the west side of the Apache Leap escarpment, and one in Telegraph Canyon.

The cumulative length of flowing reaches in both watersheds was seasonally longest in March, with the shortest lengths occurring immediately before the summer rains.

Water quality results did not exceed standards for most regulated constituents in both watersheds. The pH, total suspended solids, dissolved oxygen (DO), E. Coli, Cu, and Se occasionally exceeded standards. Effects of drought and grazing are likely the main contributors to DO and E. Coli exceedances. Watershed geology (i.e., the low-solubility siliceous bedrock of Devils Canyon that adds no alkalinity) is likely responsible for low pH exceedances in Devils Canyon. The most significant water quality issue was the 14 dissolved Cu exceedances of aquatic and wildlife (warm water) surface water quality standards. All but one exceedance was in Devils Canyon. The majority of the Devils Canyon Cu exceedances occurred during runoff flow (i.e., no baseflow contribution). Copper concentrations in Devils Canyon decreased with distance downstream, suggesting that Cu is either related to airfall emissions (likely from local smelters) or undetected mineralization upstream of the sampling stations.

General **surface water classification** indicates differences in geochemistry that corresponded to the general geology of the watersheds for upper Queen Creek, Apache Leap, and Devils Canyon. General surface water classifications (based on the first two sampling events) were:

- calcium sodium bicarbonate water Devils Canyon downstream of Rancho Rio
 Creek, the start of the perennially flowing reaches;
- calcium bicarbonate water Pump Station Spring in Upper Queen Creek;
- magnesium calcium bicarbonate and calcium magnesium bicarbonate water –
 Kane Spring and Hidden Spring, respectively, along the Apache Leap; and

mixed waters (approximately equal major anion and cation normalities) –
intermittent reach of Devils Canyon upstream of Rancho Rio Creek and adjacent
to the Resolution orebody.

Water types and mixing relationships derived from Tri-linear (Piper) diagrams indicate that baseflow in Devils Canyon is derived from shallow Apache Leap Tuff groundwater. Data from both high- and low-flow sampling events, as well as from deep and shallow Apache Leap Tuff groundwater samples, were used to generate the diagrams. Samples taken during high surface flow events were shown to have higher sulfate levels than those collected during low flows.

Discharge measurements were taken during every sampling event. In Devils Canyon, baseflow conditions during dry periods indicated a baseflow of approximately 10 to 20 gpm in the perennial reaches. High-flow sampling events recorded flows up to approximately 33,000 gpm. Baseflow in upper Queen Creek was approximately 1 to 3 gpm during dry periods. High-flow sampling events in upper Queen Creek recorded flows as large as 100 gpm. Springs in Devils Canyon had flows ranging from 12 to less than 1 gpm. Flows from springs along the Apache Leap ranged from 30 gpm at intermittent Karst Spring to less than 1 gpm.

The six **data sondes** installed in Devils Canyon generated a continuous record of field parameters and flow depths, providing a context for the discrete quarterly sampling. All instantaneous field parameter measurements were within the observed sonde ranges. However, comparison of sonde data with field parameters revealed that sampling events did not capture the high specific conductance associated with first-flush, high flow events in summer. In sum, sonde data indicated that (with the exception of water quality during first-flush events) the majority of the analytical results represent water quality in the canyon.

Sonde data indicated that some reaches of Devils Canyon went dry between sampling and surface water inventory events, hence providing valuable information about the presence or absence of water. Sondes responded as expected to diurnal influences, precipitation, runoff, and dry periods between runoff.

Golder recommends that baseline surface water characterization be conducted in any new basins used in the brownfields or greenfields mine concepts in the pre-feasibility study. Monitoring programs initiated in new basins or other areas should follow the same general protocols as those used for the current study. If the drought persists, redeployment of the Devils Canyon data sondes to the new basins is an option to conserve resources. Depending on discharge scheduling for the new treatment

plant, it may be possible to collect valuable baseline data that will aid in classifying the surface flow regime and identifying water quality exceedances with water quality sampling.

With respect to recommendations for continuing the existing program without redeployment to other areas, the geographic scope is considered appropriate and should not be changed. However, the activities to be performed, frequencies, and analytical suites can be substantially reduced as long as the drought persists. The following table summarizes the recommended changes with respect to the primary watersheds. However, we recommend reinstituting the program for a year or two after the drought is over.

	Inventories	Sampling	Analytical List	
Upper Queen Creek/ Apache Leap Discontinue Semi-annual Hardness ; and Alkalini Hardness ; and Alkalini Major ions; Metals (Current comprehensive) Lower Queen Creek Quarterly Semi-annual Current comprehensive		Major ions; Metals (Cu, Al, Fe, and Mn); Hardness ;and Alkalinity		
		Semi-annual	Major ions; Metals (Cu, Al, Fe, and Mn); Hardness; and Alkalinity	
		Semi-annual	Current comprehensive list (minus total recoverable metal fractions)	

Golder recommends that RCC implement a formal data management program to ensure easily accessible and accurate data. Additional work should be performed to assess the Cu exceedances in Devils Canyon. Re-evaluation of metals analysis from the PM10 filters, leachate results from ongoing Apache Leap Dacite testing, and the collection of surface water samples from water pockets on the dacite may aid in understanding the origin of the Cu exceedances.

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1.0 INTRODUCTION

Golder Associates Inc. (Golder) prepared this report summarizes the surface water data collection program from October 2002 through February 2006 for baseline resource characterization. The report presents all of the data collected to date and includes basic data reduction, interpretations, and recommendations for future data collection efforts.

The purpose of the surface water investigation is to define background quantity, quality, and spatial and temporal occurrences of surface water in areas that could potentially be impacted by future Resolution Copper Company (RCC) operations. There are several regulatory and non-regulatory "drivers" for collecting baseline surface water data, as discussed in the 2002 work plan (Golder, 2002). Regulatory drivers are related to controlling discharges to surface water to meet water quality standards for specified designated uses. Non-regulatory drivers are related to establishing a sound conceptual model of the physical system as a basis for predicting potential impacts from the RCC and non-RCC activities (e.g., grazing, recreation, and industrial mineral mines).

The overall scope of the program was to document the spatial and temporal occurrences of surface water; measure flow rates; and analyze water quality in Devils Canyon, upper Queen Creek, Arnett/Telegraph Canyons, and the Apache Leap Area, with an emphasis on Devils Canyon. A general site location map is included as Figure 1.

There are two types of data being collected for the program. The types of data being collected and the rationale for their collection are as follows:

- Surface Water Quality and Quantity The first data type relates to evaluating the concentrations of metals, major anions and cations, inorganic non-metallics, physical properties, and biological contaminants in surface water over time with respect to surface water quality standards associated with the applicable state-mandated designated uses. In addition, flow measurements were taken to supplement the water quality data.
- **Surface Water Occurrence** The second data type relates to evaluating the spatial occurrence of surface water and its temporal variations.

These data needs have been fulfilled with two types of activities:

 Surface Water Quality and Quantity Sampling Events - Surface water quality sampling and field parameter collection (including discharge). At some locations, the field parameters (including at a minimum, electrical conductivity, temperature, and depth) were collected on hourly intervals with data sondes and downloaded during water quality sampling events.

• Surface Water Inventories - Documenting the existence and nature (i.e., dry or flowing, approximate flow rates, channel morphology, etc.) of surface water at various locations in the study area at various times.

The possible end uses and benefits of this report include, but are not limited to:

- evaluating the level of effort applied thus far, and adjusting the future level of
 effort for maximum cost effectiveness regarding ultimate data requirements
 (i.e., do we need to continue water quality sampling at the same frequency, etc.);
- providing comprehensive data compilation to ensure that data are complete and that no quality control issues have arisen since the last data compilation;
- providing baseline data that can be used for future permitting efforts and to support permit requirements;
- developing a conceptual site model of the physical system as a basis for predicting potential impacts from future mining activities; and
- supporting preparation of an Environmental Impact Study, if needed, for future mining activities.

This report is intended to be a repository and guide to all activities and data collected to date. For this reason, some portions of the *Resolution Baseline Data Collection – 2003 Technical Memorandum for Surface Water* (Golder, 2003b) are being reissued. Data being reissued include the 2003 water quality, data sonde, and surface water inventory results. The only significant change to reissued data includes the applicable designated uses from the Arizona Administrative Code (AAC) (Title 18, Chapter 11, Article 1). The designated uses for some sampling stations were changed from the 2003 Technical Memorandum upon re-inspection of the surface water quality standards published in the AAC.

This report is organized into six sections and six appendices as follows:

- **Section 1.0 Introduction** discusses the scope, purpose, and organization of this report.
- Section 2.0 –Surface Water Data Collection describes the geographic areas where data were collected; identifies the permanent monitoring stations that were selected; and lists field and laboratory methods used in collecting samples, measuring flow, and operating data sondes.

- **Section 3.0 Surface Water Data** summarizes the occurrence, discharge, and water quality data collected during the program.
- **Section 4.0 Interpretations** presents limited interpretations of the programs dataset.
- **Section 5.0 Recommendations** suggests an overall program for moving forward with the surface water data collection program.
- **Section 6.0 References** lists the references used in preparation of this report.
- **Appendix A** Surface Water Inventory Summary Tables presents the March, June, and September 2005 results of the surface water inventories.
- **Appendix B** Sample Station Hydrographs and Devils Canyon Rating Curves
- **Appendix** C Water Quality/Exceedance Tables presents all the water quality data and identifies exceedances to surface water standards.
- **Appendix D** Box and Whisker Plots and Time Series Graphs presents statistical and graphical representations of water quality data.
- **Appendix E** Data Validation Reports presents the results of the data validation performed by Innovative Technology Solutions, Inc. (ITSI).
- **Appendix F** –**D**ata Sonde Graphs and Summary Information presents graphical representations of the data sonde results.

2.0 SURFACE WATER DATA COLLECTION

The following sections review the rationale used for the development and implementation of the data collection program.

2.1 Geographical Areas

The geographical areas for baseline investigation were defined by the 2002 work plan (Golder, 2002), which focused the highest level of effort on those areas near the future mine at Shaft No. 9. The tentative RCC land uses for the project (Study Areas) include tailings impoundment facilities, utility corridors, and facilities associated with the area of ore deposit (i.e., headframes, mill, etc.). The amount of effort expended to complete the surface water inventories, water quality sampling, flow measurements, and data sonde monitoring varied based on relative importance of these activities to the Study Areas. The level of effort was adjusted at some locations based on an evolving understanding of the areas that needed more or less attention. The following summarizes the general rationale for monitoring effort as it pertains to geographic area.

- Areas for observations (surface water inventories) An initial survey was performed in November 2002 to identify all surface water features in, or close to, the Study Areas. Data collected during the initial survey were used to prepare the 2002 work plan. The 2003 surface water inventory covered the same geographical extent and used the same methods as the initial survey. Seven subsequent surveys were performed between 2004 and 2005; these surveys did not include lower Queen Creek or lower Devils Canyon. These surveys (10 total: 3 full surveys and 7 with a slightly reduced geographical scope) were performed for the purpose of identifying spatial and temporal trends in the occurrence of surface water.
- Areas for long-term monitoring stations Areas near the ore deposit that could be affected by future dewatering were selected for long-term monitoring. These areas include Devils Canyon; Upper Queen Creek (i.e., upstream of Superior); and Apache Leap. Surface water sampling was performed in all three areas. In addition, data sondes were installed in Devils Canyon for continuous monitoring. Water quality sampling and sonde data collection occur at the same locations for a better understanding of the geochemical conditions.
- Areas not included for long-term monitoring stations Areas associated with the utility corridor (i.e., lower Queen Creek) and possible tailings impoundments (e.g., Telegraph Canyon, Dromedary Peak, and Desert Wells) were not included because the mine plan was not sufficiently advanced to warrant baseline data collection. Because of issues associated with discharge from the water treatment plant (currently under construction to aid in dewatering the historical workings), lower Queen Creek will likely be added to the long-term monitoring sites.

2.2 Surface Water Monitoring Stations

Station identification, nomenclature, and selection are discussed in the following sections. Detailed surveys of the sonde locations are included in the Golder 2004 technical memorandum *Detailed Surveys of Data Sonde Locations* (Golder, 2004b).

2.2.1 Station Identification

All of the significant water features identified during the initial November 2002 surface water inventory survey that are in close proximity to the ore deposit (or are considered to be potentially impacted by future dewatering associated with the Resolution ore deposit) have been included in the surface water sampling network. Locations of the sondes and/or sampling stations are included on Figure 2 (Devils Canyon) and Figure 3 (Queen Creek). Table 1 summarizes the surface water sampling stations. This includes coordinates, ID/name, geologic units, and type of feature. The names of the stations in Devils Canyon denote the location relative to river kilometers upstream from the confluence with Mineral Creek. For instance, station name DC13.5C denotes a station that is in Devils Canyon (DC), is 13.5 kilometers upstream from the confluence with Mineral Creek, and is located in the channel (C). An E or W denotes spring samples located on the east or west bank of Devils Canyon, while a T before the kilometer number denotes a tributary. Spring/seep names were given common names either found in the Arizona Department of Water Resources database (i.e., Hidden and Kane); from a 7.5 minute U.S. Geological Survey (USGS) topographic map (Pump Station); or in some cases, as in Boulder Hole, a name describing the channel morphology.

2.2.2 Station Selection – Apache Leap and Queen Creek

Two sampling stations in the Apache Leap Area, Hidden Spring and Kane Spring, were initially chosen because they were the only permanent sampleable water features observed. However, during the May 2004 sampling event, Bored Spring was added to the sampling network. Blue Spring was also added to the Apache Leap sample network in May 2004. This site was added to expand the Apache Leach sampling network geographic coverage. As with the initial Apache Leap stations, the two upper Queen Creek sampling stations were chosen because they are the only permanent sampleable surface water features in the basin that are in close proximity to the Resolution ore deposit. In February 2005, two additional sites were added to the Queen Creek sampling network. Sampling station QC27.3C was added to monitor a temporally intermittent reach of Queen Creek. Sampling station QC22.6E (Karst) was added after the discovery of this location during a wet season surface water inventory (i.e., March survey). This site has water only during wet periods.

No data sondes were installed at the Apache Leap or Upper Queen Creek Areas because there was little to no perennial discharge.

2.2.3 Station Selection – Devils Canyon

Station locations along the main stem of Devils Canyon were selected based upon the following criteria:

- suitable rock for attaching the data sondes,
- bedrock that forces alluvial underflow to the surface and provides stable channel conditions for establishing a stage discharge relationship,
- sufficient water depth for sonde sensors to remain submerged,
- relatively smooth flow that will continually bathe sensors in new water and is strong enough to flush away accumulations of algal or detrital material,
- proximity to Resolution ore deposit, and
- proximity to springs and tributaries that might change quality or quantity of water over time.

The data collected by the sondes varies depending upon the array of sensors installed on the sonde. A list of the sensors on each sonde is available in Table 1. All the sondes have at minimum sensors for conductivity, temperature, and water depth. If the sonde was thought to be installed in an area of perennial water flow, a pH sensor (which needs to be continuously wet for proper function) was added to the sonde. In addition, DC8.8C was outfitted with a turbidity sensor.

The locations of the specific sample or sampling/sonde stations in Devils Canyon were chosen using the following rationale:

- DC15.2C This station is located upstream of the ore deposit or potential mine influences as currently understood by Golder and was selected to document non-Resolution impacts, if any, to Devils Canyon. No data sonde has been installed at this site.
- DC14.70C Floodflow sampling location at Arizona Highway 60 bridge. Only sampled during floodflows when drainage is too dangerous to access at other sampling stations. No data sonde has been installed at this site.
- DC13.5C This station is located adjacent to the Resolution ore deposit. Because this site is located on an ephemeral subreach of the canyon, the sonde installed at this site has no pH sensor.

- DC10.9C This station is located adjacent to the Resolution ore deposit. Because this site is located on an ephemeral subreach of the canyon, the sonde installed at this site has no pH sensor.
- DC8.8C This station is located at the start of perennial flow in Devils Canyon with extensive riparian habitat. The sonde installed at this site has both pH and turbidity sensors in addition to the standard sensor array.
- DC8.2W This station is located at the largest spring in Devils Canyon. Conditions at the spring allowed for the permanent installation of a cutthroat flume and sonde with a pH sensor. The spring is of interest because continuous flow measurements over long periods of time can be used to assess the spring's response to precipitation and to infer aquifer characteristics.
- DC7.1C This station is located at the approximate center of what was thought to be the longest perennial reach of Devils Canyon. However, the site went dry during late summer 2003 and is no longer considered perennial. The sonde installed at this site contains a pH meter in addition to the standard sensor array. In addition to the sonde, this station has two separate pressure transducers (i.e., depth sensors) located 48 and 100 feet downstream from the data sonde to indirectly measure flood discharges.
- DCT6.6W This tributary was chosen because it contains a spring with riparian vegetation. This site has no data sonde installed due to lack of bedrock for attaching a sonde and because of low discharge.
- DC6.1E This site is located at a hanging garden on the east side of the canyon immediately below the lowermost Crater Tanks (also known as Five Pools) waterfall. No data sonde has been installed at this site.
- DC5.5C This station is located at the end of what was thought to be the longest perennial reach along Devils Canyon. A data sonde equipped with the standard sensor array is installed at this site.
- DC4.1E This site is located at a hanging garden on the east side of the canyon. No data sonde has been installed at this site.

2.3 Field Methods

Field methods included surface water inventory observations, water quality sampling, flow measurements, and data sonde operation. Golder staff initially conducted all inventories and sampling events, but over time the program was transferred to RCC staff, as shown below:

Approximate Dates	Inventories	Sampling Events/Sondes
2002	Golder	None performed
2003	Golder	Golder
2004	Golder (December Survey performed by RCC)	Transitional to RCC
2005 - 2006 RCC		RCC

Golder provided training to RCC staff during the transition period. A 1-day performance audit of the RCC sampling crew was performed during the November 2004 sampling event to ensure field procedures were consistent with the SOPs (Golder, 2004c). The audit showed all of the technical aspects of the audited data collection event were completed correctly with the exception of:

- dissolved oxygen (DO) measurements at DCT6.6W, and
- sample preservation of the coliform/E. coli samples.

The DO measurement error was unavoidable because inadequate water was available to move the sensor at the prescribed rate of 1 foot per second. However, the data need to be qualified on the surface water sample log.

The E. Coli sampling protocol was difficult to follow correctly because samples needed to be kept cool immediately after sample acquisition, and holding times were not met. Holding times were exceeded due to site remoteness. However, samples should be kept on ice between the time they are collected and placed in the field vehicle ice chest.

Additional problems noted during the audit included a lack of proper note-taking procedures in the field book. In particular, the calibration of field parameter instrumentation and maintenance issues were not adequately recorded.

Standard Operating Procedures (SOPs) for the surface water monitoring (with the exception of Surface Water Inventories) were initially published by Golder (2003c), and reissued with minor edits in the Quality Assurance Plan (QAP) published by Golder (2006). The QAP contains four primary sections that describe the procedures used for:

- project management,
- data generation and acquisition,
- assessment and oversight, and
- data validation and usability.

Procedures used for the surface water inventories were initially contained in the Golder (2002) work plan. Updated surface water inventory methodologies were detailed in the Golder *Request for*

Change Order – Resolution Surface Water Baseline Data Collection – Additional Surface Water Inventories for 2004, dated May 28, 2004 (Golder, 2004a).

2.3.1 Surface Water Inventories (Formerly known as the Seep and Spring Surveys)

An initial surface water inventory was performed in November/December 2002. Several sources of information were reviewed for the initial survey to identify surface water features before going to the field. These sources included 1:24,000 7.5 minute USGS topographic maps; the Arizona State Groundwater Site Inventory (GWSI) database; aerial photography (1:2,000 from Cooper Aerial); and IKONUS satellite imagery. GWSI database information was also queried for information regarding quality and quantity of identified surface water features. None of the springs identified using the GWSI database had water quality or quantity information available.

The major areas physically investigated for the surveys included (but were not limited to) the following:

- Devils Canyon Highway US60 down to the ASARCO Ray Mine;
- Ranch Rio Creek From Forest Service Road 315 to confluence with Devils Canyon;
- Hackberry Creek From Forest Service Road 315 to confluence with Hackberry Creek;
- Upper Queen Creek Pump Station Spring, Queen Seep, Vent Seep, Eddies Spring, and Boulder Hole Seep;
- Lower Queen Creek Superior Wastewater Treatment Plant (WWTP) down to the end of surface flow, and Potts, Benson, and Lower Railroad Springs;
- Apache Leap Bored, Hidden, Kane, and Wild Horse Springs;
- Arnett Creek Blue Springs and Perlite quarry (above confluence with Telegraph Canyon) down to Highway US60 bridge; and
- Telegraph Canyon Trough, Filaria, South Filaria, and jeep trail down to confluence with Arnett Creek.

When visiting a surface water feature, a series of observations and activities were performed:

- GPS coordinates in NAD 27 zone 12;
- photographs;

- field water quality parameters (i.e., pH, specific conductance [SC], and temperature);
- geologic and morphologic setting;
- type classification (e.g., spring, seep, reach, etc); and
- visual estimate of the discharge.

DO was added to the field parameters list for the 2003 surveys. Documentation of the aforementioned was made in a field book, and the location of the site was marked on a 7.5 minute USGS topographic map.

The surface water features were classified as one of five features: tinaja, stagnant pool, seep, spring, and flowing reach. For this project, definitions were:

- Seep was defined as a moist or wet location without discernable surface flow.
- **Spring** was defined as a location identified as such on a USGS topographic map, listed in the GWSI database, is developed (whether it is flowing or not), or has discernable surface flow emanating from a localized area.
- **Tinaja** was defined as a bedrock plunge pool below a dry waterfall that gets its water solely from surface runoff and has no (or very little) groundwater component.
- **Stagnant pool** was defined as a water feature that has some groundwater component (local stream bed storage), but is not maintained by consistent groundwater or surface water inflow and hence becomes stagnant.
- Flowing Reach was defined as a section of drainage bottom that has surface flow.

Stationing for the June 2003 survey was used for all subsequent surveys. Drainages with stationing included: Devils Canyon, Rancho Rio, Queen Creek, Arnett Creek, and Telegraph Canyon. Stationing along Queen Creek was measured in kilometers upstream of Whitlow Dam. Devils Canyon stationing was measured in kilometers above the confluence with Mineral Creek. Arnett, Telegraph, and Rancho Rio were measured in kilometers upstream of their confluence with a major named drainage (i.e., Queen Creek, Arnett Creek, and Devils Canyon, respectively).

The first four surveys (i.e., November/December 2002 through March 2004) were performed using the same methodology and covered the geographic area. The last six surveys (June 2004 through September 2005) were performed on a reduced area with a modified methodology (Golder, 2004a).

The reduction in geographic area included the elimination of areas associated with the utility corridor (i.e., lower Queen Creek) and potential tailings impoundment locations (i.e., Telegraph and Arnett Canyon). In addition, lower Devils Canyon (below the Crater Tanks) was removed from the survey due to the dangerous conditions associated with hiking around the falls.

Modifications to the methodologies included a change in focus from documentation of all surface water features to documentation of flowing reaches and stagnant pools greater than 1,000 gallons in size (with the exception of Tinaja Canyon, which had all stagnant pools recorded). Additionally, field parameters were taken at every second or third feature instead of every feature, as previously performed.

Surveys were predominantly performed during the months of March, June, September, or December (with the exception of the first survey, which was performed in November). This frequency and timing correspond to the typical seasonality in Arizona and allow for observation of seasonal patterns in the spatial distribution of water occurrences.

2.3.2 Water Quality Sampling

Ten water quality sampling events have been performed thus far. The sampling events were performed on quarterly intervals in February, May, August, and November. Sampling commenced in May 2003 and continued on a quarterly schedule until August 2005. The sampling months were chosen to coincide with typical precipitation patterns that generally result in low flows in May; high flows in February and August (i.e., spring runoff and monsoon thunderstorms, respectively); and intermediate flows in November. Because the regulatory drivers for this work mainly pertain to baseflow conditions, an extended list of analytes was analyzed for the first two May events due to the likelihood that this month would represent baseflow conditions.

SOPs were written for all sampling tasks. The SOPs used during water quality sampling were:

- SOP Field Records and Sample Labeling;
- SOP Measurement of Field Parameters;
- SOP Surface Water Sampling;
- SOP Sample Filtering, Preservation, and Containerization;
- SOP Field Quality Control;
- SOP Chain-of-Custody; and

SOP – Sample Handling and Shipping.

Before sampling, the bottles and preservatives were obtained from the analytical lab pursuant to SOP – Sample Filtering, Preservation, and Containerization. Sample numbers used for the sampling event were obtained from RCC staff pursuant to SOP – Field Records and Sample Labeling. Filters and associated equipment were prepared prior to the sampling event pursuant to SOP – Sample Filtering, Preservation, and Containerization.

The samples were collected and field parameters were measured upon arrival at the station pursuant to SOP – Surface Water Sampling and SOP – Measurement of Field Parameters. Records of the sampling event and bottle labeling were documented pursuant to SOP – Field Records and Labeling. An equipment blank, field blank, and duplicate sample were submitted for each of the sampling events pursuant to SOP – Field Quality Control. Analytes with short hold times were picked up daily by a courier from Del Mar Labs in Phoenix. Prior to shipping, the chains-of-custody were completed pursuant to SOP – Chain-of-Custody. Samples were shipped on ice pursuant to SOP – Sample Handling and Shipping.

2.3.3 Discharge Measurements

Flow measurements were performed using various techniques (pursuant to SOP – Discharge Measurements). The technique chosen was based on the flow conditions. Techniques included:

- Bucket/Stopwatch Calculates discharge based on the amount of time required to fill a vessel of known volume:
- Cutthroat Flume Depth of flow through flume under specific conditions correlates to discharge on look-up table; and
- Current Meter The flow is divided into approximately 20 cross-sectional areas, the velocity is measured in each, and the sum of the areas multiplied by velocities equals discharge.

2.3.4 Data Sonde Operation

Data sondes were removed from their casings pursuant to SOP – In-Situ Data Sondes upon arrival at the stations. Once removed from the casings, sonde data were downloaded following the directions in the SOP. The sondes were then recalibrated. After calibration, new test criteria were defined and the test was started. Measurements were programmed to be taken on an hourly basis at the top of each hour. The data must be taken on an hourly schedule at the top of the hour (i.e., 12:00:00, 13:00:00, etc.) so the hourly barometric readings from the weather station KC-1 at Shaft No. 9 can be

used for adjusting the pressure transducer data. Upon completion of the test definition, the sondes were reinstalled into their casings.

2.4 Laboratory Analysis

Water quality samples were sent to four laboratories under direct contract to RCC. The laboratories used, and the general classification of analytes they tested, were as follows:

- SVL Analytical, Inc. (SVL) in Kellogg, Idaho analyzed metals, inorganic nonmetallics with long holding times, major anions and cations, and physical properties.
- ACZ in Steamboat Springs, Colorado analyzed radionuclides.
- Del Mar in Phoenix, Arizona analyzed inorganic non-metallics with short holding times and biological constituents.
- FiberQuant in Phoenix, Arizona analyzed for asbestos.

Listings of the short hold time and long hold time analytes are included as Tables 2 and 3, respectively. Containerization, preservatives, holding times, U.S. Environmental Protection Agency (EPA) method or standard methods, and practical quantitation limits are included in the tables.

Initial reporting levels for data packages only allowed for EPA Level 3 review (i.e., data verification). To perform data validation (EPA Level 2 review), three data packages were re-assessed and re-issued with EPA Level 2 review criteria included to allow for data validation. The data packages were chosen to represent data from the beginning (May 2003 sampling event – SVL - metals and general chemistry), middle (November 2004 sampling event - Del Mar – short hold time analytes), and most recent (August 2005 sampling event – SVL - metals and general chemistry) sampling events.

2.5 Relevant Weather Data

Precipitation, evaporation, and barometric pressure data were collected at site KC-1, which is located next to Shaft No. 9, near the Oak Flat National Forest Campground. This site was selected over site KC-2 (located at the West Plant Site) because of its proximity to the Devils Canyon sonde network. The barometric pressure data were used to correct barometric effects on water level data collected by the non-vented pressure transducers in Devils Canyon. Precipitation and evaporation data from KC-1 were graphed and plotted for comparison to data sonde results.

Long-term annual graphs (starting in 1920) were prepared from precipitation records collected by RCC at the West Plant Site. Data from station KC-2 (installed by Golder in February 2002) were not used for the long-term precipitation graphs.

2.6 Data Management

Final data packages of water quality results were issued as electronic copies from the analytical laboratories directly to RCC. All data were archived on-site at RCC in Microsoft EXCEL® spreadsheet format.

Data were transferred electronically from RCC to Golder by means of ftp sites set up by Golder for that purpose.

Field parameters, discharge data, and sonde data were initially kept by Golder until mid-2004, when control of the field program was transferred to RCC.

Meteorological data were collected or managed by RCC. Adjustments to evaporation pan readings were made by RCC. The data were delivered to Golder via the internet in Microsoft EXCEL® spreadsheet format.

3.0 SURFACE WATER DATA

The meteorological data, spatial occurrence, quantity, and quality of the surface water features monitored are presented in the following sections.

3.1 Occurrence – Seep and Spring Surveys

The March, June, and September 2005 surface water features surveyed in the Devils Canyon and Queen Creek watershed are represented on GIS Figures 4, 5, and 6. Summary tables are included in Appendix A, which are organized with respect to drainage basin (i.e., Devils Canyon or Queen Creek). Names indicated on the figures can be cross-referenced with the tables to obtain additional descriptive information (i.e., geology, morphology, field water quality parameters, etc.) and to view a photograph of the site taken at the time of the survey.

Temporal changes in flowing reaches for all 10 inventories (taken between November/December 2002 and September 2005) for both the Queen Creek and Devils Canyon watersheds are depicted on Figures 7, 8, and 9. The inventories (with the exception of the three most recent) were included in four prior publications (Golder 2002, 2003b, 2004c, and 2005). Table 4 summarizes the cumulative length of flowing reaches. A channel profile of Devils Canyon that includes all 10 inventories, geology, sampling stations, potentiometric surface, and significant features is depicted on Figure 10.

3.2 Discharge Measurements

A summary of the discharge measurements and data sonde water depths (where available) is included in Tables 5a and 5b (Devils Canyon and Queen Creek, respectively). Appendix B contains this same data plotted as hydrographs (sample date versus discharge) and plotted as rating curves developed from plotting depth (from data sondes) versus discharge.

3.3 Water Quality

Depending on the area being monitored and the activity being performed, three levels of effort were used for water quality monitoring. In increasing order of magnitude, they were:

- for the surface water inventories, water quality monitoring consisted of measuring field parameters at the time of the survey (i.e., pH, temperature, SC, and DO [during some events]);
- at the stations, water quality monitoring consisted of collecting samples and measuring field parameters at the time of sampling; and

• at the stations with data sondes, water quality monitoring consisted of collecting samples, measuring field parameters at the time of sampling, and continuously measuring field parameters with the data sondes.

3.3.1 Surface Water Inventory Water Quality Parameters

Field parameters measured during the surface water inventories are included in Appendix A.

3.3.2 Laboratory Data Validation

In accordance with the QAP (Golder, 2006), one data package from the beginning, middle, and end of the sampling program (amounting to one from each year) was subjected to EPA Level 2 review (i.e., data validation). Five samples from 2003 (samples RESE-1001009 to 1001012), two samples from 2004 (RESE-1001176 and 1001177) and four samples from 2005 (samples RESE-1001222 to RESE-1001226) were validated. ITSI provided data validation services under contract to RCC in May and June 2006. Validation was performed for general chemistry, microbiology, and metals analytical results.

After validation, data quality was assessed to reconcile data quality with end uses and project objectives, and also to reconcile potential effects on usability of the data. The Data Validation Reports are included in Appendix E.

The overall quality of the analytical results was deemed sufficient to meet project objectives. Overall quality was assessed by the quantitative parameters of reporting limits, accuracy, precision, completeness, and by the qualitative parameters of representativeness and comparability. The overall levels of accuracy and precision were considered acceptable based on laboratory quality control measures. Based on the results of the data review, no general chemistry, microbiology, or metals analytical results were qualified as rejected.

3.3.3 Sampling Station Water Quality Results

The list of constituents for laboratory analysis is based on regulatory and non-regulatory drivers, as discussed in the work plan (Golder, 2002). Two lists of constituents were used for the sampling events: a long list and short list (Table 6). Radionuclides and cyanide are excluded from the short list. The regulatory and non-regulatory drivers are also shown in Table 6. Standards for some metals are hardness dependent; these metals are also indicated in Table 6. Tentative designated surface water uses for the stations are shown in Table 7. The sampling history for each sample station are included in Tables 8 and 9 for Devils Canyon and Queen Creek, respectively. Detailed tables comparing the water quality and field parameter results to exceedances by designated use is included in Appendix C.

Sampling stations identified to have exceedances in Appendix C are summarized in Tables 10 and 11 for Devils Canyon and Queen Creek, respectively. Qualitative statistical evaluation using box and whisker plots of constituents that have exceedances (i.e., DO, Cu, and E. Coli) are included in Appendix D. Also included in Appendix D are sample station time series plots of the constituents with exceedances. A Tri-linear Piper diagram showing the relative concentrations of major ions was plotted for low- and high-flow conditions, and deep and shallow Apache Leap Tuff groundwater (Wells HRES-2, 3, 4, and 5) for the Devils Canyon watershed to illustrate water types and mixing relationships Figure 11. Interpretations are discussed in Section 4.0.

3.3.4 Data Sonde Results

Monthly graphs of sonde data, with the addition of precipitation and evaporation, are included in Appendix F. Annual graphs for 2004, a data sonde summary table, and data summaries are also included in Appendix F. This includes monitoring periods, parameters recorded, sonde serial numbers, and background pressure reading adjustments.

Pressure transducer data from the data sondes were corrected for barometric pressure by taking the difference in pressure readings at the sonde stations (while the pressure transducers are out of the water they are essentially a barometer) and a reading taken at a weather station near Shaft No. 9 (KC-1) for the same time. Because the sonde stations are all at a lower elevation than KC-1, the difference was added to all KC-1 barometric readings. Pressure transducer correction factors are included in Table 12. With the KC-1 readings adjusted for elevation difference, the readings were directly subtracted from the sonde station readings. With barometric pressure removed from the sondes, only the pressure due to overlying water is registered.

4.0 INTERPRETATIONS

Interpretations focus on the four main types of data collected during the investigation:

- temporal and spatial occurrence of surface water as seen in the surface water inventories;
- discharge measurements;
- surface water quality; and
- continuous field parameter measurements (i.e., the data sonde results).

Interpretations include trends in surface water quality, quantity, and occurrence as they relate to precipitation events, dry periods, evapotranspiration, watershed geology, and biochemical activity.

4.1 Occurrence

Ten surface water inventories have been performed thus far. Although some of the surveys extended more than 1 month, surveys were mainly performed during the months of March, June, September, and December. The first four inventories had a more comprehensive methodology and larger geographic scope than the six most recent surveys. However, the primary observation, documenting the occurrence of flowing water, was consistent for all surveys. Inventory results can be compared to evaluate the seasonal and spatial distribution of flowing reaches (at a minimum). Observations during surface water sampling events (and sonde data) can be combined with inventory observations to assess the presence or absence of water between inventories.

4.1.1 Perennial Water Occurrences

Because no sondes were installed in the Queen Creek watershed, the assessment of perennial flow depended solely on surface water inventories and observations during water quality sampling events. Surface water inventories are the primary data source for identifying flowing reaches. However, observations during surface water quality sampling events (i.e., no flow or flowing) substantiate flow conditions observed during surface water inventories. Additionally, sondes (in Devils Canyon) were installed such that conductivity probes would go dry (with the exception of sonde station DC7.1E) during periods of little or no flow. Zero conductivity readings suggest no surface flow. The following summarizes perennial springs and flowing reaches for each major geographic area.

Devils Canyon

Perennial reaches for Devils Canyon between channel stations 14.70 and 5.44 include the following intervals:

- station 9.14 to 7.53 (total flowing length = 1.61 kilometers [km]), and
- station 6.10 to 5.44 (total flowing length = 0.66 km).

The cumulative perennial flowing reaches for Devils Canyon between channel stations 14.70 and 5.44 is 2.27 km. The lower section of Devils Canyon (station 5.44 down to the confluence with Mineral Creek [i.e., station 0.00]) had several short perennial reaches associated with bedrock channel reaches and adjacent springs. Due to problems in converting coordinates to stationing, inconsistent surveying techniques, and minimal surveying in this area, exact stationing cannot be provided. However, based on Golder's experience in the canyon, the cumulative extent of perennially flowing reaches is approximately 200 meters (m).

Numerous perennial springs exist in the Devils Canyon watershed. The breadth of the canyon, scale of the Study Area, and rugged nature of the terrain made a comprehensive survey during initial site reconnaissance difficult; additional springs were being discovered during the second and third surveys. These issues also made it difficult to classify springs as perennial or not. However, springs or spring clusters that were identified as flowing during all surveys include:

- Spring cluster (as many as five springs identified) between Rancho Rio and Hackberry Canyon (stationing 8.9 to 8.3). The larger springs in the cluster occur on west side of canyon near the canyon floor.
- Spring cluster immediately below Hackberry Canyon on west side of Devils Canyon. Includes largest spring identified in canyon (DC8.2W – water sampling station).
- Spring in tributary on west side of canyon (T6.6W water sampling station).
- Spring adjacent to lowermost Crater Tanks pool (DC6.12E).
- Spring immediately below lowermost Crater Tanks pool (DC6.1E).
- Long seep/spring face with abundant vegetation high on slope (DC5.0E).
- Hanging garden on east side of canyon (DC4.1E-former sampling station).
- Hanging garden on east side of canyon (DC3.7E).

With the exception of DCT6.6W, no perennial springs were identified in any of the Devils Canyon tributaries. However, perennial pools and springs/seeps (present for all but one of the 10 surveys) were identified in both Rancho Rio Creek and Hackberry Canyon.

All perennial springs in Devils Canyon emanate from the west bank above the Crater Tanks and from the east bank below the Crater Tanks.

Queen Creek

With the exception of one approximately 40-m long reach associated with Pump Station Spring, no perennial reaches were identified in the Queen Creek watershed. Perennial springs and reaches along the main channel of Queen Creek between stations 30.72 and 21.80 include:

- Pump Station Spring (30.72 to 30.68, total flowing length = 40 m).
- Eddies Spring.
- Boulder Hole Spring.
- WWTP and Perlite Pit Dewatering outfall discharge (17.39 [confluence with WWTP side drainage] to 15.55). Although this perennial reach is heavily influenced by discharge from the WWTP and Perlite Mine, the presence of large cottonwood and willow trees, and the historical old Pinal townsite suggest that perennial water may have existed in this location prior to discharge from these facilities.

Apache Leap

Perennial water along the Apache Leap escarpment includes:

- Bored Spring,
- Hidden Spring, and
- Kane Spring.

No perennial reaches were identified along the Apache Leap.

Arnett Creek

Perennial reaches along Arnett Creek include:

• stationing 4.53 to 4.49 (total flowing reach = 40 m), and

• Stationing 4.84 to 4.82 (total flowing reach = 20 m).

Based on four surveys, the cumulative length of perennial flowing reaches for Arnett Canyon is 60 m. The minimum cumulative length of flowing reaches for an individual survey event is 230 m. This discrepancy is due to changing spatial coverage of flowing reaches between surveys resulting in very limited reaches that had perennial flowing water during all four surveys.

No perennial springs were identified along Arnett Creek. However, a pool located at station 4.0 had flow during three of the four surveys and could be classified as a spring.

Telegraph (sub-reach of Arnett)

Perennial water in Telegraph Canyon includes:

- Trough Spring (no flow but permanent water in stilling well),
- stations 1.03 to 1.00 (total flowing reach = 30 m), and
- stations 0.84 to 0.52 (total flowing reach = 320 m).

Based on four surveys, the cumulative length of perennial flowing reaches for Telegraph Canyon is 350 m. The minimum cumulative length of flowing reaches for an individual survey event is also 230 m. The location of flowing reaches was consistent between surveys in Telegraph Canyon.

4.1.2 Seasonal Effects on Spatial Distribution of Flowing Reaches

When comparing all of the surface water inventories, significant changes were observed in the spatial distribution of the flowing reaches. Figures 7, 8, and 9 depict the location of flowing reaches and the extent of the inventories. Figure 10 depicts the flowing reaches along a channel profile for all inventories performed in Devils Canyon. Table 4 summarizes the cumulative length of flowing reaches for the main drainages surveyed during the 10 inventories. The following discussion summarizes observations in seasonal trends.

Devils Canyon

In Devils Canyon, the shortest cumulative length of flowing reaches generally was in the June inventories with a range of 2.72 to 5.76 km flowing. The longest cumulative length of flowing reaches was in the March inventories when all of Devils Canyon was flowing. The cumulative length of flowing reaches for the December inventories was generally between the low-flow periods (June and September) and the high-flow period (March).

Inventoried tributaries to Devils Canyon have a similar pattern of cumulative flowing reach lengths as Devils Canyon. That is, mostly to completely flowing during the spring (March), minimum flowing reach lengths during June and September, and intermediate flowing reach lengths during late fall surveys (December).

Queen Creek

In Queen Creek, the cumulative length of flowing reaches (between stations 30.72 and 21.80 km) was at a minimum (0.03 km) during the first three inventories (November 2002, June 2003, and September 2003). This is not consistent with the Devils Canyon observations where the June and September 2003 had significant cumulative flowing reach lengths. This suggest that precipitation can be very localized, resulting in very different discharge patterns between adjacent drainages. As with Devils Canyon, Queen Creek had the maximum cumulative flowing reaches during the March inventories. During the March 2005 inventory, Queen Creek was flowing for the entire surveyed reach (8.92 km). June and September surveys had the shortest cumulative flowing reaches, with September consistently having the minimum cumulative length of flowing reaches.

In lower Queen Creek (Town of Superior to Whitlow Ranch Flood Retention Basin), the only significant flowing reach starts at the Superior WWTP, which is located on a tributary to Queen Creek. The cumulative length of flowing reaches along lower Queen Creek were the shortest (1.84 km) during both the June and September 2003 surveys, longer during the November 2002 survey (2.41 km), and the longest during the March 2004 survey (2.88 km). This pattern of short flowing reaches during the warm month surveys (i.e., June and September); intermediate flowing reach lengths during November; and longest during the late winter/early fall is consistent with the general patterns seen in Devils Canyon and upper Queen Creek.

Arnett Creek and Telegraph Canyon

The pattern of the shortest cumulative flowing reach lengths during the warm months (June and September), intermediate lengths during November, and the longest during March is consistent with the general trends observed in Devils Canyon and Queen Creek.

4.2 Quantity

Discharge (i.e., quantity) was measured during the sampling events and the results are presented in Tables 5a and 5b (Devils Canyon and Queen Creek, respectively). Appendix B contains sample station hydrographs and Devils Canyon rating curves (stage/discharge relationship). The rating curves need more intermediate discharge measurements to develop a usable curve for estimating

flows from stage measurements. For the purpose of this discussion, baseflow is defined as the minimum flow measured at a sampling station. Losses due to subflow and evapotranspiration are not included in the baseflow estimate. An assessment of the baseflow, floodflows, variability, and seasonal trends for each primary watershed or geographic area are summarized in the following subsections.

4.2.1 Devils Canyon

Discharge measurements taken at sampling stations during sampling events ranged from 0 (no discharge) to approximately 33,000 gallons per minute (gpm). Baseflow for both perennial reaches identified in Devils Canyon was approximately 10 to 20 gpm. Seasonal trends (observed in both the discharge measurements and stage readings from the data sondes) indicate that high-flow events typically occur during the winter/early spring (December through March). Low-flow events occur during the summer (June through August), and intermediate flows occur during the fall and spring. Stage data from sondes indicate that flow in the main channel of Devils Canyon responds differently to storm type. Flow due to monsoon storms causes short duration, sporadic high discharge events, whereas winter storms cause large discharge events, followed by long moderate flow events. The maximum stage reading obtained for the entire period of record in Devils Canyon (for all sonde stations) was 140 inches (approximately 11.5 feet) recorded by the upper transducer at station DC7.1C. The accuracy of the transducer readings was field-verified (at all locations during one sampling event) by measuring the height of flood debris above the transducers. Flood debris heights were consistent with the transducer readings, indicating that the transducers were working correctly.

4.2.2 Queen Creek

Discharge measurements taken at sampling stations during sampling events ranged from 0 (no discharge) to approximately 100 gpm. Only one perennial flowing reach of Queen Creek was sampled (Pump Station Spring). The baseflow at this location was approximately 1 to 3 gpm, with low-flow measurements averaging 3 gpm. Seasonal trends (observed in the sample event discharge measurements, as there are no data sondes in this drainage) were consistent with the Devils Canyon observations. That is, high flows typically occur during the late winter/early spring (February/March). Low-flow events occur during the summer (June through August), and intermediate flow events occur during the fall and late spring.

4.2.3 Apache Leap

Discharge measurements taken at sampling stations during sampling events ranged from 0 (no discharge) to approximately 7 gpm. With the exception of Kane and Blue Springs, all of the

Apache Leap sampling stations are springs with very little to no potential for surface flow contribution. Consequently, there is very little variation in discharge at these sampling stations. The highest discharge measured was at Blue Springs, likely due to surface- or near-surface flow inputs.

4.3 Surface Water Quality

Quarterly surface water quality results and continuous field parameter data (as measured by sondes) are interpreted individually in the subsections below. The primary goal of the water quality sampling was to characterize baseline conditions and evaluate the results with respect to surface water quality standards for the applicable designated uses as defined in the AAC. The primary goal of the data sondes was to collect field parameters and stage readings (for possible rating curve development) between sampling events.

4.3.1 Surface Water Quality Sampling Results

Water quality results were compared to surface water quality standards for designated uses obtained from the AAC to evaluate whether any standards were exceeded. Comparison to the standards indicated exceedances (or out of acceptable range) of the following parameters:

- pH (3 in Devils Canyon watershed),
- Total Suspended Solids (TSS) (1 in Queen Creek watershed),
- DO (24 in Devils Canyon watershed and 27 in Queen Creek watershed),
- E. Coli (4 in Devils Canyon watershed and 6 in Queen Creek watershed),
- Cu (14 in Devils Canyon watershed and 1 in Queen Creek watershed), and
- Se (1 in Queen Creek watershed).

Tables 10 and 11 summarize the history of exceedances and designated uses for Devils Canyon and Queen Creek, respectively. The majority of exceedances are for the Aquatic and Wildlife warm water (acute and chronic) standards. To evaluate temporal and spatial trends of the exceeded constituents (with the exception of Se, pH, and TSS), comparative descriptive statistics (i.e., box and whisker plots) were prepared for all sampling stations and are included in Appendix D. In addition, to evaluate temporal trends at individual sampling stations, time series plots of the concentrations of Cu, E. Coli., and DO were graphed and are included in Appendix D. Aquatic and Wildlife (warm water) designated use standards for Cu (chronic and acute) vary according to sample hardness, and are graphed on the time series plots as lines along with Cu concentration for each site. Standards for E.

Coli and DO were also included on the time series plots but do not vary based on hardness. Because the dissolved fraction of Cu was responsible for the majority of the copper exceedances, all plots and statistical evaluation of Cu are performed for the dissolved fraction.

The results of the comparative statistics and time series are discussed below according to watershed and sample station.

Devils Canyon

Patterns in the water quality results become clearer when considering the origin of the water (i.e., groundwater or surface water) being analyzed. Flow regimes and associated sampling stations in Devils Canyon can be summarized as follows:

- Runoff Flow Flow is derived from surface flow to near-surface flow. This occurs at intermittent flowing sampling stations DC15.2C, DC13.5, and DC10.9C.
- *Spring Flow* Flow is derived from groundwater with little or no surface flow inputs DC8.2W, DCT6.6W, DC6.1E, and DC4.1E
- *Mixed Flow* Flow is derived from combination of groundwater (i.e., "spring flow") and surface to near-surface water flow (i.e., "runoff flow"). This occurs at perennial flowing stations DC8.8C and DC5.5C. Although not perennially flowing, DC7.1C is grouped with these stations due to the inputs of spring flow at this station.

The following is a brief geochemical assessment of Devils Canyon.

Dissolved Copper

The comparative descriptive statistics (i.e., box and whisker plots) indicate a general decrease in mean and median dissolved Cu concentrations with distance downstream, suggesting some degree of spatial control on this constituent (Figure 12); Appendix D contains a descriptive key for the box and whisker plots). The highest median and mean Cu concentrations, and the widest range in Cu concentrations, are from sampling stations located along runoff flow reaches (presumably surface- or near-surface flow dominated) in the upper portion of the watershed. Results from mixed flow sampling stations (DC8.8C, DC7.1C, and DC5.5C) have similar average copper concentrations (3.5 to 3.9 micrograms per liter) and similar copper concentration ranges. Most spring flow sampling stations (no surface water addition – DC8.2W, DCT6.6W, and DC4.1E) have the lowest mean and median Cu concentrations and smallest range in concentrations. These results suggest that Cu is

controlled by surface processes, such as airfall from nearby smelters or unidentified surface mineralization upstream of the sampling stations.

Time series from runoff flow sampling stations in the upper Devils Canyon watershed indicate that dissolved Cu concentrations were highest and most variable at these locations. All of the runoff flow sampling stations had elevated concentrations during the February 2005 sampling event. This high concentration in February 2005 was also noted at mixed flow stations (with the exception of the farthest downstream mixed flow station: DC5.5C). Copper concentration time series for spring flow sampling stations (stations with little or no surface water input) had consistently lower Cu concentrations than the other locations, in agreement with the corresponding box and whisker plots.

Dissolved Oxygen

Trends observed in the box and whisker plots indicate that springs with sample collection stations at, or near, the point at which water surfaces (DC8.2W and DC4.1E) have lowest median DO concentrations and the lowest range of concentrations. The low concentrations at these springs suggest little or no interaction between spring waters and the atmosphere prior to surfacing. The lowest mean DO concentration in Devils Canyon occurs at DCT6.6W, a spring that has abundant cattle grazing activity and likely increased microbial respiration during low sunlight conditions. Results from spring DC6.1E displayed a relatively high median and a wide range of concentrations. This is likely due to the sample collection station being at the base of a free-falling, dripping spring that causes sample aeration and increased DO. Runoff sampling stations also had high median DO concentrations and relatively large ranges in DO concentration values. The large range of values may correlate with the large range in flow measured at these stations. In general, high flows have high DO due to turbulence/aeration, and low flows correspond to low DO concentrations and microbial respiration.

Time series of the runoff flow and mixed flow reaches (all locations in the main stem of the canyon) indicate a general trend of high DO concentrations during the winter months and low DO concentrations during the summer months. This trend suggests that high winter flows may produce enough turbulence to aerate the water and may decrease the residence time of fresh water in otherwise stagnant pools, resulting in high DO levels. Additionally, cold water can hold more DO. During the summer months, low flows, higher biochemical activity, warm water, and early sampling times result in low DO levels. Devils Canyon stations are typically sampled early (before sunlight has triggered photosynthesis) to avoid mid-day summer heat. With the exception of DCT6.6W (which receives some surface flow during wet periods) spring flow sampling stations generally show no temporal

trends and little variation in DO levels.. DCT6.6W shows the same general trend of low levels during summer months and high levels during winter months.

E. Coli

Box and whisker plots of E. Coli levels by station in Devils Canyon indicate that mean E. Coli levels are highest at DC10.9C, a sampling station located in a cattle grazing area. E. Coli numbers are negligible at all stations below station DC8.8C and, interestingly, above station DC13.5C. No trends were noted in the time series plots for E. Coli, indicating a primarily spatial control on this constituent.

Queen Creek

The following is a brief geochemical assessment of Queen Creek.

Dissolved Copper

Box and whisker plots of dissolved Cu concentrations by station in Queen Creek do not show significant differences between springs. For the most part, Cu concentrations are consistent throughout the entire basin. The one notable exception to this is Bored Spring, which was the only spring to exceed the Cu standard for the Aquatic and Wildlife warm water (acute and chronic) designated uses. While the geology and degree of development at Bored Spring differs from other springs in the area, the differences are not considered significant, and there is no obvious reason for the difference in distribution between station Cu levels and Cu levels throughout the rest of the basin.

Time series graphs of dissolved Cu concentrations for Queen Creek stations show no discernible trends, in agreement with the corresponding box and whisker plots (Appendix D).

Dissolved Oxygen

Box and whisker plots indicate considerably more variation in DO levels between springs in the Queen Creek basin relative to Devils Canyon, but these differences do not correlate to any particular differences in physical or geologic characteristics between springs. In sum, the Queen Creek basin box and whisker plots do not suggest a spatial control on this parameter.

Time series plots of DO concentrations in Queen Creek infer some difference between levels measured during sampling events in warmer months and those in winter and spring. Springs in the Queen Creek basin show no appreciable response to precipitation and they do not flood in response to high winter flows, so aeration due to turbulence and inputs of fresh water recently in equilibrium with

the atmosphere are not plausible explanations for higher DO levels. As in Devils Canyon, Queen Creek basin stations are typically sampled early in the morning during the warmer months (before sunlight has triggered photosynthesis) to avoid mid-day summer heat. The relationship between sampling times and the diurnal fluctuation in photosynthesis/respiration are possible explanations for these differences.

E. Coli

The box and whisker plots indicate that mean E. Coli levels are highest at Hidden Springs, the sampling station with the highest visible animal activity (javelina wallows and javelina sign). This suggests that animal waste may cause elevated E. Coli levels at this location. The lowest mean E. Coli levels are from Bored Spring. This suggests that the elevated cattle trough encasing this spring (no grazing was noted during the program) may not allow for animal fecal matter to have an impact on water quality, probably because no surface water or animal bathing (besides birds) occurs at this location. No trends were noted in the time series plots for E. Coli.

4.3.2 Data Sonde Results

The data sondes provide continuous hourly readings at five stations in Devils Canyon and at the largest spring in Devils Canyon upstream of the Crater Tanks" These continuous data reveal trends that cannot be determined from discrete measurements of field parameters during quarterly sampling events (including the presence or absence of water). Trends detected in the continuous sonde data include, but are not limited to, diurnal fluctuations, responses to precipitation, and responses to dry periods between precipitation. To more accurately reflect variations in dissolved constituents, and to allow for easier comparison between sondes, conductivity measurements were corrected for temperature (converted to specific conductivity). Monthly graphs are included in Appendix F. A summary of the period of record, active sensors, and background pressure adjustments is included in Table 12.

Temperature effects on the sonde electronics may have a significant impact on final readings. Unraveling the influence of temperature is difficult because the diurnal signals of biochemical activity and evapotranspiration follow approximately the same frequency as changes in temperature. Consequently, it becomes difficult to discern whether or not the diurnal changes are a result of temperature fluctuations, or are truly due to changes in physical and chemical conditions. The sonde manufacturer claims the sondes are corrected for drift in temperature. However, given the hot conditions the sondes are exposed to, it is possible that the temperature compensation is not adequate for their application in Devils Canyon. Mineral and biological fouling of the sensors may also result

in inaccurate data by affecting the accuracy of the pH and conductivity measurements. The amount of fouling at each station is dependent upon site-specific water quality. Interpretations for each station (summarized in order from upstream stations to downstream stations - Appendix F) assume that sonde readings are not affected by temperature or sensor fouling.

General Data Sonde Observations and Interpretations

Table 12 summarizes graphically inspected data collected by the sondes.

Diurnal Fluctuations

Diurnal fluctuations in pH, SC, and depth were observed at all stations. Diurnal fluctuations in pH and SC were interpreted as being a result of biochemical activity (i.e., photosynthesis and microbial respiration). Biochemical activity changes the partial pressure of carbon dioxide (Pco₂), which affects the carbonic acid concentration (H₂CO₃). The result is fluctuating pH and SC. High pH and low SC were typically observed around 2:00 PM, consistent with high sunlight conditions and corresponding high photosynthetic activity. Water depths were typically at a minimum during the warmest part of the day, suggesting evapotranspiration was controlling the depth fluctuations.

Diurnal seasonal trends in pH, SC, and depth indicate that summer months have larger fluctuations than winter months. This trend indicates that increasing sunlight and temperatures result in increased diurnal fluctuations, which is consistent with anticipated results.

Effects of Flow Regimes on Diurnal Fluctuations

Flow regimes greatly affect diurnal fluctuations. Station DC8.2W is dominated by spring flow and exhibited the smallest diurnal fluctuations in pH, SC, and depth observed in the canyon. This trend indicates that water leaving the spring has a short contact period with biological media, hence limiting diurnal pH, SC, and water depth fluctuations.

Flow regimes dominated by runoff had the largest diurnal fluctuations in SC and moderate depth diurnal fluctuation. The large diurnal fluctuations in SC may indicate that the low flow to near-stagnant conditions at these stations (DC13.5C and DC10.9C) allow extended contact with biological media, resulting in large diurnal swings in SC. This is not the case at spring flow stations like DC8.2W. In comparison to mixed flow stations, moderate diurnal fluctuations in depth at runoff flow stations are likely due to less plant transpiration as a result of reduced riparian vegetation.

Mixed flow stations (DC8.8C, DC7.1C, and DC5.5C) had the largest diurnal depth fluctuations, intermediate SC fluctuations, and pH fluctuations greater than spring flow stations. Large depth

variations are interpreted to result from the abundant transpiration of the thick riparian vegetation associated with these stations. The pH is elevated relative to the spring flow station (the only other flow regime monitored) due to greater contact time with biochemically active media.

Drought and Flood Effects

Periods of drought result in elevated SC at all locations due to evapoconcentration of dissolved constituents. This trend is especially evident at stations dominated by runoff flow. At these stations, the SC steadily climbs until the station reaches a minimum water depth or goes dry. At mixed flow stations, the drought conditions result in a steady increase in SC until surface water inputs have ceased and the SC reflects the typically higher SC groundwater. In addition to elevated SC, mixed flow stations with pH sensors indicate that pH increases during drought cycles. This is likely due to evapoconcentration and a corresponding increase in alkalinity.

There are three primary responses to floodflows. These include:

- First Flushes Elevated SC and pH when floodflows are proceeded by drought/low runoff conditions,
- Continued Flooding Decreased SC and pH when floodflows are proceeded by wet conditions/high flows, and
- Diminished Diurnal Fluctuations decrease in pH and SC diurnal fluctuations during all high flow events.

Responses to first flushes are evident at all sonde stations (regardless of flow regime). The elevated SC during these events are likely due to pulses of either organic acids (i.e., tree tannins) or dissolved mineral salts. The elevated pH noted during first-flush events would suggest that dissolved mineral salts (which may increase alkalinity) are the primary contributor to elevated SC. If organic acids were the primary contributor, the pH would likely decrease.

Continued surface runoff events result in decreased SC and pH at all sonde stations (with the exception of DC8.2W, which is typically not exposed to surface water runoff). Once the basin has been flushed of soluble surface/near-surface constituents, surface runoff becomes dominated by the pH and SC of rainwater, which is comparatively low.

Typically, during high-flow events, diurnal fluctuations in SC and pH are diminished. This suggests that pH and SC changes induced by biochemical demand are diluted/masked by high flows.

Data Ranges (Sonde Versus Instantaneous Field Measurements)

Ranges in sonde measurements were compared to ranges in instantaneous field measurements (i.e., pH and SC) to assess the degree at which the water quality samples were representative of the range of conditions at the individual sonde stations. All instantaneous field parameter measurements were within the range of observed sonde measurements with the exception of one high SC reading taken at sampling station DC5.5C. This reading of 2,061 microSiemens per centimeter was approximately 3 times greater than the highest concentration recorded by the data sonde and was considered an outlier. Instantaneous measurements of SC indicate that the high SC measurements associated with first-flush events recorded by the sondes were not sampled.

4.3.3 Devils Canyon Conceptual Model

The following is a conceptual model of the Devils Canyon surface water hydrology. This section is organized into the following sections:

- Precipitation/Evaporation,
- Occurrence,
- Discharge, and
- Water Quality.

Precipitation/Evaporation

Long-term precipitation records (85 years) collected at the West Plant Site indicate an average annual precipitation of approximately 18 inches (Figure 13). Extreme precipitation years occurred in 1979 and 1992 when rainfall amounts exceeded 35 inches. The last 10 years have been a drought cycle, with 9 out of 10 years having below-average precipitation. In 2002, when the surface water inventories were initiated, the lowest annual precipitation over the period of record of approximately 5 inches was recorded. This was approximately twice as dry as the next driest year in the 85-year period of record. Consequently, the baseline resource study has been conducted during the most significant drought cycle on record.

Hourly precipitation and evaporation data were collected at weather station KC-1, located at Shaft No. 9, near the Oak Flat Forest Service campground (Figure 14). These data are useful when reviewing the seasonal/temporal distribution of flowing reaches in Devils Canyon. As anticipated, these data, when coupled with cumulative flowing reach data (Table 4) and the Devils Canyon Channel Profile (Figure 10), indicate a strong correlation between high evaporation rates and low

rainfall with decreased occurrences of flowing reaches. And, in contrast, high precipitation rates with low evaporation rates strongly correlate with increase occurrences of flowing reaches.

Occurrence

The majority of Devils Canyon has intermittent flow conditions. Two perennial reaches of significant length exist. The uppermost and longest reach starts immediately below the confluence with Rancho Rio Canyon and continues for approximately 1.6 km (Figure 10). The second perennial reach starts at springs located at the base of the Crater Tanks waterfalls area and extends approximately 0.7 km down to the confluence of the largest side canyon coming from the east. Three additional small perennial reaches associated with springs DC5.0E, DC4.1E, and DC3.7E are located below the 0.7 km reach (immediately below the Crater Tanks). These reaches are approximately 50 to 100 m each (approximately 200 m of additional perennial reaches).

Although the cumulative perennial flowing reaches between stations 14.70 (US60 bridge) and 6.14 (top of first Crater Tanks waterfalls) is 1.6 km (the uppermost reach is in this section), the minimum cumulative flowing reach calculated from 10 surface water inventories was 2.72 km. This indicates that though some reaches are always flowing (perennial), other intermittent reaches always exist but their locations move around. The locations of these intermittent reaches are likely due to responses to uneven precipitation patterns within the watershed.

Numerous springs and seeps occur along a 5.5-km reach of Devils Canyon from the confluence with Rancho Rio Canyon to approximately 2.4 km downstream from the Crater Tanks. The springs emanate along the banks of Devils Canyon or within side canyons near the confluence with Devils Canyon. Maximum observed flows range from 12 to less than 1 gpm. Above the Crater Tanks, all substantial springs emanate from the west bank of the canyon. Below the Crater Tanks, all substantial springs emanate from the east bank of the canyon. These relations suggest that the recharge zone for the springs above the Crater Tanks is from the uplands on the west side of the canyon, and the recharge zone for the springs below the Crater Tanks is from the uplands on the east side of the canyon.

The largest concentration of springs occurs above Crater Tanks between Rancho Rio Canyon and Oak Creek. Locations of these springs appear to be largely controlled by geologic structures within the Apache Leap Tuff. Below the Crater Tanks, the presence of several springs and a flowing stream reach starting at the base of the Crater Tanks is believed to be due to outcropping of the poorly permeable Whitetail Conglomerate beneath the tuff in this area. These springs emanate from a devitrified megaspheroid zone ("the bowling ball unit") that occurs above a vitrophyre obsidian unit

near the base of the Apache Leap Tuff. Several hanging-garden springs located along the lower sections of the canyon (DC4.1E and DC3.7E) emanate from a series of sub-parallel fractures/joints in the Apache Leap Tuff. Flow from these springs is believed to result from recharge of these fractures/joints by periodic surface flow in Rawhide Canyon, which is perched approximately 500 feet above Devils Canyon to the east.

Discharge

Discharge was highest during the months of January, February, and March, with creek stages recorded as large as 145 inches during flood events. Floodflow calculations indicated that a 10-foot stage at station DC7.1C has a flow rate of 1,650 cubic feet per second and a return period of 5 to 10 years (Golder, 2003b). Minimum flows occur before the summer rains (typically July and August). The summer rains typically produce moderate high flows of short duration. Intermediate flows typically occur between the wet and dry seasons (i.e., May/June and October/November). Baseflow during the dry periods in the perennial reach are approximately 10 to 20 gpm.

Water Quality

Water quality from the intermittent reach sampling stations (runoff flow) was significantly different than baseflow water quality from perennial reaches (mixed flow) or spring flow sampling stations.

Water quality classifications based on the major anion and cation normalities from the first two sampling events (May and August 2003) indicate that there are two general water types supplying surface flow to Devils Canyon. These include:

- calcium sodium bicarbonate water (stations supplied by baseflow/spring flow [DC8.8C, DC8.2W, DC7.1C, and DCT6.6W, and DC4.1E]); and
- mixed waters (approximately equal major anion and cation normalities) stations supplied by surface or near-surface flow include stations DC10.9C and DC13.5C.

A Tri-linear Piper plot of water quality results from high- and low-flow sampling events (February 2005 and November 2004, respectively) and deep and shallow Apache Leap Tuff groundwater samples (from Wells HRES-2, 3, 4 and 5) was plotted to graphically represent water types and mixing relationships (Figure 11).

Deep groundwater from the Apache Leap formation plots distinctly, as a sodium-bicarbonate/sodium-carbonate type. These deep groundwater points plot in contrast with those that represent

shallow Apache Leap groundwater, a calcium-sodium-bicarbonate type, suggesting that the two represent different systems and are not hydraulically connected.

Samples from those stations that experience perennial flow (mixed flow stations - predominantly calcium-sodium-bicarbonate types) are grouped with shallow groundwater samples, suggesting that flow in the perennial reaches of Devils Canyon is supplemented by shallow groundwater from the Apache Leap formation in drier times of the year.

Samples collected during periods of relatively higher surface flow plot closer to the sulfate apex of the diagram, indicating a higher sulfate input with increased contribution from runoff.

Constituents or water quality parameters with standards that were exceeded included:

- dissolved Cu,
- pH,
- DO, and
- E. Coli.

The dissolved Cu exceedances occur at the intermittent surface flow locations (runoff stations) upstream of the perennial reaches. Because of this spatial pattern, cu may be derived from surface or near-surface sources. Potential sources include airfall emissions or unidentified mineralized zones upstream of the sampling stations. Copper exceedances at the perennial flow stations only occur during high-flow sampling events and are thought to be a result of runoff from upstream of the perennial reaches.

The pH exceedances occur exclusively at the upper intermittent sampling stations. The low pH values reflect the lack of buffering provided by the low-solubility siliceous bedrock in the watershed. Consequently, the surface water at stations DC15.2C, DC13.5C, and DC10.9C retains a pH close to rainwater, which is less than allowed by standard.

The DO exceedances occurred throughout the canyon (with the exception of DC13.5C, DC7.1C, and DC4.1E). The low DO readings are likely a result of nutrient loading caused by the decomposition of algal blooms that deplete the oxygen level in water. Springs with DO exceedances likely have low DO because spring water is not in contact with the atmosphere long enough to become oxygenated.

The E. Coli exceedances occurred at two of the three upper intermittent sampling stations (DC13.5C and DC10.9C) and the upper perennial station (DC8.8C). Cattle grazing is believed to be the primary cause of the exceedances.

5.0 RECOMMENDATIONS

The surface water monitoring program, technical aspects, quality assurance/quality control (QA/QC) measures, and training activities need to be adjusted as the program evolves. Overall program recommendations with respect to the upcoming pre-feasibility study are discussed in Section 5.1. Detailed recommendations for continuing the existing program are presented in Sections 5.2 through 5.4 with respect to data collection, data management, and additional data reduction.

5.1 Program-level Recommendations

Golder understands that RCC will soon fix at least two mine concepts for the pre-feasibility study: a brownfields concept and a greenfields concept. The brownfields concept is likely to include the mill at the Pinto Valley Mine and tailings disposal at the open pit and perhaps a nearby basin (e.g., Ruin Basin). The greenfields concept is likely to include the mill at the West Plant Site with tailings disposal in a nearby basin (e.g., Silver King/Whitford Basin). Furthermore, we understand that the new water treatment plant at the West Plant Site will discharge to Queen Creek in the near future.

Golder recommends that baseline surface water characterization be conducted in any new basins used in the mine concepts in the pre-feasibility study. We suggest the characterization be similar to that for Devils Canyon and include inventories for occurrence, flow measurements, and water quality sampling. The deployment of data sondes could be coupled with inventories as in Devils Canyon to assess the flow regimes. Because a minimum of four quarters of sampling are required to establish baseline conditions, it is recommended that the studies begin soon.

Depending on discharge scheduling for the new treatment plant, it may be possible to collect valuable baseline data that will aid in classifying the surface flow regime (i.e., ephemeral, intermittent, or perennial), and performing comprehensive water quality sampling to identify surface water quality exceedances.

Because Devils Canyon has been comprehensively monitored during a long drought cycle, additional monitoring could be postponed until a wet cycle occurs. This would make Devils Canyon monitoring resources available for re-deployment (i.e., data sondes and effort required for monitoring) to lower Queen Creek (for the new treatment plant), or potential tailings impoundment basins (i.e., Pinto Creek or Silver King/Whitford Basin).

5.2 Detailed Recommendations for Data Collection in the Existing Program

Recommendations for the data collection are organized as follows:

- geographic scope,
- sampling frequency (including flood flow sampling),
- changes in analytical suite,
- discharge measurements,
- system maintenance,
- training, and
- audits.

5.2.1 Devils Canyon

The following summarizes data collection recommendations for the Devils Canyon watershed.

Geographic Scope

The geographic scope of the Devils Canyon monitoring program is considered appropriate and should not be changed.

Monitoring Frequency

The monitoring frequency for sampling can be reduced from quarterly to semi-annual frequency. A typical baseline investigation for an Environmental Impact Statement (EIS) requires four quarters of monitoring; consequently sufficient data exist for completing an EIS. However, because of the unique aesthetic quality (and potential biological significance) of Devils Canyon, and consequent likely scrutinizing of data collection efforts, continued monitoring is recommended, albeit at a lower frequency and intensity. Semi-annual sampling events are recommended to be performed during February and August (current sampling months), with the May and November samplings being discontinued. High flows have typically occurred during February or March, while low flows occur before major summer rain events. Consequently, the best range of flows (and the largest variations in water quality) using a semi-annual sampling frequency will occur during the selected months of February and August. In addition to the semi-annual sampling schedule, floodflow sampling of initial summer flush events at the US60 bridge should be performed to assess the high total dissolved solids water events associated with the first-flush events.

Surface water inventory events are recommended to be discontinued. We feel that sufficient data exist for the classification of intermittent and perennial reaches.

The data sondes should remain in operation. Besides the hourly field parameter and stage data, they provide valuable data regarding the presence or absence of flow. Maintenance and calibration should be performed during the semi-annual sampling events.

Analytical Suite

We recommend that the list of constituents be reduced. The new list of monitored constituents will include:

- Cu for continued monitoring of potential exceedances;
- major ions Ca, Mg, Na, K, Cl, SO₄, HCO₃ (for quality control); and major oxide/hydroxide formers Fe, Mn, and Al (for transport assessment);
- physical properties (alkalinity and hardness) for calculation of hardness-dependent standards; and
- field parameters, including pH, DO, turbidity, and SC for continued monitoring
 of potential exceedances, basic water quality profiling, and comparison to data
 sonde results.

Copper analysis will include total and dissolved fractions. A lower practical quantitation limit (PQL) should be requested for cu to ensure adequacy for comparison to standards. In addition to the aforementioned constituent list, the constituents with PQLs that are insufficient for comparison to standards (Table 10) should be analyzed for 1 year (i.e., two semi-annual sampling events) to perform an adequate comparison to standards. These constituents include Pb, Hg, Se, and sulfide.

Discharge Measurements

Discharge measurements should be collected during sampling events as previously performed. However, intermediate- to high-flow discharge measurements need to be obtained to adequately build a rating curve. Consequently, discharge-specific trips are recommended to obtain this data. Winter and spring time flows are likely the best time to get this data due to the extended moderate flows that occur during this time of the year.

System Maintenance

We recommend that all the pH and conductivity sensors on the data sondes be replaced as needed. Steel strapping used to affix the sondes to the channel has been damaged at several locations and requires repair before the sondes are lost to flood (i.e., DC5.5C and DC7.1C). We recommend removing the flume and sonde located at sampling station DC8.2W due to the lack of water flowing

through the system (e.g., water rerouted around flume in such away that it cannot be routed back through the flume).

Training

Data sonde operation needs to be clearly explained and reviewed with RCC staff to ensure proper calibration and maintenance. In addition, pygmy meter (used for discharge measurements) training may be required for new RCC staff.

Audit

Audits should be performed at an annual frequency to ensure proper and consistent field methodologies.

5.2.2 Queen Creek/Apache Leap

The following summarizes data collection recommendations for the Queen Creek watershed (including the Apache Leap).

Geographic Scope

The geographic scope of upper Queen Creek (Pump Station Spring down to Concentrator Fault) and Apache Leap Area monitoring program is considered appropriate and should not be changed. Additional sampling stations are recommended along lower Queen Creek to characterize baseline conditions prior to, and after, the new water treatment plant goes on line. A reconnaissance trip of lower Queen Creek should be performed to establish the new station locations.

Monitoring Frequency

The monitoring frequency for sampling can be reduced from quarterly to semi-annual. The semi-annual sampling events are recommended to be performed during February and August (current sampling months), with the May and November samplings being discontinued. This is consistent with the Devils Canyon schedule. In addition to the semi-annual sampling schedule, floodflow sampling of initial summer flush events are recommended as at Devils Canyon. Preliminary locations of sample collection points would include the upper US60 bridge (near the Oak Flat Campground turn-off), immediately above the Town of Superior, and below the effluent-dependent reach (potentially at the US60 bridge below the Boyce Thompson Arboretum).

Surface water inventory events are recommended to be continued on a semi-annual schedule (March and September) along upper Queen Creek and on a quarterly schedule (March, June,

September, and December) from the West Plant Site water treatment plant down to the Whitlow Ranch Flood Retention Basin. The higher frequency along lower Queen Creek is designed to provide a comprehensive profile of the drainage conditions before and after the water treatment plant begins operations.

Analytical Suite

For newly established sampling stations along lower Queen Creek, we recommend that the list of monitored constituents remains the same (with the exception of the elimination of total recoverable metals constituents). The total fraction can be substituted for the total recoverable because the total analysis uses a more vigorous digestion, and is therefore a conservative estimate of the total recoverable concentrations.

We recommend that the list of monitored constituents be greatly reduced for pre-existing stations. The new list of monitored constituents will include:

- Cu and Se for continued monitoring of potential exceedances;
- major ions Ca, Mg, Na, K, Cl, SO₄, HCO₃ (for quality control); and major oxide/hydroxide formers Fe, Mn, and Al (for transport assessment);
- physical properties (alkalinity and hardness) for calculation of hardness dependent standards; and
- field parameters, including pH, DO, turbidity, and SC for continued monitoring of potential exceedances, basic water quality profiling, and comparison to data sonde results.

Copper analysis will include total and dissolved fractions. Selenium analysis will include the total fraction. A PQL should be requested for copper to ensure adequacy for comparison to standards. In addition to the aforementioned constituent list, the constituents with PQLs that are insufficient for comparison to standards (Table 11) should be analyzed for 1 year (i.e., two semi-annual sampling events) to perform an adequate comparison to standards. These constituents include: Pb, Hg, and sulfide.

Discharge Measurements

Discharge measurements should be collected during sampling events as previously performed.

System Maintenance

There are no maintenance issues because no data sondes are operating in the Queen Creek watershed.

Training

As with Devils Canyon, pygmy meter (used for discharge measurements) training may be required for new RCC staff.

Audit

Audits should be performed at an annual frequency to ensure proper and consistent field methodologies.

5.3 Detailed Recommendations for Data Management in the Existing Program

Recommendations for data management are organized as follows:

- completeness checks,
- verification/validation,
- QA/QC,
- database, and
- GIS projects.

We recommend that a strict protocol of data management procedures is followed to ensure easily accessible and accurate data. To do this, we recommend data completeness checks be performed following the receipt of data (in 2003, RCC staff was trained by Golder staff to perform this function). In addition, all data must be verified as described in the QAP (Golder, 2006). Validation of one sample delivery group from each sampling event must be performed (Golder, 2006). The lab needs to be informed that EPA Level 3 reporting must be performed to allow for proper data validation (Golder, 2006).

The surface water inventory data should be compiled into one interactive GIS project to allow for easy access to data and for analysis.

We strongly recommend that all data collected is uploaded into a database. A system of unique identifiers for surface water sampling has already been established and should be continued. The unique identifiers should aid in creating the database.

5.4 Detailed Recommendations for Additional Work in the Existing Program

Recommendations for additional data reduction are organized as follows:

- watershed characterization (i.e., size, slope, etc.);
- floodflow estimates;
- documenting cause of rock staining; and
- conditions leading to Cu exceedances.

5.4.1 Watershed Characterization

The watershed size of basins, sub-basins, and areas above sampling stations should be calculated. In addition, channel gradients should be calculated. These are basic watershed characteristics that are included in all EIS type documents.

5.4.2 Floodflow Estimates

Understanding the magnitude and frequency of floodflows is relevant to understanding both ecological and geochemical processes in Devils Canyon. With respect to ecology, recruitment of trees in Devils Canyon and the resultant age stratification of some species are related to flood frequency and magnitude. With respect to geochemistry, assessing dissolved and suspended constituent flux (based on discharge and concentration) through the canyon is relevant to loading calculations. Estimates of floodflows can be made using three methods;

- HEC-RAS (U.S. Army Corps of Engineers [USACE], 2005) direct method using water levels from transducers (station DC7.1C) to back-calculate the discharge, as described in the 2003 technical memorandum (Golder, 2003b).
- HEC-HMS (USACE, 2003) indirect methods using hydrologic data such as curve numbers, time of concentration, basin area, and precipitation.
- USGS Regional Curves indirect method estimates of discharge based on basin area, elevation, location, and design storm.

5.4.3 Document Staining on Rocks

Many of the rocks in the drainages studied have a dark surface discoloration. This is typically due to manganese oxides; however, the presence of this discoloration could be misinterpreted as impacts from RCC. A simple study documenting the presence of the stained rocks and analysis of the stains (potentially micro-probe) to verify their chemical make-up may help protect RCC from frivolous claims.

<u>5.4.4</u> Conditions Leading to Copper Exceedances

Factors contributing to exceedances in Cu should be evaluated. A review of available information and a small sampling event could help identify the cause of Cu exceedances. Studies are currently underway by others (Geochemica) to assess the leachability of Cu from Apache Leap Tuff samples. In addition, existing metals data from PM10 filters from the Shaft No. 9 meteorological station may provide insight on airborne Cu. If Cu is shown to leach from the Apache Leap Tuff, the source could be natural background. If the Cu concentrations are elevated on the PM10 filters, airfall Cu from adjacent smelter activity, or tailings dust from adjacent facilities, could be responsible for the exceedances. If Cu concentrations are elevated on the PM10 filters, a sampling event that targets runoff captured in water pockets on the Apache Leap Tuff may provide supporting data. Such an assessment with existing information and limited sampling of waterpockets would be relatively inexpensive.

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TABLE 1 SURFACE WATER SAMPLING AND DATA SONDE STATIONS

Drainage/Area	Station ID/ Name	UTMx	UTMy	Approximate Elevation From Topographic Map (ft amsl)	Туре	Location	On/Off Channel	Sonde (yes/no)	If Yes, Type Sensors	Geologic Unit	Designated Uses
	DC15.2C	407.060	3,687,707	4,040	D I	description of				A la I Traff	FC, FBC, AgL, Acute A&Ww, and Chronic A&Ww
	DC13.2C	497,009	3,087,707	4,040	Reach	channel	on	no	na	Apache Leap Tuff	
	DC13.5C	496,860	3,686,136	3,900	Reach	channel	on	yes	depth, conductivity, and temperature	Apache Leap Tuff	FC, FBC, AgL, Acute A&Ww, and Chronic A&Ww
	DC10.9C	497,011	3,683,735	3,730	Reach	channel	on	ves	depth, conductivity, and temperature	Apache Leap Tuff	FC, FBC, AgL, Acute A&Ww, and Chronic A&Ww
	DC8.8C	197 111	3,681,778	3,580	Reach	channel	on	yes	depth, conductivity, pH, and temperature	Apache Leap Tuff	FC, FBC, AgL, Acute A&Ww, and Chronic A&Ww
	DC0.0C	777,777	3,001,770	3,300	Reacii	~ 1 meter above main channel on	OII	yes	depth, conductivity, pH, and	Apacile Leap Tuli	FC, FBC, AgL, Acute A&Ww,
	DC8.2W	497,540	3,681,190	3,540	Spring	west bank	off	yes	temperature	Apache Leap Tuff	and Chronic A&Ww
Devils Canyon									depth, conductivity, pH, turbidity, temperature, and two additional depth probes ~ 15 and 30 meters		FC, FBC, AgL, Acute A&Ww,
	DC7.1C	497,932	3,680,306	3,390	Reach	channel	on	yes	downstream of sonde	Apache Leap Tuff	and Chronic A&Ww
	DCT6.6W	497,458	3,679,879	3,520	Spring	~ 200 meters above Main Stem of Devils Canyon	off	no	na	Whitetail Conglomerate	A&Ww, FBC, and FC
	DC6.1E	498,130	3,679,540	3,160	Spring	Hanging Garden emanating from Apache Leap	off	no	na	Apache Leap Tuff - top of vitrophyre - devitrified spheroids	FC, FBC, AgL, Acute A&Ww, and Chronic A&Ww
	DC5.5C	498,290	3,679,170	2,960	Reach	channel	on	yes	depth, conductivity, pH, and temperature	Whitetail Conglomerate	FC, FBC, AgL, Acute A&Ww, and Chronic A&Ww
	DC4.1E	499,273	3,678,440	2,720	Spring	Hanging Garden emanating from Apache Leap	off	no	na	Apache Leap Tuff	FC, FBC, AgL, Acute A&Ww, and Chronic A&Ww
	Hidden	491,312	3,679,413	3,040	Spring	Below Apache Leap	off	no	na	Limestone	A&Ww, FBC, and FC
Apache Leap/Queen	Kane		3,678,202	3,160	Spring	Below Apache Leap	off	no	na	Limestone	A&Ww, FBC, and FC
Creek	Blue Springs	491,980	3,676,333	2,950	Spring	Arnett Creek Channel	on	no	na	Silicous Volcanics	A&Ww, FBC, and FC
Creen	Bored	491,192	3,680,961	2,880	Spring	Small drainage immediately east of AZ highway 177	off	no	na	Limestones with diabase sills/dikes	A&Ww, FBC, and FC
	Pump Station	494,104	3,688,819	4,390	Spring	channel	on	no	na	Apache Leap Tuff	A&We, PBC, and AgL
	Upper QC (QC27.3C)	494,970	3,686,239	3,950	Reach	intermittent channel	on	no	na	Apache Leap Tuff	A&We, PBC, and AgL
	Boulder Hole		3,684,549	3,060	Seep	channel	on	no	na	Apache Leap Tuff	A&We, PBC, and AgL
Queen Creek	Karst Spring (QC22.6E)	491,722	3,684,033	2,940	Spring	Solution void in limestone on east bank of creek (~3 meters from channel) - immediately upstream of old highway bridge	off	no	na	Limestone	A&We, PBC, and AgL

Notes:

ft amsl = feet above mean sea level

FC = fish consumption FBC = full-body contact

PBC = partial body contact

AgL = Agriculture Livestock watering

A&Ww = Aquatic and Wildlife (warm water) A&We = Aquatic and Wildlife (ephemeral)

ANALYTICAL SUITE

SHORT HOLD ANALYTES, PRACTICAL QUANTITATION LIMITS, AND CONTAINERIZATION AND PRESERVATION REQUIREMENTS

Name	Symbol	Туре	Lab	Volume - Container Type	Preservative	Filtered (Y/N)	Hold Time (days)	Method	Practical Quantitation Limit (in mg/L except where otherwise indicated)		
					Bottle # 1						
Nitrite (as N)	NO ₂ N	T	Del Mar	500 ml - HDPE		N	2	EPA 300.0 IC	0.1		
Nitrate (as N)	NO ₃ N	T	Del Mar	500 ml - HDPE		N	2	EPA 300.0 IC	0.1		
Nitrate + Nitrite (as N)	NO ₂ -+NO ₃ N	T	Del Mar	500 ml - HDPE		N	2	calculated	0.2		
Orthophosphate	PO_4	T	Del Mar	500 ml - HDPE		N	2	EPA 300.0 IC	0.5		
Color			Del Mar	500 ml - HDPE		N	2	SM2120, EPA 110.2	1.0 color units		
					Bottle # 2						
Coliform		T	Del Mar	125 ml - HDPE	sodium thiosulfate	N	6 hours	SM9223	Presence/Absence		
					Bottle #3						
E. Coli		T	Del Mar	125 ml - HDPE	sodium thiosulfate	N	6 hours	SM9223	Presence/Absence		
Long List Analytes Discontinued After May 2004											
Asbestos		T	Fiber Quant	1L - HDPE		N	2	EPA 100.0 TEM	N/A		

Notes: T = total

TR = total recoverable

D = dissolved

HDPE = high density polyethylene

TEM = transmission electron microscope

L = liter

ml = milliliter

N/A = not applicable

mg/L = milligrams per liter

EPA = U.S. Environmental Protection Agency

ANALYTICAL SUITE

LONG HOLD ANALYTES, PRACTICAL QUANTITATION LIMITS, AND CONTAINERIZATION AND PRESERVATION REQUIREMENTS

Name	Symbol	Туре	Lab	Volume - Container Type	Preservative	Filtration (Y/N)	Holding Time (days)	Method	Practical Quantitation Limit (mg/L)
				•	Bottle #4				
Aluminum	Al	T	SVL	500 ml - HDPE	H ₂ NO ₃	N	180	EPA 200.7 ICP-AES	0.03
Antimony	Sb	T, TR	SVL	500 ml - HDPE	H ₂ NO ₃	N	180	EPA 208.0 ICP-MS	0.003
Arsenic	As	T, TR	SVL	500 ml - HDPE	H ₂ NO ₃	N	180	EPA 208.0 ICP-MS	0.003
Beryllium	Be	T, TR	SVL	500 ml - HDPE	H ₂ NO ₃	N	180	EPA 200.7 ICP-AES	0.002
Boron	В	T	SVL	500 ml - HDPE	H ₂ NO ₃	Y	180	EPA 200.7 ICP-AES	0.04
Cadmium	Cd	T, TR	SVL	500 ml - HDPE	H_2NO_3	N	180	EPA 200 0 ICP MG	0.0001
Ch	Cr	TR	SVL	500 ml - HDPE	H ₂ NO ₃	N	180	EPA 208.0 ICP-MS EPA 200.7 ICP-AES	0.0002 0.006
Chromium (total) Cobalt	Co	T	SVL	500 ml - HDPE	H ₂ NO ₃	N N	180	EPA 200.7 ICP-AES	0.006
	Cu	T, TR	SVL	500 ml - HDPE	H ₂ NO ₃	N	180	EPA 200.7 ICP-AES	0.000
Copper Iron	Fe	T T	SVL	500 ml - HDPE	H ₂ NO ₃	N	180	EPA 200.7 ICP-AES	0.06
iron	10	1		300 III - IIDI L	1121103	11	100	EPA 200.7	0.0075
Lead	Pb	T, TR	SVL	500 ml - HDPE	H_2NO_3	N	180	EPA 208.0 ICP-MS	0.0073
Manganese	Mn	TR	SVL	500 ml - HDPE	H ₂ NO ₃	N	180	EPA 200.7 ICP-AES	0.004
Mercury	Hg	T	SVL	500 ml - HDPE	H ₂ NO ₃	N	180	EPA 245.1 CVAAS	0.0002
Molybdenum	Mo	T	SVL	500 ml - HDPE	H ₂ NO ₃	N	180	EPA 200.7 ICP-AES	0.008
Nickel	Ni	TR	SVL	500 ml - HDPE	H ₂ NO ₃	N	180	EPA 200.7 ICP-AES	0.01
Selenium	Se	T, TR	SVL	500 ml - HDPE	H ₂ NO ₃	N	180	EPA 208.0 ICP-MS	0.003
Silver	Ag	T, TR	SVL	500 ml - HDPE	H ₂ NO ₃	N	180	EPA 272.2 GF	0.0001
Thallium	Tl	T	SVL	500 ml - HDPE	H ₂ NO ₃	N	180	EPA 208.0 ICP-MS	0.002
Zinc	Zn	T, TR	SVL	500 ml - HDPE	H ₂ NO ₃	N	180	EPA 200.7 ICP-AES	0.01
Silica	SiO ₂	T	SVL	500 ml - HDPE	H ₂ NO ₃	N	180	EPA 200.7 ICP-AES	0.171
		ı		<u> </u>	Bottle #5				l .
Antimony	Sb	D	SVL	500 ml - HDPE	H ₂ NO ₃	Y	180	EPA 208.0 ICP-MS	0.003
Arsenic	As	D	SVL	500 ml - HDPE	H ₂ NO ₃	Y	180	EPA 208.0 ICP-MS	0.003
Barium	Ba	D	SVL	500 ml - HDPE	H ₂ NO ₃	Y	180	EPA 200.7 ICP-AES	0.002
Beryllium	Be	D	SVL	500 ml - HDPE	H ₂ NO ₃	Y	180	EPA 200.7 ICP-AES	0.002
	G.I	_	CX II	500 1 HDDE			100	EPA 213.2 GF	0.0001
Cadmium	Cd	D	SVL	500 ml - HDPE	H_2NO_3	Y	180	EPA 208.0 ICP-MS	0.0002
Chromium (total)	Cr	D	SVL	500 ml - HDPE	H_2NO_3	у	180	EPA 200.7 ICP-AES	0.006
Copper	Cu	D	SVL	500 ml - HDPE	H ₂ NO ₃	Y	180	EPA 200.7 ICP-AES	0.01
Y 1	DI	- D	CVII	500 1 HDDE	II NO		100	EPA 200.7	0.0075
Lead	Pb	D	SVL	500 ml - HDPE	H_2NO_3	Y	180	EPA 208.0 ICP-MS	0.003
Mercury	Hg	D	SVL	500 ml - HDPE	H ₂ NO ₃	Y	180	EPA 245.1 CVAAS	0.0002
Nickel	Ni	D	SVL	500 ml - HDPE	H_2NO_3	Y	180	EPA 200.7 ICP-AES	0.01
Silver	Ag	D	SVL	500 ml - HDPE	H_2NO_3	Y	180	EPA 272.2 GF	0.0001
Thallium	Tl	D	SVL	500 ml - HDPE	H_2NO_3	Y	180	EPA 208.0 ICP-MS	0.002
Zinc	Zn	D	SVL	500 ml - HDPE	H_2NO_3	Y	180	EPA 200.7 ICP-AES	0.01
					Bottle # 6				
Chloride	Cl	T	SVL	1,000 ml - HDPE			28	EPA 300.0 IC	0.2
Sulfate	SO_4	T	SVL	1,000 ml - HDPE			28	EPA 300.0 IC	0.3
Carbonate	CO ₃ -2	T	SVL	1,000 ml - HDPE			14	SM2320B	1
Bicarbonate	HCO ₃ -	T	SVL	1,000 ml - HDPE			14	SM2320B	1
Calcium	Ca	T	SVL	1,000 ml - HDPE			na	EPA 200.7 ICP-AES	0.04
Magnesium	Mg	T	SVL	1,000 ml - HDPE			na	EPA 200.7 ICP-AES	0.06
Potassium	K	T	SVL	1,000 ml - HDPE			na	EPA 200.7 ICP-AES	0.5
Sodium	Na	T	SVL	1,000 ml - HDPE			na	EPA 200.7 ICP-AES	0.5
Alkalinity (total)		T	SVL	1,000 ml - HDPE			na	SM2320B	1
Hardness		T	SVL	1,000 ml - HDPE			na	EPA 200.7 ICP-AES	0.35
Total suspended solids	TSS	T	SVL	1,000 ml - HDPE			7	EPA 160.2 G	5
Fluoride	F	T	SVL	1,000 ml - HDPE			28	EPA 300.0 IC	0.1
Bromide	Br	T	SVL	1,000 ml - HDPE			28	EPA 300.0 IC	0.1
Total dissolved solids	TDS	D	SVL	1,000 ml - HDPE			7	EPA 160.1 G	10
0.161	-		07.17	1000 1 *****	Bottle # 7			ED 1 05 1 1 50	T
Sulfide	S	T	SVL	1000 ml - HDPE	Zinc Acetate and NaOH	N	7	EPA 376.1 Ti	1
				Long List Ana	alytes Discontinu	ed After May	2004		
Cyanide (free)	CN	T	SVL	250 ml - HDPE	NaOH	N	14	SM4500F-CN	0.1
Cyanide (WAD)	CN	T	SVL	250 ml - HDPE	NaOH	N	14	SM4500I-CN	0.01
Gross alpha activity		T	ACZ	3,780 ml - HDPE	H ₂ NO ₃	N	180	EPA SW 9310	N/A*
Gross beta activity		T	ACZ	3,780 ml - HDPE	H ₂ NO ₃	N	180	EPA SW 9310	N/A*
		T	ACZ	3,780 ml - HDPE	H ₂ NO ₃	N	180	EPA SW 9315	N/A*
Radium 226					2	1			
Radium 226 Radium 228		T	ACZ	3,780 ml - HDPE	H_2NO_3	N	180	EPA SW 9320	N/A*

ICPOES = inductively coupled plasma optical emissions spectrometer ICPMS = inductively coupled plasma mass spectrometer CVAA = cold vapor atomic adsorption

Notes: T = total TR = total recoverable

D = dissolved

IC = ion chromatography

HDPE = high density polyethylene

Ti = titration

G = gravimetric
ml = milliliters
N/A = not applicable
mg/L = milligrams per liter

EPA = U.S. Environmental Protection Agency

*radiochemistry lower limits of detection are sample specific

CUMULATIVE REACH LENGTHS FOR SURVEYED REACHES

Survey	Cumulative Reach Lengths (km)								
	Devils Canyon -a-	Queen Creek -b-	Arnett Creek	Telegraph Canyon					
November-02	4.06	0.03	0.46	0.73					
June-03	5.26	0.03	0.78	0.35					
September-03	4.46	0.03	0.23	0.39					
March-04	8.56	4.87	4.15	1.05					
June-04	2.72	0.10							
September-04	3.13	0.04							
December-04	4.13	0.17							
March-05	8.56	8.92							
June-05	3.55	1.06							
September-05	4.00	0.30							

Notes:

June 2006

⁻⁻⁻ denotes not surveyed

^aBetween stations 14.70 and 6.14

^bBetween stations 30.72 and 21.80

TABLE 5A DEVILS CANYON DISCHARGE DATA

Sample No	Sample Date	Flow Rate (gpm)	Flow Rate (L/s)	Flow Rate (cfs)	Flow Method
RESE-1001007	21-May-03	none taken	none taken	none taken	N/A
RESE-1001019 RESE-1001040	26-Aug-03 11-Nov-03	none taken	none taken	none taken	N/A N/A
RESE-1001040 RESE-1001058	11-Nov-03 10-Feb-04	none taken 1.50	none taken 0.09	none taken 0.00	observe/estimate
DEGE 1001020	10.14 00	21.60	DC5.5C	0.05	
RESE-1001039 RESE-1001067	10-Nov-03 25-Feb-04	21.60 507.14	1.36 32.00	0.05 1.13	cutthroat flume pygmy meter
RESE-1001076	20-May-04	11.3	0.71	0.03	cutthroat flume
RESE-1001158	23-Aug-04	9.00	0.57	0.02	cutthroat flume
RESE-1001176 RESE-1001198	18-Nov-04 28-Feb-05	60.80 10492.94	3.84 662.10	0.14 23.38	cutthroat flume pygmy meter
RESE-1001138	24-May-05	17.60	1.11	0.04	cutthroat flume
RESE-1001229	23-Aug-05	39.70	2.51	0.09	cutthroat flume
DESE 1001077	20 May 04	2	DC6.1E	0.00	ah samua/astimata
RESE-1001077 RESE-1001159	20-May-04 23-Aug-04	0.80	0.13	0.00	observe/estimate bucket/stopwatch
RESE-1001177	18-Nov-04	2.00	0.13	0.00	observe/estimate
RESE-1001199	28-Feb-05	none taken	none taken	none taken	observe
RESE-1001217 RESE-1001231	24-May-05 23-Aug-05	0.50 none taken	0.03 none taken	0.00 none taken	observe/estimate N/A
RESE-1001231	23-Aug-03	none taken	DC T6.6W	none taken	IVA
RESE-1001010	29-May-03	0.50	0.03	0.00	NR
RESE-1001033	04-Nov-03	1.50	0.09	0.00	observe/estimate
RESE-1001064 RESE-1001074	18-Feb-04 05-May-04	0.96	0.06	0.00	bucket/stopwatch observe/estimate
RESE-1001074 RESE-1001155	19-Aug-04	0.30	0.03	0.00	bucket/stopwatch
RESE-1001022	03-Sep-04	0.50	0.03	0.00	NR
RESE-1001170	12-Nov-04	0.69	0.04	0.00	bottle/stopwatch
RESE-1001192 RESE-1001214	16-Feb-05 17-May-05	32.50 0.50	2.05 0.03	0.07	cutthroat flume observe/estimate
RESE-1001214 RESE-1001232	07-Sep-05	none taken	none taken	none taken	observe/estimate N/A
			DC7.1C		
RESE-1001009	29-May-03	3.80	1.45	0.01	cutthroat flume
RESE-1001034 RESE-1001065	04-Nov-03 18-Feb-04	15.00 95.40	0.95 6.02	0.03	cutthroat flume cutthroat flume, pre-calibration
RESE-1001065	05-May-04	30.2	1.91	0.21	cutthroat flume
RESE-1001156	19-Aug-04	30.80	1.94	0.07	cutthroat flume, pre-calibration
RESE-1001171	12-Nov-04	47.60	3.00	0.11	cutthroat flume
RESE-1001193 RESE-1001215	16-Feb-05 17-May-05	30311.95 10.90	1912.68 0.69	67.54 0.02	pygmy meter cutthroat flume
RESE-1001232	07-Sep-05	3.06	0.19	0.01	cutthroat flume
			DC8.2W		
RESE-1001006	20-May-03	10.90	0.69	0.02	cutthroat flume
RESE-1001017 RESE-1001044	21-Aug-03 12-Nov-03	10.90 8.12	0.69 0.51	0.02	NR cutthroat flume
RESE-1001044 RESE-1001063	17-Feb-04	10.90	0.69	0.02	cutthroat flume
RESE-1001079	21-May-04	11.9	0.75	0.03	cutthroat flume
RESE-1001152	16-Aug-04	9.00	0.57	0.02	cutthroat flume
RESE-1001175 RESE-1001196	16-Nov-04 25-Feb-05	2.24 3.00	0.14 0.19	0.00	cutthroat flume-estimate, pre-calibration observe/estimate
RESE-1001130	11-May-05	10.00	0.63	0.02	observe/estimate
RESE-1001227	16-Aug-05	1.00	0.06	0.002	observe/estimate
DEGE 1001005	20.16 02	12.00	DC8.8C	0.02	1
RESE-1001005 RESE-1001018	20-May-03 21-Aug-03	3.00	0.24 0.19	0.03	cutthroat flume pre-calibration
RESE-1001042	12-Nov-03	24.50	1.55	0.05	cutthroat flume
RESE-1001062	17-Feb-04	83.90	5.29	0.19	cutthroat flume
Flow Measurement	6-Apr-04	3065.30	193.40	6.80	pygmy meter
RESE-1001078 RESE-1001151	21-May-04 16-Aug-04	13.4 5.06	0.85 0.32	0.03	cutthroat flume
RESE-1001174	16-Nov-04	17.00	1.07	0.01	cutthroat flume
RESE-1001197	25-Feb-05	33040.66	2084.87	73.62	pygmy meter
RESE-1001211	11-May-05	20.30	1.28	0.05	cutthroat flume
RESE-1001228	16-Aug-05	1.00	0.06 DC10.9C	0.002	1 liter bottle
RESE-1001004	16-May-03	23.00	0.82	0.05	cutthroat flume
RESE-1001020	27-Aug-03	1.00	0.06	0.00	NR
RESE-1001036	05-Nov-03	17.60	1.11	0.04	cutthroat flume, pre-calibration
RESE-1001060 Flow Measurement	11-Feb-04 09-Mar-04	29.20 7912.34	1.84 499.27	0.07 17.63	cutthroat flume pygmy meter
RESE-1001091	27-May-04	13.00	0.82	0.03	cutthroat flume
RESE-1001099	11-Aug-04	1.00	0.06	0.00	observe/estimate, pre-calibration
RESE-1001169	05-Nov-04	3.24	0.20	0.01	cutthroat flume
RESE-1001189 RESE-1001208	15-Feb-05 11-May-05	32192.42 15.20	2031.34 0.96	71.73 0.03	pygmy meter cutthroat flume
RESE-1001208	10-Aug-05	35.00	2.21	0.03	observe/estimate
		_	DC13.5C		
RESE-1001011	30-May-03	2.25	0.14	0.01	NR pro calibration
RESE-1001021 RESE-1001037	27-Aug-03 05-Nov-03	0.30 2.50	0.02 0.16	0.00	pre-calibration estimate
RESE-1001057	11-Feb-04	47.60	3.00	0.01	cutthroat flume
Flow Measurement	24-Mar-04	448.80	28.32	1.00	pygmy meter
Flow Measurement	06-Apr-04	2809.49	177.28	6.26	pygmy meter cutthroat flume, pre-calibration
RESE-1001086 RESE-1001190	26-May-04 15-Feb-05	2.72 27120.98	0.17 1711.33	0.01 60.43	cutthroat flume, pre-calibration pygmy meter
RESE-1001209	11-May-05	5.76	0.36	0.01	cutthroat flume
RESE-1001226	10-Aug-05	none taken	none taken	none taken	N/A
RESE-1001191	15-Feb-05	none taken	none taken	none taken	observe
RESE-1001227	10-Aug-05	none taken	none taken DC15.2C	none taken	N/A
RESE-1001210	09-May-05	7.00	0.44	0.02	cutthroat flume
	•		Hwy 60 Bridge		
RESE-1001069	05-Mar-04	rushing 6556.97	N/A 413.74	N/A	observe
Flow Measurement	09-Mar-04			14.61	pygmy meter

Notes:

N/A denotes "not applicable"

*denotes an estimated time

NR denotes "probe did not record." For locations with no probe, denotes "not recorded."

Verbal descriptions of flow rate are graphed assuming 0.01 gpm

gpm = gallons per minute L/s = liters per secondcfs = cubic feet per second

QUEEN CREEK DISCHARGE DATA

RESE-1001290	G I I	G 1.D.	Flow Rate	Flow Rate	Flow Rate	71 36 (1)
RESE-1001087 26-May-04 none	Sample No	Sample Date	(gpm)	(L/s)	(cfs)	Flow Method
RESE-1001193 03-Aug-04 0.00 0 0.00 observe RESE-1001180 09-Feb-05 6.50 0.41 0.01 curthroad flume RESE-100120 03-May-05 2.00 0.13 0.00 observe/estimat RESE-1001219 03-Aug-05 < 0.11 NR NR Observe/estimat Bored Spring RESE-1001088 26-May-04 drip drip drip observe RESE-1001188 09-Feb-05 1.05 0.07 0.00 bucket/stopwate RESE-1001204 03-May-05 1.33 0.08 0.00 bucket/stopwate Boulder Hole RESE-1001021 03-Aug-05 0.50 0.03 0.00 bucket/stopwate RESE-1001022 03-Aug-03 none taken none taken none taken N/A RESE-1001028 03-Nov-03 none taken none taken none taken none taken none taken RESE-1001028 03-Nov-03 none seen none taken none taken <td></td> <td></td> <td>Blue</td> <td>Spring</td> <td></td> <td></td>			Blue	Spring		
RESE-1001201 O3-May-05	RESE-1001087		none	NA		observe
RESE-1001290				_		
RESE-1001219		+				cutthroat flume
RESE-1001088						
RESE-1001088 26-May-04 drip drip drip observe RESE-1001163 03-Nov-04 trickle trickle trickle trickle observe RESE-1001204 03-Nov-05 1.33 0.08 0.00 bucket/stopwate RESE-1001221 03-Aug-05 0.30 0.00 bucket/stopwate Boulder Hole RESE-1001008 RESE-1001008 22-May-03 none taken none taken none taken N/A RESE-1001028 03-Nov-03 none seen none taken none taken observe RESE-1001028 03-Nov-04 none none taken none taken observe RESE-1001083 24-May-04 none none taken none taken observe RESE-1001094 03-Aug-04 none none taken none taken observe RESE-1001105 03-Nov-04 none none taken none taken observe RESE-1001181 08-Feb-05 95.00 5.99 <t< td=""><td>RESE-1001219</td><td>03-Aug-05</td><td></td><td>L</td><td>NR</td><td>observe/estimate</td></t<>	RESE-1001219	03-Aug-05		L	NR	observe/estimate
RESE-1001163 03-Nov-04 trickle trickle trickle observe RESE-1001284 09-Feb-05 1.06 0.07 0.00 bucket/stopwate RESE-1001221 03-Aug-05 0.50 0.03 0.00 bucket/stopwate RESE-1001023 04-Sep-03 none taken none taken none taken N/A RESE-1001023 04-Sep-03 none taken none taken none taken N/A RESE-1001024 03-Nov-03 none seen none taken none taken none taken observe RESE-1001054 09-Feb-04 16.00 1.01 0.04 bucket/stopwate RESE-1001083 24-May-04 none none taken none taken observe RESE-1001165 03-Nov-04 none none taken none taken observe RESE-1001181 08-Feb-05 95.00 5.99 0.21 observe RESE-1001082 04-May-05 none taken none taken none taken N/A RESE-1001003 15-May-03<						
RESE-1001188 09-Feb-05 1.06 0.07 0.00 bucket/stopwate RESE-1001201 03-May-05 1.33 0.08 0.00 bucket/stopwate RESE-1001221 03-Aug-05 0.50 0.03 0.00 bucket/stopwate Boulder Hole RESE-1001008 22-May-03 none taken none taken N/A RESE-1001023 04-Sep-03 none taken none taken none taken RESE-1001028 03-Nov-03 none taken none taken none taken RESE-1001084 09-Feb-04 16.00 1.01 0.04 bucket/stopwate RESE-1001084 09-Feb-04 none none taken none taken observe RESE-1001084 03-Aug-04 none none taken none taken observe RESE-1001185 03-Nov-04 none none taken none taken observe RESE-1001185 03-Nov-03 20 none taken none taken none taken No RESE-10011025 04-Aug-03 <t< td=""><td></td><td><u> </u></td><td>•</td><td>•</td><td>•</td><td></td></t<>		<u> </u>	•	•	•	
RESE-1001204 0.3-May-0.5 1.33 0.08 0.00 bucket/stopwate RESE-1001221 0.3-Aug-0.5 0.50 0.03 0.00 observe/estimat Boulder Hole RESE-1001008 22-May-0.3 none taken none taken none taken N/A RESE-1001023 04-Sep-0.3 none taken none taken none taken N/A RESE-1001084 03-Nov-0.3 none seen none taken none taken observe RESE-1001083 24-May-0.4 none none taken none taken observe RESE-1001083 24-May-0.4 none none taken none taken observe RESE-1001105 03-Nov-0.4 none none taken none taken observe RESE-1001125 03-May-0.5 none taken none taken none taken none taken RESE-1001025 04-May-0.5 none taken none taken none taken N/A RESE-1001025 04-May-0.3 none taken none taken none taken N/A <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
RESE-1001021 03-Aug-05 0.50 0.03 0.00 observe/estimat						•
RESE-1001008 22-May-03 none taken none taken none taken N/A						•
RESE-1001008 22-May-03 none taken none taken N/A	KESE-1001221	03-Aug-03			0.00	observe/estimate
RESE-1001023 04-Sep-03 none taken none taken N/A RESE-1001028 03-Nov-03 none seen none taken none taken observe RESE-1001054 09-Feb-04 16.00 1.01 0.04 bucket/stopwate RESE-1001083 24-May-04 none none taken none taken observe RESE-1001094 03-Aug-04 none none taken none taken observe RESE-1001165 03-Nov-04 none none taken none taken observe RESE-1001165 03-Nov-04 none none taken none taken observe RESE-1001205 04-May-05 none taken none taken none taken N/A Hidden Spring RESE-1001025 04-May-03 none taken none taken N/A RESE-1001027 03-Nov-03 >2drips/sec >2drips/sec >2drips/sec observe RESE-1001027 03-Nov-04 drip drip drip drip drip drip <	RESE-1001008	22-May-03		1	none taken	N/Δ
RESE-1001028 03-Nov-03 none seen none taken none taken observe		<u> </u>				
RESE-1001054						.
RESE-1001083 24-May-04 none none taken none taken observe RESE-1001094 03-Aug-04 none none taken none taken observe RESE-1001181 03-Nov-04 none none taken none taken observe/estimat RESE-1001205 04-May-05 95.00 5.99 0.21 observe/estimat Hidden Spring RESE-1001025 04-May-03 none taken none taken none taken N/A Hidden Spring RESE-1001003 15-May-03 none taken none taken none taken N/A RESE-1001027 03-Nov-03 >2drips/sec >2drips/sec >2drips/sec observe RESE-1001052 09-Feb-04 dripping dripping dripping observe RESE-1001052 09-Feb-04 dripping drip drip observe RESE-1001062 03-Nov-04 drip drip drip observe RESE-1001187 09-Feb-05 drips		+				
RESE-1001094 03-Aug-04 none none taken none taken observe RESE-1001165 03-Nov-04 none none taken none taken observe RESE-1001181 08-Feb-05 95.00 5.99 0.21 observe/estimat RESE-1001205 04-May-05 none taken none taken none taken none taken Hidden Spring RESE-1001003 15-May-03 none taken none taken N/A RESE-1001015 20-Aug-03 none taken none taken N/A RESE-1001027 03-Nov-03 >2drips/sec >2drips/sec >2drips/sec RESE-1001052 09-Feb-04 dripping dripping dripping observe RESE-1001082 24-May-04 drip drip drip drip observe RESE-1001097 04-Aug-04 drip drip drip observe RESE-1001162 03-Nov-04 drip drip drip observe RESE-1001120 03-May-05 1.00		+				-
RESE-1001165 03-Nov-04 none none taken none taken observe RESE-1001181 08-Feb-05 95.00 5.99 0.21 observe/estimat Hidden Spring RESE-1001003 15-May-03 none taken none taken none taken N/A RESE-1001015 20-Aug-03 none taken none taken none taken N/A RESE-1001027 03-Nov-03 >2drips/sec >2drips/sec >2drips/sec observe RESE-1001052 09-Feb-04 dripping dripping dripping observe RESE-1001082 24-May-04 drip drip drip observe RESE-1001097 04-Aug-04 drip drip drip observe RESE-1001162 03-Nov-04 drip drip drips observe RESE-1001187 09-Feb-05 drips drips drips observe RESE-1001202 03-May-05 1.00 0.06 0.00 observe/estimat Kane S		<u> </u>				
RESE-1001181 08-Feb-05 95.00 5.99 0.21 observe/estimat		+ + + +				
Hidden Spring RESE-1001003 15-May-03 none taken none taken none taken N/A RESE-1001015 20-Aug-03 none taken none taken none taken N/A RESE-1001027 03-Nov-03 >2drips/sec >2drips/sec >2drips/sec observe RESE-1001052 09-Feb-04 dripping dripping dripping dripping observe RESE-1001082 24-May-04 drip drip drip drip observe RESE-1001097 04-Aug-04 drip drip drip drip observe RESE-1001162 03-Nov-04 drip drip drip drip observe RESE-1001187 09-Feb-05 drips drips drips observe RESE-1001202 03-May-05 1.00 0.06 0.00 observe/estimat RESE-1001220 03-Aug-05 2.00 0.13 0.00 observe/estimat RESE-1001022 15-May-03 none taken none taken none taken N/A RESE-1001026 03-Nov-03 drips drips drips drips observe RESE-1001026 03-Nov-03 drips drips drips observe RESE-1001051 09-Feb-04 dripping dripping dripping observe RESE-1001161 03-Nov-04 seep seep seep observe RESE-1001186 09-Feb-05 drips drips drips drips observe RESE-1001201 03-May-05 0.50 0.03 0.00 observe/estimat RESE-1001201 03-Nov-04 seep seep seep observe RESE-1001201 03-May-05 0.50 0.03 0.00 observe/estimat RESE-1001056 09-Feb-04 1.50 0.09 0.00 observe/estimat RESE-1001056 09-Feb-04 1.50 0.09 0.00 observe/estimat RESE-1001096 03-Aug-04 trickle trickle trickle observe RESE-1001024 04-Sep-04 1.50 0.09 0.00 observe/estimat RESE-1001024 04-Se		+	95.00			observe/estimate
RESE-1001003	RESE-1001205	04-May-05	none taken	none taken	none taken	N/A
RESE-1001015 20-Aug-03 none taken none taken N/A RESE-1001027 03-Nov-03 >2drips/sec >2drips/sec >2drips/sec observe RESE-1001052 09-Feb-04 dripping dripping dripping observe RESE-1001082 24-May-04 drip drip drip observe RESE-1001097 04-Aug-04 drip drip drip observe RESE-1001187 09-Feb-05 drips drips drips observe RESE-1001187 09-Feb-05 drips drips drips observe RESE-1001202 03-May-05 1.00 0.06 0.00 observe/estimat Kane Spring RESE-1001202 03-Aug-05 2.00 0.13 0.00 observe/estimat Kane Spring RESE-100102 15-May-03 none taken none taken N/A RESE-100102 03-Nov-03 drips drips drips observe RESE-1001016 03-Nov-0			Hidder	Spring		
RESE-1001027 03-Nov-03 >2drips/sec >2drips/sec observe RESE-1001052 09-Feb-04 dripping dripping dripping observe RESE-1001082 24-May-04 drip drip drip observe RESE-1001097 04-Aug-04 drip drip drip observe RESE-1001162 03-Nov-04 drip drip drips observe RESE-1001187 09-Feb-05 drips drips drips observe RESE-1001202 03-May-05 1.00 0.06 0.00 observe/estimat Kane Spring Kane Spring RESE-1001220 03-May-05 2.00 0.13 0.00 observe/estimat Kane Spring RESE-1001202 15-May-03 none taken none taken N/A RESE-1001002 15-May-03 none taken none taken N/A RESE-1001021 03-Nov-03 drips drips drips drips drip	RESE-1001003	15-May-03	none taken	none taken	none taken	N/A
RESE-1001052 09-Feb-04 dripping dripping dripping dripping observe RESE-1001082 24-May-04 drip drip drip observe RESE-1001097 04-Aug-04 drip drip drip observe RESE-1001162 03-Nov-04 drip drip drip observe RESE-1001187 09-Feb-05 drips drips drips observe RESE-1001202 03-May-05 1.00 0.06 0.00 observe/estimat Kane Spring Kane Spring RESE-1001220 03-Aug-05 2.00 0.13 0.00 observe/estimat RESE-1001002 15-May-03 none taken none taken N/A RESE-1001014 20-Aug-03 none taken none taken N/A RESE-1001026 03-Nov-03 drips drips drips drips drips observe RESE-1001051 09-Feb-04 dripping dripping dripping	RESE-1001015	20-Aug-03	none taken	none taken	none taken	N/A
RESE-1001082 24-May-04 drip drip drip drip drip observe RESE-1001097 04-Aug-04 drip drip drip drip observe RESE-1001162 03-Nov-04 drip drip drip observe RESE-1001187 09-Feb-05 drips drips drips observe RESE-1001202 03-May-05 1.00 0.06 0.00 observe/estimat Kane Spring Kane Spring RESE-1001020 15-May-03 none taken none taken N/A RESE-100104 20-Aug-03 none taken none taken none taken N/A RESE-1001026 03-Nov-03 drips drips drips drips observe RESE-1001051 09-Feb-04 dripping dripping dripping dripping dripping observe RESE-1001161 03-Nov-04 seep seep seep seep observe RESE-1001186 09-	RESE-1001027	03-Nov-03	>2drips/sec	>2drips/sec	>2drips/sec	observe
RESE-1001097 04-Aug-04 drip drip drip observe RESE-1001162 03-Nov-04 drip drip drip observe RESE-1001187 09-Feb-05 drips drips drips observe RESE-1001202 03-May-05 1.00 0.06 0.00 observe/estimat Kane Spring RESE-1001220 03-Aug-05 2.00 0.13 0.00 observe/estimat Kane Spring RESE-1001022 15-May-03 none taken none taken N/A RESE-100104 20-Aug-03 none taken none taken N/A RESE-1001026 03-Nov-03 drips drips drips observe RESE-1001051 09-Feb-04 dripping dripping dripping observe RESE-1001180 09-Feb-05 drips drips drips observe RESE-1001201 03-May-05 0.50 0.03 0.00 observe/estimat Karst Spring	RESE-1001052	09-Feb-04	dripping	dripping	dripping	observe
RESE-1001162 03-Nov-04 drip drip drip observe RESE-1001187 09-Feb-05 drips drips drips observe RESE-1001202 03-May-05 1.00 0.06 0.00 observe/estimat Kane Spring RESE-1001220 03-Aug-05 2.00 0.13 0.00 observe/estimat Kane Spring RESE-1001002 15-May-03 none taken none taken none taken N/A RESE-100104 20-Aug-03 none taken none taken none taken N/A RESE-1001026 03-Nov-03 drips drips drips observe RESE-1001051 09-Feb-04 dripping dripping dripping observe RESE-1001180 03-Nov-04 seep seep seep observe RESE-1001201 03-May-05 0.50 0.03 0.00 observe/estimat Karst Spring RESE-1001180 08-Feb-05 29.20 1.84 0	RESE-1001082	24-May-04	drip	drip	drip	observe
RESE-1001187 09-Feb-05 drips drips drips observe RESE-1001202 03-May-05 1.00 0.06 0.00 observe/estimat Kane Spring RESE-1001002 15-May-03 none taken none taken none taken N/A RESE-1001014 20-Aug-03 none taken none taken none taken N/A RESE-1001026 03-Nov-03 drips drips drips observe RESE-1001051 09-Feb-04 dripping dripping dripping observe RESE-1001161 03-Nov-04 seep seep seep observe RESE-1001186 09-Feb-05 drips drips drips observe RESE-1001201 03-May-05 0.50 0.03 0.00 observe/estimat RESE-1001218 03-Aug-05 0.10 NR NR observe/estimat Pump Station RESE-1001001 15-May-03 3.24 0.20 0.01 cutthroat flume	RESE-1001097	04-Aug-04	drip	drip	drip	observe
RESE-1001202 03-May-05 1.00 0.06 0.00 observe/estimat Kane Spring RESE-1001002 15-May-03 none taken none taken N/A RESE-1001014 20-Aug-03 none taken none taken N/A RESE-1001026 03-Nov-03 drips drips drips RESE-1001051 09-Feb-04 dripping dripping dripping RESE-1001161 03-Nov-04 seep seep seep observe RESE-1001186 09-Feb-05 drips drips drips observe RESE-1001201 03-May-05 0.50 0.03 0.00 observe/estimat RESE-1001218 03-Aug-05 0.10 NR NR observe/estimat RESE-1001180 08-Feb-05 29.20 1.84 0.07 cutthroat flume RESE-1001001 15-May-03 3.24 0.20 0.01 cutthroat flume RESE-1001029 03-Nov-03 1.50 0.09 0.00 observe/estimat <			drip	drip	drip	
RESE-1001220 03-Aug-05 2.00 0.13 0.00 observe/estimat Kane Spring RESE-1001002 15-May-03 none taken none taken none taken N/A RESE-1001014 20-Aug-03 none taken none taken N/A RESE-1001026 03-Nov-03 drips drips drips RESE-1001051 09-Feb-04 dripping dripping dripping observe RESE-1001161 03-Nov-04 seep seep seep observe RESE-1001186 09-Feb-05 drips drips drips observe RESE-1001201 03-May-05 0.50 0.03 0.00 observe/estimat RESE-1001218 03-Aug-05 0.10 NR NR observe/estimat Karst Spring RESE-1001180 08-Feb-05 29.20 1.84 0.07 cutthroat flume Pump Station RESE-1001029 03-Nov-03 1.50 0.09 0.00 observe/estimat <		+		^	•	
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RESE-1001014 20-Aug-03 none taken none taken N/A RESE-1001026 03-Nov-03 drips drips drips RESE-1001051 09-Feb-04 dripping dripping dripping RESE-1001161 03-Nov-04 seep seep seep observe RESE-1001186 09-Feb-05 drips drips drips observe RESE-1001201 03-May-05 0.50 0.03 0.00 observe/estimat RESE-1001218 03-Aug-05 0.10 NR NR observe/estimat Karst Spring RESE-1001180 08-Feb-05 29.20 1.84 0.07 cutthroat flume Pump Station RESE-1001029 03-Nov-03 1.50 0.09 0.00 observe RESE-1001029 03-Nov-03 1.50 0.09 0.00 observe/estimat RESE-1001056 09-Feb-04 1.50 0.09 0.00 observe/estimat RESE-1001084 25-May-04 1 <				1		
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RESE-1001051 09-Feb-04 dripping dripping dripping dripping observe RESE-1001161 03-Nov-04 seep seep seep observe RESE-1001186 09-Feb-05 drips drips drips observe RESE-1001201 03-May-05 0.50 0.03 0.00 observe/estimat RESE-1001218 03-Aug-05 0.10 NR NR NR observe/estimat Karst Spring RESE-1001180 08-Feb-05 29.20 1.84 0.07 cutthroat flume Pump Station RESE-1001001 15-May-03 3.24 0.20 0.01 cutthroat flume RESE-1001029 03-Nov-03 1.50 0.09 0.00 observe RESE-1001084 25-May-04 1 0.06 0.00 observe/estimat RESE-1001096 03-Aug-04 trickle trickle trickle observe RESE-1001024 04-Sep-04 1.50 0.09 0.00 NR </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
RESE-1001161 03-Nov-04 seep seep seep observe RESE-1001186 09-Feb-05 drips drips drips observe RESE-1001201 03-May-05 0.50 0.03 0.00 observe/estimat RESE-1001218 03-Aug-05 0.10 NR NR observe/estimat **Earst Spring** RESE-1001180 08-Feb-05 29.20 1.84 0.07 cutthroat flume **Pump Station** RESE-1001001 15-May-03 3.24 0.20 0.01 cutthroat flume RESE-1001029 03-Nov-03 1.50 0.09 0.00 observe RESE-1001056 09-Feb-04 1.50 0.09 0.00 observe/estimat RESE-1001084 25-May-04 1 0.06 0.00 observe/estimat RESE-1001096 03-Aug-04 trickle trickle trickle observe RESE-1001024 04-Sep-04 1.50 0.09 0.00 NR			*	•	•	.
RESE-1001186 09-Feb-05 drips drips drips observe RESE-1001201 03-May-05 0.50 0.03 0.00 observe/estimat RESE-1001218 03-Aug-05 0.10 NR NR observe/estimat **RESE-1001180 08-Feb-05 29.20 1.84 0.07 cutthroat flume **Pump Station** RESE-1001001 15-May-03 3.24 0.20 0.01 cutthroat flume RESE-1001029 03-Nov-03 1.50 0.09 0.00 observe RESE-1001056 09-Feb-04 1.50 0.09 0.00 observe/estimat RESE-1001084 25-May-04 1 0.06 0.00 observe/estimat RESE-1001096 03-Aug-04 trickle trickle trickle observe RESE-1001024 04-Sep-04 1.50 0.09 0.00 NR				***		
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RESE-1001218 03-Aug-05 0.10 NR NR observe/estimate Karst Spring RESE-1001180 08-Feb-05 29.20 1.84 0.07 cutthroat flume Pump Station RESE-1001001 15-May-03 3.24 0.20 0.01 cutthroat flume RESE-1001029 03-Nov-03 1.50 0.09 0.00 observe RESE-1001056 09-Feb-04 1.50 0.09 0.00 observe/estimat RESE-1001084 25-May-04 1 0.06 0.00 observe/estimat RESE-1001096 03-Aug-04 trickle trickle trickle observe RESE-1001024 04-Sep-04 1.50 0.09 0.00 NR			•	•	•	
RESE-1001180 08-Feb-05 29.20 1.84 0.07 cutthroat flume						
RESE-1001180 08-Feb-05 29.20 1.84 0.07 cutthroat flume Pump Station RESE-1001001 15-May-03 3.24 0.20 0.01 cutthroat flume RESE-1001029 03-Nov-03 1.50 0.09 0.00 observe RESE-1001056 09-Feb-04 1.50 0.09 0.00 observe/estimat RESE-1001084 25-May-04 1 0.06 0.00 observe/estimat RESE-1001096 03-Aug-04 trickle trickle trickle observe RESE-1001024 04-Sep-04 1.50 0.09 0.00 NR	RESE 1001210	03 Hug 03		1	1110	Observe/estimate
Pump Station RESE-1001001 15-May-03 3.24 0.20 0.01 cutthroat flume RESE-1001029 03-Nov-03 1.50 0.09 0.00 observe RESE-1001056 09-Feb-04 1.50 0.09 0.00 observe/estimat RESE-1001084 25-May-04 1 0.06 0.00 observe/estimat RESE-1001096 03-Aug-04 trickle trickle trickle observe RESE-1001024 04-Sep-04 1.50 0.09 0.00 NR	RESE-1001180	08-Feb-05		_	0.07	cutthroat flume
RESE-1001001 15-May-03 3.24 0.20 0.01 cutthroat flume RESE-1001029 03-Nov-03 1.50 0.09 0.00 observe RESE-1001056 09-Feb-04 1.50 0.09 0.00 observe/estimat RESE-1001084 25-May-04 1 0.06 0.00 observe/estimat RESE-1001096 03-Aug-04 trickle trickle trickle observe RESE-1001024 04-Sep-04 1.50 0.09 0.00 NR		<u> </u>				
RESE-1001029 03-Nov-03 1.50 0.09 0.00 observe RESE-1001056 09-Feb-04 1.50 0.09 0.00 observe/estimat RESE-1001084 25-May-04 1 0.06 0.00 observe/estimat RESE-1001096 03-Aug-04 trickle trickle trickle observe RESE-1001024 04-Sep-04 1.50 0.09 0.00 NR	RESE-1001001	15-May-03			0.01	cutthroat flume
RESE-1001056 09-Feb-04 1.50 0.09 0.00 observe/estimat RESE-1001084 25-May-04 1 0.06 0.00 observe/estimat RESE-1001096 03-Aug-04 trickle trickle trickle observe RESE-1001024 04-Sep-04 1.50 0.09 0.00 NR		<u> </u>				.
RESE-1001096 03-Aug-04 trickle trickle trickle observe RESE-1001024 04-Sep-04 1.50 0.09 0.00 NR		+				observe/estimate
RESE-1001096 03-Aug-04 trickle trickle trickle observe RESE-1001024 04-Sep-04 1.50 0.09 0.00 NR				0.06		observe/estimate
*	RESE-1001096	<u> </u>	trickle	trickle	trickle	observe
RESE-1001166 03-Nov-04 0.25 0.02 0.00 observe/estimat	RESE-1001024	04-Sep-04	1.50	0.09	0.00	NR
	RESE-1001166	03-Nov-04	0.25	0.02	0.00	observe/estimate
RESE-1001182 08-Feb-05 45.60 2.88 0.10 cutthroat flume	RESE-1001182	08-Feb-05	45.60	2.88	0.10	cutthroat flume
		04-May-05				cutthroat flume
	RESE-1001222	08-Aug-05			0.01	observe/estimate
QC27.3C						
						cutthroat flume
RESE-1001207 04-May-05 8.12 0.51 0.02 cutthroat flume Notes:		04-May-05	8.12	0.51	0.02	cutthroat flume

N/A denotes "not applicable"

*denotes an estimated time

NR denotes "method not recorded."

Verbal descriptions of flow rate are graphed assuming $0.01\ \mathrm{gpm}$

gpm = gallons per minute

L/s = liters per second

cfs = cubic feet per second

TABLE 6 LIST OF CONSTITUENTS FOR SURFACE WATER SAMPLING

				Regulator	latory Drivers Other Drivers				Sampling Lists	
Name	Symbol	Type	Hardness Dependent	Designated Uses	TMDL	Potential Mining Impacts	Other Potential Impacts	Classificat ion	Long List	Short List
		•	•	F	ield	•			•	
pН	pН			X	X	X	X	X	•	•
Temperature	°C					X	X	X	•	•
Conductivity	EC					X	X		•	•
Dissolved oxygen	DO			X		X	X		•	•
Turbidity				X		X	X		•	•
				M	etals					
Aluminum	Al	T				X			•	•
Antimony	Sb	T, TR, D		x		X			•	•
Arsenic	As	T, TR, D		X		X			•	•
Barium	Ba	D		X		X			•	•
Beryllium	Be	T, TR, D		X	X	X			•	•
Cadmium	Cd	T, TR, D	Y	X		X			•	•
Chromium (total)	Cr	TR, D		X		X	-		•	•
Cobalt	Co	T					-		•	•
Copper	Cu	T, TR, D	Y	X	x	X			•	•
Iron	Fe	T				х			•	•
Lead	Pb	T, TR, D	Y	х		Х			•	•
Manganese	Mn	TR		х		х			•	•
Mercury	Hg	T, D		Х		X			•	•
Molybdenum	Mo	T				х			•	•
Nickel	Ni	TR, D	Y	х		х			•	•
Selenium	Se	T, TR		х		х			•	•
Silver	Ag	T, TR, D	Y	х		х			•	•
Thallium	Tl	T, D		х		х			•	•
Zinc	Zn	T, TR, D	Y	х	х	х			•	•
			<u> </u>	Inorganic	Non-metallics					ı
Asbestos		Т							•	
Boron	В	Т		х		х			•	•
Bromide	Br	Т							•	•
Cyanide (free)	CN	Т		х		х			•	
Fluoride	F	Т		х		х	X		•	•
Nitrite (as N)	NO ₂ N	Т		х		х	x		•	•
Nitrate (as N)	NO ₃ N	T		X		x	x		•	•
Nitrate + Nitrite (as N)	NO ₂ -+NO ₃ N	T				x	X		•	•
Orthophosphate	PO ₄	T					X		•	•
Silica	SiO ₂	T						Х	•	•
Sulfide	SO_2	T		X			X		•	•
	1	1	T.	Majo	r Anions	1	T	1	1	r
Chloride	Cl	T				X	X	X	•	•
Sulfate	SO_4	T				X	X	X	•	•
Carbonate	CO ₃ -	T						X	•	•
Bicarbonate	CaCO ₃ -	T						X	•	•
				Major	Cations					
Calcium	Ca	T						х	•	•
Magnesium	Mg	T						х	•	•
Potassium	K	T						х	•	•
Sodium	Na	T						х	•	•
				Radio	nuclides					
Gross alpha activity		T				X			•	
Gross beta activity		T				х			•	
Radium 226+228		T				x			•	
Uranium	U	T				x			•	
				Physical	Properties			•	•	
Alkalinity (total)		T						х	•	•
Hardness		T						X	•	•
Total dissolved solids	TDS	D				x	x	X	•	•
Total suspended solids	TSS	T		X		X	X	X	•	•
Color	155						^	X	•	•
C0101				Rial	ogicals			^		
Coliforms (total)		Т			ogicais 		v		•	•
E. Coli		T		х			X X			
L. COII		1		A			A		•	

Notes:
Other Potential Impacts: ranching, septic tanks, quarrying, wastewater treatment, etc.
TMDL = total maximum daily loac

T = total

 $TR = total \ recoverable$

 $X:\label{lem:conproj} X:\label{lem:conproj} X:\label{lem:conproj} Accord (Tables) Table 6. xls Table 6. xls$

D = dissolved

CURRENT DESIGNATED USES FOR BASELINE SURFACE WATER SAMPLING STATIONS

			Tall.			Possi	ble De	signated	Uses	
Watershed	Station	Listed	ed Elev. (feet)	FC	FBC	PBC	AgL	A&We	A&'	Ww
			(icet)	rc	FBC	TBC	AgL	AWWE	chronic	acute
	Pump Station	Yes	<5,000			•	•	•		
Queen Creek	Upper QC (QC27.3C)	Yes	<5,000	-		•	•	•		
Queen creek	Boulder Hole	Yes	<5,000			•	•	•		
	Karst Spring (QC22.6E)	Yes	<5,000			•	•	•		
	Hidden	No	<5,000	•	•				•	•
Apache Leap	Kane	No	<5,000	•	•				•	•
Apaciic Leap	Blue Springs	No	<5,000	•	•		-		•	•
	Bored	No	<5,000	•	•				•	•
	DC15.2C	Yes	<5,000	•	•		•		•	•
	DC13.5C	Yes	<5,000	•	•		•		•	•
	DC10.9C	Yes	<5,000	•	•		•		•	•
	DC8.8C	Yes	<5,000	•	•		•		•	•
Devils Canyon	DC8.2W	Yes	<5,000	•	•		•		•	•
Deviis Canyon	DC7.1C	Yes	<5,000	•	•		•		•	•
	DCT6.6W	No	<5,000	•	•				•	•
	DC6.1E	Yes	<5,000	•	•		•		•	•
	DC5.5C	Yes	<5,000	•	•		•		•	•
	DC4.1E	Yes	<5,000	•	•		•		•	•

Notes:

FC = fish consumption

FBC = full body contact

PBC = partial body contact

AgI = agriculture irrigation

AgL = agriculture livestock

A&We = aquatic and wildlife ephemeral (less than 5,000 feet elevation)

A&Ww = aquatic and wildlife warm water

DWS = domestic water source

A&Wc = aquatic and wildlife cold water

A&Wedw = aquatic and wildlife effluent dependent waters

DWS, AgI, A&Wc, and A&Wedw do not apply to the current list of sampling stations.

Ephemeral means a surface water that has a channel that is at all times above the water table and that flows only in direct response to precipitation.

Intermittent means a surface water that flows continuously for 30 days or more at times of the year when the surface water receives water from a spring or from another source such as melting snow.

Perennial means a surface water that flows continuously throughout the year.

TABLE 8 DEVILS CANYON SAMPLING STATION HISTORY

Sampling Station ID/Name	Number of Samples from Station	Sample Dates	Sample ID	Comments
		2/15/2005	RESE-1001191	Newly established uppermost sampling station.
DC15.2C	3	5/9/2005	RESE-1001210	Sampled the most recent 3 events.
DC14.7C	1	8/10/2005 3/5/2004	RESE-1001226 RESE-1001069	Floodflow sample location at US60 Bridge.
DC14.7C	1	6/1/2003	RESE-1001009	Prodution sample location at 0.500 Bridge.
		8/27/2003	RESE-1001021	
		11/5/2003	RESE-1001037	
DC13.5C	8	2/11/2004	RESE-1001059	Station not sampled twice due to dry conditions.
BC13.5C		5/26/2004	RESE-1001086	Station not sampled twice due to dry conditions.
		2/15/2005	RESE-1001190	
		5/11/2005 8/10/2005	RESE-1001209 RESE-1001225	
		5/16/2003	RESE-1001004	
		8/27/2003	RESE-1001020	
		11/5/2003	RESE-1001036	
		2/11/2004	RESE-1001060	
DC10.9C	10	5/27/2004 8/11/2004	RESE-1001091 RESE-1001099	Sampled every event.
		11/5/2004	RESE-1001169	
		2/15/2005	RESE-1001189	
		5/11/2005	RESE-1001208	
		8/10/2005	RESE-1001224	
		5/20/2003	RESE-1001005	
		8/21/2003 11/12/2003	RESE-1001018 RESE-1001042	
		2/17/2004	RESE-1001042	
DC8.8C	10	5/21/2004	RESE-1001078	Sampled every event.
DC8.8C	10	8/16/2004	RESE-1001151	Sampled every event.
		11/16/2004	RESE-1001174	
		2/25/2005	RESE-1001197	
		5/11/2005 8/16/2005	RESE-1001211 RESE-1001228	
		5/20/2003	RESE-1001228	
		8/21/2003	RESE-1001017	
		11/12/2003	RESE-1001044	
		2/17/2004	RESE-1001063	
DC8.2W	10	5/21/2004	RESE-1001079	Sampled every event.
		8/16/2004 11/16/2004	RESE-1001152 RESE-1001175	
		2/25/2005	RESE-1001179	
		5/11/2005	RESE-1001212	
		8/16/2005	RESE-1001227	
		5/29/2003	RESE-1001009	
		11/4/2003 2/18/2004	RESE-1001034 RESE-1001065	
		5/5/2004	RESE-1001005	
DC7.1C	9	8/19/2004	RESE-1001156	One sample event skipped due to stagnant pool conditions.
		11/12/2004	RESE-1001171	conditions.
		2/16/2005	RESE-1001193	
		5/17/2005	RESE-1001215	
		9/7/2005 5/29/2003	RESE-1001231 RESE-1001010	
		9/3/2003	RESE-1001022	
		11/4/2003	RESE-1001033	
		2/18/2004	RESE-1001064	
DCT6.6W	10	5/5/2004	RESE-1001074	Sampled every event.
		8/19/2004 11/12/2004	RESE-1001155 RESE-1001170	1
		2/16/2005	RESE-1001170	
		5/17/2005	RESE-1001214	
		9/7/2005	RESE-1001232	
		5/20/2004	RESE-1001077	
		8/23/2004	RESE-1001159	Station established to substitute for DC4.1E after first
DC6.1E	6	11/18/2004 2/28/2005	RESE-1001177 RESE-1001199	sampling events.
		5/24/2005	RESE-1001199	Sumpring Cronton
		8/23/2005	RESE-1001230	
		11/10/2003	RESE-1001039	
		2/25/2004	RESE-1001067	
		5/20/2004 8/23/2004	RESE-1001076 RESE-1001158	Station not established until third sampling event due t
DC5.5C	8	8/23/2004 11/18/2004	RESE-1001158 RESE-1001176	rough access conditions.
		2/28/2005	RESE-1001176	
		5/24/2005	RESE-1001216	
		8/23/2005	RESE-1001229	
		5/21/2003	RESE-1001007	
DC4.1E	4	8/26/2003 11/11/2003	RESE-1001019 RESE-1001040	Station replaced by DC6.1E after first 3 sampling events.
	Ī	11/11/2003	rese-1001040	events.

TABLE 9 QUEEN CREEK SAMPLING STATION HISTORY

Sampling	Number of	Sample		
Station	Samples from	Dates	Sample ID	Comments
ID/Name	Station			
		5/15/2003	RESE-1001001	
		9/4/2003	RESE-1001024	
		11/3/2003	RESE-1001029	
		2/9/2004	RESE-1001056	
Pump Station	10	5/25/2004	RESE-1001084	Sampled every event
1 ump Station	10	8/3/2004	RESE-1001096	Sumpled every event
		11/3/2004	RESE-1001166	
		2/8/2005	RESE-1001182	
		5/4/2005	RESE-1001206	
		8/8/2005	RESE-1001222	
QC27.3C	2	2/8/2005	RESE-1001184	Newly established sampling station. Sampled most recent 2 events.
QC27.3C		5/4/2005	RESE-1001207	Theway established sampling station. Sampled most recent 2 events.
		5/22/2003	RESE-1001008	
		9/4/2003	RESE-1001023	
		11/3/2003	RESE-1001028	
		2/9/2004	RESE-1001054	Sampled every event with exception of the most recent event due to
Boulder Hole	9	5/24/2004	RESE-1001083	dry conditions.
		8/3/2004	RESE-1001094	dry conditions.
		11/3/2004	RESE-1001165	
		2/8/2005	RESE-1001181	
		5/4/2005	RESE-1001205	
Karst-QC22.6E	1	2/8/2005	RESE-1001180	Newly established station that only flows during wet conditions.
		5/26/2004	RESE-1001088	
		11/3/2004	RESE-1001163	Station added to sampling list in May 2005. Sampled every event
Bored	5	2/9/2005	RESE-1001188	since station creation.
		5/3/2005	RESE-1001204	Since station ereation.
		8/3/2005	RESE-1001221	
		5/15/2003	RESE-1001003	
		9/20/2003	RESE-1001015	
		11/3/2003	RESE-1001027	
		2/9/2004	RESE-1001052	
Hidden	10	5/24/2004	RESE-1001082	Sampled every event.
Thaden	10	8/4/2004	RESE-1001097	Sumpled every event.
		11/3/2004	RESE-1001162	
		2/9/2005	RESE-1001187	
		5/3/2005	RESE-1001202	
		8/3/2005	RESE-1001220	
		5/15/2003	RESE-1001002	
		8/20/2003	RESE-1001014	Sampling station has developed spring that is inaccessible for
		11/3/2003	RESE-1001026	sampling. Sampling station consists of small pool in channel adjacent
Kane	8	2/9/2004	RESE-1001051	to spring box. During the summer of 2004, this station was not
111110	Ü	11/3/2004	RESE-1001161	sampled twice due to a lack of water. However, spring flow was
		2/9/2005	RESE-1001186	likely occurring but is inaccessible for sampling.
		5/3/2005	RESE-1001201	
		8/3/2005	RESE-1001218	
		5/26/2004	RESE-1001087	
		8/3/2004	RESE-1001093	Station added to sampling list in May 2005. Sampled every event
Blue	5	2/9/2005	RESE-1001185	since station creation.
		5/3/2005 8/3/2005	RESE-1001200	Since Similari Cramiani
			RESE-1001219	

TABLE 10 DEVILS CANYON BASIN EXCEEDANCES

Site	Constituent	Exceeded Use*	Date of Exceedance	Flow Rate on Date of Exceedance (gpm)	Constituents With Detection Limits Above the Standard
	Cu	A&WwwA, A&WwwC,A&WeA	2/15/2005	Not Recorded	
501500		FBC, PBC, AgL, A&WwwC,			G 71 11 G G 151
DC15.2C	pН	AA&WwwA, A&WeA	8/10/2005	No Flow	Cu, Pb, Hg, Se, Sulfide
	DO	A&WwwA, A&WwwC	8/10/2005	No Flow	
	Cu	A&WwwC	6/1/2003	2.3	
	Cu	A&WwwA, A&WwwC,A&WeA	8/27/2003	0.3	
	Cu	A&WwwA, A&WwwC	11/5/2003	2.5	
		FBC, PBC, AgL, A&WwwC,			
DC13.5C	pН	AA&WwwA, A&WeA	2/11/2004	47.6	Cu, Pb, Hg, Se, Sulfide
	Cu	A&WwwA, A&WwwC	2/11/2004	47.6	
	Cu	A&WwwC	5/26/2004	2.7	
	Cu	A&WwwA, A&WwwC,A&WeA	2/15/2005	27,121	
	E. Coli	FBC, PBC	8/10/2005	Not Recorded	
	DO	A&WwwA, A&WwwC	5/16/2003	23.0	
	Cu	A&WwwA, A&WwwC	5/16/2003	23.0	
	pН	FBC, AgL	8/27/2003	1.0	
	DO	A&WwwA, A&WwwC	8/27/2003	1.0	
	Cu	A&WwwA, A&WwwC, A&WeA	11/5/2003	17.6	
DC10.0C	Cu	A&WwwA, A&WwwC	2/11/2004	29.2	C Db 11- C- C-16.4-
DC10.9C	DO	A&WwwA, A&WwwC	5/27/2004	13.0	Cu, Pb, Hg, Se, Sulfide
	DO	A&WwwA, A&WwwC	8/11/2004	1.0	
	E. Coli	FBC, PBC	8/11/2004	1.0	
	DO	A&WwwA, A&WwwC	11/5/2004	3.2	
	Cu	A&WwwA, A&WwwC, A&WeA	2/15/2005	32,192	
	E. Coli	FBC, PBC	8/10/2005	35.0	
	D.O.	A&WwwA, A&WwwC	8/21/2003	3.0	
DC0.0C	E. Coli	FBC, PBC	11/12/2003	24.5	
DC8.8C	DO	A&WwwA, A&WwwC	8/16/2004	5.0	Cu, Pb, Hg, Se, Sulfide
	Cu	A&WwwA, A&WwwC, A&WeA	2/25/2005	33,041	
	DO	A&WwwA, A&WwwC	8/21/2003	10.9	
	DO	A&WwwA, A&WwwC	5/20/2003	10.9	
DC8.2W	DO	A&WwwA, A&WwwC	11/12/2003	8.1	Cu, Pb, Hg, Se, Sulfide
	DO	A&WwwA, A&WwwC	5/21/2004	11.9	
	DO	A&WwwA, A&WwwC	11/16/2004	2.2	
DC7.1C	Cu	A&WwwA, A&WwwC,A&WeA	2/16/2005	30,312	Cu, Pb, Hg, Se, Sulfide
	DO	A&WwwA, A&WwwC	5/29/2003	0.5	, , ,
ļ	DO	A&WwwA, A&WwwC	9/3/2003	0.5	
ľ	DO	A&WwwA, A&WwwC	11/4/2003	1.5	
ľ	DO	A&WwwA, A&WwwC	5/5/2004	0.5	
T6.6W	DO	A&WwwA, A&WwwC	8/19/2004	0.3	Cu, Pb, Hg, Se, Sulfide
ļ	DO	A&WwwA, A&WwwC	11/12/2004	0.7	
ļ	DO	A&WwwA, A&WwwC	5/17/2005	0.5	
ļ	Cu	A&WwwC	5/17/2005	0.5	
ľ	DO	A&WwwA, A&WwwC	9/7/2005	No Flow	
DC6.1E	DO	A&WwwA, A&WwwC	11/18/2004	2.0	Cu, Pb, Hg, Se, Sulfide
	DO	A&WwwA, A&WwwC	5/20/2004	11.3	
DC5.5C	DO	A&WwwA, A&WwwC	8/23/2004	9.0	Cu, Pb, Hg, Se, Sulfide
DC4.1E	N/A	N/A	N/A	N/A	Pb, Hg, Se, Sulfide

Notes:

*Red font denotes uses exceeded that are presumed to apply. Black font denotes uses exceeded that are presumed irrelevant to site.

N/A denotes not applicable

DO denotes dissolved oxygen. Because the DO standard is a minimum requirement, exceedances refer to values below the standard.

E. Coli denotes the bacterium *Escherichia Coli*.

 $A\&WwwA\ denotes\ \textbf{Aquatic}\ \&\ \textbf{Wildlife}\ (\textbf{warm}\ \textbf{water})\ \textbf{Acute}$

A&WwwC denotes Aquatic & Wildlife (warm water) Chronic

FBC denotes Full Body Contact

PBC denotes Partial Body Contact

 ${\bf AgL\ denotes\ Agricultural\ Livestock\ Watering}$

 $A\&WeA\ denotes\ \textbf{Aquatic\ and\ Wildlife\ (ephemeral)}$

gpm = gallons per minute

TABLE 11 QUEEN CREEK BASIN EXCEEDANCES

Site	Constituent	Exceeded Use*	Date of Exceedance	Flow Rate on Date of Exceedance (gpm)	Constituents With Detection Limits Above the Standard		
Pump Station	DO	A&WwwA, A&WwwC	9/4/2003	1.5			
	DO	A&WwwA, A&WwwC	2/9/2004	1.5	7		
	DO	A&WwwA, A&WwwC	5/25/2004	1.0	1		
	DO	A&WwwA, A&WwwC	8/3/2004	0.05	Hg, Se, Sulfide		
	DO	A&WwwA, A&WwwC	11/3/2004	0.25			
	Se	A&WwwC	2/8/2005	45.6			
	E. Coli	FBC, PBC	8/8/2005	5.0			
Karst Spring	DO	A&WwwA, A&WwwC	2/8/2005	29.2	Hg, Se, Sulfide		
QC27.3	TSS	A&WwwA, A&WwwC	2/8/2005	73.1	Hg, Se, Sulfide		
	DO	A&WwwA, A&WwwC	5/22/2003	Not Recorded			
	DO	A&WwwA, A&WwwC	9/4/2003	Not Recorded			
Boulder Hole	DO	A&WwwA, A&WwwC	11/3/2003	No Flow	7		
	DO	A&WwwA, A&WwwC	2/9/2004	16.0	1		
	DO	A&WwwA, A&WwwC	5/24/2004	No Flow	Cu, Pb, Hg, Se, Sulfide		
	DO	A&WwwA, A&WwwC	8/3/2004	No Flow			
	DO	A&WwwA, A&WwwC	11/3/2004	No Flow			
	E. Coli	FBC, PBC	11/3/2004	No Flow			
	DO	A&WwwA, A&WwwC	5/4/2005	Not Recorded			
	DO	A&WwwA, A&WwwC	5/15/2003	Not Recorded			
	DO	A&WwwA, A&WwwC	8/20/2003	Not Recorded			
	DO	A&WwwA, A&WwwC	11/3/2003	0.01			
	E. Coli	FBC, PBC	5/24/2004	0.01	1		
Hidden Spring	DO	A&WwwA, A&WwwC	8/4/2004	0.01	II. C. C16.1.		
	E. Coli	FBC, PBC	8/4/2004	0.01	Hg, Se, Sulfide		
	DO	A&WwwA, A&WwwC	11/3/2004	0.01			
	DO	A&WwwA, A&WwwC	2/9/2005	0.01			
	DO	A&WwwA, A&WwwC	8/3/2005	2.0			
	E. Coli	FBC, PBC	8/3/2005	2.0			
	pН	FBC, PBC, AgL	5/26/2004	0.01	Hg, Se, Sulfide		
Bored Spring	Cu	A&WwwA, A&WwwC	5/26/2004	0.01			
	DO	A&WwwA, A&WwwC	8/3/2005	0.5	1		
	DO	A&WwwA, A&WwwC	8/20/2003	Not Recorded	Hg, Se, Sulfide		
Kane Spring	DO	A&WwwA, A&WwwC	11/3/2003	0.01			
	DO	A&WwwA, A&WwwC	8/3/2005	<0.1			
	E. Coli	FBC, PBC	8/3/2005	<0.1			
Blue Springs	DO	A&WwwA, A&WwwC	5/26/2004	No Flow	Ha Ca Cultida		
	DO	A&WwwA, A&WwwC	8/3/2005	< 0.1	Hg, Se, Sulfide		

Notes:

*Red font denotes uses exceeded that are presumed to apply. Black font denotes uses exceeded that are presumed irrelevant to site

N/A denotes not applicable

DO denotes dissolved oxygen. Because the DO standard is a minimum requirement, exceedances refer to values below the standard.

E. Coli denotes the bacterium *Escherichia Coli*.

 $A\&WwwA\ denotes\ \textbf{Aquatic}\ \&\ \textbf{Wildlife}\ (\textbf{warm}\ \textbf{water})\ \textbf{Acute}$

A&WwwC denotes Aquatic & Wildlife (warm water) Chronic

FBC denotes Full Body Contact

PBC denotes Partial Body Contact

AgL denotes Agricultural Livestock Watering

A&WeA denotes Aquatic and Wildlife (ephemeral)

gpm = gallons per minute

DATA SONDE SUMMARY

	Sonde Station	Average		Observed Range			Diurnal		
Flow Regime		SC	pН	Depth (inches)	SC	pН	Depth (inches)	SC	pН
Runoff Flow	DC135C	150	NA	0 - 107	20 - 400	NA	0.25 - 1	5 - 40	NA
Rulloll Flow	DC10.9C	150	NA	1 - 115	20 - 280	NA	0.25 - 1	5 - 40	NA
	DC8.8C	300	7.5	1 - 117	20 - 450	7 - 8	0.25 - 2	3 - 20	0.1 - 0.8
Mixed Flow	DC7.1C	300	7.5	0 - 145	20 - 600	6 - 9	0.25 - 3	5 - 20	0.1 - 1.3
	DC5.5C	300	7.2	0.5 - 91	20 - 750	6 - 8.5	0.25 - 2.25	1 - 100 ^{-b-}	0.2 - 1
Spring Flow	DC8.2W	280	7.3	4.5 - 5	250 - 280	6 - 7.5 ^{-a-}	0.25 - 0.5	1 - 5	0 - 0.1

Notes:

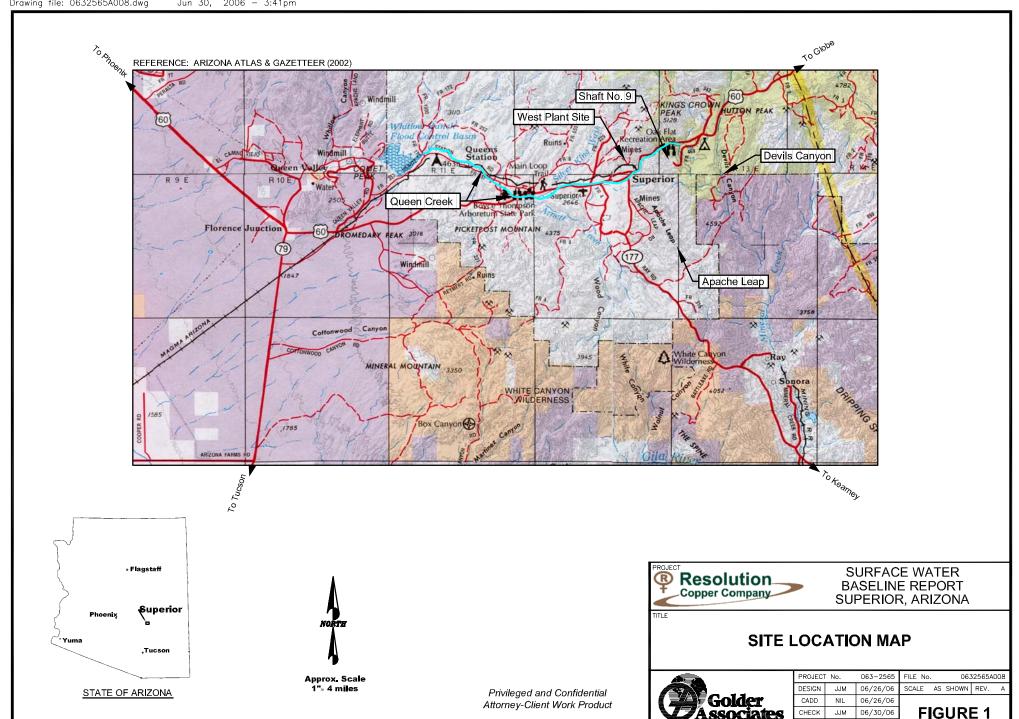
Based on inspection of graphs

SC = specific conductance

NA = Not Available

⁻a- = Low pH occurred after sensor fouling.

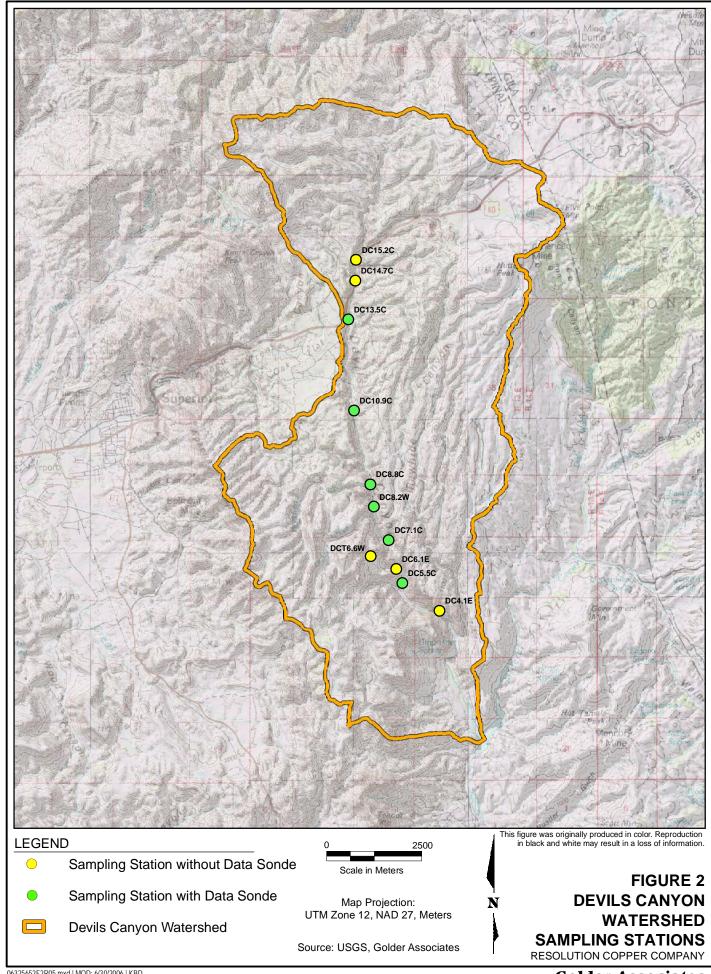
^{-b-} = High reading likely due to partial sensor submergence.

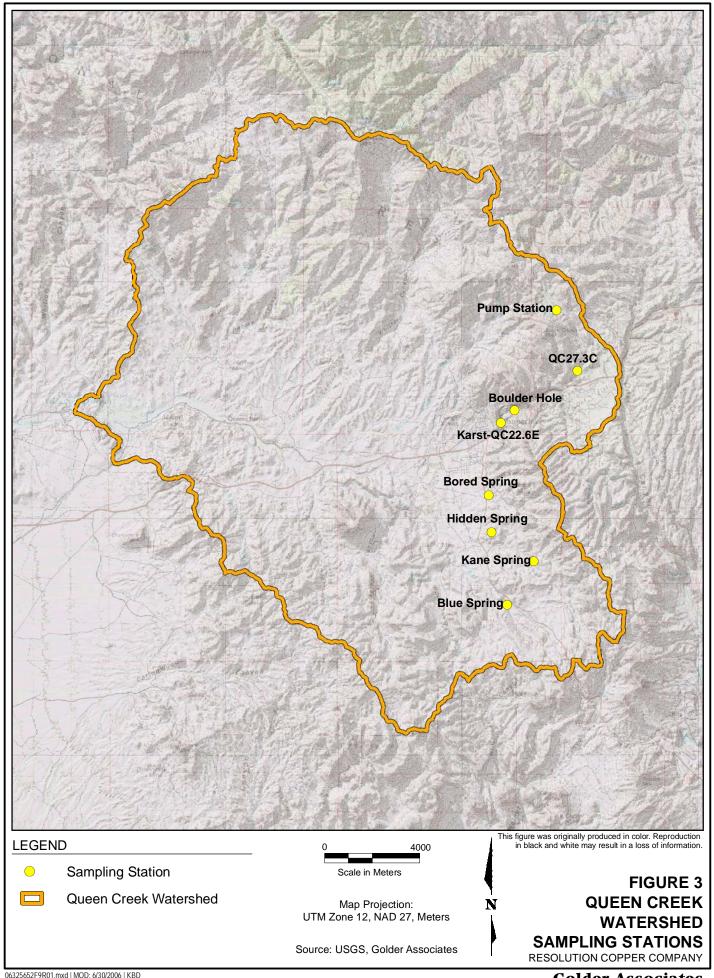


REVIEW

KRJ

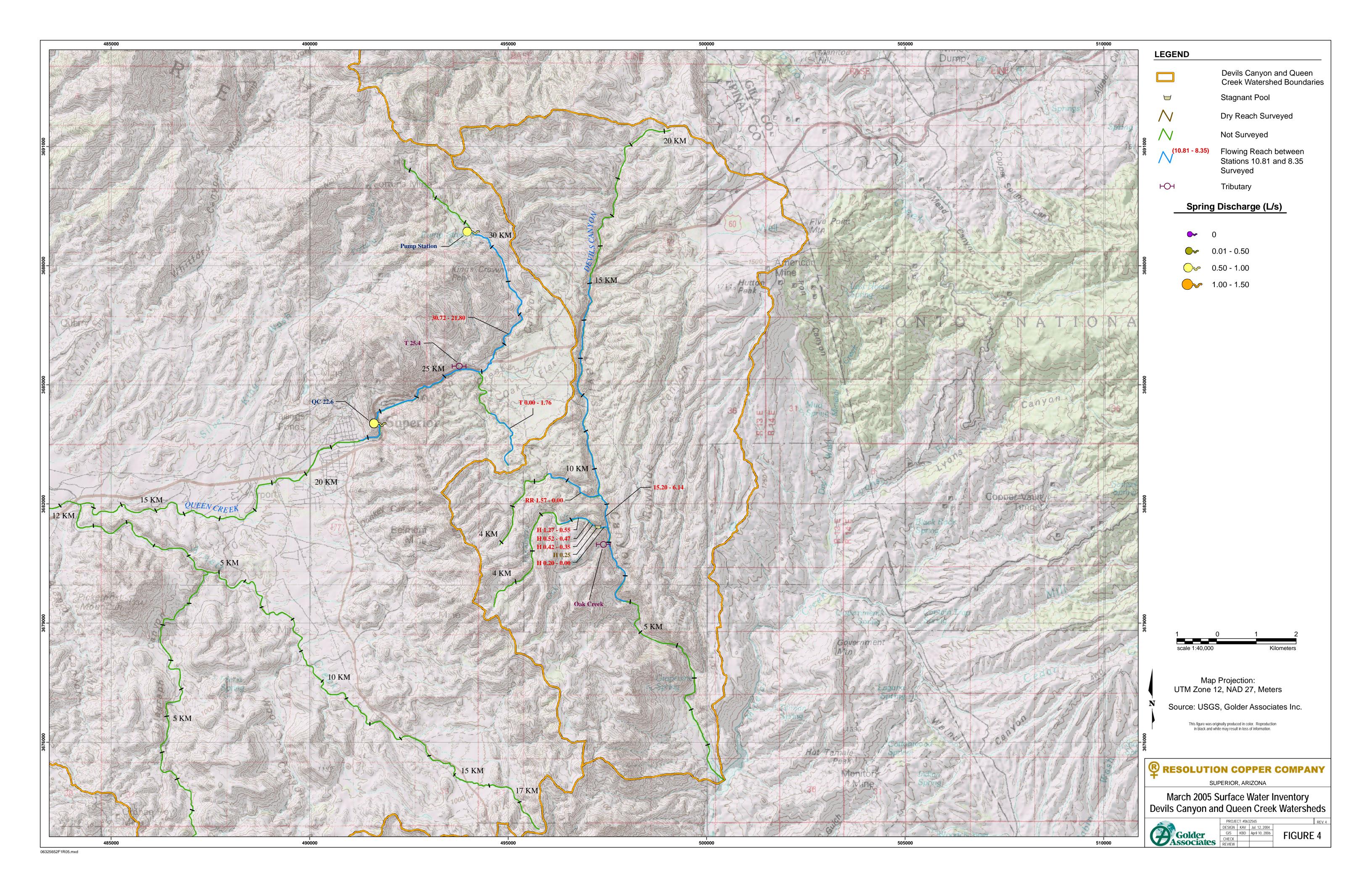
06/30/06

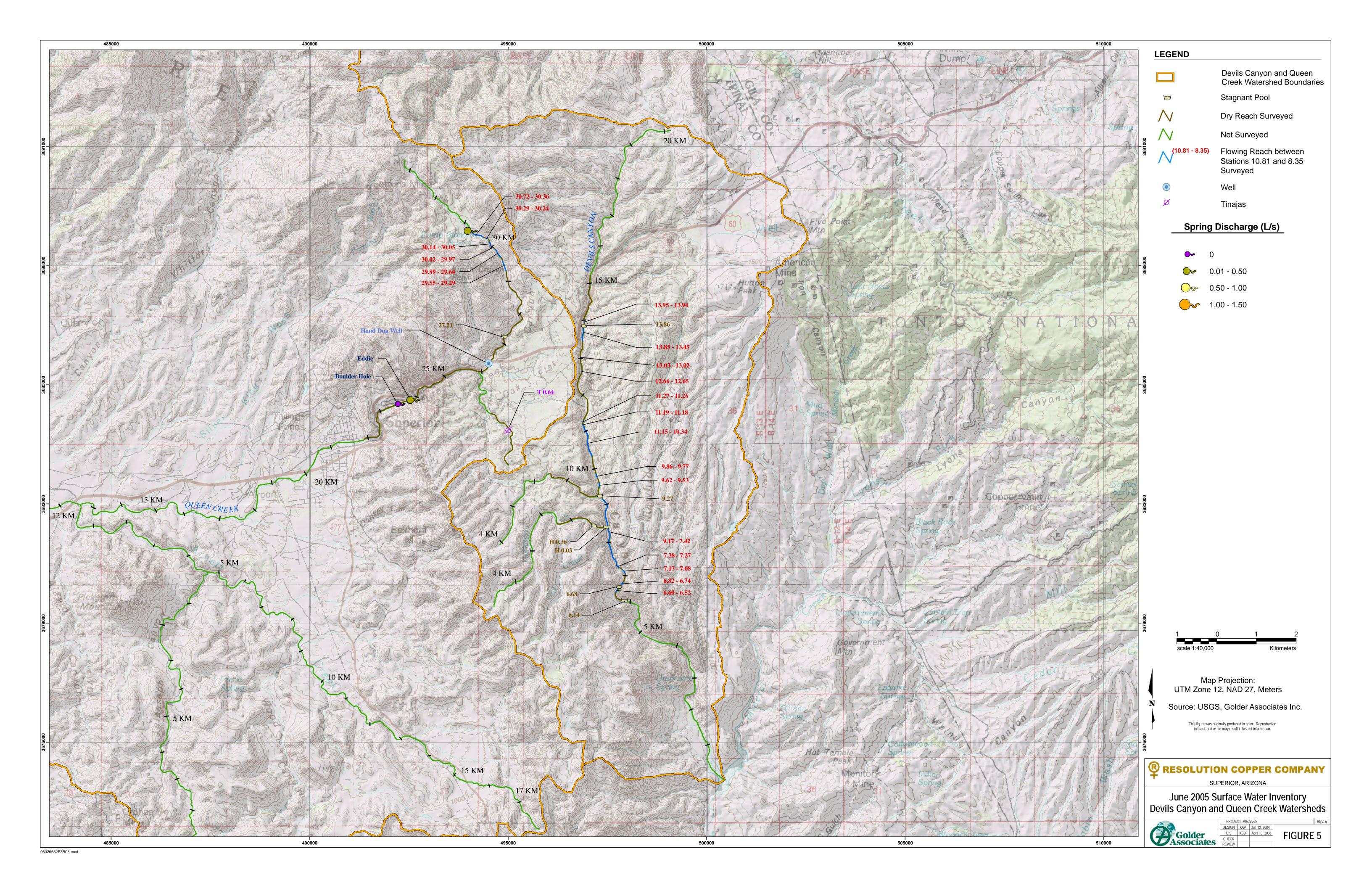


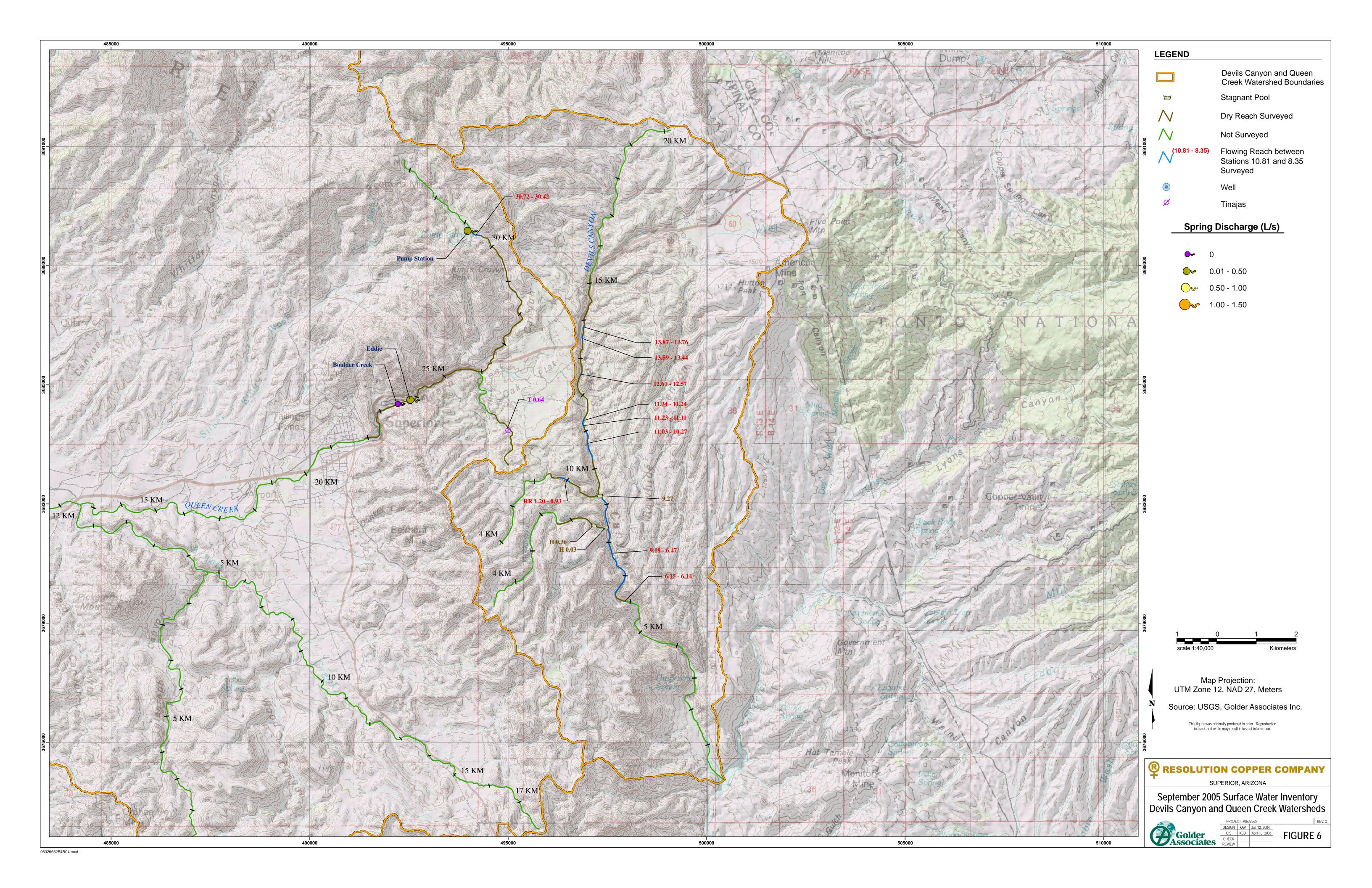


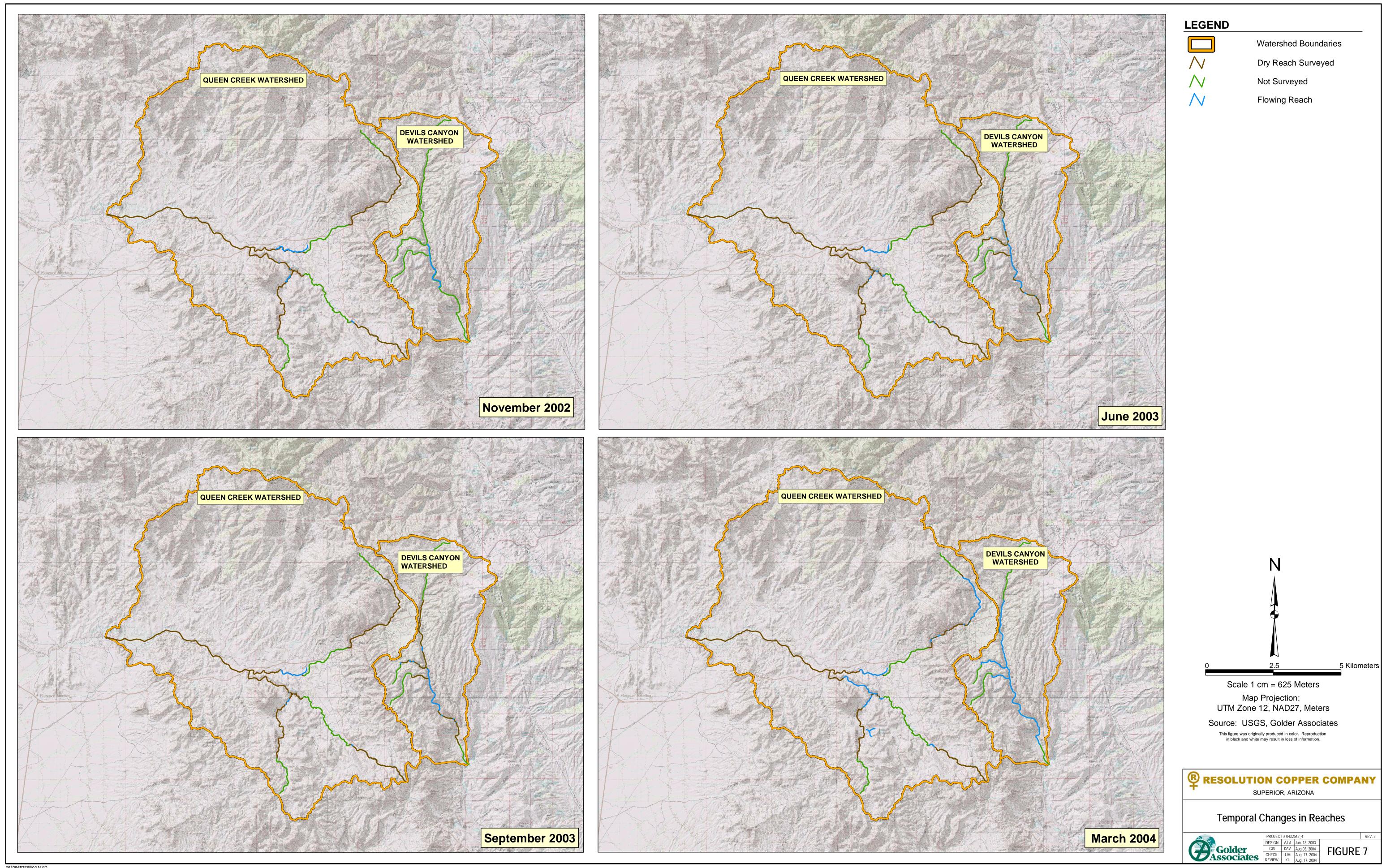
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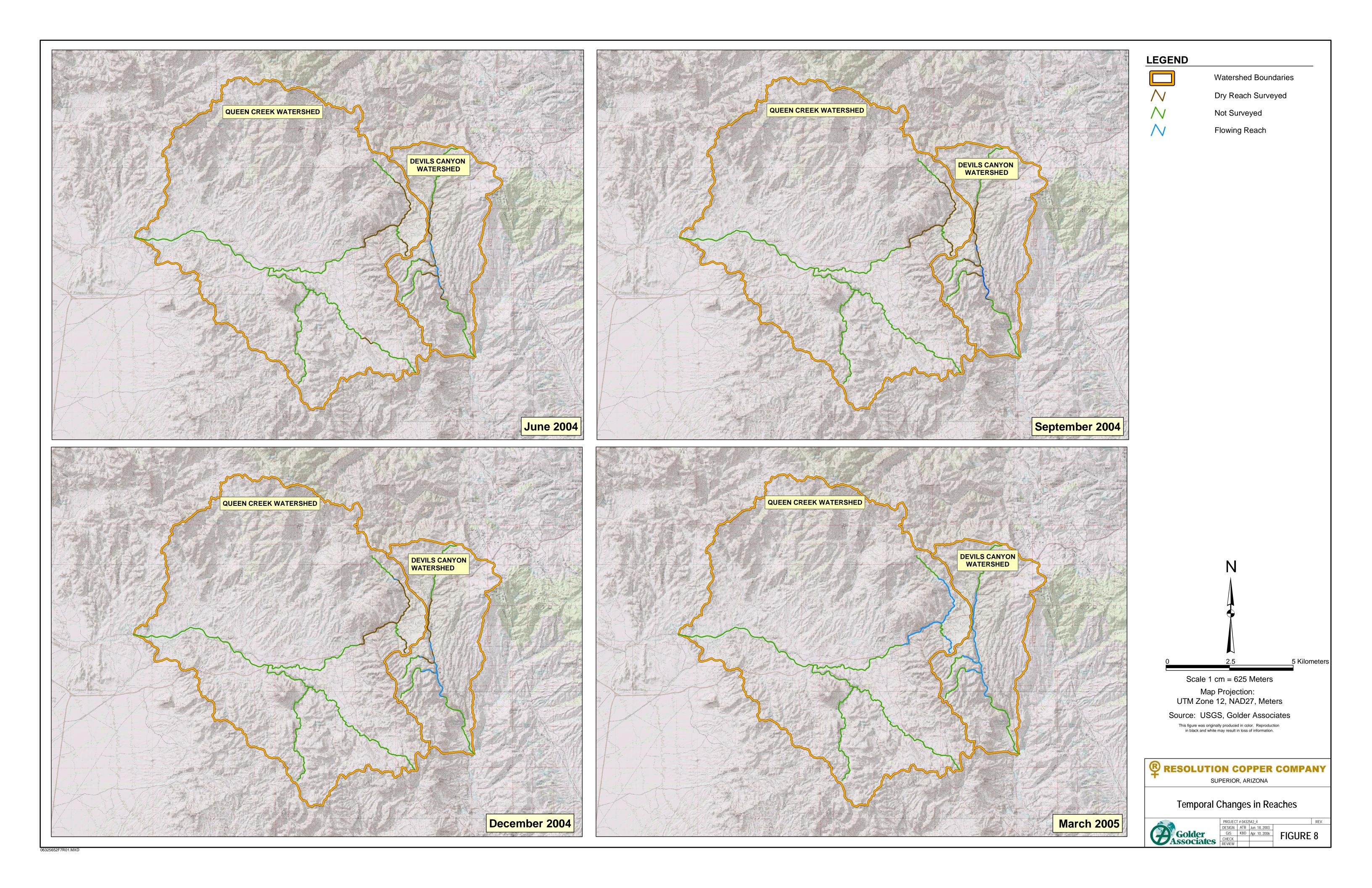
Golder Associates

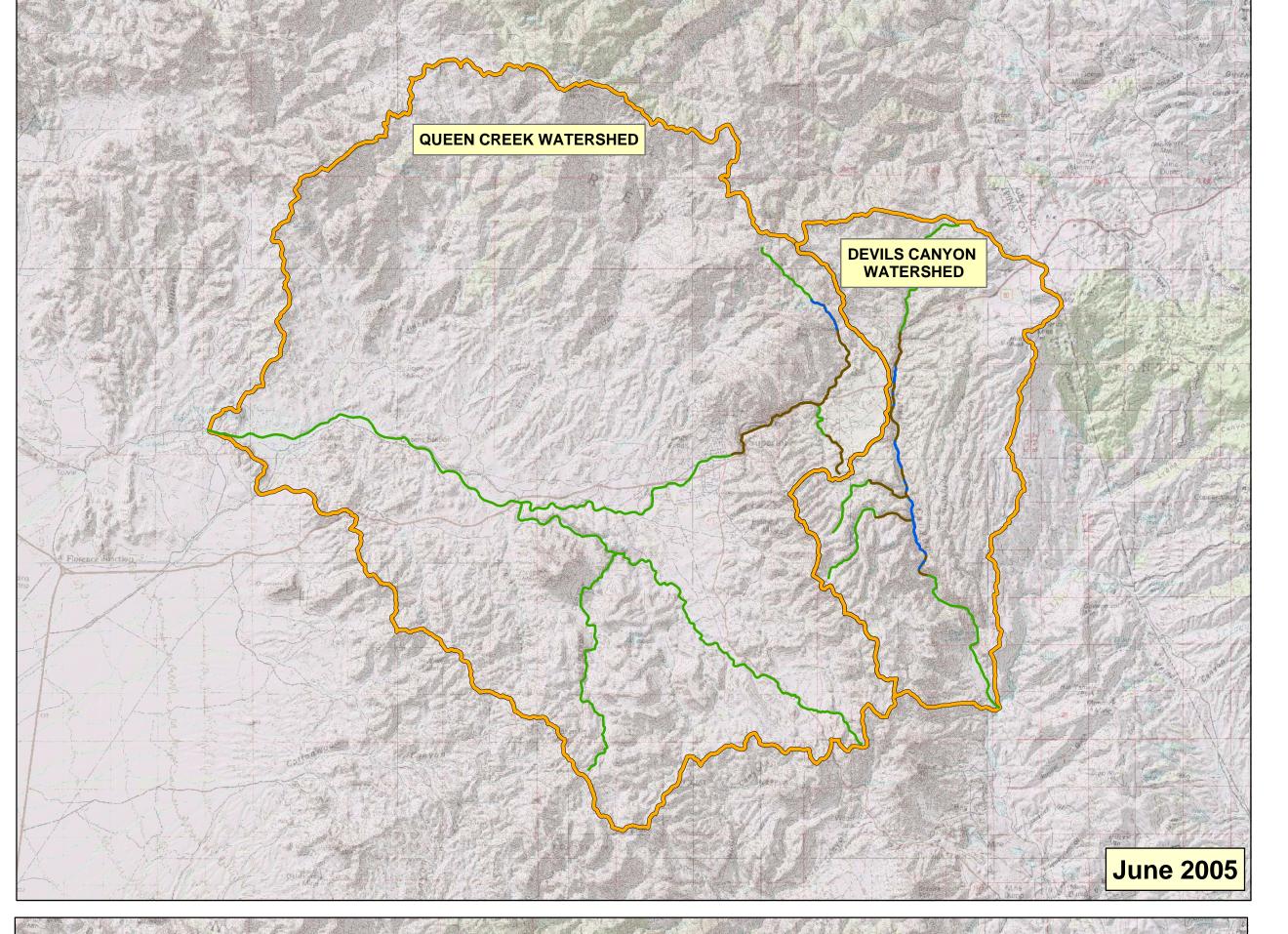


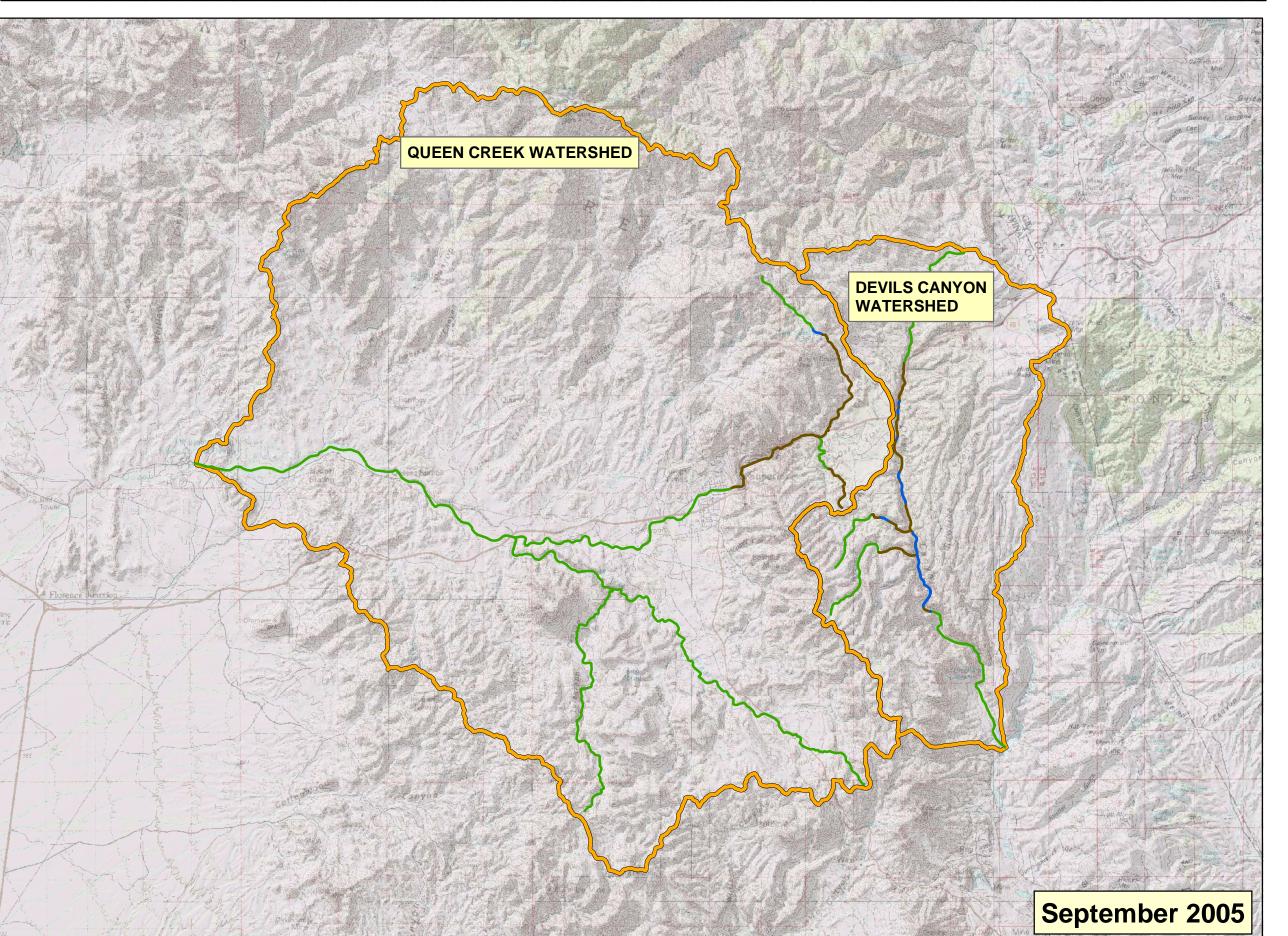




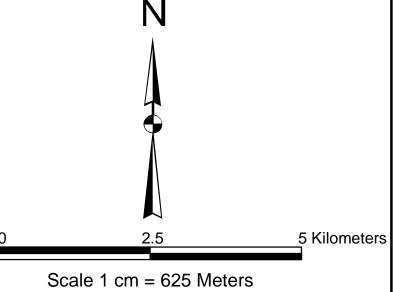












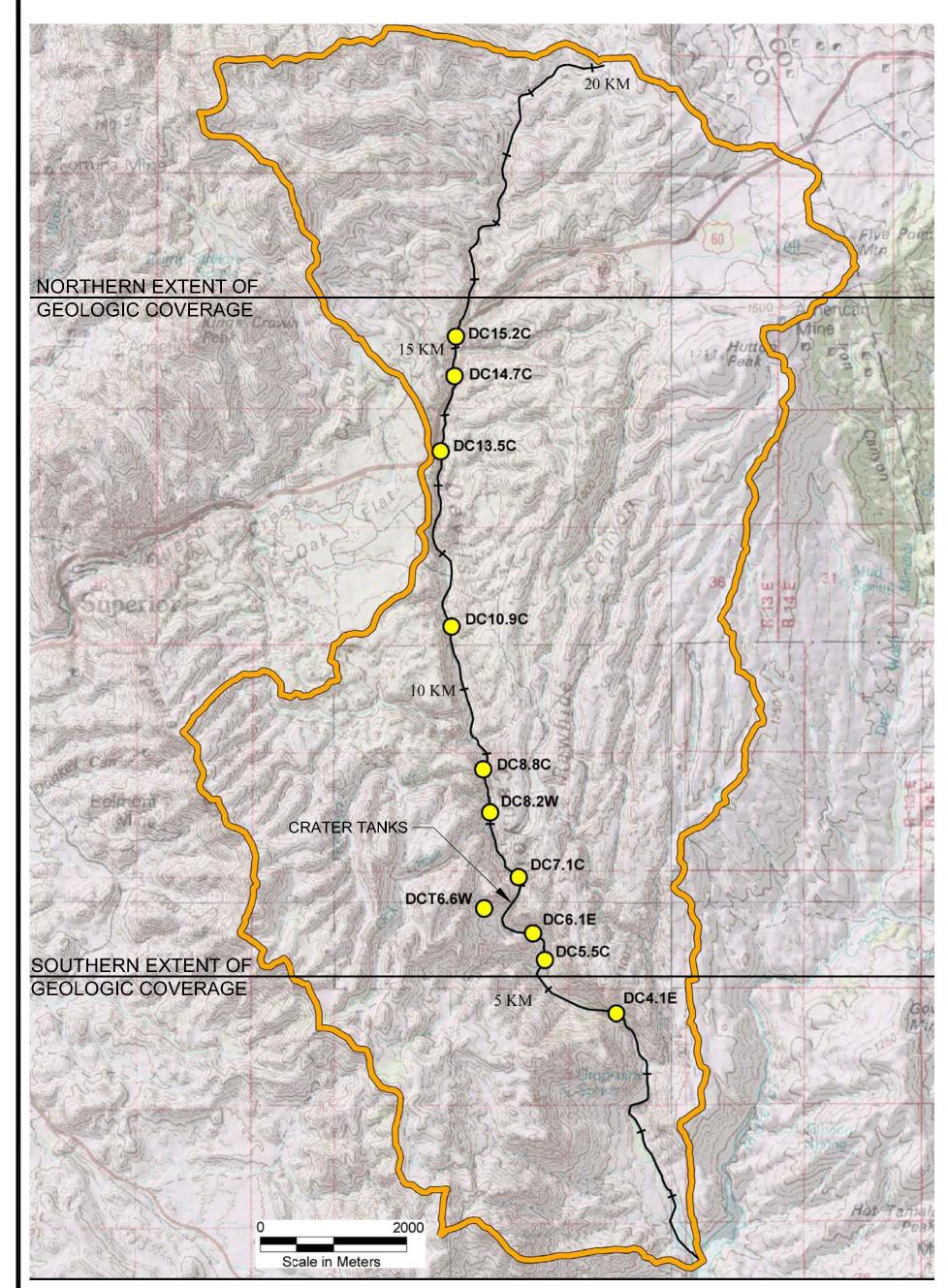
Map Projection: UTM Zone 12, NAD27, Meters

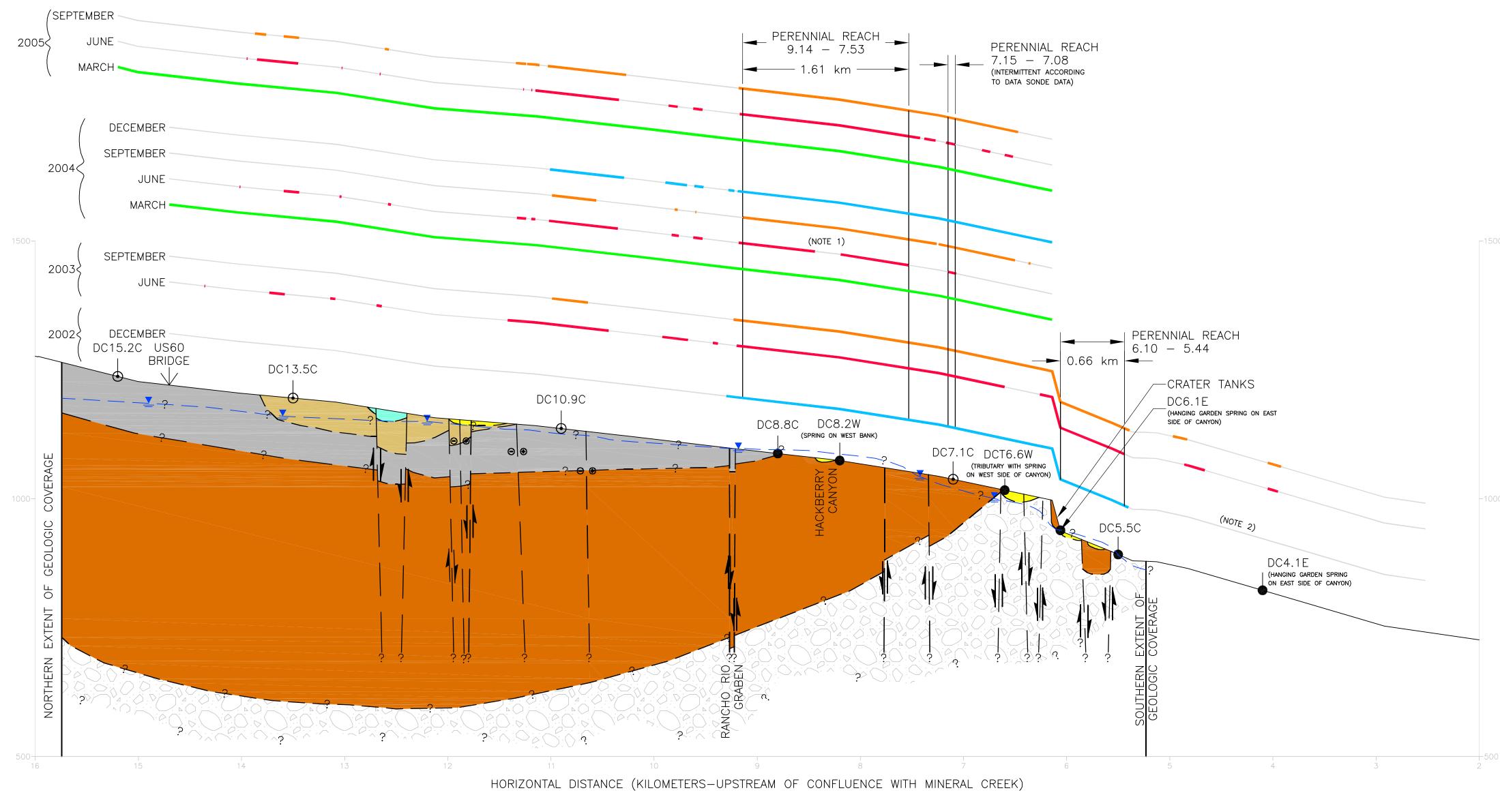
Source: USGS, Golder Associates This figure was originally produced in color. Reproduction in black and white may result in loss of information.



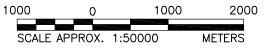
Temporal Changes in Reaches







DEVILS CANYON CHANNEL PLAN VIEW



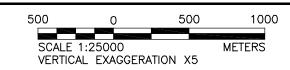
NOTES

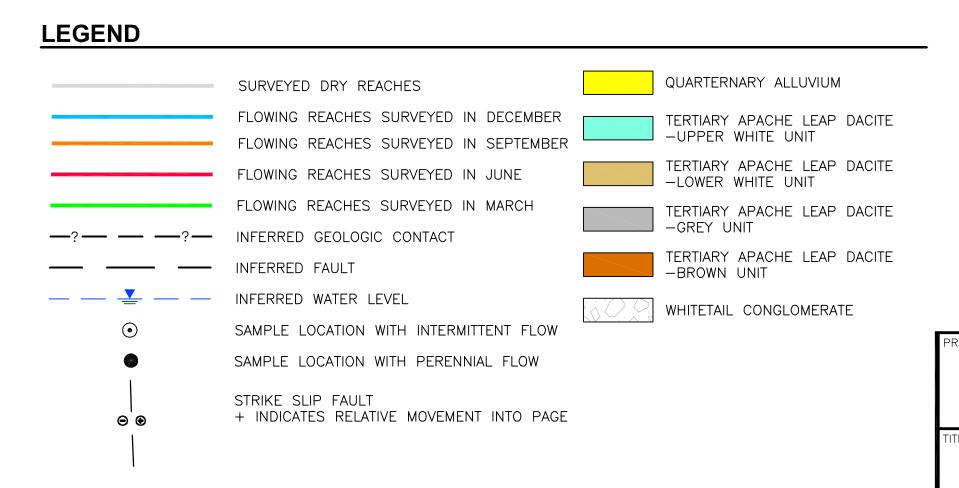
- 1.) NUMEROUS INTERCONNECTED POOLS FED BY SUBFLOW AND TRACE SURFACE FLOW; REACH CONSIDERED PERENNIAL.
- 2.) SMALL REACHES NOT DEPICTED IN LOWER PORTION OF CANYON DUE TO LACK OF DAYLIGHT. (NOT ENOUGH TIME TO GPS COORDINATES)

REFERENCES

- 1.) GEOLOGY MODIFIED FROM SURFACE MAPPING BY RESOLUTION COPPER COMPANY (JOHN GANT AND JOEY WILKINS); RECIEVED VIA EMAIL, APRIL 2006.
- 2.) POTENTIOMETRIC SURFACE AND GEOLOGIC UNIT THICKNESS MODIFIED FROM ERROL L. MONTGOMERY & ASSOCIATES, 2005, "RESULTS OF PRELIMINARY HYDROGEOLOGIC CHARACTERIZATION FOR APACHE LEAP TUFF AQUIFER SYSTEM IN DEVILS CANYON AND UPPER QUEEN CREEK WATERSHEDS, PINAL AND GILA COUNTIES, ARIZONA": DRAFT REPORT PREPARED FOR RESOLUTION COPPER COMPANY, JUNE 3, 2005.

DEVILS CANYON CHANNEL PROFILE



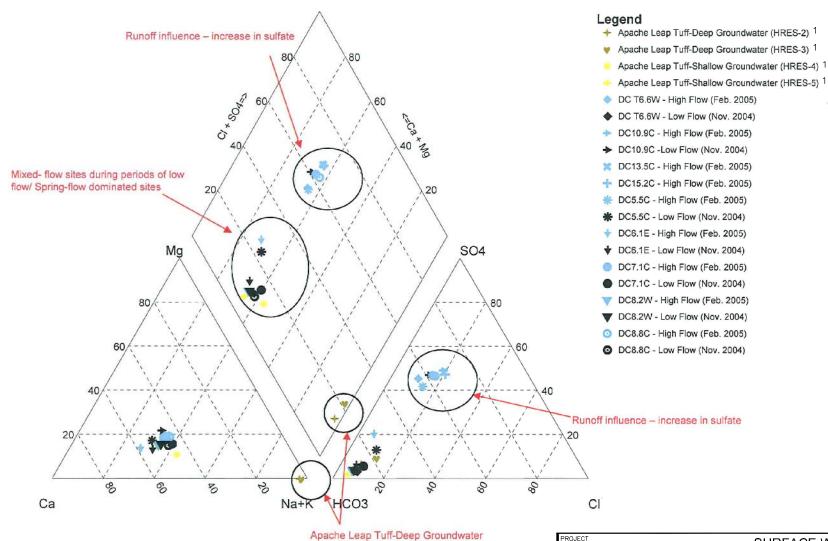


RESOLUTION COPPER COMPANY
SURFACE WATER BASELINE REPORT
SUPERIOR, ARIZONA

DEVILS CANYON CHANNEL PROFILE

	PRO
	DES
FAF Golder	CA
Associates	СН
Tucson Arizona	RF\

JECT	No.	063-2565	FILE No. 0632565A002
IGN	ОМ	04/17/06	SCALE AS SHOWN REV. C
DD	ANV	04/17/06	FIGURE
CK	JJM	05/02/06	l 10 l
IEW	KRJ	06/30/06	· ·



REFERENCES

1.) ERROL L. MONTGOMERY & ASSOCIATES, 2005, "RESULTS OF PRELIMINARY HYDROGEOLOGIC CHARACTERIZATION FOR APACHE LEAP TUFF AQUIFER SYSTEM IN DEVILS CANYON AND UPPER QUEEN CREEK WATERSHEDS, PINAL AND GILA COUNTIES, ARIZONA": DRAFT REPORT PREPARED FOR RESOLUTION COPPER COMPANY, JUNE 3, 2005.



SURFACE WATER BASELINE REPORT SUPERIOR, ARIZONA

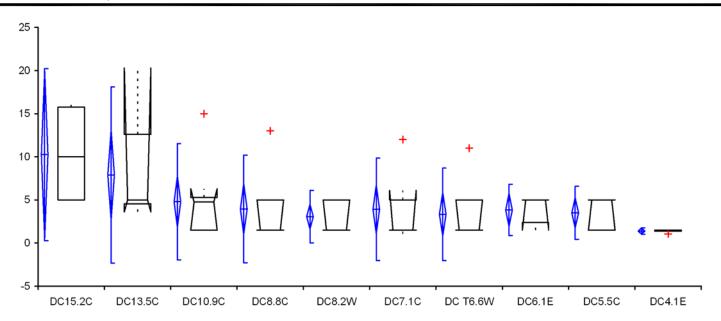
TITLE

TRI-LINEAR PLOT DEVILS CANYON



PROJECT	No.	063-2565	FILE No.		063	2565A	007
DESIGN	JJM	06/26/06	SCALE	AS	SHOWN	REV.	Α
CADD	NIL	06/26/06					
CHECK	JJM	06/30/06	l FIG	GI	JRE	: 11	
PEVIEW	KRI	06/30/06		_			





Cu	n	Mean	SD	SE	95% CI of Mean	Median	IQR	95% CI of Median
DC15.2C	4	10.250	6.0759	3.0380	0.582 to 19.918	10.000	10.750	- to -
DC13.5C	8	7.888	6.2153	2.1974	2.691 to 13.084	5.000	8.050	3.600 to 20.300
DC10.9C	10	4.790	4.1057	1.2983	1.853 to 7.727	4.750	3.775	1.500 to 6.300
DC8.8C	9	3.944	3.7951	1.2650	1.027 to 6.862	1.500	3.500	1.500 to 5.000
DC8.2W	9	3.056	1.8447	0.6149	1.638 to 4.473	1.500	3.500	1.500 to 5.000
DC7.1C	9	3.906	3.6061	1.2020	1.134 to 6.677	1.500	3.500	1.500 to 6.100
DC T6.6W	9	3.333	3.2500	1.0833	0.835 to 5.832	1.500	3.500	1.500 to 5.000
DC6.1E	6	3.833	1.8074	0.7379	1.937 to 5.730	5.000	2.625	1.500 to 5.000
DC5.5C	7	3.500	1.8708	0.7071	1.770 to 5.230	5.000	3.500	1.500 to 5.000
DC4.1E	4	1.388	0.2250	0.1125	1.029 to 1.746	1.500	0.113	- to -



SURFACE WATER BASELINE REPORT SUPERIOR, ARIZONA

COMPARATIVE DESCRIPTIVE STATISTICS FOR DISSOLVED COPPER DEVILS CANYON



PROJECT	Γ No.	063-2565	FILE No.	063	32565AC	004
DESIGN	JJM	06/26/06	SCALE AS	SHOWN	REV.	Α
CADD	NIL	06/26/06				
CHECK	JJM	06/30/06	FIG	URE	: 12	
REVIEW	KRJ	06/30/06				

PROJECT No.

JJM

NIL

JJM

KRJ

DESIGN

CADD

CHECK

REVIEW

063-2565

06/26/06

06/26/06 06/30/06

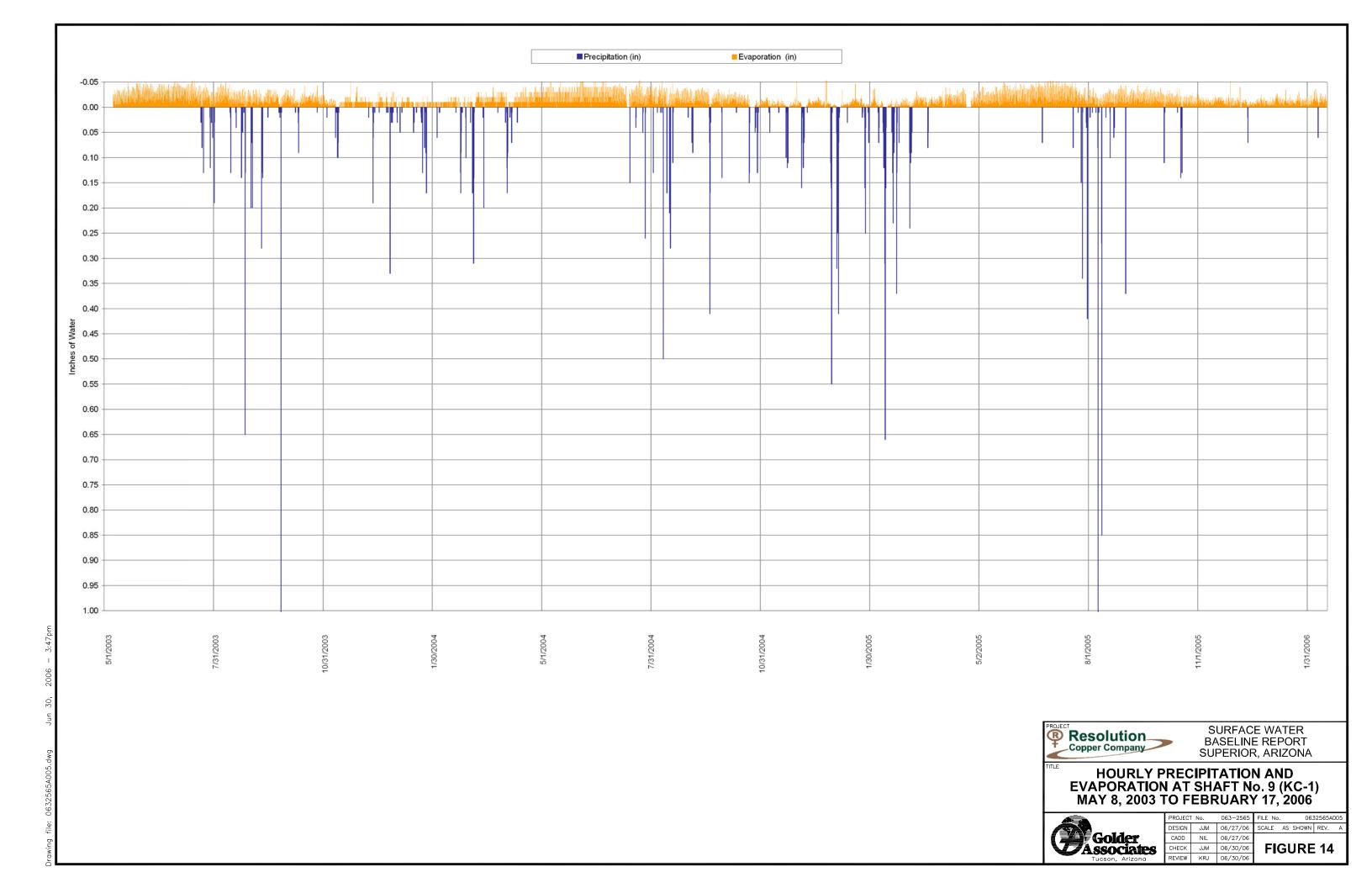
06/30/06

FILE No.

SCALE AS SHOWN REV.

FIGURE 13

0632565AD06



Name/Stationing (km)	Drainage	Feature Type	Data Type (start, end, or point)	Feature Description	Date Observed	UTMx	UTMy	Horizontal Accuracy (+/-m)	Elevation (m)	Source	Geologic Unit	pН	Specific Conductance (µS/cm)	Temperature (Celsius)	Estimated Discharge (L/s)	Description of Photograph	Photograph
13.95	Devils Canyon	Reach	start	10 m flowing reach.	6/20/2005	496,941	3,686,595	-	-	GPS	Mid-Tertiary Apache Leap Dacite Tuff	-	-	-	0.03	Short flowing reach	
13.94	Devils Canyon	Reach	end	-	6/20/2005	496,941	3,686,585	-	-	GPS	Mid-Tertiary Apache Leap Dacite Tuff	-	-	-	-	-	-
13.86	Devils Canyon	Stagnant Pool	point	~4,000 gallon pool.	6/20/2005	496,913	3,686,496	-	-	GPS	Mid-Tertiary Apache Leap Dacite Tuff	-	-	-	-	View of pool	
13.85	Devils Canyon	Reach	start	Flow issues from the southernmost of a series of interconnected pools. Field parameters taken at sample station DC13.5C, where flow was estimated at ~0.06 L/s.	6/20/2005	496,900	3,686,497	-	-	GPS	Mid-Tertiary Apache Leap Dacite Tuff	7.8	165	18.7	0.06	View downstream from beginning of instream flow	
13.45	Devils Canyon	Reach	end	Flow ends in a pool below DC13.5C.	6/20/2005	496,834	3,686,105	·	-	GPS	Mid-Tertiary Apache Leap Dacite Tuff	1	-	-	-	View of pool at end of flow below DC13.5C	
13.03	Devils Canyon	Reach	start	10 m flowing reach. Film on water surface possibly due to residue from fire retardant. Small burnt area near flowing reach.	6/20/2005	496,834	3,685,701		-	GPS	Mid-Tertiary Apache Leap Dacite Tuff	-	-		0.03	View of instream flow near burn area	

Name/Stationing (km)	Drainage	Feature Type	Data Type (start, end, or point)	Feature Description	Date Observed	UTMx	UTMy	Horizontal Accuracy (+/-m)	Elevation (m)	Source	Geologic Unit	pН	Specific Conductance (µS/cm)	Temperature (Celsius)	Estimated Discharge (L/s)	Description of Photograph	Photograph
13.02	Devils Canyon	Reach	end	-	6/20/2005	496,834	3,685,691	-	-	GPS	Mid-Tertiary Apache Leap Dacite Tuff		-		-	-	
12.66	Devils Canyon	Reach	start	10 m flowing reach connecting two pools.	6/20/2005	496,852	3,685,340	-	-	GPS	Mid-Tertiary Apache Leap Dacite Tuff	-	-	-	-	-	-
12.65	Devils Canyon	Reach	end	-	6/20/2005	496,852	3,685,330	-	-	GPS	Mid-Tertiary Apache Leap Dacite Tuff	-	-	-	-	View downstream of reach terminus	
11.27	Devils Canyon	Reach	start	10 m flowing reach.	6/20/2005	496,906	3,684,082	-	-	GPS	Mid-Tertiary Apache Leap Dacite Tuff	-	-	-	<0.03	View near beginning of flow showing extensive algal growth in pool	
11.26	Devils Canyon	Reach	end	-	6/20/2005	496,906	3,684,072	-	-	GPS	Mid-Tertiary Apache Leap Dacite Tuff	-	-	-	-	-	-
11.19	Devils Canyon	Reach	start	10 m flowing reach.	6/20/2005	496,876	3,684,005	-	-	GPS	Mid-Tertiary Apache Leap Dacite Tuff	-	-	-	-	View of pool at top of instream flow	

Name/Stationing (km)	Drainage	Feature Type	Data Type (start, end, or point)	Feature Description	Date Observed	UTMx	UTMy	Horizontal Accuracy (+/-m)	Elevation (m)	Source	Geologic Unit	pН	Specific Conductance (µS/cm)	Temperature (Celsius)	Estimated Discharge (L/s)	Description of Photograph	Photograph
11.18	Devils Canyon	Reach	end	-	6/20/2005	496,873	3,683,998	-	-	GPS	Mid-Tertiary Apache Leap Dacite Tuff	-	-	-	-	View of pool at flow terminus	
11.15	Devils Canyon	Reach	start	Flowing reach. Field parameters taken from DC10.9C. Strong sulfur odor at beginning of reach	6/20/2005	496,892	3,683,966	-	-	GPS	Mid-Tertiary Apache Leap Dacite Tuff	7.1	110	20.3	0.2	View of shallow pool at top of flow	
10.34	Devils Canyon	Reach	end		6/20/2005	497,095	3,683,209		-	GPS	Mid-Tertiary Apache Leap Dacite Tuff	-	-			View downstream near end of flow	
9.86	Devils Canyon	Reach	start	Approximately 100 m flowing reach.	6/20/2005	497,255	3,682,754	-	-	GPS	Mid-Tertiary Apache Leap Dacite Tuff	-	-	-	0.05	View of heavily vegetated area and boulders near top of flow	
9.77	Devils Canyon	Reach	end	Flow ends in pool.	6/20/2005	497,278	3,682,673	-	-	GPS	Mid-Tertiary Apache Leap Dacite Tuff	-	-	-	-	Pool at end of flow	
9.62	Devils Canyon	Reach	start	Approximately 100 m flowing reach.	6/20/2005	497,269	3,682,515	-	-	GPS	Mid-Tertiary Apache Leap Dacite Tuff	-	-	-	-		

Name/Stationing (km)	Drainage	Feature Type	Data Type (start, end, or point)	Feature Description	Date Observed	UTMx	UTMy	Horizontal Accuracy (+/-m)	Elevation (m)	Source	Geologic Unit	pН	Specific Conductance (μS/cm)	Temperature (Celsius)	Estimated Discharge (L/s)	Description of Photograph	Photograph
9.53	Devils Canyon	Reach	end	Flow ends in a long, narrow pool.	6/20/2005	497,263	3,682,443	-	-	GPS	Mid-Tertiary Apache Leap Dacite Tuff	-	-	-	-		
9.27	Devils Canyon	Stagnant Pool	point	~9,000 gallon pool at confluence of Rancho Rio and Devils Canyon.	6/20/2005	497,312	3,682,226	-	-	GPS	Mid-Tertiary Apache Leap Dacite Tuff	-	-	-	-	View of pool at confluence of Devils Canyon and Rancho Rio	
9.17	Devils Canyon	Reach	start	Beginning of perennial reach. Field parameters taken at DC8.8C.	6/20/2005	497,375	3,682,122	-	-	GPS	Mid-Tertiary Apache Leap Dacite Tuff	7.4	277	18.3	0.3	View near beginning of flow	
7.42	Devils Canyon	Reach	end	Flow ends in a series of small, seemingly stagnant pools.	6/28/2005	497,740	3,680,517	-	-	GPS	Mid-Tertiary Apache Leap Dacite Tuff	-	-	-	-	View near end of flow and stagnant pools	
Н 0.36	Hackberry Canyon	Stagnant Pool	point	~ 3,000 gallon pool below falls in middle Hackberry Canyon.	6/28/2005	497,166	3,681,477	-	-	GPS	Mid-Tertiary Apache Leap Dacite Tuff	8.1	181	22.5	-	View of pool in middle Hackberry Canyon	
H 0.03	Hackberry Canyon	Stagnant Pool	point	Large pool at base of Hackberry Canyon near confluence with Devils Canyon. Approximately 20,000 to 30,000 gallons.	6/28/2005	497,480	3,681,348	-	-	GPS	Mid-Tertiary Apache Leap Dacite Tuff	8.8	203	25.0	-	-	-

Name/Stationing (km)	Drainage	Feature Type	Data Type (start, end, or point)	Feature Description	Date Observed	UTMx	UTMy	Horizontal Accuracy (+/-m)	Elevation (m)	Source	Geologic Unit	pН	Specific Conductance (µS/cm)	Temperature (Celsius)	Estimated Discharge (L/s)	Description of Photograph	Photograph
7.38	Devils Canyon	Reach	start	Flowing reach.	6/28/2005	497,738	3,680,474	11	-	GPS	Mid-Tertiary Apache Leap Dacite Tuff	-	-	-	0.03	Pool at base of bedrock near start of flow	
7.27	Devils Canyon	Reach	end	-	6/28/2005	497,791	3,680,377	7	-	GPS	Mid-Tertiary Apache Leap Dacite Tuff		-	1	-	Pool at flow terminus	
7.17	Devils Canyon	Reach	start	Flowing reach. Field parameters taken from DC7.1C.	6/28/2005	497,912	3,680,365	5	-	GPS	Mid-Tertiary Apache Leap Dacite Tuff	7.6	298	24.0	0.1	View of DC7.1C	
7.08	Devils Canyon	Reach	end	Flow terminates in 2 pools, each <500 gallons.	6/28/2005	497,959	3,680,272	6	-	GPS	Mid-Tertiary Apache Leap Dacite Tuff	-	-	-	-	Boulders near flow terminus	
6.82	Devils Canyon	Reach	start	Flowing reach.	6/28/2005	497,900	3,680,013	6	-	GPS	Mid-Tertiary Apache Leap Dacite Tuff	-	-	-	-	View upstream toward beginning of flow	
6.74	Devils Canyon	Reach	end	-	6/28/2005	497,834	3,679,968	6	-	GPS	Mid-Tertiary Apache Leap Dacite Tuff	1	-	-	-	Flow ponding, going underground behind boulder dam	

Name/Stationing (km)	Drainage	Feature Type	Data Type (start, end, or point)	Feature Description	Date Observed	UTMx	UTMy	Horizontal Accuracy (+/-m)	Elevation (m)	Source	Geologic Unit	pН	Specific Conductance (µS/cm)	Temperature (Celsius)	Estimated Discharge (L/s)	Description of Photograph	Photograph
6.68	Devils Canyon	Stagnant Pool	point	Pool ~6,000 gallons.	6/28/2005	497,790	3,679,927	6	-	GPS	Mid-Tertiary Apache Leap Dacite Tuff	-	-	-	-	View of pool with abundant algal growth	
6.60	Devils Canyon	Reach	start	Beginning of instream flow. Flow issues from a pool.	6/28/2005	497,738	3,679,865	6	-	GPS	Mid-Tertiary Apache Leap Dacite Tuff	-	-	-	-	View of pool at start of flow	
6.52	Devils Canyon	Reach	end	-	6/28/2005	497,701	3,679,788	9	-	GPS	Mid-Tertiary Apache Leap Dacite Tuff	-	-	-	-	-	
6.14	Devils Canyon	Stagnant Pool	point	Uppermost "Crater Tank". End of survey.	6/28/2005	497,932	3,679,581	-	-	GPS	Mid-Tertiary Apache Leap Dacite Tuff	-	-	-	-	View of lower Crater Tanks showing no flow between pools	

Name/Stationing (km)	Drainage	Feature Type	Data Type (start, end, or point)	Feature Description	Date Observed	UTMx	UTMy	Horizontal Accuracy (+/-m)	Elevation (m)	Source	Geologic Unit	pН	Specific Conductance (µS/cm)	Temperature (Celsius)	Estimated Discharge (L/s)	Description of Photograph	Photograph
15.20	Devils Canyon	Reach	start	Flowing reach at uppermost sampling station (near confluence of Iron and Devils Canyon). Flow was continuous for entire surveyed reach of canyon. Field parameters taken at DC15.2.	3/22/2005	497,069	3,687,707	8	-	GPS	Primarily Mid- Tertiary Apache Leap Dacite Tuff, with small sections of Whitetail Conglomerate in lower portion of reach.	7.6	112	8.8	20	View of DC15.2C	
6.14	Devils Canyon	Reach	end	Field parameters taken at 7.1C. Average estimated discharge for the entire flowing reach was approximately 15 L/s.	3/30/2005	497,932	3,679,581	5	-	GPS	Primarily Mid- Tertiary Apache Leap Dacite Tuff, with small sections of Whitetail Conglomerate in lower portion of reach.	7.8	130	13.7	15	View of Uppermost "Crater Tank"	
RR 1.57	Rancho Rio	Reach	start	Field parameters taken at UTM: 496,126 3,682,670. Flow was continuous for the surveyed reach of Rancho Rio. Some short sections of subflow. No flowing tributaries noted in Rancho Rio. Average estimated discharge for the entire flowing reach was 0.5 L/s.	3/22/2005	496,013	3,682,817	·	1	GPS	Mid-Tertiary Apache Leap Dacite Tuff	7.8	82	19.3	0.6	View looking upstream at flow in bedrock section of canyon	
RR 0.00	Rancho Rio	Reach	end	Field parameters taken at bottom of surveyed reach.	3/22/2005	497,273	3,682,243			GPS	Mid-Tertiary Apache Leap Dacite Tuff	7.7	74	16.9	0.3	View of lower Rancho Rio near Devils Canyon confluence	
Н 1.27	Hackberry Canyon	Reach	start	Uppermost flowing reach begins immediately downstream of windmill.	3/30/2005	496,322	3,681,532	÷		GPS	Mid-Tertiary Apache Leap Dacite Tuff	8.1	116	11.3	0.6	View of Upper Hackberry Canyon	
Н 0.55	Hackberry Canyon	Reach	end	-	3/30/2005	497,000	3,681,571	-	-	GPS	Mid-Tertiary Apache Leap Dacite Tuff	-	-	-	-	View of end of flow	

Name/Stationing (km)	Drainage	Feature Type	Data Type (start, end, or point)	Feature Description	Date Observed	UTMx	UTMy	Horizontal Accuracy (+/-m)	Elevation (m)	Source	Geologic Unit	pН	Specific Conductance (µS/cm)	Temperature (Celsius)	Estimated Discharge (L/s)	Description of Photograph	Photograph
Н 0.52	Hackberry Canyon	Reach	start	Surface flow re-emerges from beneath boulder drain (~0.3 L/s).	3/30/2005	497,036	3,681,566	-	-	GPS	Mid-Tertiary Apache Leap Dacite Tuff	-	-	-	0.3	Re-emergence of surface flow	
Н 0.47	Hackberry Canyon	Reach	end	-	3/30/2005	497,076	3,681,532	-	-	GPS	Mid-Tertiary Apache Leap Dacite Tuff	-	-			Surface flow disappearing beneath boulders and sand	
Н 0.42	Hackberry Canyon	Reach	start	Surface flow re-emerges from beneath boulder drain (~0.3 L/s). Estimated discharge shown is from Station 6. Field parameters taken from Station 7 (UTM: 497,147 3,681,471). Station 7 is a clear pool fed by falls (~0.6 L/s).	3/30/2005	497,095	3,681,481	-	-	GPS	Mid-Tertiary Apache Leap Dacite Tuff	8.1	116	11.3	0.3	Re-emergence of surface flow; pools	
Н 0.35	Hackberry Canyon	Reach	end	Flow goes underground.	3/30/2005	497,168	3,681,457	-	-	GPS	Mid-Tertiary Apache Leap Dacite Tuff	-	-	-	-	Surface flow disappearing beneath boulders and sand	
Н 0.25	Hackberry Canyon	Pool	point	Pool near cedar tree. Estimated volume = 3,000 gallons.	3/30/2005	497,276	3,681,419	-	-	GPS	Mid-Tertiary Apache Leap Dacite Tuff	-	-	-	-	Looking downstream at pool with large juniper	
Н 0.20	Hackberry Canyon	Reach	start	Surface flow re-emerges.	3/30/2005	497,310	3,681,418	-	-	GPS	Mid-Tertiary Apache Leap Dacite Tuff	-	-	-	0.6	Re-emergence of surface flow	

June 2006

Name/Stationing (km)	Drainage	Feature Type	Data Type (start, end, or point)	Feature Description	Date Observed	UTMx	UTMy	Horizontal Accuracy (+/-m)	Elevation (m)	Source	Geologic Unit	рН	Specific Conductance (µS/cm)	Temperature (Celsius)	Estimated Discharge (L/s)	Description of Photograph	Photograph
Н 0.00	Hackberry Canyon	Reach	end	The confluence of Hackberry Canyon with Devils Canyon. Field parameters taken at UTM: 497,440 3,681,440, a pool at the base of Hackberry Canyon, surface inflow at pool was ~0.6 L/s, surface outflow ~0.3 L/s. No tributaries were observed in Hackberry Canyon.	3/30/2005	497,517	3,681,448	-		GPS	Mid-Tertiary Apache Leap Dacite Tuff	8.1	117	12.2	0.1	Large pool at the base of Hackberry Canyon, near confluence with Devils Canyon	
Oak Creek	Oak Canyon	Tributary	point	Flow was continuous for the surveyed length of Oak Creek Canyon.	3/30/2005	497,394	3,680,982	-	-	GPS	Mid-Tertiary Apache Leap Dacite Tuff	7.8	135	13.2	0.3	View upstream near pool at top of surveyed reach.	

Name/Stationing (km)	Drainage	Feature Type	Data Type (start, end, or point)	Feature Description	Date Observed	UTMx	UTMy	Horizontal Accuracy (+/-m)	Elevation (m)	Source	Geologic Unit	pН	Specific Conductance (µS/cm)	Temperature (Celsius)	Estimated Discharge (L/s)	Description of Photograph	Photograph
13.87	Devils Canyon	Reach	start	Flowing reach.	9/30/2005	496,898	3,986,514	-	-	GPS	Mid-Tertiary Apache Leap Dacite Tuff	-	-	-	0.03	-	-
13.76	Devils Canyon	Reach	end	-	9/30/2005	496,902	3,986,408	-	-	GPS	Mid-Tertiary Apache Leap Dacite Tuff	-	-	-	-	-	-
13.59	Devils Canyon	Reach	start	Flowing reach.	9/30/2005	496,866	3,686,244	5	-	GPS	Mid-Tertiary Apache Leap Dacite Tuff	-	-		0.06	-	
13.44	Devils Canyon	Reach	end	-	9/30/2005	496,857	3,686,097	10	-	GPS	Mid-Tertiary Apache Leap Dacite Tuff	-	-	-	-	-	
12.61	Devils Canyon	Reach	start	Flowing reach.	9/30/2005	496,864	3,685,279	12	-	GPS	Mid-Tertiary Apache Leap Dacite Tuff		-	-	0.20	-	
12.57	Devils Canyon	Reach	end	-	9/30/2005	496,862	3,685,232	16	-	GPS	Mid-Tertiary Apache Leap Dacite Tuff	-	-	-	-	-	

Name/Stationing (km)	Drainage	Feature Type	Data Type (start, end, or point)	Feature Description	Date Observed	UTMx	UTMy	Horizontal Accuracy (+/-m)	Elevation (m)	Source	Geologic Unit	pН	Specific Conductance (µS/cm)	Temperature (Celsius)	Estimated Discharge (L/s)	Description of Photograph	Photograph
11.34	Devils Canyon	Reach	start	Flowing reach.	9/30/2005	496,915	3,684,156		-	GPS	Mid-Tertiary Apache Leap Dacite Tuff	-	-	-	-	-	
11.24	Devils Canyon	Reach	end	-	9/30/2005	496,876	3,684,045	7	-	GPS	Mid-Tertiary Apache Leap Dacite Tuff	1	-	-	-	-	
11.23	Devils Canyon	Reach	start	Flowing reach.		496,867	3,684,039	7	-	GPS	Mid-Tertiary Apache Leap Dacite Tuff	-	-	-	-	-	
11.11	Devils Canyon	Reach	end	-		496,884	3,683,930	5	-	GPS	Mid-Tertiary Apache Leap Dacite Tuff	-	-	-	-	-	
11.03	Devils Canyon	Reach	start	Flowing reach. Field parameters taken at sample station DC10.9C.	9/30/2005	496,939	3,683,852	5	-	GPS	Mid-Tertiary Apache Leap Dacite Tuff	7.8	107	20.3	0.30	-	
10.27	Devils Canyon	Reach	end	-	9/30/2005	497,121	3,683,144	6	-	GPS	Mid-Tertiary Apache Leap Dacite Tuff	-	-	-	-	-	

Name/Stationing (km)	Drainage	Feature Type	Data Type (start, end, or point)	Feature Description	Date Observed	UTMx	UTMy	Horizontal Accuracy (+/-m)	Elevation (m)	Source	Geologic Unit	pН	Specific Conductance (µS/cm)	Temperature (Celsius)	Estimated Discharge (L/s)	Description of Photograph	Photograph
9.27	Devils Canyon	Stagnant Pool	point	Large (>1,000 gallon pool at confluence of Rancho Rio and Devils Canyon.	10/12/2005	497,312	3,682,226	-	-	GPS	Mid-Tertiary Apache Leap Dacite Tuff	-	-	-	-	-	-
RR 1.20	Rancho Rio	Reach	start	Series of bedrock pools with flow between pools.	9/30/2005	496,312	3,682,692	-	-	GPS	Mid-Tertiary Apache Leap Dacite Tuff	-	-	-	0.06	-	-
RR 0.93	Rancho Rio	Reach	end	-	9/30/2005	496,647	3,682,713	-	-	GPS	Mid-Tertiary Apache Leap Dacite Tuff	-	-	-	-	-	-
9.18	Devils Canyon	Reach	start	Flowing reach - beginning of perennial reach.	9/30/2005	497,380	3,682,134	8	-	GPS	Mid-Tertiary Apache Leap Dacite Tuff	-	-	-	0.60	-	-
6.47	Devils Canyon	Reach	end	End of instream flow.	9/30/2005	497,647	3,679,738	10	-	GPS	Mid-Tertiary Apache Leap Dacite Tuff	-	-	-	-	-	-
Н 0.36	Hackberry	Stagnant Pool	point	Large pool formerly referred to as Kent's Pool.	10/12/2005	497,166	3,681,477	-	-	GPS	Mid-Tertiary Apache Leap Dacite Tuff	-	-	-	-	-	-

Name/Stationing (km)	Drainage	Feature Type	Data Type (start, end, or point)	Feature Description	Date Observed	UTMx	UTMy	Horizontal Accuracy (+/-m)	Elevation (m)	Source	Geologic Unit	рН	Specific Conductance (μS/cm)	Temperature (Celsius)	Estimated Discharge (L/s)	Description of Photograph	Photograph
Н 0.03	Hackberry	Stagnant Pool	point	Large pool at base of Hackberry Canyon near confluence with Devils Canyon.	10/12/2005	497,480 3,	6,681,348	-	-	GPS	Mid-Tertiary Apache Leap Dacite Tuff	-	-	-	-	-	-
6.15	Devils Canyon	Reach	start	Flowing reach that starts approximately 10 m above first "Crater Tank" and ends at the tank that is the end point of the survey.	10/12/2005	497,916 3,	3,679,563	-	-	GPS	Mid-Tertiary Apache Leap Dacite Tuff	-	-	-	0.30	-	-
6.14	Devils Canyon	Reach	end	-	10/12/2005	497,946 3,	3,679,583	-	-	GPS	Mid-Tertiary Apache Leap Dacite Tuff	-	-	-	-	-	-

Name/Stationing (km)	Drainage	Feature Type	Data Type (start, end, or point)	Feature Description	Date Observed	UTMx	UTMy	Horizontal Accuracy (+/-m)	Elevation (m)	Source	Geologic Unit	pН	Specific Conductance (µS/cm)	Temperature (Celsius)	Estimated Discharge (L/s)	Description of Photograph	Photograph
Pump Station	Queen Creek	Spring	point	Field parameters taken from Pump Station.	6/16/2005	494,058	3,688,879	-	-	GPS	Near contact of Haunted Canyon Rhyolite and Marble	7.7	830	14.9	0.13	-	-
30.72	Queen Creek	Reach	start	Reach starts at Pump Station Spring. Flow begins approximately where road crosses Queen Creek in parking area.	6/16/2005	494,058	3,688,879	-	-	GPS	Near contact of Haunted Canyon Rhyolite and Marble	-	-	-	0.13	Algal growth at Pump Station Spring	
30.36	Queen Creek	Reach	end	End of instream flow.	6/16/2005	494,373	3,688,715	-	-	GPS	Near contact of Haunted Canyon Rhyolite and Marble	1		-	-	-	-
30.29	Queen Creek	Reach	start	Flowing reach.	6/16/2005	494,442	3,688,670	-	-	GPS	Mid-Tertiary Apache Leap Dacite Tuff	-			0.03	Top of flowing reach	
30.24	Queen Creek	Reach	end	-	6/16/2005	494,479	3,688,669	-	-	GPS	Mid-Tertiary Apache Leap Dacite Tuff	-	-			View downstream showing end of flow	
30.14	Queen Creek	Reach	start	Approximately 100 m flowing reach. Several small pools (<100 gallons) immediately downstream of flowing reach.	6/16/2005	494,531	3,688,592	-	-	GPS	Mid-Tertiary Apache Leap Dacite Tuff	-	-	-	0.05	Flow re-emerging from beneath boulders	

Name/Stationing (km)	Drainage	Feature Type	Data Type (start, end, or point)	Feature Description	Date Observed	UTMx	UTMy	Horizontal Accuracy (+/-m)	Elevation (m)	Source	Geologic Unit p	pН	Specific Conductance (µS/cm)	Temperature (Celsius)	Estimated Discharge (L/s)	Description of Photograph	Photograph
30.05	Queen Creek	Reach	end	Surface flow stops just short of a series of small pools.	6/16/2005	494,555	3,688,507	-	-	GPS	Mid-Tertiary Apache Leap Dacite Tuff	-	-	-	-	Looking upstream from terminal pool	
30.02	Queen Creek	Reach	start	Flowing reach.	6/16/2005	494,565	3,688,473	-	-	GPS	Mid-Tertiary Apache Leap Dacite Tuff	-	-	-	0.1	View downstream from top of flow	
29.97	Queen Creek	Reach	end	-	6/16/2005	494,609	3,688,439	-	-	GPS	Mid-Tertiary Apache Leap Dacite Tuff	-	-	-		-	-
29.89	Queen Creek	Reach	start	Flowing reach.	6/16/2005	494,672	3,688,407	-	-	GPS	Mid-Tertiary Apache Leap Dacite Tuff	-	-	-	0	View downstream from top of flow	
29.64	Queen Creek	Reach	end	Flowing reach ends immediately above series of small pools.	6/16/2005	494,746	3,688,291	-	-	GPS	Mid-Tertiary Apache Leap Dacite Tuff	-	-	-	0	Terminal pool	
29.55	Queen Creek	Reach	start	Flowing reach - A small (~7 m) length of instream flow was noted immediately upstream of this reach.	6/16/2005	494,843	3,688,118	-	-	GPS	Mid-Tertiary Apache Leap Dacite Tuff	-	-	-	0.06	-	-

Name/Stationing (km)	Drainage	Feature Type	Data Type (start, end, or point)	Feature Description	Date Observed	UTMx	UTMy	Horizontal Accuracy (+/-m)	Elevation (m)	Source	Geologic Unit pI	Specific Conductance (μS/cm)	Temperature (Celsius)	Estimated Discharge (L/s)	Description of Photograph	Photograph
29.29	Queen Creek	Reach	end	End of instream flow.	6/16/2005	494,954	3,687,898	-	-	GPS	Mid-Tertiary Apache Leap Dacite Tuff -					-
27.21	Queen Creek	Stagnant Pool	point	Slot pool. Typically the largest stagnant pool in Upper Queen Creek.	6/16/2005	494,909	3,686,228	-	-	GPS	Mid-Tertiary Apache Leap Dacite Tuff 9	2 409	18.6	-	View of rock flume/slot pool	
Hand Dug Well	Queen Creek	Hand Dug Well	point	Historical hand dug well with water located near confluence of Queen Creek and drainage from Oak Flat campground.	6/17/2005	494,505	3,685,545	-	1161	GPS	Mid-Tertiary Apache Leap Dacite Tuff -	-	-	-	-	-
Т 0.64	Tinaja	Tinaja	point	Slotted portion of canyon with tinaja. ~4 gallons. Driest observed so far.	6/17/2005	494,998	3,683,855	-	-	GPS	Mid-Tertiary Apache Leap Dacite Tuff 7.5) 121.7	15.7		-	-
Eddie	Queen Creek	Spring	point	Three different, small spring areas. ~750 gallons total in pool below spring area.	6/17/2005	492,618	3,684,622	-	-	GPS	Mid-Tertiary Apache Leap Dacite Tuff 7.	7 403	18.5	0.03	-	-
Boulder Hole	Queen Creek	Spring	point	Water level extremely low for this site (~20 gallons).	6/17/2005	492,281	3,684,522	-	940	GPS	Mid-Tertiary Apache Leap Dacite Tuff 7.0	5 559	20.1	-	-	-

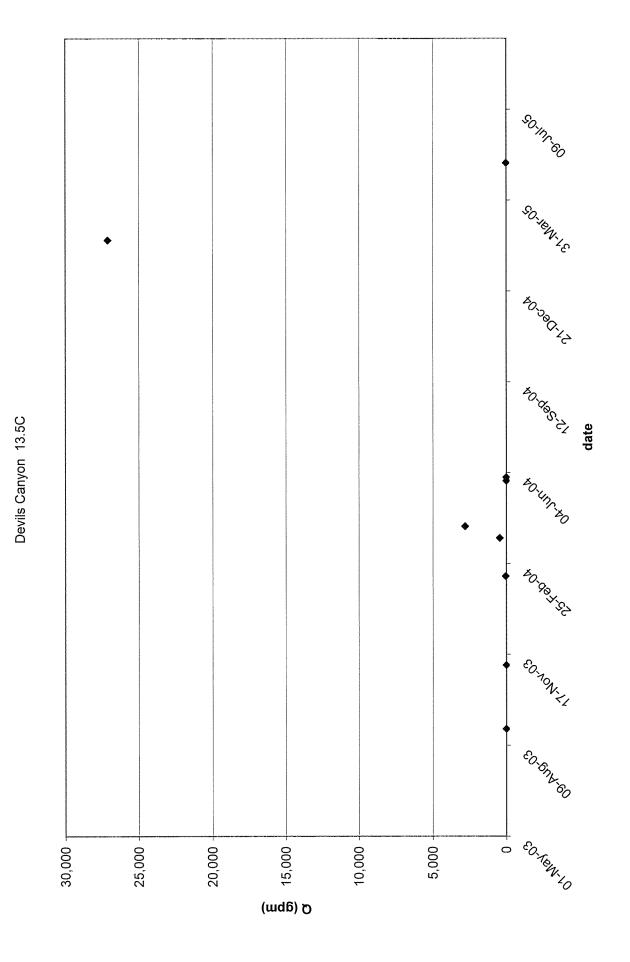
Name/Stationing (km)	Drainage	Feature Type	Data Type (start, end, or point)	Feature Description	Date Observed	UTMx	UTMy	Horizontal Accuracy (+/-m)	Elevation (m)	Source	Geologic Unit	pН	Specific Conductance (µS/cm)	Temperature (Celsius)	Estimated Discharge (L/s)	Description of Photograph	Photograph
Pump Station	Queen Creek	Spring	point	Surface flow in channel above spring location.	3/16/2005	494,058	3,688,879	12	-	GPS	Near contact of Haunted Canyon Rhyolite and Marble	8.1	595	8.8	1	View downstream from Pump Station	
30.72	Queen Creek	Reach	start	Reach starts at Pump Station Spring. Flow was continuous from Pump Station to the town of Superior. The average estimated flow for the entire reach was 1 L/s (varied between 0.5 and 1.6 L/s).	3/16/2005	494,058	3,688,879	12	-	GPS	Near contact of Haunted Canyon Rhyolite and Marble	8.1	595	8.8	1	View upstream at Pump Station	
21.80	Queen Creek	Reach	end	-	3/16/2005	491,263	3,683,598	5	-	GPS	Tilted Paleozoic Limestone		-	-	·	Instream flow at bridge downstream of QC22.6E	
T0.00	Tinaja Canyon	Reach	start	Reach begins just above culvert across #9 Road. Flow was continuous for the length of the canyon (<20' of dry surface sections between visible flows). The estimated flow shown is an average value. Field parameters shown were taken at Tinaja sample site.	3/16/2005	495,146	3,683,404	·		GPS	Mid-Tertiary Apache Leap Dacite Tuff	8.0	54	9.1	0.04		
T1.76	Tinaja Canyon	Reach	end	-	3/16/2005	494,569	3,684,274			GPS	Mid-Tertiary Apache Leap Dacite Tuff				·	·	-
25.40	Queen Creek	Tributary	point	Tributary of Queen Creek that drains the Kings Crown Peak area. Waterfalls in tributary are easily seen from US60.	3/16/2005	493,766	3,685,468			GPS	Mid-Tertiary Apache Leap Dacite Tuff	-	-	-	-	-	-
22.6	Queen Creek	Spring	point	Karst Spring - Emerges from limestone void/cave on left bank (looking downstream), approximately 5 to 10 feet above thalweg.	3/16/2005	491,722	3,684,033	-	-	GPS	Tilted Paleozoic Limestone	7.6	327	14.6	0.5		-

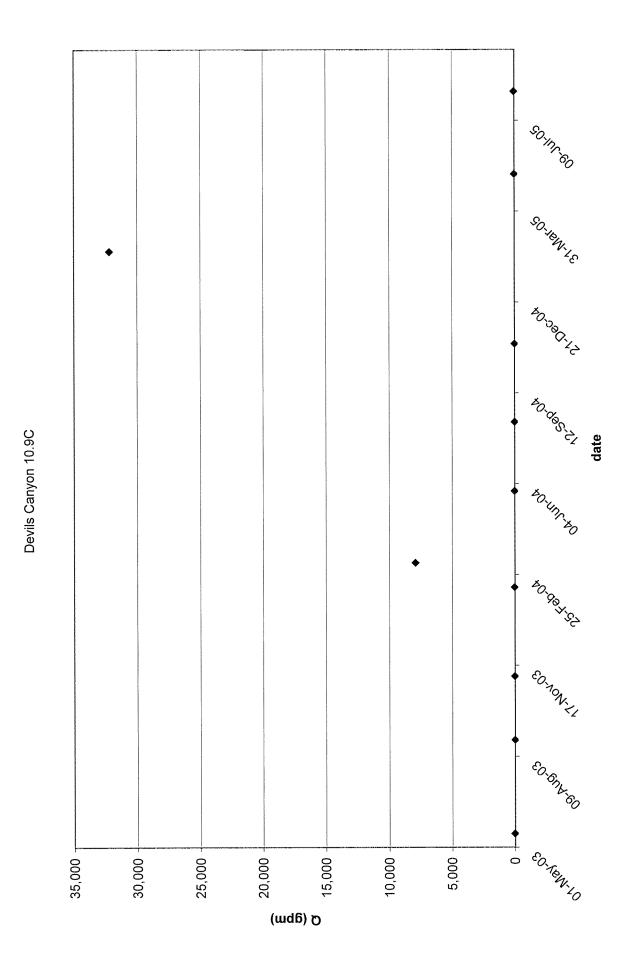
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Name/Stationing (km)	Drainage	Feature Type	Data Type (start, end, or point)	Feature Description	Date Observed	UTMx	UTMy	Horizontal Accuracy (+/-m)	Elevation (m)	Source	Geologic Unit pH	Specific Conductance (µS/cm)	Temperature (Celsius)	Estimated Discharge (L/s)	Description of Photograph	Photograph
Pump Station	Queen Creek	Spring	point	Spring at beginning of surveyed reach of Queen Creek.	9/24/2004	494,058	3,688,879	7		GPS	Near contact of Haunted Canyon Rhyolite and Marble 6.9	779	15.8	0.20	-	-
30.72	Queen Creek	Reach	start	Reach starts at Pump Station Spring.	9/24/2004	494,058	3,688,879	6	-	GPS	Near contact of Haunted Canyon Rhyolite and Marble	-	-	0.20	Start of flow at Pump Station	
30.42	Queen Creek	Reach	end	-	9/24/2005	494,327	3,688,744	7	-	GPS	Mid-Tertiary Apache Leap Dacite Tuff	-	-	-	End of flow below Pump Station	7. (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
Eddie	Queen Creek	Spring	point	Three different, small spring areas. Flow estimated at 0.5 gpm.	9/24/2005	492,618	3,684,622	-		GPS	Mid-Tertiary Apache Leap Dacite Tuff	-	-	0.03	-	-
Boulder Hole	Queen Creek	Spring	point	Small pool that is always present with clear water. No flow noted, but must be flowing to maintain clear water conditions.	9/27/2005	492,281	3,684,522	-	940	GPS	Silicified Paleozoic Limestone -	-	-	-	-	-

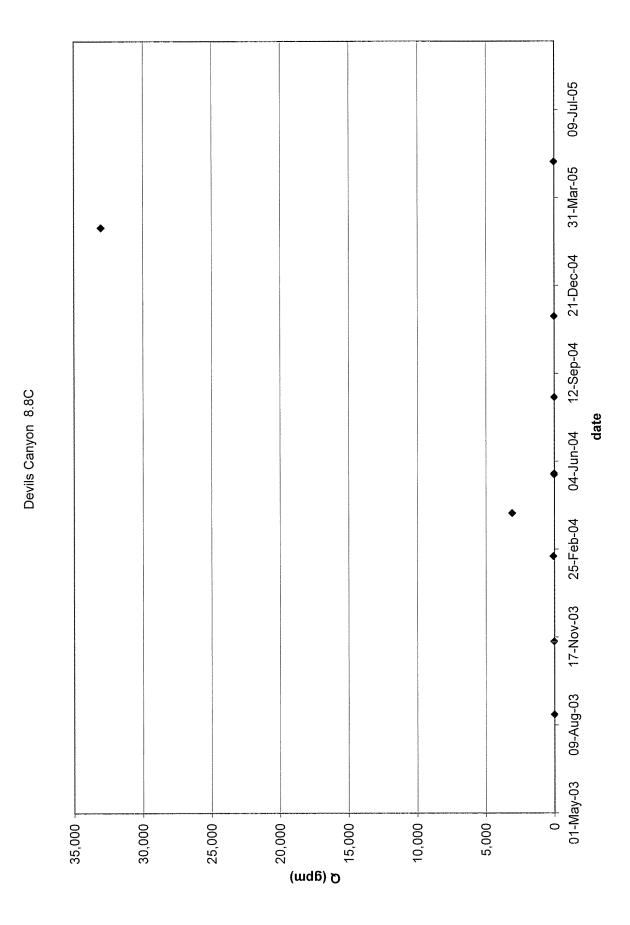
APPENDIX B SAMPLE STATION HYDROGRAPHS AND DEVILS CANYON RATING CURVES

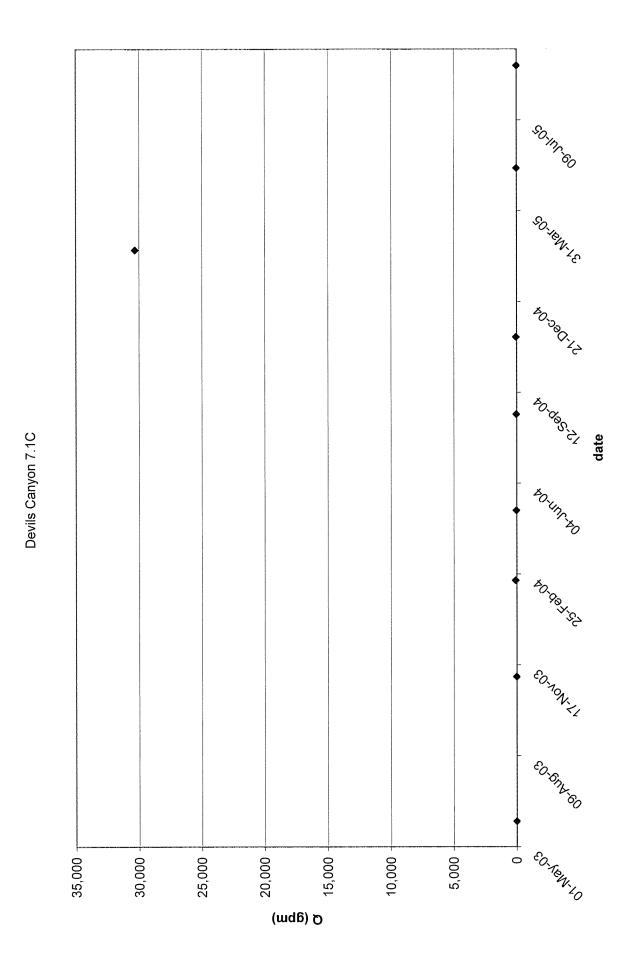


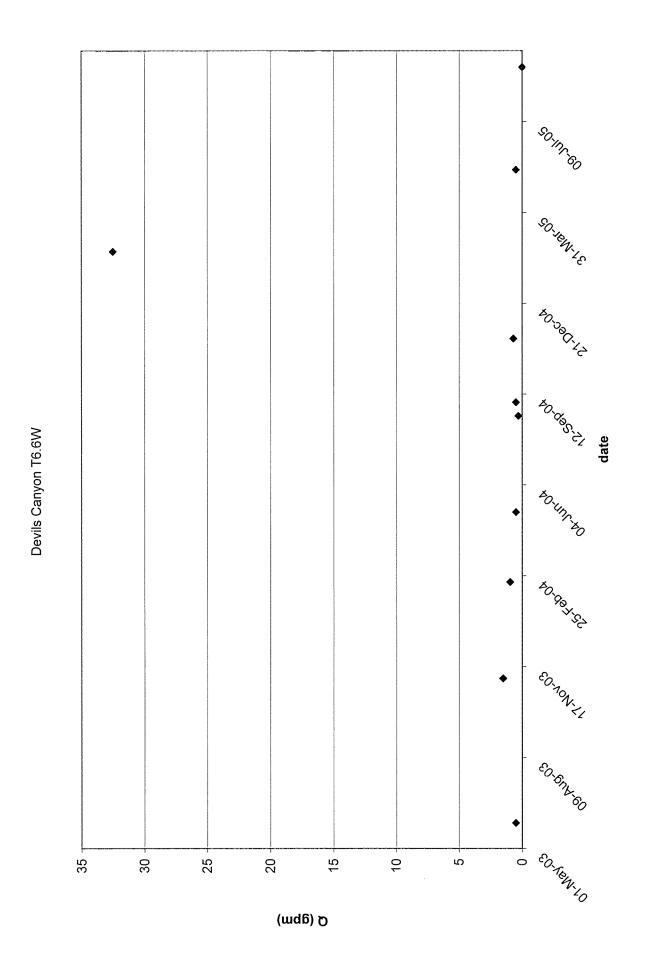


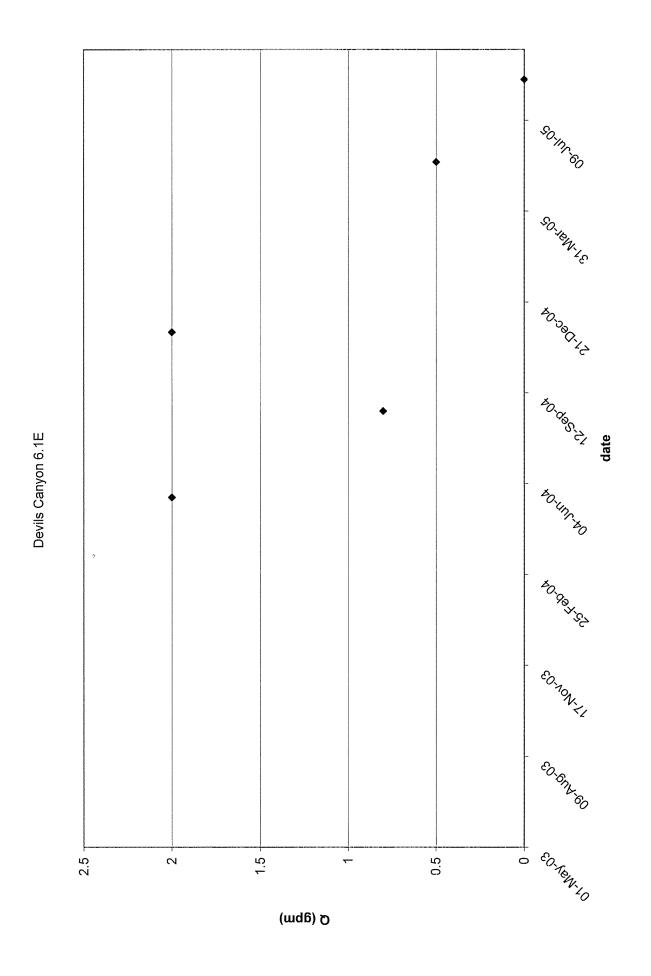


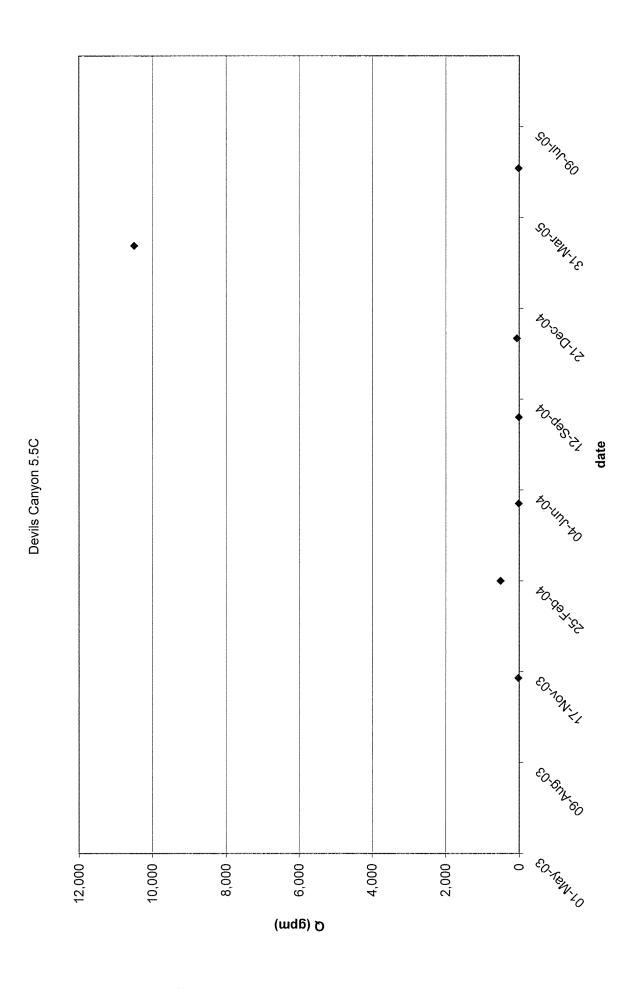


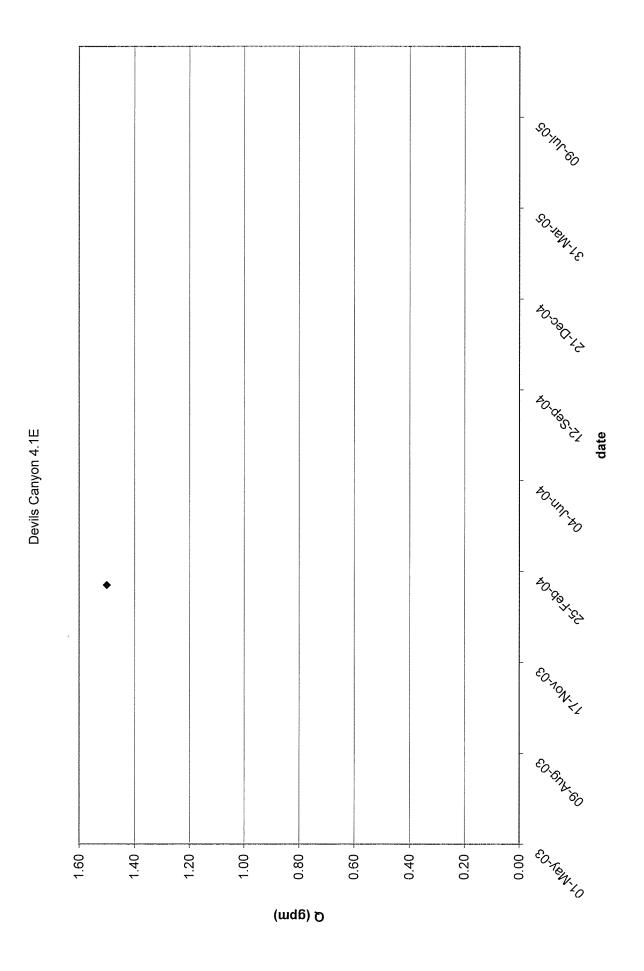




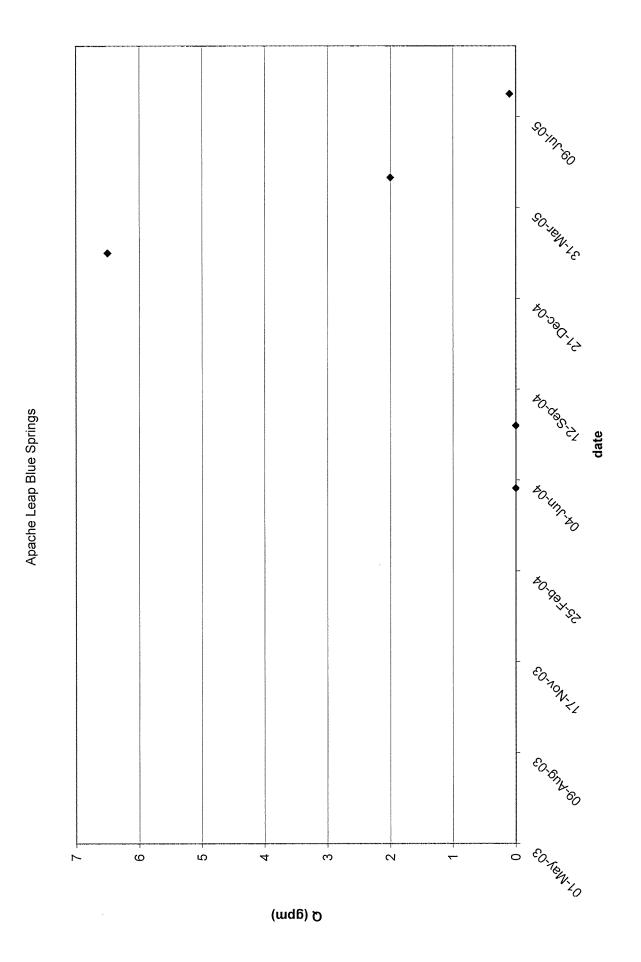




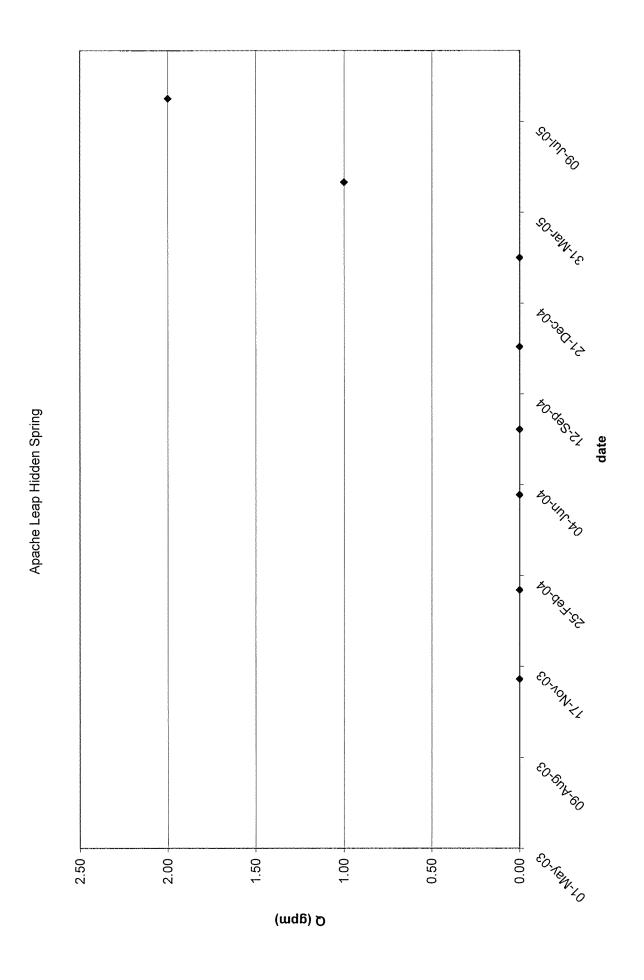


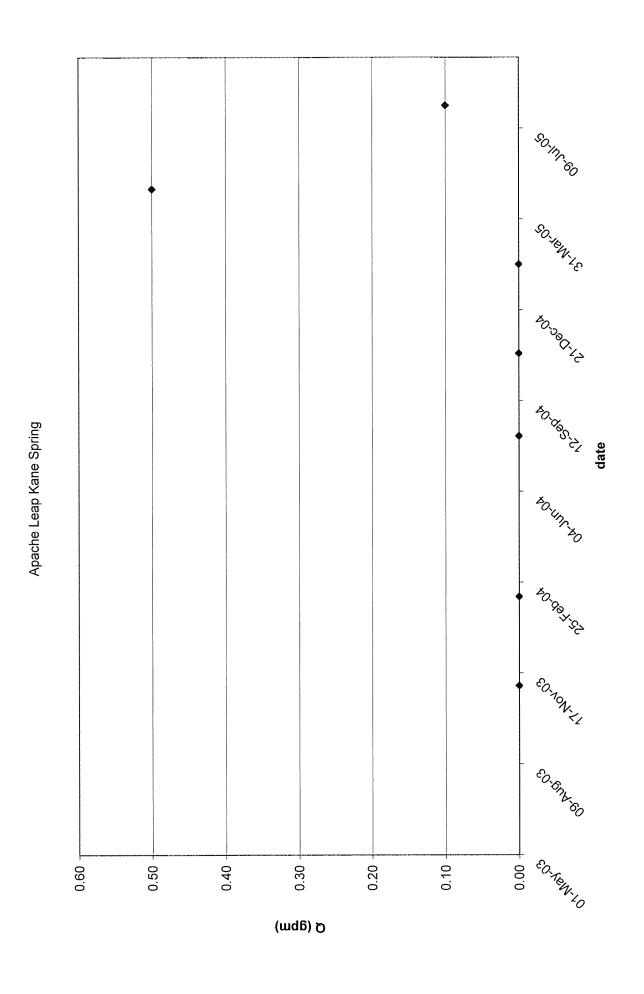


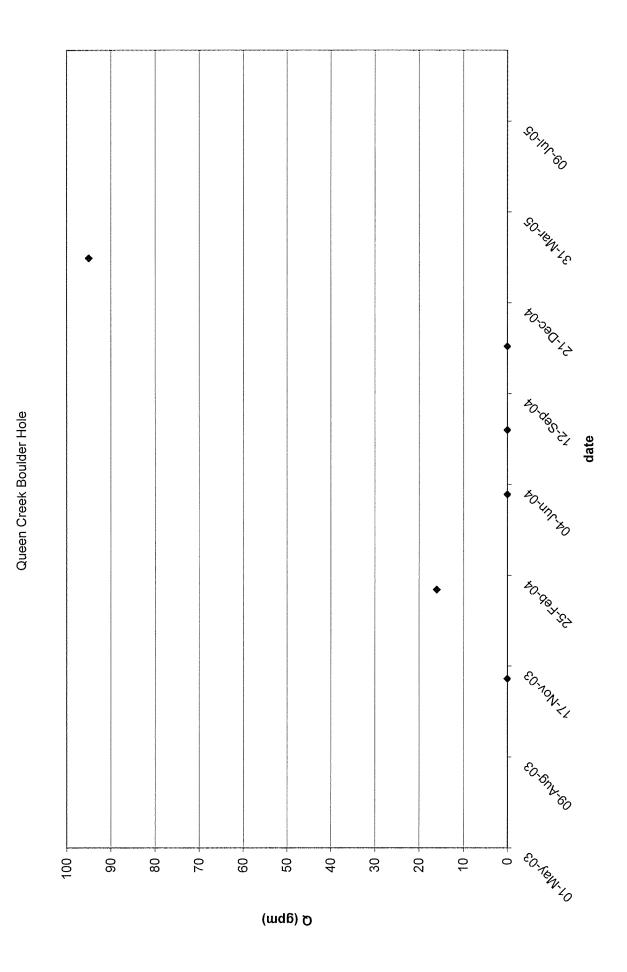


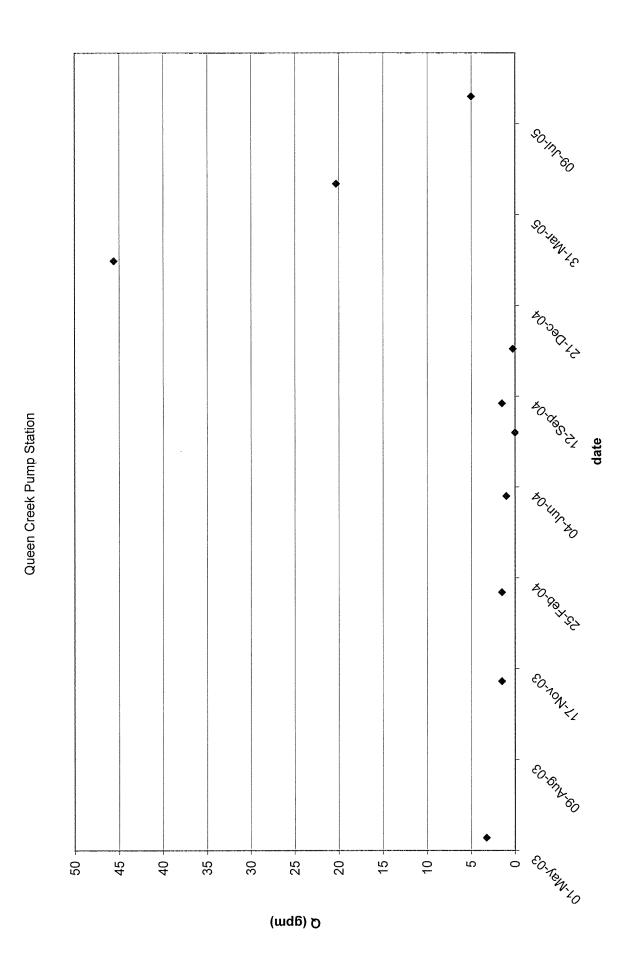


90-11/2.80 Apache Leap Bored Spring EO-TEN-LO 0.40 0.20 0.00 1.20 1.00 0.80 1.40 0.60 ഗ് (apm)







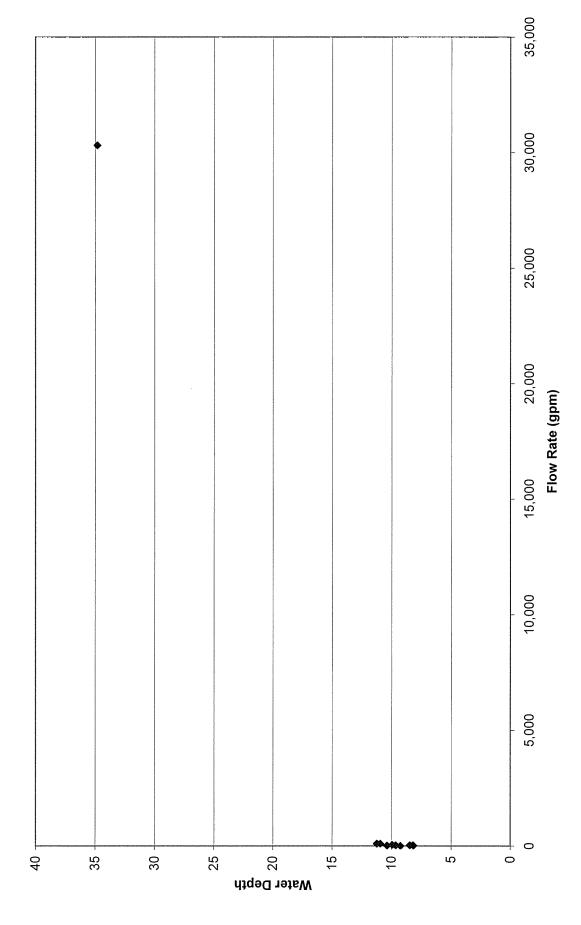




JC13.5C

DC8.8C

14.0



APPENDIX C WATER QUALITY/EXCEEDANCE TABLES

DEVILS CANYON

DC 15.2C

DC 15.2C RESE-1001191 2/15/2005

Name						S	urfac	e Water S	Stand	ards		1000						Res	ults	
Name		Fish Consumpt	ion	Full-boo		Partial-b		Agriculti Livesto	ck _	(11)	arm	d Wildlife water)		Aquatic Wildli (epheme	fe ral)				F. II	
	Units					-1		Wateri	ng	Acute		Chron		Acute	Н	Dissolved Results	Total Results	Total Recoverable Results	Field Parameters	Use Exceeded
	- 3	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction					
ield					_						_				_					
pH	s.u.	-		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0	***	6.5-9.0	-	6.5-9.0					7.6	
Temperature	°C							***									***	-	64	
Specific Conductance	μS/cm		-					_	-	6		6	-						7.8	
Dissolved Oxygen Turbidity	mg/L NTUs																		10	***
letals	MIOS	all Silvers	10000		20102						-		_							
Aluminum	μg/L					())								***		2775	714	***		
Antimony	µg/L	4,300	TR	560	TR	560	TR	***		88	D	30	D	***		<3	<3	<3		***
Arsenie	μg/L	1,450	TR	50	TR	420	TR	200	TR	360	D	190	D	440	D	<3	<3	3.2		•••
Barium	μg/L			98,000	D	98,000	D									13				
Beryllium	µg/L	1,130	TR	2,800	TR	2,800	TR	***		65	D	5.3	D			<2	<2	<2		
Cadmium	µg/L	84	TR	700	TR	700	TR	50	TR	0.8	D	0.7	D	12	D	<0.2	<0.2	<0.2 <6		
Chromium (total)	µg/L			100	TR	100	TR	1,000	TR				0,00		-	<6	<6			
Copper	ug/L		-	1,300	TR	1,300	TR	500	TR	3.0	D	2.3	D	5.3	D	15	17	16		A&WwwA, A&WwwC, A&W
Copper Iron	µg/L µg/L			1,300		1,300		300									376			
Lead	µg/L µg/L			15	TR	15	TR	100	TR	11.2	D		D	24	D	<3	<3	ব	-	
Manganese	µg/L			196,000	TR	196,000	TR							***			***	11		***
Mercury	μg/L	0.6	TR	420	TR	420	TR	10	TR	2.4	D	0.01	D	5.0	D	<0.2	<0.2			***
Molybdenum	μg/L			-			_										<8	, , , , , , , , , , , , , , , , , , ,	-	•••
Nickel	µg/L	4,600	TR	28,000	TR	28,000	TR			124	D	14	D	1,097	D	<10	***	<10		
Selenium	μg/L	9,000	TR	7,000	TR	7,000	TR	50	TR	20.0	TR	2.0	TR	33	TR		<3	⊲3		***
Silver	µg/L	107,700	TR	7,000	TR	7,000	TR			0	D			0.2	D	<0.1	<0.1	<0.1	1	
Thallium	µg/L	7.2	TR	112	TR	112	TR			700	D	150	D		-	<2	<2		***	100
Zine	μg/L	69,000	TR	420,000	TR	420,000	TR	25,000	TR	31	D	31	D	293	D	<10	<10	<10		
norganic Non-metallics					_		_		_				The same of							
Asbestos	MFL				-					***	-				-	-	<40			
Boron	μgЛ.			126,000	TR		TR			***						(2000)	<100			
Bromide	µg/L	215,000	770	28,000	TR	28,000	TR	200	TR	41	TR	9.7	TR	84	TR			22.57		
Cyanide (free) Fluoride	μg/L μg/L	215,000	TR	84,000	T	84,000	T										103			
Nitrite (as N)	µg/L	2.0		140,000		140,000	T							***		***	<100			3
Nitrate (as N)	µg/L			2,240,000		2,240,000	Ť	4					1				390	-		
Nitrate + Nitrite (as N)	идЛ.		_				1		_					1200		1000	390			
Orthophosphate	µg/L																<500		33	
Silica	µg/L					***		***		V 12 3		***				***	23,300			(444
Sulfide	μg/L	, - m		***					-	100	T		-	100	T		· · · <1000. · · ·	***		***
Major Anions					_						_								r	
Chloride	µg/L					***		***									3,450		***	Aug
Sulfate	μg/L																11,000			
Carbonate (as CaCO ₃)	μg/L	***												***			<1000 9,460			
Bicarbonate (as CaCO ₃)	μg/L			***				***		***		-					2,400	17000		
Major Cations	- 1	BUNG SELEC			1						5%		T		1_1		5,870			1
Calcium	µg/L		-		-		-		_	-			1		-		1,470			
Magnesium Potassium	μg/L μg/L							***	***					***		***	1,860			,
Sodium	µg/L	3		-						11/							4,120	-	***	-
Physical Properties	7.6.4								_											
Alkalinity (total as CaCO ₃)	με∕1∟							***								344	9,460			***
Hardness	mg/L					***				-		***		1200	_		21			
Total Dissolved Solids	μg/1.	J)	_					3440								***	73,000	***		
Total Suspended Solids	mg/L	A Park		***			-	***		80	T	80	Т	****		(444)	<5			(***)
Color	color units			-				(•••		3443		***	46			2444
Biologicals			_								_	Was to	, ,		_					34500
	MPN/100 ml											***					280		***	
E. Coli	MPN/100 ml			235		576		***		***			***	(****)	1	***	4	L		

DC 15.2C RESE-1001210 5/9/2005

		_			S	urfa	e Water	Stan	lards	7	-7351 [5]		1				Results		
7.5	Fish Consumpt	tion	Full-bo		Partial-b Contac		Agricult Livesto Wateri	ck	(11)	arm	d Wildlife water)		Aquatic a Wildlif (epheme)	ie ral)	Di-		Total Post 1	ps. 11	
Units							wateri	ng	Acute		Chroni	c	Acute		Dissolved Results	Total Results	Total Recoverable Results	Field Parameters	Use Exceede
	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction					-31-51
									6.5-9.0			***							
				***	_					***									
	11-32-32-32-4		Tree 17, 15				100000000000000000000000000000000000000			20					_				
											-	-							
		0.000	J. 13 S. 45	750			211.00000	10.01	120000		2014	- Pality							
ug/L					I					***						44			
		TR		TR		TR				D	30	D			<3		<3		***
												D		D	<3	<3	<3		(***)
															25				1
	1,130	TR							65	D	5.3	D	***		<2	<2	<2		
	84	TR	700	TR	700	TR	50	TR	3.1	D	1.8	D	47	D	<0.2	<0.2	<0.2	F8	200
μg/L			100	TR	100	TR	1,000	TR							<6		<6	22.7	
μg/L					***				-				***			<6	755		
μg/L	-02		1,300	TR	1,300	TR	500	TR	10.1	D	6.9	D	18	D	· · <10 · · ·	<10	<10		***
µg/L																<60		220	
μg/L			15	TR	15	TR	100	TR	46.6	D	1.8	D	98	D	· · · <3· · ·	<3	<3		***
μg/L			196,000	TR	196,000	TR									***	(1944)	5.9	***	***
μg/L	0.6	TR	420	TR	420	TR	10	TR	2.4	D	0.01	D	5.0	D	<0.2	< 0.2			•••
μg/L	***		8 ee													<8	***	5550	222
μg/L	4,600	TR	28,000	TR	28,000	TR			364	D	40	D	3,231	D	<10		<10	***	***
μg/L	9,000	TR	7,000	TR	7,000	TR	50	TR	20.0	TR	2.0	TR	33	TR	- 122	<3	<3		***
μg/L	107,700	TR	7,000	TR	7,000	TR	***		2	D			2.1	D	<0.1	<0.1	<0,1		3000
μg/L	7.2	TR	112	TR	112	TR			700	D	150	D			<2	<2			
μg/L	69,000	TR	420,000	TR	420,000	TR	25,000	TR	91	D	92	D	864	D	<10	<10	<10		
						_		_		_			PARTIE 1						
MFL	220		***					***		***						SS	***		
μg/L			126,000	TR	126,000	TR											222	,	
μg/L			-		***		-			_		***	***			121	777		
μg/L	215,000	TR					200	TR	41	TR	9.7	TR		TR		-			***
μg/L	***		84,000	T	84,000	T			/								102		***
μg/L				T		_													
μg/L	***		2,240,000	T	2,240,000	T							***					***	***
μg/L	***										***		***						***
μg/L					***			***											
							Name and Address												
μg/L				•••					. 100	T	***		100	T		<i000< td=""><td></td><td></td><td>***</td></i000<>			***
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μу.	•••				77.5					***		***				22,000			
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		-		-								-							
μg/L		1		-						200		-				10,700	15		
це/Г Т		-			1300	-		-								22.800	***	***	(444)
				-		-		1			_								
						-	-		Part Could be					-					***
		1					_			т		Т						1	***
																10			
		10000		-		-		-						_					
IPN/100 ml									***							13	u.		222
IPN/100 ml			235	1	576	1		İ			-					- 15	1000	88847	2220
	HEL HEL HEL HEL HEL HEL HEL HEL HEL HEL	"C" "BYCm" "MS/Cm" "MS/Cm" "Mg/L	"C	SC	°C <td> PSC</td> <td> PSC</td> <td> PSC</td> <td> PSC</td> <td> PSC</td> <td>\$\begin{array}{c c c c c c c c c c c c c c c c c c c </td> <td>\$\begin{array}{c c c c c c c c c c c c c c c c c c c </td> <td>Sul 6.5-9.0 6.5-9.0 6.5-9.0 6.5-9.0 6.5-9.0 6.5-9.0 6.5-9.0 6.5-9.0 6.5-9.0 6.5-9.0 6.5-9.0 6.5-9.0 6.5-9.0 6.5-9.0 6.5-9.0 6.5-9.0 6.5-9.0 6.5-9.0 6.5-9.0 6.5-9.0 6.5-9.0 6.5-9.0 6.5-9.0 6.5-9.0 6.5-9.0 6.5-9.0 6.5-9.0 6.5-9.0 6.5-9.0 6.5-9.0 6.5-9.0 6.5-9.0 6.5-9.0 6.5-9.0 6.5-9.0 6.5-9.0 6.5-9.0 6.5-9.0 6.5-9.0 6.5-9.0 6.5-9.0 6.5-9.0 6.5-9.0 6.5-9.0 6.5-9.0 6.5-9.0 6.5-9.0 6.5-9.0 6.5-9.0 6.5-9.0 6.5-9.0 6.5-9.0 6.5-9.0 6.5-9.0 6.5-9.0 6.5-9.0 6.5-9.0 6.5-9.0 6.5-9.0 6.5-9.0 6.5-9.0 6.5-9.0 6.5-9.0 6.5-9.0 6.5-9.0 6.5-9.0 6.5-9.0 6.5-9.0 6.5-9.0 6.5-9.0 6.5-9.0 6.5-9.0 6.5-9.0 6.5-9.0 6.5-9.0 6.5-9.0 6.5-9.0 6.5-9.0 6.5-9.0 6.5-9.0 6.5-9.0 6.5-9.0 6.5-9.0 6.5-9.0 6.5-9.0 6.5-9.0 6.5-9.0 6.5-9.0 6.5-9.0 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Sul	Su	10	N

063-2565 June 2006

Sample Location: Sample ID: Sample Date: Flow Rate (gpm):

DC 15.2C RESE-1001226 8/10/2005 none

Units	Fish Consumpt	tion	Full-bo			-		Stand	102		mortonic to accom-	-	Aquatic	and l				Results	
Units	-11		Conta		Partial-b Contac	ody	Agriculto Livesto Wateri	ck		varm	d Wildlife water) Chron		Wildlif (epheme) Acute	fe ral)	Dissolved	T.13	Total Recoverable	Field	No. Provided
	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Results	Total Results	Results	Parameters	Use Exceeded
																	-		
s.u. °C	_		6.5.9.0		6.5-9.0		6.5.9.0	-	6.5-9.0		6.5.9.0	-	65.90	-				6,3	FBC, PBC, AgL, A&WwwA, A&WwwC, A&V
μS/cm						=				_			=	_				235	
mg/L									6	-	6	_	_	-	_			4.4	ΟννW3λ & ΛευνW3Λ
NTUs	/n	_	 . i	-	———	-		-	-	-		-						8.2	-
														_					
µg/L				770		770				=		-		-	-				
ug/L								TD						D					
	1,430							-	-	-	-	-		_				-	***
µg/L		TR	2,800		2,800		-	_	65	D	5.3	D			<2	<2	<2		
μg/1.	84	TR	700	TR	700	TR	50	TR	3.2	D	1.8	D	48.5	D	<0.2	2	<0.2	-	
µg/L			100	TR	100	TR	1,000	TR	_	-	10 -	-		_	<6	1	<6		***
µg/L							***	-				-						-	
µg/L				TR		TR		TR		D		D		D					<u> </u>
ие/L		-		TO		TD		TP		-		-		D					<u> </u>
	-	-					100		48.4	-	-	_	102.1	_		~			
μg/L	0.6	TR	420	TR	420	TR	10	TR	2.4	D	· (0.0)	D	5.00	D	<0.2	<0.2			_
μg/L.					***		_				-					8.3		_	
µg/L	4,600	TR	28,000	TR	28,000	TR		-	375	D	42	D	3,326.1	D	<10	-	<10	***	-
µg/L	9,000	TR	7,000	TR	7,000	TR	50	TR	20.0	TR	2.0	TR	33.0	TR		ঝ	⊲	-	
μg/L.													2.2	D					414
								TD					980 1	D					
PDL I	07,000	IN	420,000	110	420,000	IK	25,000	IN	74	ь	74	ы	007.1	D	10	10	10		
MFL		1-1	-	I_I	SELE I	-1	-	-	12/1	1-1		1-1	- 22	-	722				
μg/L		_	126,000	TR	126,000	TR										<40	1		20
µg/L									-			-		_		130		-	
µg/L		TR		TR				TR		TR		TR		TR		-			y yy
μg/L				T		T													
		-		1		1				-				-					
		-		1 -		1				-		-		_	_				
		-				_				-		-		_					
µg/L	-	-	_	_	3-3	-	-	-	-	-	-		-			28,900			
μg/L	-		***		- Name				100	T	-		100	T	***	···<1000 ···	1	6-6	
					-	_				_		_		_			-		
µg/L		-		-	_	-		-		-		-	_						
				-						=		-							
		=	_	=	=	=		=		=					122				
								_		_				_					And the second s
µg/L			·	-	Serves 1	_		-	-		/ :		_	-		21,300			-
µg/L	-	-	-	-	-										***	5,740	-	-	
µg/L			10-		***					-	-	-	***	-	-	4,110		-	***
µg/L	- 1	-	-	-	- 1		-	-	-	-	=	-		_		9,930			
наЛ Т		1.1		1. 1	-								_			11,000	200	-	***
					_					E									
μg/L							_	_	_							156,000	<u> </u>		
mg/L	-				***			-	80	Т	80	Т		_	72	<5			
lor units	# #	-		_	- X-1	\equiv	-	-	_	-	-		- 22			28			
N/100 ml	_		235		576		_			-		-	_	-		1,600			=
	TTUS 127. 127. 127. 127. 127. 127. 127. 127	TIUS —— 197L —— 197L 4,300 197L 1,450 197L 1,1450 197L 1,130 197L 84 197L —— TIUS	TIUS	TIUS	TIUS	TIUS	TIUS	TIUS	Fight	Fight	Fightarrow Fig	Fightarrow Fig	Fight	Fightary Fightary	Sept Sept	Figh	Figh	Section Sect	

HWY 60 BRIDGE

063-2565 June 2006

> Sample Location: Sample ID: Sample Date: Flow Rate (gpm):

DC Hwy 60 bridge RESE-1001069 3/5/2004 rushing

Parameters and Consti	tuents		X			S	urfac	e Water S	Stand	lards					-			Re	sults	
Name	Units	Fish Consumpt	tion	Full-boo		Partial-be Contac	ody	Agriculti Livesto Wateri	ural ek	Aqua	arm	nd Wildlife water) Chroni		Aquatic : Wildli (epheme Acute	fe ral)	Dissolved Results	Total Results	Total Recoverable Results	Field Parameters	Use Exceeded
		Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction					
Field			_			1	_		_		_		_		_					
pH	s.u.			6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		***			6.8 4.2	
Temperature	°C					***	***		-				-			38383			48	
Specific Conductance	µS/cm					***				6		6							12	(<u>22</u>
Dissolved Oxygen Turbidity	mg/L NTUs												-	***					22	
Metals	11101																			
Aluminum	μg/L				-							100					2,530			•••
Antimony	μg/L	4,300	TR	560	TR	560	TR			88	D	30	D	***		<3	<3	<3	***	
Arsenie	µg/L	1.450	TR	50	TR	420	TR	200	TR	360	D	190	D	440	D	<6	5	5		
Barium	µg/L			98,000	D	98,000	D			-						17				
Beryllium	μg/Ι.	1,130	TR	2,800	TR	2,800	TR			65	D	5.3	D	***		<2	<2	<2		
Cadmium	µg/L	84	TR	700	TR	700	TR	50	TR	0.8	D	0.7	D	12	D	<0.2	<0.1	<0.1		
Chromium (total)	µg/L	•••		100	TR	100	TR	1,000	TR				-			<0	<6			
Cobalt	μgЛ.		***	1,300	TR	1,300	TR	500	TR	3.0	D	22	D		D	16	29	25		A&WwwA & A&WwwC, A&WeA
Copper	μg/L			1,300	IK	1.500	IK	300	ik	3.0		2.3	עו		- D	***	1,650		***	
Iron	μg/L		-	15	TR	15	TR	100	TR	11.1	D	0.4	D	23	D		3	3		•••
Lead Manganese	μg/L μg/L		=	196,000	TR	196,000	TR										***	85		944
Mercury	μg/L	0.6	TR	420	TR	420	TR	10	TR	2.4	D	0.01	D	5.0	D	<0.2	< 0.2		***	
Molybdenum	µg/L																<8	-		•••
Nickel	µg/L	4,600	TR	28,000	TR	28,000	TR			123	D	14	D	1,088	D	<10	(/)	<10		
Selenium	μg/I.	9,000	TR	7,000	TR	7,000	TR	50	TR	20.0	TR	2.0	TR	33	TR		<3	⊲	***	
Silver	µg/L	107,700	TR	7,000	TR	7,000	TR	•••		0	D			0.2	D	<0.1	0.1	<0.1		
Thallium	μg/L	7.2	TR	112	TR	112	TR			700	D	150	D			<2	<2			
Zine	μg/L	69,000	TR	420,000	TR	420,000	TR	25,000	TR	31	D	31	D	290	D	<5	10	9.3		-
Inorganic Non-metallics					_					-	1500	110000	1		_					Tanah Sanah Sa
Asbestos	MFL		-	126,000	770	126,000	TD	777	-				-		+	-	<40			444
Boron	μg/L			126,000	TR	126,000	TR								1		<100	***		•••
Bromide Cvanide (free)	µg/L µg/L	215,000	TR	28,000	TR	28,000	TR	200	TR	41	TR	9.7	TR	84	TR					
Fluoride	μg/L.			84,000	T	84,000	Т							***			<100			(****)
Nitrite (as N)	µg/L	***		140,000	T	140,000	T			-						***	<100		144	•••
Nitrate (as N)	µg/L			2,240,000	T	2,240,000	Т									1,557	440			12-26
Nitrate + Nitrite (as N)	µg/L	-						***								-	440			
Orthophosphate	µg/L				-	222		***		***					1		<500	***		****
Silica	μg/ L ,		-	***				-25						* * * * * *			26,300			
Sulfide	μg/L			•••						. 100	T			100	T		<1000		***	***
Major Anions			_			_			_		_				1	_	1.000			
Chloride	μg/L			***							-				+		1,900 7,850			***
Sulfate Corbonata (on CoCO)	µg/L ug/L				1				-		-				1		<1000			
Carbonate (as CaCO ₃) Bicarbonate (as CaCO ₃)	µg∕L µg∕L				-				-		-				1		5,800	***		
Major Cations	PEN		2000		100		_	- CONTRACTOR	_		_		_		-					
Calcium	µg/L		1		T				-		T		-	***	T		5,540	***		· · · · · · · · · · · · · · · · · · ·
Magnesium	μg/I.				1												1,620		•••	***
Potassium	μg/L									-							2,400			ă -ve ă
Sodium	μg/L		-										-	***			3,150			
Physical Properties							_			VILLEL ST	_				_					
Alkalinity (total as CaCO3)	µg/L				-	***		•••						***			5,800			
Hardness	mg/L						-		-		1-		-	***			21	***		
Total Dissolved Solids	µg/L				-			•••			-			***	-		35,000			
Total Suspended Solids	mg/L							***	-	80	T	80	T				54 69			
Color	color units							5 this (1				1		1 03	=		
Biologicals	Lymynee		Total	1	Too			The State of	1		T	T	Total S		T		1,600			
Coliforms (total) E. Coli	MPN/100 ml MPN/100 ml		1	235		576	1		1		1		1		1	-	50			
12. COII	I wit to 100 mi		1	1 633	1	270			1		1	_	-		-				-	

Notes:

Green cell color indicates ADEQ designated uses that are assumed to apply to site location.

s.u. = standard units

°C = degrees Celsius
µS cm = misroSiemens per centimeter
mg L = milligrams per liter
NTUs = Nephelometric Turbidity Units
µg L = misrograms per liter
MH L = Million Fibers per Liter
MH L = Million Fibers per Liter
m = millilites

DC 13.5C

Sample Location: DC 13.5C Sample ID: RESE-1001011 Sample Date: June 1, 2003

Process	PARAMETERS AND CONSTITU	ENTS				_		_	-					_		_		Tr.	rprs		
Part			FC		FRC		PRC		AgI		Acute	A&			A&We		D Result	T Result	TR Result		
Fig. Properties Control Cont		Symbol		Fraction		Fraction	11	Fraction		Fraction		Fraction				Fraction			1747		Use Exceeded
Fragmenties			1000000	70	651000	150	15 to 0.0	_	651000			55		155						8.3	
Secondary (1971c) Fig. F		°C					4.5 10 5.0							100							
Decode consequency Decode				155		1						191		34							*
Tender (NYTLO)				75										36	***			1200	***	7.37	50
Mariem Al				77	***	33			***			34		45%			***			2.7	
Adminosy Sh. 4,500 TP, 500 TP				-		-		323 	V	en e											
Antenew As 1,00 10 10 10 10 10 10 10 10 10 10 10 10 1		Al				S															
Arrecic As 1,450 TR 500 T	Antimony																				
Bernam			1,450	TR						TR		D		D		D					77
Beryllim Be											400000000000000000000000000000000000000	D		-	59,000						
Chemism (real)										TD						Б					
Cohe Copyr				IK								D		U		п					
Copper					A LONG THE RESERVE	IK		110	The second secon	111				-				_		177550	
Leaf						TR		TR		TR	5.5	D		D		D					A&Ww chronic
Lead					The second second second	110		1		1						Ť				***	
Mangemer						TR		TR		TR		D		D		D			<3.0		
Mercary 11g												37							80.4	***	
Mobbetom Mo			0.6	TR						TR	2.4	D		D	5.0	D	<0.2				
Nicked Ni														119							
Selection Se	Nickel	Ni	4,600																		
Silver	Selenium	Se								TR				TR							
Tailing	Silver									13						D					
Hargranic Non-metallics										-						n					
Abbeton (MFL)		Zn	69,000	TR	420,000	TR	420,000	TR	25,000	TR	52.2	D	52.6	D	495.3	D	<5.0	<5.0	<5,0		
Section B				L				_			EIEW CS		Troid les					~700			
Conside (free)						TD		TD				79	200								
Flooride				TR						TR		TR	97	TR		TR	-				
Nitrate (as N)				IK						110		110		1			1000				
Nitrate (Sa N) NO,												18		100				ND	***	7000	
Nitrate + Nitrite (as N)		NO ₁ -N			2,240,000	Т	2,240,000	T				133			3777		(52.5)	ND			
Prospherous P				13					144	100		1977	***				***	ND	***	***	-
Silica SiO ₂	Phosphorous	P			***		***		***		***			13			***				
Sulfide C		SiO ₂	•••		***												10000			10000	
Chloride	Sulfide		***				575		***		100	T	***		100	T		.:.<1,000.			-
Chieforde Cl							1	_		_		_	_	_				# 400			
Carbonate CO ₅							0.00	-						-		H					70
Bicarbonate HCO3 .								⊢													
Major Cations Catic Cati												-									
Calcium		nco ₃		(6)				-	- 177									21,000			
Magnesium Mg		Ca	12524		10/12 3			T			1102.20							10,700		2.00	•
Potassium K								1		7.5											
Sodium Na																					5.5
Radionuclides Gross alpha activity (pCVL)																		7,730			
Gross alpha activity (pCVL)						0	ole .							_							
Gross beta activity (pCi/L)												100	***								- 10
Radium 226+228 (pC/L)	Gross beta activity (pCi/L)										100000000000000000000000000000000000000								1		
U														-					_		175
Alkalinity (total)		U			•••			1_					•••			_		-0.00005			
Alkalanity (total)		_		-			1	т —	-			_			T out		r see	27 000	9000/	5000	
Total dissolved solids TDS				-			-	-	1000	-		-	_	+	_						117
Total suspended solids				-				+		-		-		-		\vdash					•
Color (color units)				-				1		-		T		T	-	\vdash					
Biologicals				-				†				1		Ė							
Coliforms (total)				1		_		-		_		_		_	19	_					
E. Coli 235 T 576 T)) (22) (T													
Additions or Changes (mg/L) Bromide Br						T		Т									7/222	ABSENT	1.00		
Bromide Br				100								\equiv		Ξ		_				,	
Orthophosphate PO ₂ ND	Bromide																	***			- :
	Orthophosphate	PO ₄									•••							ND			

Sample Location: DC 13.5C Sample ID. RESE-1001021 Sample Date: August 27, 2003

		FC		FBC		PBC		AgL		Acute	134	Ww Chroni		A&We		D Result	T Result	TR Result		
			tion	FBC		rac	tion	AgL	Fraction		tion	Chron	ction	Acut	tion	result	Kesun	I I I	Field	
Name	Symbol	(µg/L)	Fraction	(μg/L)	Fraction	(µg/L)	Fraction	(µg/L)	Frac	(µg/L)	Fraction	(µg/L)	Frac	(µg/L)	Frac	(µg/L)	(µg/L)	(µg/L)	Parameters	Use Exceeded
ield										-										% ● 0
pH	pН			6.5 to 9.0		4.5 to 9.0		6.5 to 9.0		-	-				Н			==	6.6 26.3	N.
Temperature Specific Conductance (uS/cm)	°C EC					(3446)		_		-				***	H		-	_	139	•
Specific Conductance (µS/cm) Dissolved oxygen (mg/L)	DO	8-2-9								6		6		***	H	-			7.18	
Turbidity (NTUs)	Turb.	-								-				-	t	-	123	225	3	
letals	Terro.		1000		_						_				_					
Aluminum	Al			6 -	116			_	50	-						144	123	12.		
Antimony	Sb	4,300	TR	560	TR		TR		D.		D	30	D			<6.0	<6.0	<6.0		(0.0)
Arsenic	As	1,450	TR	50	TR	420	TR	200	TR	360	D	190	D	440	D	- 11	13	- 11		(4)
Barium	Ba	-		98,000	D	98,000	D	-						***		17.6	_			2.6
Beryllium	Be	1,130	TR	2,800	TR		TR		DE.		D	5.3	D			<2.0	<2.0	<2.0	***	:
Cadmium	Cd	84	TR	700	TR		TR	50	TR		D	1.1	D	23.3	D	<0.1	<0.1	<0.1		
Chromium (total)	Cr	-		100	TR		TR	1,000	TR	-		-			-	<6.0		<6.0		
Cobalt	Co				-				-	2.2			-	0.6	-	20.2	<6.0	26.2	-	LOW- costs LOW- should LOW-
Copper	Cu	-		1,300	TR	1,300	TR		TR		D	4.0	D	9.6	D	20.3	24.8	25.2		A&Ww acute, A&Ww chronic, A&We a
Iron	Fe			15	TE	15	70	100	TD	22.9	D	0.9	D	48.2	D		144 <5.0	<3.0		
Lead	Pb	-	31	106 000	TR	15	TR	100	TR	22.9	D		D	48.2	D	- <3.0	<5.0	113		
Manganese	Mn	0.6	TR	196,000 420	TR	196,000 420	TR	10	TR		D	. 0.01	D	5.0	D		<0.2			1.6
Mercury	Hg Mo		IK		IR	420	1K		IR	2.4	"	. 0.01	10	2.0	10	. <0.2	<8.0			
Molybdenum Nickel	Ni Ni	4,600	TR	28,000	TR	28,000	TR			211.1	D	23.4	D	1,874.8	D	<10.0	~0.0	<10.0	-	•
Selenium Selenium	Se	9,000	TR	7,000	TR	7,000	TR		TR		TR	2.0	TR	33.0	TR		<3.0	<3.0 .		•
Silver	Ag	107,700	TR	7,000	TR	7,000	TR		-"		D		1	0.7	D	0.1	0.1	0.1		•
Thallium	TI	7.2	TR	112	TR	112	TR				D	150.0	D	-	1	<2.0	<2.0		220	
Zinc	Zn	69,000	TR	420,000			TR		TR		D	53.2	D	500.7	D		12.6	13.8		•
norganic Non-metallics	-									- POSSINE L										
Asbestos (MFL)	144	10 m				5 -				-	T	-	1	-		***			-	
Boron	В			126,000	TR	126,000	TR	***	8.5			-		_		***	<40.0	_	***	
Cyanide (free)	CN	215,000	TR	28,000	TR	28,000	TR	200	TR	41	TR	9.7	TR	84	TR	***	<10.0	_		
Fluoride	F		100	84,000	T	84,000	T					-		- 22	1	<100.0		-	1444	
Nitrite (as N)	NO; N		10/5	140,000	T	140,000	T	100		-		-		_ ==			ND	_	***	
Nitrate (as N)	NO ₃ -N			2,240,000	T	2,240,000	T	-		-		-					1,400			
Nitrate + Nitrite (as N)	NO ₂ +NO ₃ -N		99	-		-				7.00		ATT.				***	1,400		7227	
Phosphorous	P			-		(444)		***		-	-	-			_		22.200			
Silica	SiO ₂			-		-		-			-	_	100				23,200		1,000	
Sulfide						-	Ш	-		100	T	-		[-[00]-]-	T	-	<1,000	_=_		
Major Anions	CI	18.8				38880		1440			-		1		1		4,440			
Chloride Sulfate	SO4			-	1		Н							111	1	7	14,600		122	
Carbonate	CO ₃			_			Н	-					13				<1,000		***	
Bicarbonate	HCO ₃			772				-				-			1		27,700			
Major Cations				-			_				_				_					
Calcium	Ca	-		-				L Deed III	31	11	1/1	10-20	3	***		***	11,000	1	(1986)	
Magnesium	Mg			1		***			75	-	9	-		***			2,780	***	***	*
Potassium	K	-			15	222		-		_		_				-	2,300		-	•
Sodium	Na		100						П	_					1_		7,170			
Radionuclides			_	Samuel							_									
Gross alpha activity (pCi/L)		-	3	-				-	生	-	-4				-	100				
Gross beta activity (pCi/L)		-	-				Ы								-				***	<u> </u>
Radium 226+228 (pCi/L)			-	-			Ш			-			-		-					· · · · · · · · · · · · · · · · · · ·
Uranium (mg/L)	U	-		-			Ш			(77			_	3-3	_			·
Physical Properties								Carried Second							_		27.700			
Alkalinity (total)			-				\vdash	-		-			-		+		27,700 39,000			
Hardness Total dissolution of the	TING	-	-	7 11	1			-		-			-		+		121,000			
Total dissolved solids Total suspended solids	TDS TSS (med.)	-					\vdash			80	Т	80	T		+		6			
	TSS (mg/L)									- 80			1		1		61			*
Color (color units)			-		_		_						1		_					
Biologicals Coliforms (total)	-					I		-	100		-				T	_	PRESENT			
E. Coli				235	T	576	Т								T	-	PRESENT		-	
Additions or Changes (mg/L)			•				-		100				100		-					
Bromide	Br							-						-	I	<100.0	***	***	-	
Orthophosphate	PO ₄	-															ND	_		

DC 13.5C RESE-1001037 11/5/2003 2.5

9.0 6.5	Section Sect	6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.5.9 (6.	ock ing worth and in the control of	(wa Acute Pappung 6.5-9.0 6 88 360 4.7 19.0 184 20.0 1 700		Chronic Repaired 6.5-9.0 6 30 190 5.3 1.0	Fraction	6.5-9.0	2	Dissolved Results	Total Results		Field Parameters	Use Exceeded
90 6.9	55.5.9.0	Control Cont	uojasata uoj	6.5-9.0 6 6 15.0 1.3 19.0 184 20.0 1 700	(6.5-9.0 6.5-9.0 30 190 5.3 1.0	D D D D D D D D D D D D D D D D D D D		D		86 3 3 		8 8 17 1111 11 1.8	
90 6.9	55.5.9.0	6.5-9.6		6.5-9.0	(6.5-9.0 6 30 190 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5.3 1.0 5		6.5-9.0	D		86 <3		17 111 11 1.8 	A&WwwA & A&Ww
		8 200 8 100 8	TR T			30 190 5.3 1.0 5.3 1.0 5.3 2 20 20 20 20 20 20 20 20 20 20 20 20 2	D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D	440 19.5 40 5.0 1,632	D D D D D D D		86 <3		17 111 11 1.8 	A&WwwA & A&Ww
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		-								-				
				***							33,500	1990		222
								1440		1920				
					т		T							222
											28		***	
		-	***								8	(223)	***	***
		100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100												

DC 13.5C RESE-1001059 2/11/2004 47.6

					Su	ırface	Water S	Stand	ards						- U/-			Results	
its	Fish Consumpt	tion	Full-bo Contac		Partial-be Contac	ody '	Agricultu Livestos Waterii	oral ck	Aqua	arm	d Wildlif water) Chron		Aquatic Wildli (epheme Acute	e ral)	Dissolved	Total Results	Total Recoverable	Field	Use Exceeded
	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Results		Results	Parameters	
			(= 0 A	Sec. Of	2 E 0 W	_	6 5 0 0	9.50	6500	200	6500		6500					6.5	FBC, PBC, AgL, A&WwwA, A&WwwC, A&Wee
2				_	And the Control of th		0.35/01		0.2-5/0	=	0.2-9.0		0.209.0	-				6.8	TBC, TBC, Agi, Alexway, Alexway, Alexway, Alexand
cm	-	-	-						-			-	1994				_	81	
/L.				-		-	-	-		-			1444		-				
Us	-	-	_			-	***	***			-		-	_		***		3.3	
A.		-		-	_	-1	_	-	-		1020				-	482			and the same of th
L	4,300	TR	560	TR		TR			88	D	30	D	120	-	< 0.5	<0.5	<0.5		
L		TR						TR						D					
T.		TP						_											
7.						TR			0.9	D	0.8	D	14	D	<0.1	<0.1	<0.1		
L			100	TR		TR	1,000	TR				-		_	<0.3		<0.3		
1.										-	-	-	-					-	
7.				TR		TR		TR				D		D					A&WwwA & A&WwwC
		=		TR		TR		TR				D		D					
TL.	-	-	196,000	TR		TR	-	=					-	-	-	-	20		224
/L	0.6	TR	420	TR	420	TR	10	TR	2.4	D	0.01	D	5.0	D	· · <0.2· ·	<0.2	31	1	-
1.			20,000	777	20,000	77		-	-	=			1210				17		
AL n								TD											
								-											
/L	7.2	TR	112	TR	112	TR			700	D	150	D	_	_	<0.4	<0.4	-		#
L	69,000	TR	420,000	TR	420,000	TR	25,000	TR	35	D	35	D	333	D	0.91	1.2	1.6		
7					- 1														-
				TR		TR				-							_		
/L						_	-	_			***		***			<100			***
		TR	28,000			TR		TR	THE CONSTITUTE	TR		TR		TR	-				-
/L	the service of the service of	-								-	CANDONISCULT	-							
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/L			-			_	-		***							<5000			
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/L	-	-	-						-		-	-		-		3,600	-	===	-
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/L		-		-		_		-		-		-		=					
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JL units				-		=		-		-		1		=					
				-								_		_	110				
00 ml				-	227	-	_				***			-		140	***	1	-
00 ml	-		235		576		•••		-		-	-	-			<2	-		
	The state of the	L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L																	1

063-2565 June 2006

> Sample Location: Sample ID: Sample Date: Flow Rate (gpm):

DC 13,5C RESE-1001086 5/26/2004 2.72

Name						S	urfac	e Water	Stand	ards								Results		
	Units	Fish Consumpt	ion	Full-boo		Partial-b Contac		Agriculti Livesto Wateri	ck .		arm	d Wildlife water) Chron		Aquatic : Wildling (epheme) Acute	e ral)	Dissolved	Total Results	Total Recoverable	Field Parameters	Use Exceeded
		Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Results		Results	Parameters	
ield				(100		6.5-9.0		(= 0.0		6.5-9.0		6.5-9.0		6.5-9.0					7.4	
pH Temperature	°C	-		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		0.5-9.0		6.3-9.0					17	
Specific Conductance	μS/cm	-								D 44		24.	-4	599	***				113	***
Dissolved Oxygen	mg/L	***								6		6							8.1	
Turbidity	NTUs											***			•••	***			2.8	
Ictals Aluminum	µg/L																53			VIII.
Antimony	μg/L	4,300	TR	560	TR	560	TR			88	D	30	D			<3	<3	<3		
Arsenic	μg/L	1,450	TR	50	TR	420	TR	200	TR	360	D	190	D	440	D	<3	<3	ব		
Barium	μg/L			98,000	D	98,000	D					***		-77		12				***
Beryllium	μg/L	1,130	TR	2,800	TR		TR	50	TR	65 1.3	D D	5.3 1.0	D	20	D	<2	<2 <0.1	<0.1		
Cadmium Chromium (total)	μg/L μg/L	84	TR	700 100	TR	700 100	TR	1,000	TR	1.3						<6		<6		ui.
Cobalt	μg/L													***		***	<6		222	
Copper	μg/L			1,300	TR	1,300	TR	500	TR	4.8	D	3,5	D	8.3	D	3.6	6.7	4.5		A&WwwC
Iron	μg/L							100									308			
Manganese	µg/L ug/I			15 196,000	TR	15 196,000	TR	100	TR	19.4	D	0.8	D	41	D	⊲	<3	<3 75		
Manganese Mercury	μg/L μg/L	0.6	TR	420	TR	420	TR	10	TR	2.4	D	0.01	D	5.0	D	<0.2	<0.2	-		222
Molybdenum	μg/L																<8	(***)		- 20
Nickel	μg/L	4,600	TR	28,000	TR	28,000	TR			187	D	21	D	1,657	D	<10	***	<10		***
Selenium	μg/L	9,000	TR	7,000	TR	7,000	TR	50	TR	20.0	TR D	2.0.	TR	0.5	TR D	<0.1	<0.1	<0.1		322
Silver Thallium	μg/L μg/I	7.2	TR TR	7,000	TR		TR TR			700	D	150	D	0.3		<2	<2			***
Zinc	μg/L μg/L	69,000	TR		TR		TR	25,000	TR	47	D	47	D	442	D	<5	<5	<5	222	
norganic Non-metallics													_							
Asbestos	MFL				***	1444				-										
Boron	μg/L			126,000	TR	126,000	TR		•	_		***					<40 140			
Bromide Cyanide (free)	μg/L μg/L	215,000	TR	28,000	TR	28,000	TR	200	TR	41	TR	9.7	TR	84	TR		<10	(***)		***
Fluoride	μg/L			84,000	Т	84,000	Т										<100		24	222
Nitrite (as N)	μg/L			140,000	Т	140,000	Т			-				***			<100	(877)	577	
Nitrate (as N)	μg/L			2,240,000	T	2,240,000	T			/						252	<100 <200	(1 000)	•••	
Nitrate + Nitrite (as N) Orthophosphate	μg/L μg/L					***					-									
Silica	μg/L									-							33,200	(944		***
Sulfide	μg/L			•••		()(555)				. 100	T		***	100	T		<1000		944	
lajor Anions	-		-			T vaca						TO SERVICE		200			10,900	(2000)		
Chloride Sulfate	μg/L		***														11,500			
Carbonate (as CaCO ₃)	μg/L μg/L																<1000	Alexander of the second		-
Bicarbonate (as CaCO ₃)	μg/L					***		***	***				***	***			27,700			
lajor Cations			Parameter 1		_		_			was a second							8,960			
Calcium	μg/L	-	***														2,750			
Magnesium Potassium	μg/L μg/L				-							***					2,000		***	
Sodium	μg/L			***						•••						255	7,200			
hysical Properties													_				49.90			
Alkalinity (total as CaCO ₃)	μg/L																27,700 34			
Hardness Total Dissolved Solids	mg/L µg/L				-												123,000			
Total Suspended Solids	mg/L				-		-			80	Т	80	Т			- 1	26			
Color	color units			***		***				B) ***		•••					19			222
Biologicals	marines									7725 T P 175		TELESCE IN	150		r e	200	170		200	
	MPN/100 ml MPN/100 ml			235	-	576				-							9			

DC 13.5C RESE-1001190 2/15/2005 27120.98

Parameters and Const	ituents				10	S	urfa	ce Water	Stan	lards			U.					Re	sults	
Name	Units	Fish Consump	tion	Full-bo Contac		Partial-b Contac		Agriculti Livesto Wateri	ck		arm	nd Wildlife water) Chron		Aquatic : Wildlit (epheme Acute	fe ral)	Dissolved Results	Total Results	Total Recoverable Results	Field Parameters	Use Exceeded
		Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction					
Field							_				_				_					
pH	s.u.	***	***	6.5-9.0		6.5-9.0		6.5-9.0	***	6.5-9.0		6.5-9.0		6.5-9.0			***		7.4	
Temperature	°C		22			***				•••				922				-	10	
Specific Conductance	µS/cm									***							122		62	122
Dissolved Oxygen	mg/L	***				***				6		6					***		11	
Turbidity	NIUs		***		***	***	•••	-			***	***		***		•••	***		9.3	
Metals					_		_						, ,		_					
Aluminum	μg/L									***		***		-		***	1,430			
Antimony	µg/L	4,300	TR	560	TR	560	TR			88	D	30	D		***	<3	<3	<3		
Arsenic	μg/L	1,450	TR	50	TR	420	TR	200	TR	360	D	190	D	440	D	3.2	3.3	3.3		
Barium	μg/L	-	-	98,000	D	98,000	D									12				***
Beryllium	μg/L	1,130	TR	2,800	TR	2,800	TR	***		65	D	5.3	D			<2	<2	<2		
Cadmium	µg/1.	84	TR	700	TR	700	TR	50	TR	0.8	D	0.7	D	12	D	<0.2	<0.2	<0.2	-	200
Chromium (total)	μg/L			100	TR	100	TR	1,000	TR			-				<6		<6		eric .
Cobalt	μg∕L	***				***	***	777		-		***					<6			
Copper	μg/I.			1,300	TR	1,300	TR	500	TR	3.1	D	2.3	D	5.3	D	15	17	16		A&WwwA, A&WwwC, A&WeA
Iron	μg/L			-											***		697	-		
Lead	μg/L			15	TR	15	TR	100	TR	11.3	D	0.4	D	24	D	∵.<3∵∴	<3	্য	***	
Manganese	μg/L			196,000	TR		TR	***		***								9	_ ===	
Mercury	µg/L	0.6	TR	420	TR	420	TR	10	TR	2.4	D	0.01	D	5.0	D	· · <0.2· ·	<0.2			
Molybdenum	μg/L				****	***										****	<8		***	
Nickel	μg/L	4,600	TR	28,000	TR	28,000	TR			124	D	14	D	1,102	D	<10		<10		***
Selenium	µg/L	9,000	TR	7,000	TR	7,000	TR	50	TR	20.0	TR	2.0	TR	33	TR		<3	⊲3		
Silver	μg/L	107,700	TR	7,000	TR		TR			0	D			0.2	D	<0.1	<0.1	0.13		
Thallium	µg/L	7.2	TR	112	TR	112	TR			700	D	150	D			<2	<2		***	***
Zine	μg/L	69,000	TR	420,000	TR	420,000	TR	25,000	TR	31	D	31	D	294	D	<10	<10	<10		
Inorganic Non-metallics					_					-					_					
Asbestos	MFL	-					•••			***							1000			
Boron	μg/L,		***	126,000	TR	126,000	TR	***		-							<40	444		
Bromide	μg/l.							-								-	<100			***
Cyanide (free)	µg/L	215,000	TR	28,000	TR	28,000	TR	200	TR	41	TR	9.7	TR	84	TR	***				
Fluoride	µg/L			84,000	T	84,000	T	1									104	***		
Nitrite (as N)	μg/L			140,000	T	140,000	T		***	***							<100			
Nitrate (as N)	µg/L			2,240,000	T	2,240,000	T					-					350			
Nitrate + Nitrite (as N)	µg/L	U				***	***	-	-	-			***	755	***	277	350	***		
Orthophosphate	μg/l.															***	<500			
Silica	µg/L					222	***			100				100	Т		26,400		***	
Sulfide	μg/ I ,				***			-		100	213			104'.'	1		>1000			
Major Anions		the parties									150	- 1					3,190			
Chloride	µg/L																10,900			_
Sulfate Carbonate (as CaCO ₄)	μg/I.						-						-		-		<1000			•••
Bicarbonate (as CaCO ₃)	μg/L μg/L		-		-								-				9,220			
Major Cations	идл.		1										1.00				7,220		5.	
Calcium			350		-		2000		2000		1,00	H. 1053	T.				5,790	Version 1		
	µg/L us/L		-								-			•••			1,550			
Magnesium	µg/L														1		1,780			
Potassium Sodium	μg/l. μg/L														-		4,090			•••
Physical Properties	руп		1		SEE	- 555											*1070			
Alkalinity (total as CaCO ₁)	ug/I		1.					111					1		I_		9,220		I	***
	μg/L		-										100	***	1	(in-e)	21			(***)
Hardness Total District Collision	mg/L			/							-		-	***	1		75,000		***	9229
Total Dissolved Solids	μg/L,		***								T						75,000 <5			***
Total Suspended Solids	mg/L									80	T	80	T				54			723
Color	color units			***	***					-	-						34			
Biologicals	Lamatono		-					N-DIASTANA	1.00	1000		Tallian Section	Total I	-			1,600		P reco	
Coliforms (total)	MPN/100 ml			235	***	576			-				-			***	8	200	***	(
E. Coli	MPN/100 ml	***	***	255		3/6		***			1		***		1					

E. Colt | STEPHING | STEPHING |
Notes:
Green cell color indicates ADEQ designated uses that are assumed to apply to site location.
s.u. = standard units
"C = dearces Celsius
g. Sem = mistoristiments per centimeter
mg. L = milligrams per liter
mg. L = milligrams per liter
mg. L = milligrams per liter
MFL = Million Fibers per Liter
del = millidregs.

DC 13.5 RESE-1001209 5/11/2005 5.76

Name	uents			110 81		S	urfac	e Water S	Stanc	lards	U							Results		
Name		Fish Consump	tion	Full-bo		Partial-b		Agricult Livesto	ck			nd Wildlife water)	is .	Aquatic Wildli (epheme	fe					
	Units	Consump	поп	Contac		Contai		Wateri	ng	Acute		Chron	ic	Acute	e	Dissolved Results	Total Results	Total Recoverable Results	Field Parameters	Use Exceeded
		Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction					
ield																				
pH	s.u.			6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		•••		***	7.4	
Temperature	°C			•••										***				(444)	151	
Specific Conductance Dissolved Oxygen	μS/cm									6	***	6				***	277		11	***
Turbidity	mg/L NTUs													***		-		***	0.71	
letals					-		_						_		_					
Aluminum	µg/L	7.								***						222	72		-555	
Antimony	µg/L	4,300	TR	560	TR	560	TR	•••		88	D	30	D	***		<3	<3	<3	1999	
Arsenic	µgЛ.	1,450	TR	50	TR	420	TR	200	TR	360	D	190	D	440	D	<3	<3	<3	was.	***
Barium	μg/l.			98,000	D	98,000	D	•••								15				
Beryllium	µg∕l.	1,130	TR	2,800	TR	2,800	TR		TD	65	D	5.3	D	29	D	<0.2	<2 <0.2	<0.2		
Cadmium	μg/1.	84	TR	700 100	TR	700 100	TR	1,000	TR	1.9	D	1.3			10	<6		<6		
Chromium (total)	μg/l.			100	IK		IR.	1,000	IK	-					1		<6		122	100
Copper	μg/L μg/L		-	1,300	TR	1,300	TR	500	TR	6.6	D	: -4.7-	D	11	D	<10	<10	<10		
Copper Iron	µg/L µg/L			1,300		1,300		300						***			209		(444)	
Lead	идЛ.	- 122		15	TR	15	TR	100	TR	28.2	D	:::i:i:::	D	60	D	∵:⊲₃∵∷	<3	♥	***	
Manganese	με∕1.			196,000	TR	196,000	TR					-				22	244	61		
Mercury	µg/L	0.6	TR	420	TR	420	TR	10	TR	2.4	D	·:-0.01-:	D	5.0	D	<0.2	<0.2			222
Molybdenum	μg/L					***				***		•••		***		***	<8	(444)	5***	
Nickel	µg/L	4,600	TR	28,000	TR	28,000	TR			248	D	28	D	2,199	D	<10	****	<10		***
Selenium	μg/L	9,000	TR	7,000	TR	7,000	TR	50	TR	20.0	TR	2.0.	TR	33	TR	-	<3	:::::::\≼3:::::::::	S22.	100
Silver	µg/L	107,700	TR	7,000	TR	7,000	TR	777		1	D	•••		0.9	D	<0.1	<0.1	<0.1		
Thallium	μg/L	7.2	TR	112	TR	112	TR	25,000		700	D	150	D	 200		<2	<2		(***	
Zine	µg∕L	69,000	TR	420,000	TR	420,000	TR	25,000	TR	62	D	62	D	588	D	<10	<10	<10	***	
norganic Non-metallics				- Annie Land						-	1000	NAME AND ADDRESS OF			1]	
Asbestos	MFL	***	***	126,000		126,000	TD			***				***			<40			
Boron	µg/L	***	***	126,000	TR	126,000	TR										116			***
Bromide Cyanide (free)	µg/L	215,000	TR	28,000	TR	28,000	TR	200	TR	41	TR	9.7	TR	84	TR			922		
Fluoride (Iree)	ug/L ug/L	213,000	IK	84,000	T	84,000	T		110	***							<100			
Nitrite (as N)	μg/L			140,000	T	140,000	Ť									***	<100	(rece)	0.000	
Nitrate (as N)	μg/L			2,240,000	T	2,240,000	T							200		***	<100	(***	***	***
Nitrate + Nitrite (as N)	μg/L											-		200			<200	***	200	***
Orthophosphate	µg/L					***		***									<500	***		
Silica	μg/L			•••		1000		-								***	28,400		2575	•••
Sulfide	μg/L			***		***		***	***	100	T	***		- 100	T	***	∴ <1000°	***	1977	
Sajor Anions			l constant		_		_								_		12.500		T	
Chloride	µg/L					***				•••		-					13,700 27,400	***		***
Sulfate	µg/L				***									***			<1000	***	***	
Carbonate (as CaCO ₃) Bicarbonate (as CaCO ₃)	μg/L μg/L					***								***			16,900	***		
Sajor Cations	руг.		100			_	_	1							_					
Calcium	μg/L									***				***	1		13,200	***	1885	
Magnesium	µg/L					1444		***		1000				***		***	3,400	***	***	•••
Potassium	µg/L	91														***	2,270			1444
Sodium	μg/L		-			•••								***		222	7,930		112	(444)
hysical Properties			_		_								_		_					
Alkalinity (total as CaCO ₃)	µg/L						***		•••					***		***	16,900	***		***
Hardness	mg/L											11-22		22.2		200	47	1944		(444)
Total Dissolved Solids	µg/L		***		-			•••	***	90				***	1		122,000			
Total Suspended Solids	mg/L					***	***			80	T	80	T		1	***	<5 10			
Color	color units	***			1			***					1		1		10			
iologicals	MPN/100 ml		T	·	1	T					·				T		30		222	10.07
Coliforms (total)	MPN/100 ml		1	235		576			1		10000	CHIPPEN STREET			1		2			12.2

DC 13.5 RESE-1001225 8/10/2005

	ituents	1.15	T			Jul		Water St		Aqua		d Wildlife		Aquatic a Wildlif					sults	
	ndri d	Fish Consumpt	tion	Full-bod Contact		Partial-bo Contact		Agricult Livesto Wateri	ck		arm	water) Chron		(ephemei	ral)	Dissolved		Total Recoverable	Field	
Name	Units	fandard	Fraction	tandard	raction	tandard	raction	fundard	raction	fandard	raction	fundard	raction	Standard	raction	Results	Total Results	Results	Parameters	Use Exceeded
eld		- 20		- 50	100			- 01	-	91.										
H	s.u.			6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0					7.6	
Temperature Specific Conductance	°C μS/cm			-															88	
Dissolved Oxygen	mg/L			•••			_		***	6		6						5000	7.5	U-0 - 0 00
Turbidity	NTUs	W = =										•••		•••		200			4.6	
ctals							_	CONTRACT			1000						151		T	
Aluminum	µg/L	4,300	TR	560	TR	560	TR		***	88	D	30	D			<3	154 <3	<3	12.	
Antimony Arsenie	μg/L μg/L	1,450	TR	50	TR	420	TR	200	TR	360	D	190	D	440	D	8.4	8.8	7.8	222	(44)
Barium	μg/L			98,000	D	98,000	D		***		***	***		-		16				
Beryllium	μg/L	1,130	TR	2,800	TR	2,800	TR	-		65	D	5.3	D			<2	<2	<2		
Cadmium	μg/l.	84	TR	700	TR	700	TR	50	TR	1.0	D	0.8	D	16	D	<0.2	0.2	<0.2	P-07	
Chromium (total)	μgЛ.			100	TR	100	TR	1,000	TR		***					<6	<6	<6		
Cobalt	µg/L			1,300	TR	1,300	TR	500	TR	39.	D	2.9	D	6:8	D	<10	13	13		
Copper Iron	μg/L μg/L					1,300		***									211			
Lead	µg/L			15	TR	15	TR	100	TR	15.1	D	0,6	D	32	D	.∵<3.∵	<3	<3		
Manganese	μg/L			196,000	TR	196,000	TR											142		
Mercury	μg/L	0.6	TR	420	TR	420	TR	10	TR	2.4	D	0.01.	D	5.0	D	∵∴<0.2 · ·	<0.2			
Molybdenum	μg/L	4 600		19,000	7D	28.000	TR			155	D	17	D	1,374	 D	<10	<8 	<10		
Nickel Selenium	µg/L ug/l	4,600 9,000	TR	7,000	TR	28,000 7,000	TR	50	TR	20.0	TR		TR	33	TR	<10	<3	~10 <3		
Selenium Silver	μg/L μg/L	107,700	TR	7,000	TR	7,000	TR		1K	0	D	20		0.4	D	<0.1	<0.1	<0.1		***
Thallium	µg/L	7.2	TR	112	TR	112	TR			700	D	150	D		-	<2	<2	-	***	-
Zine	μg/I.	69,000	TR	420,000	TR	420,000	TR	25,000	TR	39	D	39	D	367	D	<10	<10	<10		
organic Non-metallics			_				_										200			
Asbestos	MFL			126,000		126,000											<40			
Boron Bromide	µg/L ug/L			126,000	TR	126,000	TR		-		-						<100			***
Cyanide (free)	µg∕L µg∕L	215,000	TR	28,000	TR	28,000	TR	200	TR	41	TR	9.7	TR	84	TR	***		_		
Fluoride	μg/L		-	84,000	T	84,000	Т	MA.	-					222			<100		_	***
Nitrite (as N)	μg/Ι.	J		140,000	T	140,000	T					***					<100	***	500	***
Nitrate (as N)	µg/L			2,240,000	T	2,240,000	T	***	***	***		***				***	510	222		
Nitrate + Nitrite (as N)	µg/L			-						-		***		800			550 <500			
Orthophosphate Silica	µg/L µg/L				700							***				***	12,900			
Sulfide	µg/L							-	-	-100	T			[60]	T	-	<1000	()		
lajor Anions																				
Chloride	μg/L	***													***	•••	7,650	200		
Sulfate	µg/L	-				***											6,780 <1000			
Carbonate (as CaCO ₃) Bicarbonate (as CaCO ₃)	μg/L μg/L				-								-				15,400	***		
fajor Cations	PPD	Tonio Control	COST.		-		_				2000	- Carrier Carrier	1		_				4.	
Calcium	μg/L											222		(200)		1244	7,540			***
Magnesium	µg/L			***													1,990			
Potassium	µg/L			•••		(***		-	***							***	1,750			
Sodium hysical Properties	μg/L		-		1	***				n []	1						4,100			
Alkalinity (total as CaCO ₃)	µg/L				I						T					***	15,400			
Hardness	mg/L					•••			-	_				440		122	27	Ka48		•••
Total Dissolved Solids	μg/L			>000	-									***			30,000			***
Total Suspended Solids	mg/L	10,								80	T	80	T	1000	***		8 54			
Color iologicals	color units			***	1				***					1,575	1		34			
Coliforms (total)	MPN/100 ml		T	1111	1-	-					I			1944			1,600	7444		***
	MPN/100 ml			235		574	-		1	1 22	-		-		-				***	FBC & PBC

Golder Associates

DC 10.9C

Sample Location: DC 10.9C Sample ID: RESE-1001004 Sample Date: May 16, 2003

	FC		FBC	-	PBC	_	AgL	-	Acute		Chroni		A&We Acute		D Result	T Result	TR Result	(1 m v	1 - 3 - 3 - 3 - 3 - 3
Symbol	(µg/L)	Fraction	(µg/L)	Fraction	(μg/L)	5	(µg/L)	raction	(µg/L)	Fraction	(µg/L)	Fraction	(µg/L)	Fraction	(μg/L)	(μg/L)	(µg/L)	Field Parameters	Use Exceeded
J1111001	Men		(F.S. 27)		176 -7 12				46-7		1.6/		7.0						
pH)/aa		6.5 to 9.0	I	4.5 to 9.0	6	.5 to 9.0	П			•••		150	П	205	***		6.6	
°C			***					36	***		•••			\vdash	***	***		18.2	
EC				9					***					\vdash	444	***		79.5	A&Ww acute, A&Ww chi
								20	. 6		<u> </u>			\vdash					Activity acute, Activity can
Turb.	***				***		***			318	***	L		ш		***		1.0	
			Market Hall			100	March 1				Sales and Sales		833		656	192	10000	224	*
		TD		TD		D				n		D		\vdash					(★)
								TD						D					*
		IK						IK	nitilities	10		D		12					*
		TD								n		D		\vdash					
								TD				_		D					.*
		IK								1		1							*
	The Horselline			111		-	10-11-11-12	110							***				*
				TR		R		TR	3.8	D	2.9	D		D	6.1		8.6	***	A&Ww acute, A&Ww chre
		100																	
		173		TR		R		TR		D	0.6	D		D	·<3.0 · ·	<5.0	<3.0		
																	22.4		*
		TR						TR	2.4	D	0:01	D	5.00	D	···<0.2	<0.2			
		1,15				+								П		<8.0		342	1
	4,600	TR		TR		R	***		151.8	D	16.9	D	1347.7	D	<10.0		<10.0		
	9,000						50	TR	20.0	TR	20	TR	33	TR		<3.0	∴ <3.0 ∵		
							- 11 A-17 1 1 F		0.35	D			0.3	D	<0.1	0.1	<0.1		
TI	7.2	TR						3	700	D	150	D			<2.0		<2.0	112	
	69,000							TR	37.9	D	38.2	D	359.8	D	<5.0	<5.0	<5.0		
			27-1-27-1-10			- 10													
				T		1			44				250		***	<700	***	***	
В		- 4	126,000	TR		R							- 22		<40.0		222		
	215,000	TR					200	TR	41	TR	9.7	TR	84	TR		<100.0			
								T/fi	***	100		550)	***		<100.0	222	555	***	
NON			140,000	T	140,000	T		⑪		1 3/					***	ND	***	***	
NO,-N			2,240,000	T	2,240,000	T	•••	122			177	10			1222	ND		***	•
10, +NO, -N		19.6	=		(Jeen)	- 13		100		13		100	- 555	4	•••	ND	222	***	
P							***			100	***		***		***	***	***		
SiO ₂				W.		100						TES.			•••				
				3	***	12			100	T	***		100	T	7	<1,000	200		
													n-late						
Cl				4	***		***	16	***	36	***		900		***		***	575	
SO4						18			***	1 75									
CO ₃							•••							\Box					1
HCO ₃	***			10			***	9/	***							14,500	***		
								, ,		_				, ,					
														\vdash					-
	***													\vdash					
							VC PARTY DATE		1100000	-	Transcription of the last	\vdash		\vdash					*
Na			444				***		***					ш		שפנים	***	757	
				_		-		-	Total Control		Service Co.		HARA TO	1				District Control	
		100		-		-						-		\vdash			5.00		*
		10		-		-													
				-		+						-							
U		100	***			-1-				-	***			1					
				-		T	OMINES				March 1	1				14500	253	200	
***				-		-	100000000000000000000000000000000000000					-		\vdash					*
				-		-								\vdash					
		-		-		+				T		т		\vdash					
				-						1		1		\vdash					
***	***		***	_1										_		20			
1939	A SERVICE			1		1	7700757							П	-22	PRESENT		***	
		-		т	576	T				1				Н	222			122	
	- 500		233	- 1	210	1						_		_	-				1000
Br				1	T								***	П	<100.0	2000	222		
		157	TO HELD											П		ND	***		*
	DO Turb. Al Sh As Ba Ba Be Cd Cr Co Cu Fe Pb Mn Si Se Ag Tl La Ca Mg NO, 'N NO	DO	DO	DO	DO	DO	DOO	DOO	DOO	DOO	DO	DO	DO	DO	DO	DO	DO	DO	DO

Sample Location: DC 10.9C Sample ID: RESE-1001020 Sample Date: August 27, 2003

		FC		FBC		PBC		AgL	+	Acute	A&V	Chronic	1	A&We Acute		D Result	T Result	TR Result	الأرامي أأرا	15 - 50 W W YE TO
			Fraction		Fraction		Fraction		Fraction		Fraction		Fraction		Fraction				Field	Use Frankel
Name Field	Symbol	(μg/L)	14	(µg/L)	Œ	(μg/L)	(E)	(μg/L)	<u> </u>	(µg/L)	16	(μg/L)	(E.	(µg/L)	14	(µg/L)	(μg/L)	(µg/L)	Parameters	Use Exceeded
pH	pН			6.5 to 9.0		4.5 to 9.0		6.5 to 9.0	T		T								5.9	FBC, AgL
Temperature	°C			***	P. W.					***	75				П		***		23.2	
Specific Conductance (µS/cm)	EC								76					***			***		216	•
Dissolved oxygen (mg/L)	DO				60%	(222)			Q.	6		6		122		77.5			1.05	A&Ww acute, A&Ww chro
Turbidity (NTUs)	Turb.				197				24		7						000		2.9	
Metals		- 11			_															
Aluminum	Al				56	55450				***				***			40		***	•
Antimony	Sb	4,300	TR	560	TR	560	TR		-3	88	D	30	D			<6.0	<6.0	<6.0		
Arsenie	As	1,450	TR	50	TR		TR	200	TR	360	D	190	D	440	D	11	13	13	122	*
Barium	Ba			98,000	D	98,000	D	***	128		8	***	88	***		35.8			***	*
Beryllium	Be	1,130	TR		TR	2,800	TR	1/0	375	65	D	5.3	D			<2.0	<2.0	<2.0	***	*
Cadmium	Cd	84	TR	700	TR	700	TR	50	TR	2.6	D	1.6	D	39.1	D	< 0.1	<0.1	<0.1	***	*
Chromium (total)	Cr			100	TR		TR	1,000	TR				£5.			<6.0		<6.0	***	*
Cobalt	Co					***					88	***					<6.0		0.555	*
Copper	Cu			1,300	TR	1,300	TR	500	TR	8.7	D	6.0	D	15.0	D	<3.0	<3.0	<3.0	***	*
Iron	Fe								100					***		***	8260		***	*
Lead	Pb	3-22		15	TR	15	TR	100	TR	38.8	D	1.1.5	D	82.0	D	· · · <3:0 · ·	<5.0	<3.0	600	*
Manganese	Mn			196,000	TR	196,000	TR							***				826		*
Mercury	Hg	0.6	TR	420	TR	420	TR	10	TR	2.4	D	0.01	D	5.0	D	∵.≺0.2.∵.	<0.2			*
Molybdenum	Mo																<8.0	***		
Nickel	Ni	4,600	TR	28,000	TR	28,000	TR			316.3	D	35.1	D	2,809.2	D	<10.0		<10.0	2.0	
Selenium	Se	9,000	TR	7,000	TR	7,000	TR	50	TR	20.0	TR	2.0	TR	33.0	TR	-10.0	<3.0	<3.0		*
Silver	Ag	107,700	TR	7,000	TR	7,000	TR			1.6	D			1.6	D	<0.1	<0.1	<0.1	***	*
Thallium	TI	7.2	TR	112	TR	112	TR			700.0	D	150.0	D	2.0	M	<2.0	<2.0		222	•
	Zn	69,000	TR		TR	420,000	TR	25,000	TR	79.1	D	79.8	D	750.8	D	5.5	<5.0	<5.0		
Zine Inorganie Non matallies	T XII	07,000	110	750,000	110	720,000	1114	20,000	111	12.1	1 2 1		-1	, 20.0		1.55				
Inorganic Non-metallics	(gross)	444		La resource					П		T							(***)		
Asbestos (MFL)	В	2.2		126,000	TR	126,000	TR		100				-	222	\vdash		<40.0			
Boron			770						TD	41	TR	9.7	TR	84	TR		<10.0	7442		
Cyanide (free)	CN	215,000	TR	28,000	TR	28,000	TR	200	TR		IR		IK		IR	<10.0				*
Fluoride	F			84,000	T	84,000	T				+				-	<10.0	ND			
Nitrite (as N)	NO, N	***		140,000	T	140,000	T	-							_		790			
Nitrate (as N)	NO ₃ -N			2,240,000	1	2,240,000	1		\vdash	A STATE OF THE REAL PROPERTY.				122	_		790		***	
Nitrate + Nitrite (as N)	NO, +NO, -N						H						-							
Phosphorous	P	***		***		(***)	\vdash	***				***					F2 (00			*
Silica	SiO ₂			***		***	\vdash			•••	-		168				53,600	35-5		
Sulfide						1944				100	.] [100	1	***	<1,000	1966		
Major Anions			_				_		_		1				_					*
Chloride	Cl	***		***			\sqcup	***				***					10,900			
Sulfate	804					(244)				•••	1					***	52,600			
Carbonate	CO,					10-4-1								***		•••	<1,000	***	•••	
Bicarbonate	HCO ₃		100	***	1	7444				•••	100	***			_	***	11,800		***	
Major Cations			_				_		_				_							
Calcium	Ca						\Box			***				•••	_	***	17,600			
Magnesium	Mg					2000		***				***		•••		***	4,580	***	***	- :
Potassium	K							•••		•••		7.00			_	***	2,800	***	***	
Sodium	Na				77		Ш	***	78			***			-		10,000			
Radionuclides			1500																	
Gross alpha activity (pCi/L)						***		***				***		***		***		***	***	*
Gross beta activity (pCi/L)											100			•••		***	122		202	
Radium 226+228 (pCi/L)	***																	- 84	200	
Uranium (mg/L)	U			1		***						***		***		***	Josep	***	***	•
Physical Properties			VALUE AND																	
Alkalinity (total)								9.4						020			11,800		25.0	*
Hardness						***											62,900		- 539	*
Total dissolved solids	TDS					***		E/***						***	L	[]	195,000			*
Total suspended solids	TSS (mg/L)					202				80	T	80	Т	•••			17			
Color (color units)		Vell						<u> </u>								122	92		22.5	*
Biologicals		1/2																		
		***								***				***		***	PRESENT			*
Conforms (total)				235	Т	576	T										ABSENT			*
Coliforms (total) E. Coli									Spinster.											
E. Coli								Total Control				2000			1	210	1470	2000	3200	*
	Br		1-29	***				***	200	***				777	2	210			222	

> Sample Location: Sample ID: Sample Date: Flow Rate (gpm):

DC 10.9C RESE-1001036 11/5/2003 17.6

Parameters and Consti	tuents					S	urfac	e Water	Stand	ards								Re	sults	
Name	Units	Fish Consump	tion	Full-bo		Partial-b Contac	ody	Agriculti Livesto Wateri	ural ek	Aqua	arm	nd Wildlife water) Chroni		Aquatic : Wildling (epheme	fe ral)	Dissolved Results	Total Results	Total Recoverable Results	Field Parameters	Use Exceeded
		Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction					
Field																				
pH	s.u.	-		6.5-9.0		6.5-9.0		6.5-9.0	***	6.5-9.0	***	6.5-9.0		6.5.9.0		***	***		6.6	***
Temperature	°C			***		***		•••									•••		12	
Specific Conductance	µS/cm	-		-		***									***	222			82	
Dissolved Oxygen	mg/L					***		-		6	***	6		***			***		6.2	
Turbidity	NTUs										***					***	5***	***	2.9	
Metals				-140																
Aluminum	μg/1.	-				-											199			122
Antimony	µg/L	4,300	TR	560	TR	560	TR			88	D	30	D			<3	<3	<3		
Arsenic	μg/L	1,450	TR	50	TR	420	TR	200	TR	360	D	190	D	440	D	<3	<3	<3		
Barium	μg/L			98,000	D	98,000	D			1844		-		•		11	***		***	
Beryllium	µg/L	1,130	TR	2,800	TR	2,800	TR			65	D	5.3	D	122		<2	<2	<2		
Cadmium	µg/L	84	TR	700	TR	700	TR	50	TR	0.3	D	0.3	D	3.9	D	<0.1	<0.1	<0.1		
Chromium (total)	µg/L			100	TR	100	TR	1,000	TR					***		<6		<6		•••
Cobalt	µg/L					***						***		-		***	<6		200	
Copper	μg/l.			1,300	TR	1,300	TR	500	TR	1.2	D	1.0	D	2.0	D	6.3	9	8.9	***	A&WwwA, A&WwwC, A&W
Iron	μg/L			-						-				-			679	***		(
Lead	μg/L			15	TR	15	TR	100	TR	3.5	D		D	7.5	D	∵.<3∵∴	<5	<3		1200
Manganese	μgЛ.			196,000	TR		TR	***					***	***		Deres.	***	60		/AAR
Mercury	μg/L	0.6	TR	420	TR		TR	10	TR	2.4	D	0.01	D	5.00	D	<0.2	< 0.2	(2000)		3-0-2
Molybdenum	μg/L							0 224				-		***			<8	***		(***)
Nickel	μg/L	4,600	TR	28,000	TR		TR			53	D	6	D	467	D	<10		<10		(###)
Selenium	идЛ.	9,000	TR	7,000	TR	7,000	TR	50	TR	20.0	TR	2.0	TR	33	TR		<3	3	222	
Silver	μg/L	107,700	TR	7,000	TR	7,000	TR			.: 0.04::	D			0.04	D	<0,1	< 0.1	<0.1		
Thallium	μg/L.	7.2	TR	112	TR		TR			700	D	150	D	1000		<2	<2			35753
Zine	ug/L	69,000	TR	420,000			TR	25,000	TR	13	D	13	D	124	D	<5	<5	<5		X 2 X
Inorganic Non-metallics	1.5.0	- Containing			-				_		-		_							
Asbestos	MFL		T					***										***		
Boron	µg/L		1_	126,000	TR	126,000	TR	-						***			<40	****		3.77
Bromide	μg/1.		1														<100	-		
Cyanide (free)	μg/L	215,000	TR	28,000	TR	28,000	TR	200	TR	41	TR	9.7	TR	84	TR					1992
Fluoride	μg/L			84,000	T	84,000	T		_					***			<100	(1442)	122	V-445
Nitrite (as N)	μg/1.	_		140,000	T	140,000	T				-						<100			
Nitrate (as N)				2,240,000	T	2,240,000	Ť							-			<100			
Nitrate + Nitrite (as N)	μg/L μg/L				1		<u> </u>								1		<100	***		-
Orthophosphate	μg/L										-	7		***			<500	1		(***)
									-			Jan. 1	1				34,700		-	
Silica Sulfide	идЛ. идЛ.		1		-		-			· .: 100 · .	T		1	1001	T		<1000			1222
Major Anions	нул				1,1225				ACCES.		-		10000		-					
	un/l		100	To be seen	I		I				T			-	1		5,160			
Chloride	µg/L		1		1		1					222			1	-	3,580			2000
Sulfate Carbonate (as CaCO ₁)	μg/L μg/L		1		1				1		1		1		-		<1000	***	(See	
Bicarbonate (as CaCO ₃)	μg/L μg/L		1				-										28,100	1-4		
	PE/12		1	THE PARTY	_	3555	_	THE PARTY NAMED IN	-		-	-			-					
Major Cations	T	W. Salar	188		138			g lease	100	in State				-	1		6,730			***
Calcium	μg/L		-		1						1.				1		1,830	***		
Magnesium	µg/L				1						+	-	1		1		1,600			7.00
Potassium	μg/1.				1				1				1		1		5,810		(444)	1000
Sodium Physical Proporties	μg/L		1-		1		1			275	10000				-	- 200	3,222		-	
Physical Properties Alkalinity (total as CaCO ₁)	1		1000		L	_			1				1	***			28,100	200		8,000
	μg/L.		-		1				+		1			522	1		7.5	***	19423	1,000
Hardness T. J. D. J. J. C. J. J.	mg/L				1			_	-	-	+		1		1		60,000	***		
Total Dissolved Solids	µg/L				1				-	80	T	80	T		1		<5			
Total Suspended Solids	mg/L								+=	80	1		1				28			
Color	color units			5.50					1		1		-	8,000	-	t		1000		
Biologicals	Lymynon		1	Salt de	1		T.	The same	1		I	I	Tar		T and	T	170		(545)	***
Coliforms (total)	MPN/100 ml	***	***	226	-	576					-		+		1		170			
E. Coli	MPN/100 ml	***		235	1	1 3/6		***		***					1 ***					The state of the s

Sample Location: Sample ID: Sample Date: Flow Rate (gpm):

DC 10.9C RESE-1001060 2/11/2004 29.2

Units	Fish Consump			_	S	urfac	e Water S	stand	ards								Results		
Units	Consump	ion	Full-boo		Partial-b		Agriculti Livesto	ck .			d Wildlife water)		Aquatic Wildli (epheme	fe					
	7		Contac				Wateri		Acut		Chron		Acute		Dissolved Results	Total Results	Total Recoverable Results	Field Parameters	Use Exceeded
	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction		řez.			
							4500		(500		(500		6500		39.0			6.7	
s.u.			6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0					12	
°C μS/cm	***																	93	
mg/L									6		6					***		11	***
															v	Page 1		3.3	***
		-													-				
ug/L													***		***	499	***	37773	
	4,300	TR	560	TR	560	TR	1000		88	D	30	D	***		< 0.5	< 0.5		***	***
µg/L	1,450	TR	50	TR	420	TR	200	TR	360	D	190	D	440	D		1			
µg/L							***	•••											
µg/L													0.0000						
		TR																-	***
			4-1	IR		IR	1011120120120120	IR											
		***				TD		TD						D	The second second				A&WwwA & A&W
			1,300	111			500	711											
				TR		TR		TR				D	36	D	· · · <1 · · ·	<1	<1		
										1							9.2		333
		TR		TR	420	TR	10	TR	2.4	D	·:· b.b1·:	D	5.0	D	<0.2	<0.2			
																2.4	•••	***	
	4,600	TR	28,000	TR	28,000	TR			170	D	19	D	1,506	D	3.9	-12	2.4		
	9,000	TR	7,000	TR	7,000	TR	50	TR	20.0	TR	2.0	TR	33	TR		<0.8	<0.8		- 44
μgЛ.	107,700	TR	7,000	TR	7,000	TR			0	D			0.4	D	<0.1	<0.1	<0.1	***	
μgЛ.	7.2	TR	112	TR	112	TR			700	D	150	D	***		<0.4	<0.4	20	***	
μg/L	69,000	TR	420,000	TR	420,000	TR	25,000	TR	42	D	43	D	402	D	1.2	1.4	2.9		***
		_						_		_									
		***		***				***											
				IR	-	1R		***											
		TD		TD		TD		TD		TD		TD		TD					-
		IK						115		I I K		110		110					
															-			***	
						1			The state of the s	1	100 100 100 100 100		1000				-24	(944)	
				·												<100			22
					***						***		***			< 500			
			•••						24.c								***	***	
μg/L							// ***		100	T			100	T	***	<1000	***	(1000)	***
												_				27552			
µg/L	***		•••						***										
												-							***
								_				_		-					
րթւ	***	1 ***				1						1		_		10,000			
110/2	100 998 70	I			2769	500	10000		Th 622014			T		T		8.260	***	****	***
		1	_															***	***
		1									25 1 1 1 1 1 1 1 1 1 1 1				***	1,480	7444		222
											0 F.					5,560			
				_															
μg/L	***										***		***		***	10,300	(444)		***
mg/L	***														***	30	7444		***
μg/L															***		***		
mg/L												T	***		***				
color units		***	***			1	***		***		***			1		19	(,500)		35550
mx///00 - 1			100000000000000000000000000000000000000	T	-	1	-	1	A Section	1	77	I		Lee		33		T	
MPN/100 ml MPN/100 ml			235		576								***			<2			
_	NIUs pgl pgl pgl pgl pgl pgl pgl pgl pgl pg	NTUs	NTUs	NTUs	NTUs	MTUS	NTUS	MTUS	MTUS	MTUS	MTUS	NTUS	NTUS	NTUS	NTUS	Method Method	Description Description	NUS	No. No.

Sample Location: Sample ID: Sample Date: Flow Rate (gpm):

DC 10.9C RESE-1001091 5/27/2004 13

	TR TR	50 98,000 2,800 700	Larection III III III III III III III III III I			Agriculti Livesto Wateri Panpung 65-9.0	ck			d Wildlife water) Chronl Puppung 6.5-9.0		Aquatic a Wildlift (ephemer Acute Page 1992 6.5-9.0	e ral)	Dissolved Results	Total Results	Total Recoverable Results	Field Parameters 6.8 18	Use Exceeded
4300 1.450 1.130 84 1		6.5-9.0 560 50 98.000 2,800 700	 TR TR D	6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0	111	6.5-9.0				<u> </u>	6.8	
4,300 · 4,300 · 1,130 · 84 ·	TR TR TR	 560 50 98,000 2,800 700	TR TR D			 	 										18	1444
4,300 · 4,300 · 1,130 · 84 ·	TR TR TR	 560 50 98,000 2,800 700	TR TR D			 											18	
4,300 1,450 1,130 84	TR TR TR	560 50 98,000 2,800 700	TR TR D				 	. 6		6.			-	***	***	***	84	
4,300 1,450 1,150 1,130 84	TR TR TR TR TR	560 50 98,000 2,800 700	TR TR D	 560														1 0 11/2 1 G 1 G 11/2
4,300 1 1,450 1 1,130 1 84 1	TR TR TR TR TR	560 50 98,000 2,800 700	TR TR D	560								200				***	2.9	A&WwwA & A&Wwv
4,300 1,450 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130 1,130	TR TR TR	560 50 98,000 2,800 700	TR D	560	TR				_								212	
1,450 1,130 84	TR TR TR	50 98,000 2,800 700	TR D		TR					***		***			192	179		3.00
1,130 1 84 	TR TR	98,000 2,800 700	D	420				88	D	30	D			<3	<3	<3		
1,130	TR 	2,800 700			TR	200	TR	360	D	190	D	440	D	<3	<3	<3		
84 · ·- ·- · · · · ·	TR 	700		98,000 2,800	D			65	D	5.3	D			11 <2	<2	<2		
			TR	700	TR TR	50	TR	0.9	D	0.8	D	14	D	<0.1	<0.1	<0.1		(***)
		100	TR	100	TR	1,000	TR							<6		<6	***	***
				(2000)		***									<6			244
		1,300	TR		TR	500	TR	3.5	D	2.6	D	6.1	D	<3	8.8 696	6.1		***
		15	TR	15	TR	100	TR	13.3	D	····	D	28	D	<j< td=""><td><3</td><td><3</td><td>***</td><td></td></j<>	<3	<3	***	
244		196,000	TR		TR	100		13.3								77		744
	TR	420	TR	420	TR	10	TR	2.4	D	·:-0.01-:-	D	5.0	D	· · · <0:2· · ·	<0.2			
			***	222						***				() ***	<8		***	
	TR	28,000	TR		TR			140	D	16	D	1.243	D	<10		<10		
							TR				1R							***
											D	0.3		<2	<2			
		420,000	TR	420,000	TR	25,000	TR	35	D	35	D	332	D	<5	<5	<5	***	
					\equiv		_		_				_					200
***		***		125,000					***			***		_	- 120000			***
	***	THE RESERVE OF THE PARTY OF THE	IK															***
	TR		TR				TR		TR	9.7	TR		TR		<10			7200
		84,000	Т	84,000	T										<100			
		140,000	T	140,000	T			10						***	<100	***		
	:		T		T	•••												
						_												
															31,800	***		***
				***				.∵100.∵	T	S I	***	. 100.	T	222	<1000		•••	
			_												C 000		- 23	
						***								***	<1000	•••		***
-						222						•••			26,200	in		

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	-			222							·	(444)		***	19			
			_		_		_		_				_					
		225		 576					***		***	•••	***					
***		235		576			1		***	•••		***	200		~4			
	107,700 7.2 69,000	107.700 TR 7.2 TR 69.000 TR	107.700 TR 7.000 7.2 TR 1100 69.000 TR 420.000 126.000 126.000 84.000 140.000 2240.000	107.00 TR 7.000 TR 7.2 TR 112 TR 112 TR 169.000 TR 420.000 TR 440.000 TR 440.0000 TR 440.0000 TR 440.000 TR 440.0000 TR 440.0000 TR 440.0000 TR	107,000 TR 7,000 TR 7,000 7.2 TR 112 TR TR TR TR TR TR TR T	107,000	107,700	107,700	107,700 TR 7,000 TR 7,000 TR 0 7.2 TR T12 TR T12 TR 700 69,000 TR 420,000 TR 420,000 TR 25,000 TR 35 126,000 TR 126,000 TR 126,000 TR 126,000 TR 128,000 TR 126,000 TR 84,000 T 84,000 T 140,000 T 140,000 T 2240,000 T 2240,000 T	107,700 TR 7,000 TR 7,000 TR 0 D 7.2 TR T12 TR T12 TR 700 D 7.3 TR T12 TR T12 TR 69,000 TR 420,000 TR 420,000 TR 25,000 TR 35 D 126,000 TR 126,000 TR 126,000 TR 126,000 TR 128,000 TR 126,000 TR 84,000 T 84,000 T 140,000 T 140,000 T 2.240,000 T 2.240,000 T	107,700	107,700 TR 7,000 TR 7,000 TR 112 TR 135 D D 150 D 150	107,700 TR 7,000 TR 7,000 TR 112 TR TR TR TR TR TR TR T	107.700 TR 7,000 TR 7,000 TR 7,000 TR 0 D D 0.3 D 7.2 TR 112 TR 112 TR 112 TR 700 D 150 D	107,700 TR 7,000 TR 7,000 TR 0 D 0.3 D <0.1 7.2 TR 112 TR 112 TR 700 D 150 D <2 69,000 TR 420,000 TR 420,000 TR 25,000 TR 35 D 332 D <5	107,700 TR 7,000 TR 7,000 TR 112 TR 1	107,700 TR 7,000 TR 25,000 TR	107,700 TR 7,000 TR 7,000 TR 7,000 TR 7,000 TR 7,000 TR 7,000 TR 112 TR 112

DC 10.9C RESE-1001099 8/11/2004

	ituents		T		Т	S	urtac	e Water S	land				1	Aquatic	and			Results		
		Fish		Full-bo		Partial-b		Agricult Livesto				d Wildlif water)		Wildli (epheme	fe					
Name	Units	Consump	tion	Conta	cı	Contac		Wateri	ng	Acut	e	Chron	ie	Acut	0	Dissolved Results	Total Results	Total Recoverable Results	Field Parameters	Use Exceeded
	1 2 1	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction					
eld																			- ((
pH T	s.u. °C			6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0					6.6	
Temperature Specific Conductance	μS/cm																***	(***)	123	***
Dissolved Oxygen	mg/L									- 6		6		1444			****	***	0.43	A&WwwA & A&W
Turbidity	NTUs			-		- 999		Total Control		***			***			544	922	(***)	2.2	***
letals							_								,					
Aluminum	μg/l.					***				(()				***		<3	123			***
Antimony	μg/l.	4,300	TR	560	TR	560 420	TR TR	200	TR	88 360	D	30 190	D	440	D	14	<3 13	14		
Arsenie	µg/L	1,450	TR	50 98,000	D	98,000	D	200	110	300	1	190	U	440	10	17	13			
Barium Beryllium	µgЛ. µgЛ.	1,130	TR	2,800	TR	2,800	TR			65	D	5.3	D	***		<2	<2	<2		
Cadmium	µg/L	84	TR	700	TR	700	TR	50	TR	1.2	D	1.0	D	18	D	<0.1	<0.1	<0.1	***	***
Chromium (total)	μg/L			100	TR	100	TR	1,000	TR							<6		<6	92227	
Cobalt	με⁄Т	***	***	***		***						***					<6			
Copper	με⁄L	11 144		1,300	TR	1,300	TR	500	TR	4.5	D	3.3	D	7.8	D	<3	<3	<3		
Iron	μg/L							100		10.0				20			5,450	<3	***	
Lead	μg/L	***		15 196,000	TR	15 196,000	TR TR	100	TR	18.0	D	0:7:	D	38	D	≼3	<3 	532		
Manganese	μg/L μg/L	0.6	TR	420	TR	420	TR	10	TR	2.4	D	·:\0.01·:	D	5.0	D	<0.2	<0.2	.02		
Mercury Molybdenum	μg/L μg/L	0.6		420		420				2.4		. 0.01 .					<8		***	***
Nickel	μgL μgL	4,600	TR	28,000	TR	28,000	TR			176	D	20	D	1,565	D	<10		<10		544
Selenium	µg/L	9,000	TR	7,000	TR	7,000	TR	50	TR	20.0	TR	2.6.	TR	33	TR		ব	≺3		
Silver	µg/L	107,700	TR	7,000	TR	7,000	TR	***		0	D	***		0.5	D	<0.1	<0.1	<0.1		
Thallium	µg/L	7.2	TR	112	TR	112	TR	25,000	770	700	D	150	D	110		<2	<2 <5	<5	***	
Zine	μg/L	69,000	TR	420,000	TR	420,000	TR	25,000	TR	44	D	44	D	418	D	<5	- 53			
norganic Non-metallics	1 10	O TABLE OF THE REAL PROPERTY.	1	HALDURAN						***	1276	***	1	***	T	T				
Asbestos	MFL		1	126,000	TR	126,000	TR									-	<40	1-4-		
Boron Bromide	μg/L μg/L		1	120,000													160	(202)	(444)	244
Cvanide (free)	μg/L	215,000	TR	28,000	TR	28,000	TR	200	TR	41	TR	9.7	TR	84	TR			1223		222
Fluoride	µg/L	***		84,000	T	84,000	T	***				***		***		-	<100			
Nitrite (as N)	μg/L			140,000	T	140,000	T			***						***	<100	E	***	
Nitrate (as N)	µg/L			2,240,000	T	2,240,000	T										<100	5240)	59497	222
Nitrate + Nitrite (as N)	µg/L					***	***		***	****		***					<200 <500			***
Orthophosphate	μg/L		***			***			***					***	1	***	37,100			
Silica Sulfide	μg/L μg/L				1					100	· T	***		100	T	***	∵∵<1000°∵∵			***
lajor Anions					_		_													
Chloride	µg/L					***				***		***		1 ***		***	11,200			
Sulfate	μg/L					92.22						***		1999			2,490	***	•••	***
Carbonate (as CaCO ₃)	µg/L					•••						***				***	<1000 39,400	***		***
Bicarbonate (as CaCO ₃)	µg/L				***					•••				***	1		39,400			200
lajor Cations	1		1.52		10.65		·		6002	***	T	***			T		8,700	***		
Calcium Magnazium	µgЛ. µgЛ.		-				1			- 12	1		-		1	***	2,380	***		
Magnesium Potassium	μg/L.														1		2,000		2444	
Sodium	µg/L																7,860	***		
hysical Properties													0		_					
Alkalinity (total as CaCO3)	μgЛ.			***								•••		***		•••	39,400	>***	***	200
Hardness	mg/L	***								***			-				32	220	200	
Total Dissolved Solids	μgЛ.					***								***	1	***	91,000 19			
Total Suspended Solids	mg/L									80	T	80	T		1	***	92			
Color Biologicals	color units		1				1	-		-/	***	***	1		1				1,560+	
	MPN/100 ml	1244	1		·		Ī							***	J		1,600			
Coliforms (total)	MPN/100 ml			235		576			l	***					1		1,600			FBC & PBC

DC 10.9C RESE-1001169 11/5/2004 3.24

	ituents					S	urfac	e Water S	tand	lards								Results		
		Fish Consump	tion	Full-bo		Partial-b Contac		Agricult	ck			d Wildlife water)		Aquatic Wildli (epheme	fe					
Name	Units	Part of the same						Wateri	ng	Acut		Chron	ie	Acut	0	Dissolved Results	Total Results	Total Recoverable Results	Field Parameters	Use Exceeded
		Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction					
ield					I	6500		(500		6.5-9.0	TI	6.5-9.0		6.5-9.0			5225		7.6	
pH Temperature	s.u. °C			6.5-9.0		6.5-9.0		6.5-9.0		0.3-9.0		0.3-9.0		0.3-9.0					10	
Specific Conductance	μS/cm									***				***				(***)	146	
Dissolved Oxygen	mg/L					- 1				- 6		6		- 112		***	3444	***	4.1	A&WwwA & A&Wi
Turbidity	NTUs	***							•••	•••		***			***	122			3.2	***
letals				lines su	1									***	II	***	48		***	
Aluminum Antimony	μg/L μg/L	4,300	TR	560	TR	560	TR			88	D	30	D			<3	<3	<3	***	***
Arsenie	μgЛ.	1,450	TR	50	TR	420	TR	200	TR	360	D	190	D	440	D	<3	4	4		***
Barium	μg/L	***	***	98,000	D	98,000	D		***					***		25				***
Beryllium	μg/L	1,130	TR	2,800	TR	2,800	TR		TD	65	D	5.3	D D	29	D	<0.1	<2 <0.1	<2 <0.1	***	
Cadmium Chromium (total)	µgЛ. µgЛ.	84	TR	700 100	TR	700 100	TR	1,000	TR	1.9		1.3				<6		<6		
Cobalt	μg/1.											-		***			<6			
Copper	μg/1.		-1.	1,300	TR	1,300	TR	500	TR	6.8	D	4.8	D	12	D	<3	<3	<3	1999	
Iren	μg/1.						-	***		20.0							4,410			- 3
1.cad	μg/l,		***	15	TR	15	TR	100	TR	29.0	D		D	61	D	::::<3::::	<3 	<3 229		
Manganese Mercury	µgЛ. µgЛ.	0.6	TR	196,000 420	TR	196,000 420	TR TR	10	TR	2.4	D	·:·0.01·:	D	5.0	D	<0.2	<0.2	-		***
Molybdenum	µg/1. µg/1.			***	1									***		***	<8	***	***	
Nickel	ие/L	4,600	TR	28,000	TR	28,000	TR			253	D	28	D	2,247	D	<10		<10		
Selenium	µg/L	9,000	TR	7,000	TR	7,000	TR	50	TR	20.0	TR	2.0.	TR	33	TR	-0.1	<3	<3.1	***	
Silver	ие/L	7.2	TR	7,000	TR TR	7,000	TR			700	D	150	D	1.0	D	<0.1	<0.1 <2	<0.1		
Thallium Zinc	րջ/L րջ/L	69,000	TR		TR	420,000	TR		TR	63	D	64	D	600	D	<5	<5	<5	***	898
norganic Non-metallics	FEE		9,000	- Commence	1			Transit Constitution												
Asbestos	MFL									***								***	1000000	
Boron	µg/L	***		126,000	TR	126,000	TR							7844E8			<40			F11
Bromide County	µg/L	215,000	TR	28,000	TR	28,000	TR	200	TR	41	TR	9.7	TR	84	TR		<100		222	
Cyanide (free) Fluoride	µg/L µg/L	213,000		84,000	T	84,000	T							***		***	<100	1555		
Nitrite (as N)	µg/L		1	140,000	T	140,000	T							(442)		***	<100	(***)		
Nitrate (as N)	ие/L			2,240,000	0 T	2,240,000	T	277						1446			<100		15	***
Nitrate + Nitrite (as N)	μg/L			***		***						***	•••	***			<200 <500		***	
Orthophosphate Silica	µg/L		***			***				/							34,000			
Sulfide	µg/L µg/L									100	T			. 100	T	12408	∵∵.≺1000	7444		***
lajor Anions									_		_		_			100				
Chloride	µg/L									***				***		***	6,750		***	
Sulfate	µg/L					***			_					222			31,000 <1000	***	***	
Carbonate (as CaCO ₃) Bicarbonate (as CaCO ₃)	µg/L µg/L																32,100	5446	1000	***
lajor Cations	Fg.																			
Calcium	цеЛ								-								13,100	***		
Magnesium	μg/L			***											1	•••	3,820 2,100			-24
Potassium	μg/L ug/L					***								***			9,180			
Sodium Physical Properties	μg/L		1		1		1				1000		10000		1					
Alkalinity (total as CaCO ₃)	μg/L		-				Ī									***	32,100			***
Hardness	mg/L			***		***											48			522
Total Dissolved Solids	μg/L			***						90	T		T			(444)	117,000			***
Total Suspended Solids Color	mg/L color units									80	1	80	1			***	37	***		***
Biologicals	Levier units				100		-						_		_					
Coliforms (total)	MPN/100 m	1	I		Ī			***						***			110			
	MPN/100 m		1	235		576						***		***		***	2	***		

DC 10.9C RESE-1001189 2/15/2005 32192.42

Units				Т	5	uriac	e Water S	and:				T	Aquatic	and I			K	sults	COLUMN TO THE PARTY OF THE PART
	Fish		Full-boo	ly	Partial-b	ody	Agricultu				l Wildlife vater)		Wildli (epheme	fe		100		- 1	
-	Consumpt	ion	Contac	t	Contac	t	Waterin		Acute		Chron	ic	Acut		Dissolved Results	Total Results	Total Recoverable Results	Field Parameters	Use Exceeded
	Standard	raction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Results		KOJII.		
														_				7.5	
s.u.	•••		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0	-	***			7.5 9.3	
°C					220	***								1			***	58	
								-								8	1000	10	3444
	-												***		***	***		9.3	***
								-								- Viales			
μg/L			-2				***						Seed		•••				(818)
μg/L	4,300	TR	560	TR	560	TR							***						
µg/L		TR						TR		D		D		D					
												D							<u> </u>
								TD						D					(1000-02
		IK															<6		1000
															722	<6	***	Sees	
		_	1,300	TR	1,300	TR	500	TR	2.9	D	2.2	D	5.1	D	15	17	17		A&WwwA, A&WwwC, A&W
μg/L			***		***		***						***		***	553			-
µg/L		=	15	TR	15	TR	100	TR	10.7	D	0.4	D	23	D		<3			
идЛ.			196,000	TR	196,000	TR	415												
µg/L	0.6	TR	420	TR		TR		TR		D		D		D					
µg/L			20,000	770		TD				- P		D		D					
								TP										-	1,000
								1K			22 F8-28-33 F8-47	111							(A.C.)
												D	0.2	1	<2	<2			
								TR		D	30	D	282	D	<10	<10	<10		7 444
pp L	07(000	1																	
MFL.							-				-						See 1	1998	
			126,000	TR	126,000	TR							•••		-				***
µg/L			***		***												•••		
µg/L	215,000	TR		TR			200	TR		TR		TR		TR					
µg/L				T		T					1								
				T		T				-									
			2,240,000	1		1	•••		_					+:::	200				(***
		-	in the second						-										720
		-								-			***					See 1	
		-	122			-			· . · . 10a · .	T	11 -		100	· T	***	<1000	***	***	
P.P		_				_													
µg/L	***								***							2,870	***	(200)	
µg/L	***		-				***			-	***								
μg/l.	245													***					
μg/L	***	-	***				***			***						8,670			
	of the second	_	1000	1							THE COLUMN	1		1		5 170			_
										-		1		1					
				-									10000		_	1,660	***	8,555.8	
		1									-	_	***			4,020	***		
re-		-		-													4		
μg/L		[(2770)											8,670		***	***
mg/L			//		***								565		275	20		V -2 2	
μg/L		-			1940	=													
mg/L	-			-						T	80	T							***
color units								***	***	***				****		1 40			L
maides .I	C. User		Times Villa	T and	E9024					1,	VI - 110	1_1		T		1,600		T	
(PN/100 ml (PN/100 ml			235	-	576	1				1				1		<2			
	### ### ### ### ### ### ### ### ### ##	mg/L mg/	mg/L mg/	mgL mgL mgL 4,300 TR 560 mgL 4,300 TR 50 mgL 98,000 mgL 98,000 mgL 100 mgL 100 mgL 1300 mgL 1300 mgL 1300 mgL 1300 mgL 1300 mgL 1300 mgL 196,000 mgL mgL mgL mgL mgL	mgL	mgL	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	Major Majo	mg/L	Section 18	10 10 10 10 10 10 10 10

Sample Location: Sample ID: Sample Date: Flow Rate (gpm):

DC 10.9C RESE-1001208 5/11/2005 15.2

	tuents		-			S	urfac	e Water S	tanda				-	Laur tt.	1			Res	ults	
		Fish Consumpt	ion	Full-boo		Partial-be Contac		Agriculti Livesto Wateri	ck _		arm	d Wildlife water) Chroni		Aquatic a Wildlife (ephemer Acute	al)	Dissolved	Total Results	Total Recoverable	Field	Use Exceeded
Name	Units	itandard	raction	andard	raction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Results	Total Results	Results	Parameters	
:ld		- 50	Site. I		-															
pH	s.u.		-	6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0					6.8	-
Temperature	°C					***	•••	***			***			***	-	***			89	
Specific Conductance	μS/em									6		6							9.1	
Dissolved Oxygen	mg/L NTUs					***										•••		and .	2.1	
Furbidity etals	NIOS			-77	3000		100.00	200		11 S 55 S 5 S	2000									
Aluminum	µg/L					-								***			275		750	
Antimony	μg/l.	4,300	TR	560	TR	560	TR	5		88	D	30	D			<3	<3	<3		***
Arsenie	µg/L	1,450	TR	50	TR	420	TR	200	TR	360	D	190	D	440	D	<3	<3	<3	***	
Barium	µg/L	-		98,000	D	98,000	D	***	-			-				12				-
Beryllium	μg/L	1.130	TR		TR	2,800	TR			65	D	5.3	D	-		<2	<2	<2		
Cadmium	µg/L	84	TR		TR	700	TR	50	TR	1.0	D	0.8	D	16	D	<0.2	<0.2	<0.2		
Chromium (total)	μg/L	-		100	TR	100	TR	1,000	TR			Off State				<6		<6		
Cobalt	µg/L	h 12				1 200	-		777			2.9	D	6.8	D	<10	<6 <10	<10		
Соррег	µg/L				TR	1.300	TR	500	TR .	3:9	D	2.9 .	ינו	. 0.8	17		436			
Iron	μg/L.			15	TR	15	TR	100	TR	15.1	D	0.6	D	32	D	<3·	<3	<3		
,ead	µg/L	***		196,000	TR	196,000	TR	100	111	13.1			-					42		
Manganese	µg/L	0.6	TD	196,000 420	TR	420	TR	10	TR	2.4	D	0.011	D	5.0	D	. <0.2.	<0.2	-		
Mercury	μg/L.	0.6	TR	420	I.K	420	111			2.4			1	5.0			<8			•••
Molybdenum	μg/L μg/L	4,600	TR	28,000	TR	28,000	TR			154	D	17	D	1,369	D	<10	-	<10		
Nickel Selenium	μg/L μg/L	9,000	TR	7,000	TR	7,000	TR	50	TR	20.0	TR	2.0	TR	33	TR		<3	<3		
Silver	μg/L	107,700	TR	7,000	TR	7,000	TR			0	D			0.4	D	<0.1	<0.1	<0.1		
Thallium	μg/L.	7.2	TR	112	TR	112	TR			700	D	150	D			<2	<2	(0.00)	(see	
Zine	µg/L	69,000	TR	420,000	TR	420,000	TR	25,000	TR	39	D	39	D	366	D	<10	<10	<10		***
organic Non-metallics									-											
Asbestos	MFL	-			-							-								***
Boron	µg/L			126,000	TR	126,000	TR										<40	***	***	
Bromide	µg/L	***						***						***			115			
Cyanide (free)	μg/L	215,000	TR	28,000	TR	28,000	TR	200	TR	41	TR	9.7	TR	84	TR		<100			144
Fluoride	µg/L			84,000	T	84,000	T										<100 <100			
Nitrite (as N)	µg/L			140,000	T	140,000	T							***	***		<100			
Nitrate (as N)	μg/L			2,240,000	T	2,240,000	T										<200			
Nitrate + Nitrite (as N)	µg/L													***			<500		9220	2 666
Orthophosphate Silica	μg/L μg/L		-					00-	-		-		1				28,400			
Sulfide	µg/L									100	T	J	-	100	Т	844	<1000		3000	
ajor Anions	PEL	and the same					_		_					-						
Chloride	μg/L			-		***		***			-						8,230	242		***
Sulfate	μg/L			***									-	***			10,700		1000	-
Carbonate (as CaCO ₃)	μg/L	-				19222(1)								***			<1000	-		
Bicarbonate (as CaCO ₃)	µg/L	***				7				-				***		/***	17,500			
ajor Cations			_				_		_		1			Market Land			7.100		-	
Calcium	μg/1.				-	***			-		-			_	-		7,460 2,010			
Magnesium	µg/1.						-	***		***							1,670			
Potassium	μg/L				***										-	***	5,970			-
Sodium	μg/I.	-			1		1				-				_		.,,,,,			
hysical Properties			1		1.		T		11		T				-		17,500	1222		
Alkalinity (total as CaCO ₃)	µg/L			- ""	-						1		1				27			
Hardness Tatal Disastered Colida	mg/L	244	-		1		-				1						42,000			
Total Dissolved Solids Total Suspended Solids	μg/L mg/L		1		1					80	T	80	T	***			<5			
Color	color units						-				-			220			19	***		
iologicals	1 serve mino		-		-		-													
Coliforms (total)	MPN/100 ml		T							***				***			11			
E. Coli	MPN/100 ml			235	1	576											<2		***	

DC 10.9C RESE-1001224 8/10/2005 35

	tuents					S	urfac	e Water S	tanda	rds								Re	sults	
		Fish		Full-boo		Partial-b		Agriculto	ck			d Wildlife water)		Aquatic a Wildlif (ephemer	e					
Name	Units	Consumpt	non	Contac		Consac	•	Wateri	ng	Acute		Chron	ic	Acute		Dissolved Results	Total Results	Total Recoverable Results	Field Parameters	Use Exceeded
		Standard	raction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction					
ld																				NAME OF THE PARTY
pH	s.u.			6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0					7.3	
Temperature	°C						-				2,00				-				106	***
Specific Conductance	μS/cm									6		6				2000			6.2	
Dissolved Oxygen Furbidity	mg/L NTUs							***									222	144	6.7	1200
tals	11100				-		_													
Aluminum	μg/L					222		N 247 C						***		(444)	407	***		
Antimony	μg/l.	4,300	TR		TR	560	TR			88	D	30	D	222		<3	<3	<3		***
Arsenie	µg/L	1,450	TR		TR	420	TR	200	TR	360	D	190	D	440	D	5.3	7.6	7.3	222	
Banium	μg/L				D	98,000	D				D	5.3	D			25 <2	<2	<2		
Beryllium	μg/L.	1,130	TR		TR	2,800 700	TR	50	TR	65	D	1.0	D	20	D	<0.2	1	<0.2		-
Cadmium Character (total)	µg/L ug/L		IR		TR	100	TR	1,000	TR							<6	- 1	<6		***
Chromium (total) Cobalt	μg/L, μg/L	15															<6	1000		
Copper	µg/L				TR	1,300	TR	500	TR .	4:9	D	3.6	. D	. 8.5	D	∵.<10 ∵	17	17	- 12	
ron	μg/l.										-						1,420			•••
Lead	µg/L			15	TR	15	TR	100	TR	19.7	D	0.8	D	42	D	···<3····	<3	<3		-
Manganese	µg/L				TR	196,000	TR								-			225		•••
Mercury	μg/1.	0.6	TR	420	TR	420	TR	10	TR	2.4	D	(0.0)	D	5.0	D	<0.2	<0.2			
Molybdenum	μg/L					20,000	770			100		21	- P	1.679	D	<10	<8 	<10		
Nickel	µg/L	4,600	TR	28,000	TR	28,000	TR	50	TR	189	D TR	21	TR	1,678	TR	<10	<3	<10		
Selenium	μg/L.	9,000	TR	7,000	TR	7,000	TR		IK	1	D		, IK	0.5	D	<0.1	<0.1	<0.1	-	
Silver Thallium	µg/L ug/l	107,700 7.2	TR	7,000	TR	112	TR			700	D	150	D	0.5		<2	<2			***
Thallium Zine	μg/L μg/L	69,000	TR				TR	25,000	TR	47	D	48	D	448	D	<10	<10	<10	***	(444)
organic Non-metallics	re-		1		_							-								
Asbestos	MFL	-	-	***			-								-			() ***)		***
Boron	µg/L	-		126,000	TR	126,000	TR	***						***			<40			***
3romide	µg/L					***				***				•••			102			
Cyanide (free)	μg/L	215,000	TR		TR	28,000	TR	200	TR	41	TR	9.7	TR	84	TR			1,000		
Tuoride	μg/L	223		84,000	T	84,000	T			-				(444)			<100 <100	***		_
Vitrite (as N)	µg/L			140,000	T	140,000	T						1		-		670			
Nitrate (as N)	μg/L			2,240,000	T	2,240,000	1			-	-		-				720	(<u>-110</u>)		1244
Nitrate + Nitrite (as N)	µg/L				-							_	-	***			<500			722
Orthophosphate Silica	µg/L µg/L									-				314440		***	27,700			
Sulfide	µg/L			***				-		100	T			100	T		<1000		-	
ajor Anions															_					
Chloride	μg/L							•••		-		***		1777			9,380	- 12	***	
Sulfate	μg/L	***				***								***			10,400 <1000			
Carbonate (as CaCO ₃) Bicarbonate (as CaCO ₃)	μg/L		-				-				-			***			21,900		-	-
	µg/L		1																	
ajor Cations Calcium	μg/L		1		T		1-		I I				T	-			9,440			
Magnesium	µg/L		1		-												2,580			
Potassium	µg/L			22												2002	2,540	***		
Sodium	μg/I.	S are								-							6,630		***	
ysical Properties			_	HIII LU			=		_									1800	1	00.2
Alkalinity (total as CaCO3)	µg/L	***		W-01		***		10 000		***				***	-		21,900			222
Hardness	mg/L					100										***	34		Gerel	
Total Dissolved Solids	µg/L			_							T	80			1	222	93,000	***	***	***
Total Suspended Solids	mg/L				-		1=		-	80	1	80	1		-		54	===		
Color ologicals	color units		1					200		3770	1		1		-					
orogicals	MPN/100 ml		1_		T	T					-			***	-		1,600			
Coliforms (total)	MPN/100 ml			235		\$70			1		1		_							FBC & PBC

DC 8.8C

Sample Location: DC 8.8C Sample ID: RESE-1001005 Sample Date: May 20, 2003

	100-100-100								1		A&	Ww		A&We		D	T			
		FC		FBC		PBC		AgL		Acute		Chronic	c	Acute		Result	Result	TR Result		
			raction		Fraction		Fraction		Fraction		Fraction		raction	(µg/L)	raction	(µg/L)	(µg/L)	(μg/L)	Field Parameters	Use
Name	Symbol	(μg/L)	12	(μg/L)	Œ,	(μg/L)	6	(µg/L)	(z.	(μg/L)	Œ	(µg/L)	12.	(µg/L)	í.	(µg/L)	(µg/L)	(µg/L)	rarameters	Exteed
Field		THE WA	200			15. 00		(Harmite Interv	7726			-					7.9	
pH	pH	•••	95	6.5 to 9.0		4.5 to 9.0		6.5 to 9.0							\vdash				17.2	
Temperature	°C	***		•••			_			***		-			Н				218	
Specific Conductance (µS/cm)	EC				50					6		6			Н				7.71	
Dissolved oxygen (mg/L)	DO						_				7				\vdash			9	0.15	
Turbidity (NTUs)	Turb.	***		. (()		***	ш			***										
Metals	Al													- 222			<20.0		***	
Aluminum	Sb	4,300	TR	560	TR	560	TR			88	D	30	D		\vdash	<6.0	<6.0	<6.0		
Antimony Arsenic	As	1,450	TR	50	TR	420	TR	A TANK THE PARTY OF THE PARTY O	TR	360	D	190	D	440	D	<3.0	<3.0	<3.0	***	*
Barium	Ba	1,450	III	98,000	D	98,000	D		-					***		20				
Beryllium	Be	1.130	TR	2,800	TR	2.800	TR			65	D	5.3	D			<2.0	<2.0	<2.0		
Cadmium	Cd	84	TR	700	TR	700	TR		TR	3.1	D	1.8	D	47.1	D	<0.1	<0.1	<0.1		*
Chromium (total)	Cr			100	TR	100	TR		TR		80		90					<6.0	200	
Cobalt	Co					***	_		3		13						<6.0			
Copper	Cu			1,300	TR	1,300	TR	500	TR	10.2	D	7.0	D	17.7	D	<3,0	<3.0	<3.0	***	
Iron	Fe							0 700 50	77		12.5			***		•••	72			
Lead	Pb			15	TR	15	TR	100	TR	46.9	D	1.8	D	99.1	D	<3.0	<5.0	<3.0	510	*
Manganese	Mn			196,000	TR	196,000	TR							2.1.		•••	222	10.6	***	•
Mercury	Hg	0.6	TR	420	TR	420	TR	10	TR	2.4	D	:::0.01::::	D	5.0	D	<0.2	<0.2	***		
Molybdenum	Mo		33							•••				·			<8.0		***	*
Nickel	Ni	4,600	TR	28,000	TR	28,000	TR			365.8	D	40.6	D	3,249.0	D	<10.0		<10.0		
Selenium	Se	9,000	TR	7,000	TR	7,000	TR	50	TR	20.0	TR	2.0	TR	33.0	TR	***	<3.0	<3.0.∴	***	*
Silver	Ag	107,700	TR		TR	7,000	TR	***		2.09	D			2.1	D	<0.1	<0.1	<0.1		
Thallium	TI	7.2	TR		TR	112	TR			700	D	150	D			<2.0		<2.0	***	
Zinc	Zn	69,000	TR	420,000	TR	420,000	TR	25,000	TR	91.5	D	92.3	D	868.5	D	<5.0	<5.0	<5.0		5.57
Inorganic Non-metallics					_	27.									_					1
Asbestos (MFL)	•••	***		•••		***		***	-	•••		•••					<200	***		
Boron	В	I E BOX I I	13	126,000	TR		TR						-	***	-	<40.0	***			
Cyanide (free)	CN	215,000	TR		TR		TR	200	TR		TR		TR		TR	220	<100.0		244	
Fluoride	F			84,000	T	84,000	T	•••						•••	\vdash	230	ND			
Nitrite (as N)	NO ₂ -N			140,000	T	140,000	T					***			\vdash		ND			
Nitrate (as N)	NO ₃ -N	***	100	2,240,000	T	2,240,000	T		0					200	\vdash		ND			
Nitrate + Nitrite (as N)	NO ₂ '+NO ₃ '-N		13				H		- 3			400			₩		140			*
Phosphorous	P P	•••				222	-				-				-		56,000			
Silica	SiO ₂		-				H			100	T		-	:::100:::	T		::<1,000:			
Sulfide	***	•••	_	***		***	_	•••		1199	1 1		-		1 1		1. , 51,094 .			
Major Anions	01		1					THE VEHICLE	100		1	4.	Т		Т		6,020			
Chloride	Cl				-	200 200	\vdash								1		12,800	***		
Sulfate Carbonate	SO4		-		-		\vdash		7.5		-			***	\vdash		<1,000		***	*
Bicarbonate	HCO ₃		1			***	\vdash								+		96,100		***	
The state of the s	11003		_		2		_			The state of the s			-	2507.056	_		in all and the			
Major Cations Calcium	Ca		T				_		703		1		1		П		22,500			
Magnesium	Mg		1		1		\vdash		15						T	***	4,500			
Potassium	K		1	***	-				100								1,200			*
Sodium	Na									W 411		E I Lacion					19,000	***	***	
Radionuclides	134		200		-		_				_		_	-	-					
Gross alpha activity (pCi/L)					100		П							***			-2.1	***	5,000	*
Gross beta activity (pCi/L)							ı		-8							***	-3.4	•••	***	
Radium 226+228 (pCi/L)									1	***		***		(***)		(***	-2.6	***	1775	*
Uranium (mg/L)	U				7						111			222		722	0.00014		***	*
Physical Properties					132-11	5	*													
Alkalinity (total)		110000							18					200			96,100		****	*
Hardness					OA												74,700			*
Total dissolved solids	TDS				1 8												241,000	***		*
Total suspended solids	TSS (mg/L)			***		***				80	T	80	T		L		<5			*
Color (color units)				W						***		222		***	L	***	10	***	***	
Biologicals													_		_					1
Coliforms (total)						· · · ·		***		•••							PRESENT	***		*
E. Coli				235	Т	576	T	1000				remov ed to		***			PRESENT			*
Additions or Changes (mg/L)						20 20 20 20 20 20 20 20 20 20 20 20 20 2							_						_	
Bromide	Br							***								120			***	
Orthophosphate	PO,			***			_	***			1	***	1			***	ND		1.0	1 ^

Notes:

Cell color indicates ADEQ designated uses that are assumed to apply to site location.

Units are µg1. unless otherwise indicated µg1. = micrograms per liter µg1. = miligrams per liter µg1. = miligrams per liter T = Totals

TR = Total Recoverable
D = Dissolved
ND = Not Detected

**No designated uses exceeded
--- = Not Tested
µS(m = microSiemens per centimeter pCi1. = piscodures per liter
NTUs = Nephelometric Turbidity Units
MFL = Million Fibers per Liter

= Exceedances (except for DO and pH)
AZ state DO standards correspond to minima, therefore values less than the requirements are highlighted AZ state pH standards correspond to ranges, therefore values outside of the requirements are highlighted

Sample I.ocation: DC 8.8C Sample ID: RESE-1001018 Sample Date: August 21, 2003

	E 3. X.1	FC		FBC		PBC		AgL	ŀ	Acute	A&	Ww Chronic	-	A&We Acute		D Result	T Result	TR Result		
		rc	etion	rbc	ion	The	tion	Age	tion	Acuit	tion	Cintoni	tion		tion				Field	
Name	Symbol	(µg/L)	Fract	(µg/L)	Fraction	(µg/L)	Fract	(µg/L)	Fraction	(μg/L)	Fraction	(μg/L)	Frac	(µg/L)	Frac	(μg/L)	(μg/L)	(μg/L)	Parameters	Use Exceeded
eld			_																7.6	340
pH	pH			6.5 to 9.0		4.5 to 9.0	-	6.5 to 9.0	\vdash	***				***	Н				22.4	
Temperature	°C						\vdash		\vdash	***		***	100	1.00.0	Н				302	
Specific Conductance (µS/cm)	EC	***	\vdash				\vdash	***									***		5.05	A&Ww acute, A&Ww chr
Dissolved oxygen (mg/L)	DO			***			\vdash	***		6		- 6			\vdash				0.6	Activi acute; Activi Cin
Turbidity (NTUs)	Turb.			•••			ш								ш	***			0.0	
letals					_								_	100000		150000	-20.0			
Aluminum	Al	***				***			\vdash	•••			V-1		\vdash		<20.0			
Antimony	Sb	4,300	TR	560	TR	560	TR	***		88	D	30	D			<6.0	<6.0	<6.0		
Arsenic	As	1,450	TR	50	TR	420	TR	200	TR	360	D	190	D	440	D	5	5	5		
Barium	Ba	•••		98,000	D	98,000	D			***		***	10	***		24.7	***	•••		-
Beryllium	Be	1,130	TR	2,800	TR	2,800	TR			65	D	5.3	D			<2.0	<2.0	<2.0		*
Cadmium	Cd	84	TR	700	TR	700	TR	50	TR	4.4	D	2.3	D	67.4	D	<0.1	<0.1	<0.1		
Chromium (total)	Cr			100	TR	100	TR	1.000	TR			•••		***		<6.0		<6.0		
Cobalt	Co	***			14			-22					TA	222		***	<6.0	•••	(444)	*
Copper	Cu		1	1,300	TR	1,300	TR	500	TR	13.9	D	9.3	D	24.1	D	<3.0	<3.0	<3.0	***	
Iron	Fe												1/4				115		222	100
	Pb			15	TR	15	TR	100	TR	67.4	D	2.6	D	142.2	D	.∵<3.0∵	<5.0	<3.0		E.#3
Lead				196,000	TR	196,000	TR		***		1				-		***	54.4	***	*
Manganese	Mn		TR	420	TR	420	TR	10	TR	2.4	D	(0.01·	D	5.0	D	<0.2	<0.2			*
Mercury	Hg	0.6	IK		IK		TRI		111		10	0.01	-	3.0	1"		<8.0			
Molybdenum	Mo				100	***	1	•••	\vdash	101.0	10		D		13	<10.0	\0.0	<10.0		*
Nickel	Ni	4,600	TR	28,000	TR	28,000	TR		-	484.0	D	53.8	D	4,298.6	D					
Selenium	Se	9,000	TR	7,000	TR	7,000	TR	50	TR	20.0	TR	20	TR	33.0	TR	***	<6.0	::.<3.0.:.		-
Silver	Ag	107,700	TR	7,000	TR	7,000	TR		18	3.7	D			3.7	D	<0.1	<0.1	<0.1		
Thallium	TI	7.2	TR	112	TR	112	TR			700.0	D	150.0	D	***		<2.0	<2.0		•••	The state of the s
Zinc	Zn	69,000	TR	420,000	TR	420,000	TR	25,000	TR	121.1	D	122.1	D	1,149.6	D	<5.0	<5.0	<5.0		*
	1	01,000	1 -2 4 4	- Person			-													
organic Non-metallics							T								Г	2,2		124	***	•
Asbestos (MFL)					TD	126,000	TR		\vdash				\vdash				<40.0			*
Boron	В	215,000	-	126,000	TR			200	TD		TR	9.7	TR	84	TR		<10.0			±
Cyanide (free)	CN	215,000	TR	28,000	TR	28,000	TR	200	TR	41	IK		110		118	420	~10.0			
Fluoride	F			84,000	T	84,000	T	1							\vdash		ND		***	
Nitrite (as N)	NO ₂ -N			140,000	T	140,000	T	•••						•••	_	***		(444)		
Nitrate (as N)	NO ₃ N			2,240,000	T	2,240,000	T			***		***			_		ND		***	
Nitrate + Nitrite (as N)	NO. +NON					***		•••		***						555	ND			the state of the s
Phosphorous	P			•••		1222								***			***		***	•
Silica	SiO ₂						\Box		\Box		1	***	19			***	82,300	***	(999)	
Sulfide			+			***	\vdash			100	. T	J		100	T		<1,000		•••	*
						-	-	1700000000	211						_					
lajor Anions	T et						T				1			***			5,950	***		
Chloride	Cl		-	•••			+		\vdash		1				\vdash		4,710	***		
Sulfate	SO4	***	-				+		\vdash		-						<1,000			
Carbonate	CO ₃	***				***	+		\vdash		-				-		163,000			
Bicarbonate	HCO,					***	щ	***	\perp		1				_		103,000			
lajor Cations			-			3 10	-				-		_	-	_		31,300	***	1	
Calcium	Ca	***		***	-	***	\vdash	***	\vdash	•••	-	***		***	-					
Magnesium	Mg	***		***	1.3	***	\perp	***				***					6,280			*
Potassium	K					***	\perp					***		***	\vdash	***	<1,000			
Sodium	Na			***						***		***		***		***	27,500	***	(444)	
adionuclides												-								
Gross alpha activity (pCi/L)				***	100	***	П				-	***					223		5-25	
Gross beta activity (pCi/L)					217		\Box				m	***		222	Г	222				
Radium 226+228 (pCi/L)							1							***	Г		***		(0000)	*
	U		-				+							442	T			(444)		
Uranium (mg/L)			_		_		\mathbf{H}						_		-	-				
hysical Properties					1					UNION STATE	1	Patricipa (SPI)		-	Т		163,000		1	*
Alkalinity (total)	(222)		-	***	-	***	+		+	***	-				\vdash		104,000			*
Hardness	1000		1		-		┦		-		-				+	***				
THE R AS TO SEE A SEC.	TDS						\perp				-			222	\vdash	***	241,000	***		
Total dissolved solids						***	\sqcup		\perp	80	T	80	T		\vdash		<5	***		
Total suspended solids Total suspended solids	TSS (mg/L)			-		***						***		***	\perp	***	10		***	
	TSS (mg/L)				-		77.								_					
Total suspended solids Color (color units)				000						Name and Address		100000000000000000000000000000000000000				-	PRESENT	***	***	•
Total suspended solids Color (color units) Biologicals	(402)				T	I			1000	***	1500	110000		111	1	****			222	*
Total suspended solids Color (color units) Biologicals Coliforms (total)	(400)		-	235	T		T		+		100		167		+		PRESENT			
Total suspended solids Color (color units) Biologicals Coliforms (total) E. Coli	(402)			235	Т	576	Т	_ ::					16		t			***		
Total suspended solids Color (color units) Biologicals Coliforms (total) E. Coli Additions or Changes (mg/L)				235	Т		Т			-							PRESENT			*
Total suspended solids Color (color units) Biologicals Coliforms (total)	(400)			235	Т		T						1/6							*

> Sample Location: Sample ID: Sample Date: Flow Rate (gpm):

DC 8.8C RESE-1001042 11/12/2003 24.5

Parameters and Consti	tuents					Sı	urfac	e Water S	stanc	lards		-						Results		
Name	Units	Fish Consumpt	ion	Full-bod Contac		Partial-be Contac		Agricultu Livesto Wateria	k			d Wildlife water) Chronic	c	Aquatic a Wildlife (ephemer Acute		Dissolved Results	Total Results	Total Recoverable Results	Field Parameters	Use Exceeded
		Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction					
ield					_										_				(0.1	
pH	s.u.	•••		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0	***	6.5-9.0		6.5-9.0		•••		-	6.8	
Temperature	°C									-							***		15 233	
Specific Conductance	μS/cm						***				•••			***			***	***	6.4	
Dissolved Oxygen	mg/L	***			***	***	****	***	•••	6	***	6		***					1.8	
Turbidity	NTUs															***			1.0	
letals			_				_				_			_		-	-20		1	
Aluminum	μg/L				***												<20 <3	<3		
Antimony	μg/L	4,300	TR	560	TR	560	TR			88	D	30	D	***		<3	<3	3		
Arsenic	µg/L	1,450	TR	50	TR	420	TR	200	TR	360	D	190	D	440	D	25		- 9		
Barium	μg/L			98,000	D	98,000	D					6.2				<2	<2	<2		
Beryllium	μg/L	1,130	TR	2.800	TR	2,800	TR			65	D	5.3	D	62	D	<0.1	<0.1	<0.1		
Cadmium	μg/L	84	TR	700	TR	700	TR	50	TR	4.1	D	2.2	D		D	<6	<0.1	<6		***
Chromium (total)	µg/L			100	TR	100	TR	1,000	TR				***				<6			122
Cobalt	μg/L		***			1.200		***	77				D	22	D	<3	<3	<3		
Copper	μg/L			1,300	TR	1,300	TR	500	TR	13.0	D	8.7	D	22	U		94	7		***
Iron	μg/L				***		TT.	100	TD	(2.1	D	-1-12,4-1-	D	131	D	<3	<5	<3		
Lead	μg/L			15	TR	15	TR	100	TR	62.1	ע	2,4,	D	151	υ			17		***
Manganese	µg/L			196,000	TR		TR		TP	2.1	D	[·: 0.01]·:	D	5.0	D	<0.2	<0.2	17		***
Mercury	µg/L	0.6	TR	420	TR	420	TR	10	TR	2.4	D		I D	5.0	- D		<8			
Molybdenum	µg/L	1.000		20,000	70	_	TR		***	454	D	50	D	4,035	D	<10		<10		
Nickel	µg/L	4,600	TR		TR	7,000	TR	50	TR	20.0	TR	:::2.0 :::	TR	33	TR		<3	3		***
Sclenium	µg/L	9,000	TR		TR		TR		IN	3	D			3.2	D	<0.1	<0.1	<0.1		222
Silver	µg/L	107,700	TR				TR			700	D	150	D			<2	<2	***		***
Thallium	μg/L	7.2 69.000	TR		TR	112 420,000	TR		TR	114	D	115	D		D	<5	<5	<5		***
Zinc	μg/L	69,000	IK	420,000	IK	420,000	IK	23,000	110	117	U	110		1,017	-					
Inorganic Non-metallics	MFL						I							I				***		***
Asbestos				126,000	TR		TR										<40			***
Boron	μg/L			120,000	IK	120,000	110			_	-					-	<100			193
Bromide	μg/L	215,000	TR		TR	28,000	TR	200	TR	41	TR		TR		TR				222	
Cyanide (free)	µg/L	213,000	III	84,000	T	84,000	T		-								350		***	***
Fluoride	μg/L			140,000	T	140,000	T										<100			
Nitrite (as N)	μg/L		1	2,240,000	T	2.240,000	T										<100	***	***	
Nitrate (as N) Nitrate + Nitrite (as N)	μg/L μg/L		1	2,240,000	-	2,240,000			-								<100	74.0	***	***
	μg/L μg/L		1		-					***						***	<500			***
Orthophosphate Silica	μg/L μg/L		-														66,900	***		
Sulfide	µg/L				-			***		100	Т			100	Т		<1000	-		
Major Anions	hg/D		1000			0.4000	-		-		-									
Chloride	μg/L		T	T	T		I										7,020	***	***	***
Sulfate	μg/L																15,700			
Carbonate (as CaCO ₁)	µg/L		1													200	<1000			
Bicarbonate (as CaCO ₃)	μg/L									-							127,000			***
Major Cations	P#	-	_		_		_		•									4-1		
Calcium	µg/L		I														28,400			
Magnesium	µg/L												-				6,200		2000	
Potassium	µg/L		1		1				I			18					1,300	222	(***)	***
Sodium	µg/L																25,000			***
Physical Properties	1		_	-	-															
Alkalinity (total as CaCO ₃)	μg/L		T				T						-				127,000			(***)
Hardness	mg/L	0.00	-														97			
Total Dissolved Solids	µg/L		1													***	198,000			
Total Suspended Solids	mg/L		1		1					80	T	80	T				<5		***	***
Color	color units		-		1												19		(444)	
Biologicals		-	-																	
Coliforms (total)	MPN/100 m	1	T							***		0					900	222		
E. Coli	MPN/100 m		1		-	576		***									900	200	***	FBC & PBC

E. Coli MPN/100 ml --- 235 --- 576 --- --- --- --- --- --- Notes:

Notes:

Su = standard units

C = decrees Celsius

µS/cm = microSiemens per centimeter

mgL = milligrams per liter

NTU = Nephelometric Turbdity Units

µgL = micrograms per liter

MPL = Million Fibers per Liter

ml = millililiter

ml = millililiter

ml = most probable number per 100 milliliter

--- = not applicable

T = total

TR = total recoverable

D = dissolved

ND = not detected

*No designated uses exceeded

*No

> Sample Location: Sample ID: Sample Date: Flow Rate (gpm):

DC 8.8C RESE-1001062 2/17/2004 83.9

Parameters and Consti	tuents					S	urfac	e Water S	Stano	lards							N. T.	Results		
		Fish Consumpt	tion	Full-boo		Partial-b Contac	ody	Agricultu Livestos Wateria	iral ek	Aquat	arm	d Wildlife water) Chroni		Aquatic a Wildlif (ephemer Acute	e al)	Dissolved	Total Results	Total Recoverable	Field	Use Exceeded
Name	Units	tandard	Fraction	tandard	raction	tandard	raction	standard	raction	Standard	raction	Standard	Fraction	Standard	Fraction	Results	Total Mesults	Results	Parameters	
Field		· 0	14	S	in.	- vo	14	0	-		1	90	-							
pH	s.u.			6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0	***	6.5-9.0			***	***	7	
Temperature	°C					-											****		7	***
Specific Conductance	μS/cm					9***		(A)EN										***	129	***
Dissolved Oxygen	mg/L			***		***		***		6		6	***	***		***			11	2.0
Turbidity	NTUs					***				***	•••				***		***		3.3	
Metals				200			_										118		1	200
Aluminum	μg/L			***		***	TD	***				30	D				<0.3			
Antimony	μg/L	4,300	TR	560	TR	560 420	TR	200	TR	88 360	D	190	D	440	D		1.3			***
Arsenic	μg/L	1,450	TR	98,000	D	98,000	D	200	IR.	360	U	190					1.3			
Barium Beryllium	μg/L μg/L	1,130	TR		TR	2,800	TR		-	65	D	5.3	D				<0.2			***
Cadmium	μg/L μg/L	84	TR	700	TR	700	TR	50	TR	1.6	D	1.2	D	25	D		<0.1	(222		
Chromium (total)	μg/L μg/L			100	TR	100	TR	1,000	TR			***							24	622
Cobalt	µg/L															***	<0.7	***		
Copper	μg/L			1,300	TR	1,300	TR	500	TR	5.8	D	4.2	D	10	D		2.3			***
Iron	μg/L										***	-					114			
Lead	μg/L			15	TR	15	TR	100	TR	24.4	D	0.9	D	51	D		<1	S 		***
Manganese	μg/L			196,000	TR	196,000	TR			-						11.2	1444	-		
Mercury	µg/L	0.6	TR	420	TR	420	TR	10	TR	2.4	D	0.01	D	5.0	D		<0.2	-		222
Molybdenum	μg/L			***	***	***		***	***	***				***			3.1			
Nickel	μg/L	4,600	TR		TR	28,000	TR			222	D	25	D	1,968	D		<0.8			55.2
Selenium	µg/L	9,000	TR		TR	7,000	TR	50	TR	20.0	TR D	2.0	TR	0.8	TR D	-	<0.1			
Silver	μg/L	107,700	TR		TR	7,000	TR		***	700	D	150	D	0.0			<0.4		***	
Thallium Zinc	μg/L μg/L	7.2 69,000	TR	112 420,000	TR		TR	25,000	TR	55	D	56	D	526	D	222	0.63			
Inorganic Non-metallics	ngit	07,000	III	420,000	110	420,000	110	25,000			-		-							
Asbestos	MFL		T					***									(222)		***	
Boron	μg/L			126,000	TR	126,000	TR									-	<7			***
Bromide	μg/L															1	<100	***	1995	
Cyanide (free)	μg/L	215,000	TR		TR	28,000	TR	200	TR	41	TR	9.7	TR	84	TR	244		***	***	
Fluoride	μg/L			84,000	T	84,000	T			***							137			
Nitrite (as N)	µg/L			140,000	T	140,000	T	***				***				***	<100	***		
Nitrate (as N)	μg/L			2,240,000	T	2,240,000	T										<100		244	
Nitrate + Nitrite (as N)	μg/L													***			<100 <500			
Orthophosphate	μg/L					***			***							***	<500		***	***
Silica	µg/L	***									T			100	Т		<1000			
Sulfide	µg/L	***			***				-	1100	1		255	1100	1					
Major Anions	ua/I		T			T	1		-			l	I				4,500			
Chloride Sulfate	μg/L μg/L		1		-						_		-				18,200			(424)
Carbonate (as CaCO ₃)	µg/L		-				-					(i			-		<1000			
Bicarbonate (as CaCO ₃)	μg/L																43,200			•••
Major Cations			_		•															
Calcium	µg/L					442										•••	12,300		***	
Magnesium	µg/L							-									2,570			
Potassium	μg/L																1,080	22	***	***
Sodium	µg/L	***		-44		100											10,600		***	
Physical Properties			_		_		_				_					Service Control	12 200			
Alkalinity (total as CaCO ₃)	μg/L												-				43,200			
Hardness	mg/L					\$5.2							-				73,000			
Total Dissolved Solids	μg/L			***					***		т		T				73,000 <5			
Total Suspended Solids	mg/L	***								80	Т	80	1				10			
Color	color units	***					1						1	1			10			
Biologicals Coliforms (total)	MPN/100 ml		1	T	T		T		l		I		I	T			46	-		
Coliforms (total) E. Coli	MPN/100 ml			235	-	576			-		-		1				<2			/ACC-2
L. COIL	141 147 100 HI	1	1	200			_	-yar 2395	_		_	-	_	_	-	-	-		•	

E Coli MPN/100 ml --- --- 235 --- 576 --- --- --- --- --
Notes:
Green cell color indicates ADEQ designated uses that are assumed to apply to site location.

s.u = standard units
'C = degrees Celsius
pS(m = microSiemens per centimeter
mg/L = milligrams per liter
NTUs = Nephelometric Turbidity Units
pg/L = micrograms per liter
MTL = Million Fibers per Liter
ml = millifilites
ml = micrograms per liter
MPN/100 ml = most probable number per 100 milliliter
--- = not applicable
T = total
TR = total recoverable
D = dissolved
ND = not detected
--- No designated uses exceeded

> Sample Location: Sample ID: Sample Date: Flow Rate (gpm):

DC 8.8C RESE-1001078 5/21/2004

Parameters and Constit	te				_	S	urfor	e Water S	tand	lards						TOTAL STREET		Results		
Name	Units	Fish Consumpt	ion	Full-boo		Partial-be Contac	ody	Agricultu Livestoc Waterin	ıral k	Aquati		d Wildlife water) Chroni		Aquatic a Wildlif (ephemer Acute	e ral)	Dissolved	Total Results	Total Recoverable	Field	Use Exceeded
Name	Cints	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Results		Results	Parameters	
Field					_		_			44001				(500					8	
pH	s.u.			6.5-9.0		6,5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0				-	16	
Temperature	°C		***				***				-							1200	220	***
Specific Conductance	μS/cm mg/L									6		6					***	***	6.3	
Dissolved Oxygen Turbidity	NTUs					***								222				•••	1.5	
Metals					-															
Aluminum	μg/L					144		***						•••		***	<20	***		
Antimony	μg/L	4,300	TR	560	TR	560	TR		•••	88	D	30	D			<3	<3	<3	***	
Arsenic	µg/L	1,450	TR	50	TR	420	TR	200	TR	360	D	190	D	440	D	<3	<3	<3		2
Barium	µg/L	-111		98,000	D	98,000	D						D			20 <2	<2	<2		
Beryllium	μg/L	1,130	TR	2,800	TR	2,800	TR		TR	65 3.1	D D	5.3	D	46	D	<0.1	<0.1	<0.1		244
Cadmium	μg/L	84	TR	700	TR	700 100	TR	50 1,000	TR	3.1	U	1.8		40		<6		<6		
Chromium (total)	μg/L			100	TR	100	I IK	1,000	111								<6			
Copper	µg/L			1,300	TR	1,300	TR	500	TR	10.1	D	6.9	D	17	D	<3	<3	3.4	***	K44
Copper Iron	μg/L μg/L			1,300		1,300								***			86			
Lead	µg/L			15	TR	15	TR	100	TR	46.3	D	1.8	D	98	D	<3	<3	<3		
Manganese	μg/L			196,000	TR	196,000	TR										92/20	18		
Mercury	μg/L	0.6	TR	420	TR	420	TR	10	TR	2.4	D	0.01	D	5.0	D	<0.2	<0.2			
Molybdenum	µg/L								•••	***				***		***	<8	***		
Nickel	μg/L	4,600	TR	28,000	TR	28,000	TR			362	D	40	D	3,212	D	<10		<10		
Selenium	μg/L	9,000	TR	7,000	TR	7,000	TR	50	TR	20.0	TR	2.0	TR	33	TR		<0.1	<0.1		
Silver	μg/L	107,700	TR	7,000	TR	7,000	TR			2	D	150	D	2.0	D	<0.1	<0.1	×0.1		
Thallium	μg/L	7.2	TR	112 420,000	TR	112 420,000	TR	25,000	TR	700 90	D	91	D	859	D		<5	<5		-
Zinc	μg/L	69,000	IK	420,000	IK	420,000	IK	25,000	IN	90	D	/1	10	0.27	-	No.				
Inorganic Non-metallics Asbestos	MFL				T		T			·		77.	T		T					
Boron	μg/L			126,000	TR	126,000	TR									1000	<40			***
Bromide	μg/L											ZH					130	***		
Cyanide (free)	μg/L	215,000	TR	28,000	TR	28,000	TR	200	TR	41	TR	9.7	TR	84	TR		<10			
Fluoride	μg/L			84,000	T	84,000	T			***			***	***	***	***	290			
Nitrite (as N)	μg/L			140,000	T	140,000	T								***	***	<1000			
Nitrate (as N)	μg/L			2,240,000	T	2,240,000	T										<1000 <2000			
Nitrate + Nitrite (as N)	µg/L														-51	***	<2000			***
Orthophosphate	μg/L										-		-				59,200			•••
Silica	μg/L								-	100	T			100	T		:<1000	22		Same.
Sulfide Major Anjons	μg/L				1		1			1	<u> </u>									
Major Anions Chloride	µg/L	***	T				T		I				J				5,950		***	
Sulfate	μg/L μg/L															1999	7,060			
Carbonate (as CaCO ₃)	μg/L				1												<1000		2000	
Bicarbonate (as CaCO ₃)	μg/L	-	-	***	I											See 2	109,000			
Major Cations			_		_				_		_		-		_		32 200			
Calcium	μg/L	***											-			***	22,300			
Magnesium	µg/L									-							4,400 1,200			
Potassium	μg/L			***	-								-				19,300			***
Sodium	μg/L	***	1		1				1				1		1			Maria de la companya della companya della companya della companya de la companya della companya		
Physical Properties Alkalinity (total as CaCO ₃)	пел		-		T	T	T		T				T		T		109,000	12.27	122	
Hardness	μg/L mg/L		1-		-				1		_						74	(mm)	0.000	
Total Dissolved Solids	µg/L				1				1								190,000	***	***	
Total Suspended Solids	mg/L					***				80	Т	80	Т				<5			
Color	color units						1							***			10			
Biologicals									_				_		_					
Coliforms (total)	MPN/100 ml			235								***					240 <2			
	MPN/100 ml					576		***												

E. Coli MPN/100 ml --- 235 --- 576 --- -- -- -- -- -- -- -- Notes:

Notes:

Standard units

C --- degrees Celsius

µS(me microStemens per centimeter

mg/L = milligrams per liter

MTUs = Nephelometric Turbidity Units

µg/L = micrograms per liter

MTL = Millior Fibers per Liter

ml = millititers

MFN/100 ml = most probable number per 100 milliliter

--- = not applicable

T = total

T = total recoverable

D = dissolved

ND = not detected

*= No designated uses exceeded

*= No

DC 8.8C RESE-1001151 8/16/2004 5.06

Parameters and Consti	tuents					S	urfac	e Water S	tanc	lards			_					Results		
		Fish Consumpt	ion	Full-boo		Partial-be		Agricultu Livestos	k	(11)	arm	nd Wildlife water)		Aquatic a Wildlif (ephemer	e ral)			Total Recoverable	Field	
Name	Units							Waterin		Acute		Chroni		Acute		Dissolved Results	Total Results	Results	Parameters	Use Exceeded
		Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction					
Field									_				_						7.0	
pH	s.u.			6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0	***	6.5-9.0		6.5-9.0	••••			***	7.8	
Temperature	°C						-775							***	•••		(***)	•••	338	
Specific Conductance	µS/cm			***		***		***	•••			•••			***		(222)		3.9	A&WwwA & A&Ww
Dissolved Oxygen	mg/L	•••		***		***				6		6		***		***			0.85	Add way to receive
Turbidity	NTUs						•••		***	***	***		200	35575					CIOD	The second second
letals			_		_			THE REAL PROPERTY.				DE SUITE	1220				20	***		
Aluminum	µg/L	***	***			***	770		***	00	D	30	D			<3	<3	<3	***	
Antimony	µg/L	4,300	TR	560	TR	560	TR	100000000000000000000000000000000000000	TD	360	D	190	D	440	D	5	5	4		
Arsenic	µg/L	1,450	TR	50	TR	420	TR	200	TR		17	190	υ	440	1	26				oan
Barium	µg/L	1.120	77	98,000	D	98,000	D TR		***	65	D	5.3	D		-	<2	<2	<2		
Beryllium	µg/L	1,130	TR	2,800	TR	2,800		50	TR	4.6	D	2.4	D	69	D	<0.1	0.1	<0.1	1969	120
Cadmium	µg/L	84	TR	700	TR	700	TR	1,000	TR				U		10	<6	0.1	<6		
Chromium (total)	μg/L			100	TR	100	TR	1,000	IK						-		<6			***
Cobalt	µg/L			1.200	TP	1 200	773		TD	14.3	D	9.5	D	25	D	<3	<3	<3	***	***
Copper	μg/L	***		1,300	TR	1,300	TR	500	TR	14.3	10	9.5	U		1		212		Nese	1244
Iren	μg/L				TD	15	TR	100	TR	69.5	D	.·.·2:7·.·	D	147	D	· ::<3 · :	<3	<3		
Lead	µg/L			15	TR		TR		IK	69.5		- 2.	1	147	10			62		
Manganese	μg/L		TD	196,000	TR	196,000 420	TR	10	TR	2.4	D	·: 0.01 ·:	D	5.0	D		<0.2		(444)	
Mercury	µg/L	0.6	TR	420	TR		IK		IK	2.4	10	. 0.01 .		2.0	-		<8		2000	
Molybdenum	µg/L	4,600		28,000	TR	28,000	TR			496	D	55	D	4,403	D	<10		<10		
Nickel	µg∕L	9,000	TR		TR	7,000	TR	50	TR	20.0	TR		TR	33	TR		<3	· : : : : : <3 · · · · ·	10000	
Selenium	µg/L	107,700	TR		TR	7,000	TR		IK	4	D			3.9	D	<0.1	<0.1	<0.1		
Silver	μg/L	7.2	TR	112	TR	112	TR			700	D		D			<2	<2			222
Thallium	μg/L μg/L	69,000	TR		TR		TR		TR	124	D		D		D		<5	<5		
Zinc Inorganic Non-metallics	μръ	07,000	III	420,000	111	120,000	1		-		-									
Asbestos	MFL.		1	***	T		T				I					10.07		***	***	
Boron	μg/L			126,000	TR		TR										<40			244
	μg/L μg/L			120,000	1	120,000											<100	***		222
Bromide Cyanide (free)	μg/1.	215,000	TR		TR	28,000	TR	200	TR	41	TR	9.7	TR	84	TR				200	
Fluoride	ug/L	215,000	1	84,000	T	84,000	T							2.0			390	***	***	***
Nitrite (as N)	µg/L	***		140,000	T	140,000	T	***									<100			***
Nitrate (as N)	µg/L		1	2,240,000	T	2.240,000	T								٠	***	<100			
Nitrate + Nitrite (as N)	με/1.		1	2,240,000	1			222							ļ		<200	***	200	***
Orthophosphate	ug/L		1		1			***							ļ	1222	<500	***	***	***
Silica	μgL			***											Ī		70,100			***
Sulfide	μg/L									100	T			100	T		<1000 ∴	***		***
Major Anions			_	-	_															
Chloride	µg/L									7							9,850	-114	***	•••
Sulfate	ид/L		1			***				777 -4 - (1	L						9,060		242	•••
Carbonate (as CaCO ₃)	ид/L																<1000			
Bicarbonate (as CaCO ₃)	µg/L									***		*****		***			176,000	555		***
Major Cations			-			Ti-series														
Calcium	µg/L		1	***	1			***									32,700	900		
Magnesium	ug/L		1			10000						***					6,030			
Potassium	µg/L				1							***					1,400	***		
Sodium	µg/L		1		1									- 22	1		30,600			
Physical Properties																				
Alkalinity (total as CaCO ₃)	μе∕L			***						***						***	176,000			***
Hardness	mg/L									7			***				107	***	***	•••
Total Dissolved Solids	µg/L				1												256,000	***	***	•••
Total Suspended Solids	mg/L									80	T	80	T		1		<5	144		***
Color	color units			***				***		•••						500	28	- 111		
Biologicals									V.						_					
Coliforms (total)	MPN/100 ml		1						I		ļ						1,600		***	
E. Coli	MPN/100 ml	-		235	-	576											22	***		

| Collowins (ucar) | No. 1905 | N

DC 8.8C RESE-1001174 11/16/2004 17

				_		uiiat	e Water S	tand	ards								Results		
	Fish Consumpt	ion	Full-boo		Partial-b Contac		Agricultu Livestoc Waterin	k			d Wildlife water) Chroni	c	Aquatic a Wildlif (ephemer Acute	e ral)	Dissolved	Total Results	Total Recoverable	Field	Use Exceeded
Units	andard	action	andard	raction	andard	raction	andard	raction	andard	raction	andard	raction	landard	raction	Results	TOTAL RESULTS	Results	Parameters	
	Š	Ġ.	<u></u>	Œ	Š	Ę.	- Š	Œ	Š	Œ	_s_l	15.	S.	Œ					
ex ton		880	(500	22.0	6500		6500		6500		65.00	100	65.90					7.6	
S.U.			0.3-9,0		-									_				11	
		1										-						297	
								_										6.4	-
									J 7/5									1.1	S###
111.00	ALC: NAME OF TAXABLE PARTY.				to invest.	_													
ue/L													/			<30	***		
		TR	560	TR	560	TR			88	D	30	D	***		7	<3	<3		
			50	TR	420	TR	200	TR	360	D	190	D	440	D	<3	<3	<3		
			98,000	D	98,000	D	***				100 to 10		I		23				
	1,130	TR	2.800	TR	2,800	TR			65	D	5.3	D	***		<2				***
		TR	700	TR	700	TR	50	TR	4.4	D	2.3	D	66	D		<0.1			***
			100	TR	100	TR	1,000	TR			***								
μg/L									- /II		J								
μg/L	122		1,300	TR	1,300	TR	500	TR				D		D					***
µg/L			***			***	***												***
µg/L			15	TR	15	TR	100	TR		D	2.6	D		D					***
µg/L	***		196,000	TR	196,000	TR			//										1005
μg/L	0.6	TR	420	TR	420	TR	10	TR		D		D		-					
μg/L					***				***			***		_					***
µg/L		TR					- 12.20							-					1007
μg/L	9,000	TR	7,000	TR	7,000	TR	50	TR			2.0	TR							
	107,700	TR	7,000	TR	7,000	TR					***	***		D					
μg/L	7.2	TR	112									D							944
μg/L	69,000	TR	420,000	TR	420,000	TR	25,000	TR	119	D	120	D	1,131	D	<10	<10	<10		242
						_						_		_					
MFL	•••										***			***				_	
µg/L		***	126,000	TR	126,000	TR				JAPO									
µg/L				***												120		0.00	
μg/L	215,000	TR						TR		TR				-	-	***			
μg/L		***									•••	200							
µg/L	***							***			***	-						7.500	
μg/L	***		2,240,000	T	2,240,000	T					***						***		
μg/L					***			1000		200		***	1-011						
μg/L				+										***					
µg/L	***			-									100	т.					
μg/L		***			***		-		- 100	1			. 100	1		1 < 1900			
				_		_			10000000	COLUM	The same of	0.000		17.00		6 120	106		***
				000						***									
μg/L				***															
μg/L										1000				1					
µg/L	- ***		100											1		140,000			
						_	111111111111111111111111111111111111111	2007	Olares and	1		USE S	-	T	-	30 900		I I	
												-		+					
µg/L								***		-		-							
μg/L		1									V	1		1		2.4000	<u> </u>		
wat.		1		_		1				I	150,270	-	T	T	1	148.000	2/3		
		1		1		1	_					-			524			(***)	***
		-		H		1				-							152		***
		-				1		-		T			-	1		<5			
		1		1		-				1		·	***			19		1552	
color units		1				_		_		_		_		_	-	-			
MPN/100 ml		1			I	T					***					26			
MPN/100 ml			235	1	576											2			
	HEAL HEAL HEAL HEAL HEAL HEAL HEAL HEAL	\$.U.	S.U. °C °C °C mgL mgL	Su	Su	Su	Su	Su	Su	Su	Su	Sul	Sili	Su	Sun	Sult	San	Carlos C	Second S

MRI = Million Fibers per Liter
ml = millitiers
MPN/100 ml = most probable number per 100 milliliter
--- = not applicable
T = total
TR = total recoverable
D = dissolved
ND = not detected

- No designated uses exceeded
--- No designated uses exceeded
--- No designated uses exceeded
--- Secondard is lower than detection limit
--- Exceedances (except for Dissolved Oxygen and pH)
Arizona state Dissolved Oxygen standards correspond to minima, therefore values less than the requirements are highlighted.

Arizona state pH standards correspond to ranges, therefore values outside of the requirements are highlighted.

DC 8.8C RESE-1001197 2/25/2005 33040.66

	uents	100000				S	urfac	e Water	Stand	ards								Res	ults	
	7.4	Fish Consumpt	tion	Full-boo		Partial-h		Agricult Livesto Wateri	ck _	(11	arm	d Wildlife water)		Aquatic: Wildli (epheme	fe ral)			Total Recoverable	Field	
Name	Units							wateri	mg	Acute		Chron	ic	Acuto		Dissolved Results	Total Results	Results	Parameters	Use Exceeded
		Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction					
ield			-						_										7.0	
pH	s.u.			6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0	-	544	***	***	7.8	
Temperature	°C			***		***				•••									67	
Specific Conductance	μS/em					***	-					6	-						9.4	
Dissolved Oxygen	mg/L				-					6									6.4	
Turbidity letals	NTU ₅				-				10000						_					
Aluminum	μg/L				-							1000			-		905			
Antimony	µg/L	4,300	TR	560	TR	560	TR			88	D	30	D			<3	<3	⋖		
Arsenie	μg/L	1,450	TR	50	TR	420	TR	200	TR	360	D	190	D	440	D	3.4	3.6	3.7		
Barium	μg/L			98,000	D	98,000	D									12	-			
Beryllium	μg/L	1,130	TR	2,800	TR	2,800	TR			65	D	5.3	D			<2	<2	<2		
Cadmium	µg/L	84	TR	700	TR	700	TR	50	TR	0.8	D	0.7	D	12	D	<0.2	<0.2	<0.2 <6		
Chromium (total)	μg/L			100	TR	100	TR	1,000	TR			***					<6			
Cobalt	µg/L		-	1 200	770	1 200	TD	500	TR	3.0	D		D	5.2	D	13	15	14		A&WwwA, A&WwwC, A&W
Copper	µg/L		-	1,300	TR	1,300	TR	500	1K					3/2			454	, and		
Iron	μg/L ug/L		-	15	TR	15	TR	100	TR	11.0	D	0.4	D	23	D	∵:<3·∵:	<3	<3	144	
Lead Manganese	µg/L µg/L	_		196,000	TR	196,000	TR					-			-			7.9		(Access
Mercury	μg/L μg/L	0.6	TR	420	TR	420	TR	10	TR	2.4	D	0.01	D	5.0	D	<0.2	<0.2	-		
Molybdenum	μg/L μg/L															-	<8			
Nickel	μg/L.	4,600	TR	28,000	TR	28,000	TR	•		122	D	14	D	1,084	D	<10	1(442)	<10		1889 (
Selenium	µg/L	9,000	TR	7,000	TR		TR	50	TR	20.0	TR	- 2.0	TR	33	TR		<3	·····<3·····		Ank
Silver	µg/L	107,700	TR	7,000	TR		TR			0	D	-		0.2	D	<0.1	<0.1	<0.1		
Thallium	μg/l.	7.2	TR	112	TR		TR			700	D	150	D	200		<2	<2	<10		***
Zine	µg/L	69,000	TR	420,000	TR	420,000	TR	25,000	TR	30	D	31	D	289	D	<10	<10	<10		
norganic Non-metallics			_		_		1		1	and the same	5963	and the latest terminal termin		_	1 50	1000		122		
Asbestos	MFL.					126,000	770	_									<40		- 122	
Boron	µg/L		-	126,000	TR	126,000	TR						-		1		<100	-		
Bromide	μg/L	215,000	TR	28,000	TR		TR	200	TR	41	TR	9.7	TR	84	TR		-100			
Cyanide (free)	μg/L.	215,000	III	84,000	T	84,000	T		111				-	- 111	1		<100		***	***
Fluoride Nitrite (as N)	µg/L µg/L		-	140,000	T	140,000	-								-		<100	1		
Nitrate (as N)	μg/L			2,240,000	T												220	***	222	1992
Nitrate + Nitrite (as N)	µg/L		-		İ								-	***			220			
Orthophosphate	μg/L.	-		***													<500		***	
Silica	μg/L											***					25,900	5000		
Sulfide	µg/L			***						10a · .	T			100	T		<1000	1900		
Major Anions			-		_	1	_	-		War and the state of	Tarace I	1000000	1000				2,810	***		
Chloride	µg/L						-						-				10,800		***	
Sulfate Carbonate (as CaCO ₃)	μg/L μg/L		-		-		1		-	-				-			<1000			2 711 2
Bicarbonate (as CaCO ₃)	μg/L				-									•••			10,700	***	•••	Sec.
Major Cations	FED				10000		-													
Calcium	μg/L		1								-	***		3 20 3			5,680			
Magnesium	µg/L	V	_										-	7443			1,500	•••		***
Potassium	μg/L	-							-				***				1,460	(See 2)	***	(***)
Sodium	μg/l.	224			***		1=								1		4,500	222	5	
Physical Properties			_		-		_	-							_		10,700	-		
Alkalinity (total as CaCO ₃)	µgЛ.	-			-						-		***	(***			20	***		***
Hardness	mg/L			-			-				1		1	***	1		76,000			
Total Dissolved Solids	µg/L mg/L		-		-					80	T	80	T		1		<5		1000	
Total Suspended Solids Color	mg/L color units												-	***			46			
Biologicals	cosos umis				-		-		-				•							
Coliforms (total)	MPN/100 m	1	T	-	1						I						36			
Semential feetil	MPN/100 m			235	1	576										227	<2		***	***

DC 8.8C RESE-1001211 5/11/2005 20.3

Parameters and Constit	uents					S	urfac	e Water S	tano	lards								Results		
Name	Units	Fish Consumpt	ion	Full-boo		Partial-be Contac		Agricultu Livestos Waterii	k		arm	nd Wildlife water) Chron		Aquatic a Wildlif (ephemer Acute	e ral)	Dissolved Results	Total Results	Total Recoverable Results	Field Parameters	Use Exceeded
		Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction				H	
Field													_						1 aa 1	
pH	s.u.	***		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0					7.7	
Temperature	°C					***							-						14	
Specific Conductance	μS/cm					***		***						***	***	***		200	170 9.1	
Dissolved Oxygen	mg/l.	***		F					•••	6		6		•••	***	***	2000		0.92	
Turbidity	NTUs	***											***				***		0.72	
Metals					_						_		_					Test C	I I	202
Aluminum	μg/L	***						***		***				***			56			225
Antimony	μg/L	4,300	TR	560	TR	560	TR	***	•••	88	D	30	D			<3	<3			
Arsenie	μg/L	1,450	TR	50	TR	420	TR	200	TR	360	D	190	D	440	D	<3	<3	<3		
Barium	µg/L			98,000	D	98,000	D									18		<2		
Beryllium	μg/L	1,130	TR	2,800	TR	2,800	TR			65	D	5.3	D			<2	<2	<0.2		
Cadmium	µg/L	84	TR	700	TR	700	TR	50	TR	2.3	D	1.5	D	35	D	<0.2	<0.2			
Chromium (total)	µg/L			100	TR	100	TR	1,000	TR							<6		<6		
Cobalt	μg/L					***								***			<6	<10		
Copper	µg/L	75		1,300	TR	1,300	TR	500	TR	7.9	D	5.5	D	14	D		<10	<10		222
Iron	μg/L			-11						***							121			
Lead	µg/L		272	15	TR	15	TR	100	TR	34.6	D	:::1:3::-	D	73	D		্য	<3	***	***
Manganese	µg/L			196,000	TR	196,000	TR	***		***							***	11		***
Mercury	µg/L	0.6	TR	420	TR	420	TR	10	TR	2.4	D	0.01	D	5.0	D		<0.2			
Molybdenum	µg/L					122					***						<8			
Nickel	µg/L	4,600	TR	28,000	TR	28,000	TR	***		290	D	32	D	2.573	D	<10		<10		
Selenium	µg/L	9,000	TR	7,000	TR	7,000	TR	50	TR	20.0	TR		TR		TR		<3	·:·:::::::::::::::::::::::::::::::::::		***
Silver	µg/L	107,700	TR	7,000	TR	7,000	TR			1	D	***		1.3	D		<0.1	<0.1		
Thallium	µg/L	7.2	TR	112	TR	112	TR	***		700	D	150	D	***			<2	<10		
Zinc	ид∕І.	69,000	TR	420,000	TR	420,000	TR	25,000	TR	72	D	73	D	688	D	<10	<10	<10	-	
Inorganic Non-metallics									_		_		_		_			T	T 1	201
Asbestos	MFL					***		***				•••		***		107754	<40			
Boron	µg/L	•••		126,000	TR	126,000	TR	***						***						
Bromide	µg/L					***											115	***		***
Cyanide (free)	µg/L	215,000	TR		TR	28,000	TR	200	TR	41	TR	9.7	TR		TR	-	164			
Fluoride	µg/L			84,000	T	84,000	T		***	***					1		<100			***
Nitrite (as N)	µg/L			140,000	T	140,000	T	***						***	1		<100			
Nitrate (as N)	µg/L	***		2,240,000	T	2,240,000	T													***
Nitrate + Nitrite (as N)	µg/L	-					1								1		<200	***		
Orthophosphate	μg/L			***		***				***	***		***		1		<500 43,900			•••
Silica	μg/L			***							77			100	T		43,900			
Sulfide	μg/L	•••			1					100	T			1100	11	1	I			
Major Anions					_		_		_		_	Lanca de	_	_		T -	7 190		1	
Chloride	μg/L																7,380			***
Sulfate	μg/L							***				***			1		9,690 <1000			
Carbonate (as CaCO ₃)	μg/1.																70,600			
Bicarbonate (as CaCO ₃)	μg/L								1-						1	1	70,000	535	970	
Major Cations			_		_	_	_	_	_			1	_		_	T	17,000	1		
Calcium	μg/L	111111111111111111111111111111111111111				***					1				1			770		
Magnesium	μg/l.														1	• •••	3,460			
Potassium	μg/1.					***		***							1		1,220			***
Sodium	μg/L	***		***											1	·I ···	13,000	1		000
Physical Properties					-		-		_				_		_	_	70,600		T	
Alkalinity (total as CaCO3)	μgЛ.	•••				- 1000				***				• •••						***
Hardness	mg/L	***		***						***							57			
Total Dissolved Solids	μg/L							***							1	- •••	96,000			
Total Suspended Solids	mg/L									80	T		T				<5			
Color	color units	•••															<1		<u> </u>	
Biologicals			_		_	_	_		_				_	_	_		T	- 30		
Coliforms (total)	MPN/100 m					-									1		21	244		***
E. Coli	MPN/100 m	1		235		576							***		1		6	222		

| Coltoms (total) | MPN/100 ml | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ...

DC 8.8C RESE-1001228 8/16/2005

	tuents					S	urfac	e Water S	Stand	ards								Res	ults	
	44	Fish Consumpt	ion	Full-bod Contac		Partial-b Contac	ody	Agriculti Livesto Wateri	ural ek	Aquat	arm	d Wildlife water) Chroni		Aquatic a Wildlif (epheme) Acute	e ral)	Dissolved	Total Results	Total Recoverable	Field	Use Exceeded
Name	Units	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Results	Total Results	Results	Parameters	
ield							_				_				_					
pH	s.u.			6.5-9.0	-	6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		-	•••	***	7.8	
Temperature	°C	***			***		-			***				1444			(22 116	
Specific Conductance	μS/cm	-								-		6	-						7.3	
Dissolved Oxygen	mg/L NTUs						-			6									1.8	***
Turbidity letals	NIUS		-								1000000	200000000000000000000000000000000000000	1000							
Aluminum	µg/L									-						100	205			-
Antimony	µg/L	4,300	TR	560	TR	560	TR			88	D	30	D			<3	<3	<3		***
Arsenic	μg/L	1,450	TR	50	TR	420	TR	200	TR	360	D	190	D	440	D	5.7	5.2	5.2		***
Barium	µg/L		-	98,000	D	98,000	D			1//				***		24				(444)
Beryllium	μg/L.	1,130	TR	2,800	TR	2,800	TR	***		65	D	5.3	D	20	D	<0.2	<2 0.1	<2 <0.2		***
Cadmium	μg/L	84	TR	700	TR	700	TR	50	TR TR	1.3	D	1.0	υ		1)	<6	0.1	<6		200
Chromium (total)	µg/L		-	100	TR	100	TR	1,000	IK								<6			7241
Copper	μg/L. μg/L.			1,300	TR	1,300	TR	500	TR	4:9	D	3.6	D	8.5	D	∴.<10	12	<10		
Copper Iron	µg/L															***	203	***		***
Lead	µg/L			15	TR	15	TR	100	TR	19.8	D	0.8	D	42	D	<3:	<3	∜		946
Manganese	µg/L	18		196,000	TR	196,000	TR	415										30	124	(414)
Mercury	μg/L	0.6	TR	420	TR		TR	10	TR	2.4	D	0.01	D	5.0	D	<0.2	<0.2			
Molybdenum	μg/L					***				100			=	1 (8)			<8	<10		
Nickel	μg/L	4,600	TR	28,000	TR	28,000	TR	50	773	189	D	21	D	1,682	D TR	<10	<3	<10		
Selenium	μg/L	9,000	TR	7,000	TR	7,000	TR	50	TR	20.0	TR D		TR	0.5	D		<0.1		===	
Silver Thallium	µg/L ug/L	7.2	TR	112	TR	112	TR			700	D	150	D		-	<2	<2			- 12
Zine	μg/L μg/L	69,000	TR	420,000	TR		TR		TR	47	D	48	D	449	D	<10	<10	<10		
norganic Non-metallics	re.			100000			-		_				44							
Asbestos	MFL		-	***										_ /2255_					-	-
Boron	μg/1.	-		126,000	TR	126,000	TR					•••					<40			
Bromide	µg/L	***		-		***				***				***			<100	***		
Cyanide (free)	μg/L	215,000	TR	28,000	TR	28,000	TR	200	TR	41	TR	9.7	TR	84	TR		<100			
Fluoride	μg/L			84,000	T	84,000	T		-								<100		12-2	Taxas .
Nitrite (as N)	μg/L			140,000	T	140,000 2,240,000	T										330			***
Nitrate (as N)	μg/L μg/L				-	2,240,000			_					***			330			
Nitrate + Nitrite (as N) Orthophosphate	μg/L									14.12				***		***	<500		(1778)	(nee
Silica	μg/L									and the same				-			35,000		***	***
Sulfide	μg/L			•••		***				100	T	-		100	T		<1000	(222)		
Major Anions					_						_				_					
Chloride	μg/L							***						(+++)			5,370 14,900			-
Sulfate	µg/L				***				-								<1000			
Carbonate (as CaCO ₃) Bicarbonate (as CaCO ₃)	μg/L μg/L							***				***					30,500	***	(***	
Major Cations	pen			31/1/15	1000		_		-		_									
Calcium	µg/L						-							See-1	T	223	9,790		***	
Magnesium	μg/L.					1000 V							-	***			2,390	-	***	
Potassium	µg/L	***		-	***									***		11.2	2,210		7	
Sodium	μg/L	(944)		***				***							1		7,920	***		
Physical Properties					_		_	-			1500	Name of Street	1	-	L		30,500			
Alkalinity (total as CaCO ₃)	µg/L						-			•••	-				1		34			***
Hardness Tatal Discolord Solida	mg/L										-		-		1		111,000			
Total Dissolved Solids Total Suspended Solids	µg/L mg/L		-				-			80	T	80	T		1-	2	6	***	***	
Color	color units					-											19	52		
Biologicals	-						_													
Coliforms (total)	MPN/100 ml		-				_				-						1,600			
Comornis (total)	MPN/100 ml	-		235	1	576	***		10000							***	50	***	***	***

DC 8.2W

Sample Location: DC 8.2W Sample ID: RESE-1001017 Sample Date: August 21, 2003

PARAMETERS AND CONSTITU					ī			h n .3	П		A&	Ww		A&	We	D	T	TR		
		FC		FBC		PBC		AgL		Acute		Chronic		Ac		Result	Result	Result		
Name	Symbol	(µg/L)	Fraction	(µg/L)	Fraction	(µg/L)	Fraction	(µg/L)	Fraction	(µg/L)	Fraction	(րց/L)	Fraction	(µg/L)	Fraction	(µg/L)	(µg/L)	(µg/L)	Field Parameters	Use Exceeded
Field	**	THE REAL PROPERTY.		6.5 to 9.0		4.5 to 9.0		6.5 to 9.0	П	-									7.2	•
pH	pH °C				200	4.3 10 9.0		0.3 10 3.0							***				23.4	
Temperature	EC	24.30			-		Н												229	•
Specific Conductance (µS/cm)	DO				100					6		6				***			5.89	A&Ww acute, A&Ww chronic
Dissolved oxygen (mg/L) Turbidity (NTUs)	Turb.									17/22			50				•••	(444)	0.27	
Metals	Turo.		200						_										700	
Aluminum	Al								3		2					***	<20.0		***	•
Antimony	Sb	4,300	TR	560	TR	560	TR			88	D	30	D		***	<6.0	<6.0	<6.0		- :
Arsenie	As	1,450	TR		TR	420	TR	200	TR	360	D	190	D	440	D	<3.0	<3.0	<3.0		
Barium	Ва			98,000	D	98,000	D	•••		MI IE	题				522	20			***	-
Beryllium	Be	1,130	TR	2,800	TR	2,800	TR		2	65	D	5.3	D	000	***	<2.0	<2.0	<2.0		
Cadmium	Cd	84	TR		TR	700	TR	50	TR	4.2	D	2.2	D	63.9	D	<0.1	<0.1	<0.1		
Chromium (total)	Cr			100	TR	100	TR	1,000	TR						322	<6.0				
Cobalt	Co									divine Till	36						<6.0		***	
Copper	Cu			1,300	TR	1,300	TR	500	TR	13.3	D	8.9	D	23.0	D	<3.0	<3.0	<3.0		
Iron	Fe	***		***							TE.		14	- 22					-	
Lead	Pb		100	15	TR	15	TR	100	TR	63.9	D	2.5	D	134.8	D	· · <3.0 ·		<3.0		
Manganese	Mn			196,000	TR		TR			1 ##		7/		***	***			<2.0		:
Mercury	Hg	0.6	TR	100000000000000000000000000000000000000	TR		TR	10	TR	2.4	D	0.01	D	5.0	D	<0.2	< 0.2	***		
Molybdenum	Mo		1										1	- Sai	348			•••		
Nickel	Ni	4,600	TR		TR	28,000	TR		20	464.3	D	51.6	D	4,123.1	D	***		<10.0	***	
Selenium	Se	9,000	TR		TR		TR		TR	20.0	TR	2.0	TR	33.0	TR	***	<3.0	· · · <3.0 · ·	2443	
Silver	Ag	107,700	TR		TR		TR			3.4	D			3.4	D	<0.1	<0.1	<0.1		
Thallium	TI	7.2	TR		TR		TR			700.0	D	150.0	D	-		<2.0	<2.0	2000	377	
Zine	Zn	69,000	TR		TR		TR		TR	116.2	D	117.1	D	1,102.6	D	<5.0	<5.0	<5.0		•
	Lii	67,000	1.44	420,000	1	120,000			1.00				•		100			10		
Inorganic Non-metallics			1		1	724	Т						100							•
Asbestos (MFL)	В			126,000	TR	126,000	TR				18			***			<40.0			
Boron	CN	215,000	TR		TR		TR	200	TR	41	TR	9.7	TR	84	TR	***	<10.0		5.000	
Cyanide (free)	F		1.0	84,000	T		T			DVE TIME				1223		370		***	-	
Fluoride	NON		+	140.000	T		T										ND	***	***	•
Nitrite (as N) Nitrate (as N)	NO ₃ -N		-	2,240,000	T		T			9		-	23		***		380			•
Nitrate + Nitrite (as N)	NO, +NO, -N				†		Ť					***		(***)			380		722	
	P	7	1		-		+	1000	1			-						***	***	•
Phosphorous	SiO,				1		+								***		76,100		****	
Silica	3102	***	+		+	***	-			100	Т		II.	100	T		<1,000		222	•
Sulfide			_		-	303	-		-	/	-		•						2)	
Major Anions	Ci		Т		T	T	Т		1							***	4,700			
Chloride	SO4		-		+		\vdash						700	***	***	***	3,630	***		
Sulfate	CO ₁		+		-		+							12.2	9224		<1,000			
Carbonate			+		-		H								7.00		144,000	224	***	
Bicarbonate	HCO ₃		_		1		_		-		_		-		-				20	
Major Cations	T 6	110000	T	I			T		1		Г		1				29,600			
Calcium	Ca		+		+		1		1		1		1				6,050			2.00
Magnesium	Mg		-		+		1		1		1		1				<1,000		***	
Potassium	K	7700	-		+		+		-		1		1				22,100			
Sodium	Na	***	_		_		_		1	-	-	-	-							
Radionuclides	1		1	Total Silver	_	1 88	Т		T		1		T		_					(•)
Gross alpha activity (pCi/L)		-	-		+		+		1		1		1	1000						5.0
Gross beta activity (pCi/L)			+		+		+		-		1		+			222			-	•
Radium 226+228 (pCi/L)			+		-		+		-		1		1			12.2				9.€4
Uranium (mg/L)	U			1	_		_		1	1210	-	2000	-					•		
Physical Properties	1	The state of	-	1 5000	1	2568	T	-			T	12.00					144,009			J • 8
Alkalinity (total)			-		-		-		-		1		-		242		99,000			7.0
Hardness	773.0		+		+		+				1		+			224	218,000	***		
Total dissolved solids	TDS		-		+		+	1000		80	т	80	T				<5			€≜ β
Total suspended solids	TSS (mg/L)		+		+	***	+		-	80	+		+				-			3.80
Color (color units)			_		1	l		***	-		1				1			-		
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Gross alpha activity (pCVL)		Na				1		_			***		***	_		1_	1	22,100			
Cores beta etwity (pCt/L)	Radionuclides					-		_	100000000000000000000000000000000000000	-		_		1		_	T	-23	T	T	
Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Colo				-		-		-		-		1		+		1					
Reduin 200+228 (PUI)				-	-	-		+		-		+		+		1					
Alkalimity (total)				-		1		1	-							1					
Alkalinity (total)				-		-	300	-		_			-		-						
Hardness				T		T		T	22.	T		110	***		244		***		***		
Total dissolved solids TDS			-	1				T					1 11.		222						
Total suspended solids																L					
Color (color units) ND ND												T		T		1					
Hologicals					***									L		1_		ND		L	
Coliforns (total)	Biologicals			_		_		_	_	_		_	_		1000	-	1 1000	Inpress	1 100	Marie	
				-		-		1		-				+		-					
Bromide Br					235	T	576	T	***		***	1	I	1				ABSENT		1	
Bromide 51 ND ND	Additions or Changes (mg/L)			-		_	1	_	The second	-	The local te	Т	T -30	1	Sex	1	<100.0	T		T	
	Bromide Orthophosphate	Br PO ₄	***	-		-		1		-		+		-		+					

Bromide	Br	---
Onthophosphate	PO₄	---
Onthophosphate	PO₄	---
Notes		
Cell color indicates ADEQ designated uses that are assumed to apply to site location.		
Units are µgfl. unless otherwise indicated µgfl. = micrograms per liter mggl. = milligrams per liter		
T = Totals		
T = Totals		
T = Total Recoverable		
D = Poissolved		
ND = Not Detected		
* Not designated uses exceeded		
* = Not Tested		
µS/cm = microSicmens per centimeter		
pC/fl. = piceCuries per liter		
TUIs = Nephelometric Turbidity Units		
MFL = Million Fibers per Liter		
= Exceedances (except for DO and pH)		
AZ state DO standards correspond to minima, therefore values less than the requirements are highlighted		
AZ state pH standards correspond to ranges, therefore values outside of the requirements are highlighted		

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	uents		T		T	3	I	e Water S	I			a vegane	T	Aquatic a	and	-,-3		Results		
	- 31	Fish		Full-boo	dy	Partial-b	ody	Agricultu Livestoo				d Wildlife water)		Wildlif (ephemer	e					
Name	Units	Consumpt	tion	Contac	1	Contac	1	Waterin		Acute		Chroni	e	Acute		Dissolved Results	Total Results	Total Recoverable Results	Field Parameters	Use Exceeded
		tandard	raction	tandard	raction	tandard	raction	Standard	raction	Standard	Fraction	Standard	Fraction	Standard	Fraction					
eld		- 0	1 32 1	0)	-	- 01													7.1	
pH	s.u.		-	6.5-9.0		6.5-9.0		6.5-9.0	-	6.5-9.0		6.5-9.0		6.5-9.0					23	12.2
Temperature Specific Conductance	°C µS/cm											/6		***		***			274	
Dissolved Oxygen	mg/L					***		***		6		6					***	929	5.2 0.49	A&WwwA & A&W
Turbidity	NTUs							***				***	***	***					0.49	
letals		E LIVERUM	1		1000	***											<20			
Aluminum Antimony	µgЛ. µgЛ.	4,300	TR	560	TR	560	TR			88	D	30	D			<3	<3	<3	1999	***
Arsenic	μg/l.	1,450	TR	50	TR	420	TR	200	TR	360	D	190	D	440	D	<3	<3	<3		
Barium	μg/L	***		98,000	D	98,000	D							***		20 <2	<2	<2		
Beryllium	µg/L	1,130	TR	2,800	TR	700	TR	50	TR	65 4.1	D D	5.3	D	63	D	<0.1	<0.1	<0.1		
Cadmium (Intel)	μg/L ug/l	84	TR	700	TR	100	TR	1,000	TR	7.1						<6		<6		
Chromium (total) Cobalt	μg/L μg/L			100										***		***	<6			
Copper	µg/L	3.000		1,300	TR	1,300	TR	500	TR	13.1	D	8.8	D	23	D	<3	<3	<3	***	
Iron	μg/L							100		62.0			 D	132	D		<5 <5	 <3	***	***
Lead	µg/L			15	TR	15 196,000	TR	100	TR	62.8	D	2:4	ייי	132				<2		
Manganese	μg/L μg/L	0.6	TR	196,000 420	TR	420	TR	10	TR	2.4	D	0.01	D	5.0	D	<0.2	<0.2	-	***	
Mercury Molybdenum	μg/L μg/L						<u></u>			T							<8	***	***	
Nickel	μg/L	4,600	TR	28,000	TR	28,000	TR	***		458	D	51	D	4,067	D	<10		<10	500	
Selenium	μg/L	9,000	TR	7,000	TR	7,000	TR	50	TR	20.0	TR	2.0	TR	33	TR	-0.1	<0.1	<0.1		
Silver	µg/L	107,700	TR	7,000	TR	7,000	TR		•••	700	D	150	D	3.3	D	<0.1	<0.1			
Thallium Zinc	µg/L µg/L	7.2 69,000	TR	112 420,000	TR	112 420,000	TR		TR	115	D	116	D	1,087	D	<5	<5	<5		
norganic Non-metallics	pp.	07,000	110	120,000			1									-				
Ashestos	MFL											700		•••		300		•••		
Boron	µg/L			126,000	TR	126,000	TR			***			***	***			<40 <100			
Bromide	µg/L	215,000	TR	28,000	TR	28,000	TR	200	TR	41	TR	9.7	TR	84	TR					
Cyanide (free) Fluoride	μg/L μg/L	215,000	IR.	84,000	T	84,000	T			***		***					390		100	
Nitrite (as N)	μg/L			140,000	T	140,000	T			***							<100	•••	•••	
Nitrate (as N)	μg/L	1074		2,240,000	T	2,240,000	T										300	1200	***	
Nitrate + Nitrite (as N)	μg/L											***				***	300 <500			
Orthophosphate	µg/L							***								4440	72,800		***	
Silica Sulfide	μg/L μg/L								-	100	T			100	T	1222	∴ <1000·	144	***	(800
Major Anions	Pp.		-										_						_	
Chloride	µg/L			***					***			***				***	4,900			
Sulfate	µg/L																4,110 <1000			***
Carbonate (as CaCO ₃) Bicarbonate (as CaCO ₃)	μg/L μg/L					***						***		***	1		134,000			(***)
Major Cations	pp.		-		-															
Calcium	μg/L		T											2/22			29,200	***		
Magnesium	μgЛ.					***				***			***		1:::		5,970 1000			***
Potassium	μg/L					***			***							***	22,200			1000
Sodium Physical Properties	μg/L		1		1		1						-		1-20	12				
Alkalinity (total as CaCO ₃)	μgЛ.	***	1	***	T						1	***					134,000	252		***
Hardness	mg/L	***				2444		***				***		244	1		97		222	
Total Dissolved Solids	μg/l.	***						•••					T		1	Care C	197,000			
Total Suspended Solids	mg/L									80	T	80			1		5			
Color Biologicals	color units				1		1		-	-			1000							
	MPN/100 ml				1									***		***	900			
Coliforms (total)	MPN/100 ml			235		576						***		***		***	8		1	

> Sample Location: Sample ID: Sample Date: Flow Rate (gpm):

DC 8.2W RESE-1001063 2/17/2004 10.9

Fish Consump	Largetion Largeting TR TR TR TR TR TR TR TR TR TR TR TR TR	700 100 1,300 15 196,000 420 28,000		Partial-b Contact English Contact 6.5-9.0 560 420 98.000 2.800 700 100 1.300 1.51 196.000 420		Agricultu Livesto Wateri Page 17 6.5-9.0 200 50 1,000	ck _			Chroni Purput 6.5-9.0 6 30 190 5.3	D D C C C C C C C C C C C C C C C C C C	Aquatic a Wildlife (ephemer. Acute Purple was a second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of	al)	Dissolved Results		Total Recoverable Results	7.2 23 244 6.3 0.81	Use Exceeded
4,300 1,450 1,130 84 4,600 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1		560 560 500 2,800 700 11,300 		6.5-9.0 560 420 98,000 2,800 700 1,300 15 196,000	TR TR TR TR TR TR TR	6.5-9.0 200 50 1,000	Laction Fraction	6.5-9.0 	 D D	6.5-9.0 6.5-9.0 6 30 190 5.3	D D C C C C C C C C C C C C C C C C C C	6.5-9.0 6.5-9.0 440	Fraction	Results	32 <0.3 3.4	Results	7.2 23 244 6.3 0.81	
4,300 1,450 1,130 84 4,600 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1		560 560 500 2,800 700 11,300 		6.5-9.0 560 420 98,000 2,800 700 1,300 15 196,000	TR TR TR TR TR TR TR	6.5-9.0 200 50 1,000		6.5-9.0 6 88 360 65 3.9	 D D	6.5-9.0	 D D	6,5-9.0 440			32 <0,3 3.4		23 244 6.3 0.81	
			TR TR TR TR TR TR TR TR TR TR TR TR TR	560 420 98,000 2,800 700 100 1,300 15	TR TR D TR TR TR TR TR TR	 200 50 1,000	 TR TR	6 88 360 65 3.9	 D D D	 6 30 190 5.3	 D D D	 440			32 <0,3 3.4		23 244 6.3 0.81	
			TR TR TR TR TR TR TR TR TR TR TR TR TR	560 420 98,000 2,800 700 100 1,300 15	TR TR D TR TR TR TR TR TR	 200 50 1,000	 TR TR	6 88 360 65 3.9	 D D D	 6 30 190 5.3	 D D D	 440			32 <0,3 3.4		23 244 6.3 0.81	
 4.300 1.450 1.130 84 0.6 4.600 107,700 7.2 69,000		560 50 98,000 2,800 700 100 1,300 15 196,000 420 28,000	TR D TR TR TR TR TR TR TR TR TR TR TR TR	 560 420 98,000 2,800 700 100 1,300 15	TR TR D TR TR TR TR TR TR		 TR TR	6 88 360 65 3.9	D D D	6 30 190 5.3	 D D	 440			32 <0.3 3.4	 	6.3 0.81	
4,300 1,450 1,130 84 0,6 4,600 9,000 107,700 7,2 69,000		560 50 98,000 2,800 700 100 1,300 15 196,000 420 28,000	TR D TR TR TR TR TR TR TR TR TR TR TR TR	560 420 98,000 2,800 700 100 1,300 15	TR TR D TR TR TR TR TR TR	 200 50 1,000	 TR TR	88 360 65 3.9	D D D	30 190 5.3	 D D	 440		-	32 <0.3 3.4		0.81 	
4.300 1.450 1.130 84 0.6 9,000 107,700 7.2 69,000	TR TR TR TR TR TR TR TR TR TR TR TR TR TR TR	560 50 98,000 2,800 100 1,300 15 196,000 420 28,000	TR D TR TR TR TR TR TR TR TR TR TR TR TR	560 420 98,000 2,800 700 100 1,300 15	TR TR D TR TR TR TR TR TR	200 50 1,000	 TR TR	88 360 65 3.9	D D D	30 190 5.3	 D D	 440		-	32 <0,3 3.4			
4,300 1,450 1,130 84 0.6 4,600 9,000 107,700 7,2 69,000	TR TR TR TR TR TR TR TR TR TR TR TR TR T	560 50 98,000 2,800 700 100 1,300 15 196,000 420 28,000	TR D TR TR TR TR TR TR TR TR TR TR TR TR	560 420 98,000 2,800 700 100 1,300 15 196,000	TR D TR TR TR TR TR	200 50 1,000	TR TR	88 360 65 3.9	D D	30 190 5.3	D D D	440 	 D	_	<0,3 3.4 	-		
4,300 1,450 1,130 84 0.6 4,600 9,000 107,700 7,2 69,000	TR TR TR TR TR TR TR TR TR TR TR TR TR T	560 50 98,000 2,800 700 100 1,300 15 196,000 420 28,000	TR D TR TR TR TR TR TR TR TR TR TR TR TR	560 420 98,000 2,800 700 100 1,300 15 196,000	TR D TR TR TR TR TR	200 50 1,000	TR TR	88 360 65 3.9	D D	30 190 5.3	D D	440 	D		<0,3 3.4 			***
1,450 1,130 84	TR TR TR TR TR TR TR TR TR TR TR TR TR	98,000 2,800 700 100 1,300 15 196,000 420 28,000	D TR TR TR TR TR TR TR TR TR TR TR	98,000 2,800 700 100 1,300 15 196,000	TR TR TR TR 	50 1,000	TR	65 3.9	 D	5.3	 D		D			***	122	
1,130 84 0.6 4,600 9,000 107,700 7.2 69,000	TR TR TR TR TR TR TR TR TR	2,800 700 100 1,300 15 196,000 420 28,000	TR TR TR TR TR TR TR TR TR TR	2,800 700 100 1,300 15 196,000	TR TR TR TR	50 1,000	TR	65 3.9		5.3		0000			12.00			***
84 0.6 4.600 9,000 107,700 7.2 69,000	TR TR TR TR TR TR TR	700 100 1,300 15 196,000 420 28,000	TR TR TR TR TR TR TR TR	700 100 1,300 15 196,000	TR TR TR	50 1,000	TR	3.9				***						
 0.6 4,600 9,000 107,700 7.2 69,000	TR TR TR TR TR	100 1,300 15 196,000 420 28,000	TR TR TR TR TR TR TR TR	100 1,300 15 196,000	TR TR 	1,000			D		D	59	D		<0.2			
 0.6 4,600 9,000 107,700 7.2 69,000	TR TR TR	1,300 15 196,000 420 28,000	TR TR TR TR TR	1,300 15 196,000	TR					2.1								212
 0.6 4,600 9,000 107,700 7.2 69,000	TR TR TR	1,300 15 196,000 420 28,000	TR TR TR	15 196,000		500									<0.7			
 0.6 4,600 9,000 107,700 7.2 69,000	TR TR TR	15 196,000 420 28,000	TR TR	15 196,000	TD		TR	12.4	D	8.3	D	21	D		<2.1		***	***
0.6 4,600 9,000 107,700 7.2 69,000	TR TR TR	196,000 420 28,000	TR TR	196,000	I TD									- 575	26			
0.6 4,600 9,000 107,700 7.2 69,000	TR TR TR	420 28,000	TR		-	100	TR	58.8	D	2.3	D	124	D	555	<1 	-		
4,600 9,000 107,700 7.2 69,000	TR TR TR	28,000			TR	10	TR	2.4	D	0.01	D	5.0	D		<0.2			
4,600 9,000 107,700 7.2 69,000	TR TR	28,000	TD	420	TR		TR	2.4		0.01		5.0			4.8			
9,000 107,700 7.2 69,000	TR TR		111		TR			435	D	48	D	3,864	D	==				***
107,700 7.2 69,000	TR TR		TR	7,000	TR	50	TR	20.0	TR	2.0	TR	33	TR	-	<0.8	1		
69,000		7,000	TR	7,000	TR	10-4		3	D			3.0	D		<0.1			
			TR	112	TR	25,000	75	700	D D	150 110	D	1,033	D		<0.4 0.31			
	TR	420,000	TR	420,000	TR	25,000	TR	109	υ	110	D	1,033	D		0.31			
	1		T		T	***	I I							***	-			
		126,000	TR		TR										<7			
												***			<100	***		
215,000	TR		TR		TR	200	TR	41	TR	9.7	TR	84	TR		242		(***)	
		84,000	T	84,000	T					***	***				343			
			_		-			- N. C. C. C. C. C. C. C. C. C. C. C. C. C.				-		222				***
	1			2,240,000						F		(255)			570	222		•••
														•••	<500			
10) ***						***					***							
		***						100	1		***	- 100 -	1		<1000			
	1		1		L		TT	107245			I	1227			4,770			***
										***					4,000		***	(444)
						***				7		***		(*****)	<1000			
		-						5						(***)	135,000	***		
	1020				_		1 1			No. of Contract		7000			28 300			
						***************************************	-			-								
			-									***			1,010	- 122		***
			1									***		***	21,100			1000
	_				_					-					125 000		7-1	
						-						100000						
			-				1		-		-							
	-			_	1				T	80	Т				<5			
			1		1-							•••		•••	<1			F
					_								_		940	-	25000	
												***			240			
1			140,000 2240,00 2240,00	I-140,000 T 2,240,000 T 2,240,000 T	I-140,000 T 140,000 2240,000 T 2-240,000 240,000 T 2-240,000	140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T 140,000 T	I 140,000 T 140,000 T I I I I I I	140,000 T 140,000 T 2,240,000 T 2,240,000 T									140,000 T	140,000 T

DC 8.2W RESE-1001079 5/21/2004 11.9

Parameters and Const	ituents					S	urfac	e Water S	tand	ards								Results		
		Fish Consumpt	lion	Full-boo		Partial-be Contac		Agricultu Livesto Wateria	ck		arm	id Wildlife water) Chroni		Aquatic a Wildlif (epheme) Acute	e ral)	Dissolved	Total Results	Total Recoverable	Field	Use Exceeded
Name	Units	tandard	ion	tandard	tion	fandard	raction	andard	raction	andard	raction	tandard	raction	tandard	raction	Results	Total Kesulis	Results	Parameters	
		Stane	Fraction	Stan	Fraction	Stan	Frac	Stan	Frac	Stan	Frac	Stan	Frac	Stan	Frac					
ield							_		_		_				_				7.6	
pH	s.u.			6.5-9.0		6.5-9.0		6.5-9.0	***	6.5-9.0		6.5-9.0		6.5-9.0			1		23	
Temperature	°C					***		•••	***	***	***							(222)	276	
Specific Conductance	µS/em	***		***		***		•••	•••	***	•••			•••	277	***			5.5	A&WwwA & A&Ww
Dissolved Oxygen	mg/L				***				***	6		6	***			***		***	1.1	ALC IT IT IT I CONTROL IT
Turbidity	NTUs											***					50000			-17
letals			_	CHINA A	-			70000000		_	1000						<20			
Aluminum	μg/L			***	TD	500	TD	***		88	D	30	D			<3	<3	<3		636
Antimony	μg/L	4,300	TR	560	TR	560	TR	200	TD	360	D	190	D	440	D		3	ব		
Arsenic	μg/L.	1,450	TR	50	TR	420	TR	200	TR	360		190		440	0	18	2			
Barium	µg/L.	1.120		98,000	D	98,000	D	***		65	D	5.3	D	***		<2	<2	<2		
Beryllium	μg/1.	1,130	TR	2,800	TR	2,800	TR	50	TD	3.9	D	2.1	D	59	D	<0.1	<0.1	<0.1		1277
Cadmium	μg/L	84	TR	700	TR	700	TR	1,000	TR	3.9	D	2.1		39	0	<6		<6		
Chromium (total)	µg/l.			100	TR	100	TR		ıK					1,000	-		<6		***	***
Cobalt	µg/L			1 200	TD	1 200	TD	500	TD	12.4	D	8.3	D	21	D		<3	<3		
Copper	μg/L			1,300	TR	1,300	TR	500	TR	12.4	D	8.3		- 41			28			100
Iron	μg/L.			15	TR	15	TR	100	TR	58.9	D	. · . · 2 · 3 · . · .	D	124	D		<3	<3	***	***
Lead	μg/L.		***		TR	196,000	TR	100	IK	38.9	טו		D	124				<2	***	
Manganese	µg/L	0.5		196,000				10	TR	2.4	D	·:·0.01·:·	D	5.0	D		<0.2	7.2	1915	3424
Mercury	µg/L	0.6	TR	420	TR	420	TR		IK	2.4	D	. 0.01		5.0	1		<8	***		
Molybdenum	µg/L		773		TD	28.000	TR			436	D	48	D	3,872	D	<10		<10	5000	
Nickel	µg/L	4,600	TR	28,000 7,000	TR	7,000	TR	50	TR	20.0	TR		TR		TR		<3	· · · · · · · · · · · · · · · · · · ·	Care.	
Selenium	µg/L	9,000	TR		TR	7,000	TR	50		3	D	2.0	110	3.0	D		<0.1	<0.1		***
Silver	μg/L	107,700			TR	112	TR			700	D	150	D		1	<2	<2			
Thallium	µg/L	7.2 69,000	TR			420,000	TR		TR	109	D		D		D		<5	<5	***	
Zinc	µg/L	09,000	IIK	420,000	110	420,000	110	25,000	110	107	10			1,111	-				-	
Inorganic Non-metallics	MFL				100		F				I		T		T					•••
Asbestos			-	126,000	TR	126,000	TR							***		-	<40			
Boron	µg/L			120,000	IK	120,000	IIX		-					***			120			
Bromide	µg/L	215,000	TR		TR	28,000	TR	200	TR	41	TR		TR	84	TR	92925	<10			***
Cyanide (free)	µg/L µg/L	213,000	III	84,000	T	84,000	T										350			/***
Fluoride			1	140,000	T	140,000	T										<100			10.00
Nitrite (as N)	µg/L uc/L		1	2,240,000		2,240,000	T			4	1						400			
Nitrate (as N)	µg/L µg/I		1	2,240,000	1	2,240,000			-				-			3222	400	***	***	***
Nitrate + Nitrite (as N)	με/L με/L		1																244	(ages
Orthophosphate	µg/L µg/L		1				-		1								71,300			14.61
Silica Sulfide	ug/L		1		1				-	100	T			. 100	T	•••	∴ <1000			222
Major Anions	рыл		_		_		_		-		•	-	_							
Chloride	µg/L		1		T										ļ		4,650	183		(212)
Sulfate	µg/L				1	1944		****							1		3,980	-		1000
Carbonate (as CaCO ₃)	µg/L		-		1	2000	1							***		***	<1000	575		***
Bicarbonate (as CaCO ₃)	идл.				1									¥			143,000	***		
Major Cations	1 1000		_		-		-		•		_		_		_					
Calcium	µg/L		T		1		T				1						28,100		100	
Magnesium	µg/L		1		1	7222			1		1			***			5,260			
Potassium	ug/L		1_							F 0	1						<1000		***	
Sodium	ug/L		1		1						1						21,700		***	***
Physical Properties	I PE-		-		-	-	-		_											
Alkalinity (total as CaCO ₃)	μgЛ.		T		1	201	1			***				***			143,000	***	755	
Hardness	mg/l.						1										92	***		
Total Dissolved Solids	μg/l.		1		1				-		1		ļ				198,000		1.22	(444)
Total Suspended Solids	mg/L						1		1	80	T	80	T				<5			6222
Color	color units		1														<1			200
Biologicals	1	-	_				-		_		•									
Coliforms (total)	MPN/100 ml	7 7 444	T		1		T		l		T		T		Ī		1,600		122	***
Comornis (total)	MPN/100 ml	A LANGE TO SERVICE AND ADDRESS OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY			1	576	-	***	-		-		1		1		<2			

DC 8.2W RESE-1001152 8/16/2004 9

	ients					Sı	urfac	e Water S	tand				_	Aquatic a	nd l		T	Results		
		Fish Consumpt	ion	Full-boo		Partial-be	ogi	Agricultu	k			d Wildlife water)		Wildlif (ephemei	e ral)			T. 11	P1414	
Name	Units	Consumpt	1011					Wateri		Acute		Chron		Acute		Dissolved Results	Total Results	Total Recoverable Results	Field Parameters	Use Exceeded
		Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction					91310 W
eld									lisa I	(500		6.5-9.0		6.5-9.0				***	7.4	
pH	s.u.	***		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0				6.5-9.0					23	•••
Temperature	°C			***	***														274	100
Specific Conductance	μS/cm								-	6		6	-	200			****	•••	6	***
Dissolved Oxygen	mg/L						-											***	0.29	•••
Turbidity	NTUs	***		and the same of	-				1000	1000000		Shirkson	-							
letals	ug/I I				-							1. 244		225			<20			***
Aluminum Antimony	μg/L μg/L	4,300	TR	560	TR	560	TR			88	D	30	D			<3	<3	<3		***
Arsenic	µg/L	1.450	TR	50	TR	420	TR	200	TR	360	D	190	D	440	D	<3	<3	<3		
Barium	μg/L			98,000	D	98,000	D							200		18				
Beryllium	μg/L	1.130	TR	2,800	TR	2,800	TR	-		65	D	5.3	D			<2	<2	<2	***	yes.
Cadmium	μg/L	84	TR	700	TR	700	TR	50	TR	3.9	D	2.1	D	59	D	<0.1	<0.1	<0.1		***
Chromium (total)	μg/L			100	TR	100	TR	1,000	TR	***		***				<6	***	<6		
Cobalt	μg/L			***													<6			
Copper	μg/L			1,300	TR	1,300	TR	500	TR	12.3	D	8.3	D	21	D	<3	<3	<3		***
Iron	μg/L											() V		***			<20			
Lead	μg/L		***	15	TR	15	TR	100	TR	58.6	D	2,3	D	124	D	ં⊰ાં	<3	<3	1444	***
Manganese	μg/L	-		196,000	TR	196,000	TR											<2		
Mercury	µg/L	0.6	TR	420	TR	420	TR	10	TR	2.4	D	0.01	D	5.0	D	<0.2	<0.2			***
Molybdenum	μg/L												***	2054		-10	<8	 -10		
Nickel	μg/L	4,600	TR	28,000	TR	28,000	TR			434	D	48	D	3,854	D	<10		<10		
Selenium	μg/L	9,000	TR	7,000	TR	7,000	TR	50	TR	20.0	TR	2.0	TR	33	TR	-0.1	<3	<0.1		
Silver	μg/L	107,700	TR	7,000	TR	7,000	TR			3	D	160		3.0	D	<0.1	<0.1 <2	<0.1		
Thallium	μg/L	7.2	TR	112	TR	112	TR	25,000	TD	700	D	150	D	1,030	D	<2 <5	<2 <5	<5		
Zinc	μg/L	69,000	TR	420,000	TR	420,000	TR	25,000	TR	109	D	109	D	1,030	D			~		
norganic Non-metallics					1							100 000 00	13,00		T					
Asbestos	MFL					***					-					-	<40	***		
Boron	μg/L			126,000	TR	126,000	TR		***						-		<100	100		
Bromide	μg/L	***		20,000		20.000	TR	200	TR	41	TR	9.7	TR	84	TR		-100	222	()	
Cyanide (free)	µg/L	215,000	TR	28,000	TR	28,000	T	-	IK		IN		111			_	350	***		***
Fluoride	μg/L			84,000	T	84,000 140,000	T				-				-		<100		***	
Nitrite (as N)	μg/L			140,000	T	2,240,000	T					***	l			3***	340			
Nitrate (as N)	µg/L			2,240,000	1	2,240,000	1	70 1			1						340		1.000	
Nitrate + Nitrite (as N)	μg/L		3,555		1		-		-		1						<500			
Orthophosphate Silica	μg/L μg/L				1								1			10000	70,700			
Sulfide	μg/L					***				100	T			100	T	***	<1000			***
Major Anions	PS-2		-		_				_											
Chloride	µg/L		I		I					84				***			4,940		•••	***
Sulfate	µg/L							***		•••						***	4,090	***	***	
Carbonate (as CaCO ₃)	µg/L	***										***		•••			<1000			
Bicarbonate (as CaCO ₃)	μg/L					***			-		-	-				***	146,000			
Major Cations									_						_				T	
Calcium	µg/L			***		***						***					28,100	***		
Magnesium	µg/L					***			***			***				***	5,150			7.00.0
Potassium	μg/L			-			-										<1000			
Sodium	µg/L			***		***		777									21,200			
Physical Properties			_		1		_						100				147,000		T	
Alkalinity (total as CaCO ₃)	µg/L			***							-			()===			91			
Hardness	mg/L				1-					1,350			+-		+		210,000			
Total Disselved Solids	µg/L			12.0						90	T	80	T				<5			
Total Suspended Solids	mg/L						***		-	80	1	80	1				<1			
Color	color units				1				1		-	Kalada a	1							
Biologicals	VIDN1/100 - 1			1000	30	·	T		1		1-		1				500			
Coliforms (total)	MPN/100 ml MPN/100 ml		-	235	1-	576				18830			1		-	(9202)	2		***	

DC 8.2W RESE-1001175 11/16/2004 2.24

063-2565

Name	X ' 5		_		-		arrac	e Water S	T I		201100	2 2 2 2 2 2 2 2 2 2	Т	Aquatic	and			Results		
Name	5 - 1	Fish Consumpt	ion	Full-bo		Partial-b		Agricultu	k			d Wildlife water)		Wildli (epheme	fe					
	Units							Waterin		Acute		Chroni	\vdash	Acut	Н	Dissolved Results	Total Results	Total Recoverable Results	Field Parameters	Use Exceeded
	1 1	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction			1		
eld			HESSE .	6500		(500		6500		6.5-9.0		6.5-9.0	II	6.5-9.0	Laul				7.3	
pH	s.u. °C			6.5-9.0		6.5-9.0		6.5-9.0		0.3-9.0		0.3-9.0		0.5-5.0		***	***	2000	16	
Temperature	μS/cm																	***	311	
Specific Conductance Dissolved Oxygen	mg/L									6		6		10775					3.7	A&WwwA & A&W
Turbidity	NTUs									2,555		***	***	***					1.3	***
etals															_					
Aluminum	μg/L			***	***							***		1444			73	<3		
Antimony	μg/l.	4,300	TR	560	TR	560	TR			88	D	30	D	440	D	<3 <3	<3 <3	3		
Arsenic	μg/l.	1,450	TR	50	TR	420	TR D	200	TR	360	D	190	D	440	117	22	7			
Barium	μg/L	1.120	TD	98,000	TR	98,000	TR			65	D	5.3	D		1	<2	<2	<2		
Beryllium	μg/L	1,130	TR TR	700	TR	700	TR	50	TR	4.3	D	2.3	D	65	D	<0.1	<0.1	<0.1	****	***
Cadmium Chromium (total)	µgЛ. µgЛ.			100	TR	100	TR	1,000	TR					***		<6		<6	***	***
Cobalt	μg/1.							1022						***			<6	1/455		
Copper	μg/L			1,300	TR	1,300	TR	500	TR	13.6	D	9.0	D	23	D	···<10 ··	<10	<10		
Iron	µg/L																161		***	(***
Lead	µg∕1.			15	TR	15	TR	100	TR	65.3	D	· · · · 2:5· · ·	D	138	D	∵∴<3∵∴	<3	<3		1994
Manganese	μg/L			196,000	TR	196,000	TR									1.1.166.6.1	-0.2	19		
Mercury	μg/L	0.6	TR	420	TR	420	TR	10	TR	2.4	D	· . 0.01 · .	D	5.0	D	<0.2	<0.2		***	
Molybdenum	μg/L			***		20,000				172	100	52	D	4,193	D	<10	<8 	<10		
Nickel	µg/L	4,600	TR		TR	28,000	TR	50	TD	472 20.0	D TR	2.6	TR	33	TR	~10	<3	· · · · · · · · · · · · · · · · · · ·		100
Selenium	µg/L	9,000	TR		TR	7,000	TR		TR	4	D	2.0	III	3.5	D	<0.1	<0.1	<0.1		
Silver	μg/L ug/L	107,700 7.2	TR TR	7,000	TR	112	TR			700	D	150	D			<2	<2	***		***
Thallium Zinc	µg/L µg/L	69,000	TR		TR	420,000	TR	25,000	TR	118	D	119	D	1,121	D	<10	<10	<10	24.	•••
organic Non-metallics	ppb	07,000			-															
Asbestos	MFL											244		200		***	-	***		***
Boron	μg/L			126,000	TR	126,000	TR			***							<40	244		***
Bromide	μg/L			***			***			***		-					<100			222
Cyanide (free)	μg/L	215,000	TR	28,000	TR	28,000	TR	200	TR	41	TR	9.7	TR	84	TR	•••		***		
Fluoride	µg/L			84,000	T	84,000	T										320			***
Nitrite (as N)	μg/L			140,000		140,000	T					***					<100 150	222 232		
Nitrate (as N)	µg/L			2,240,000	T	2,240,000	T			***	***						<200			1212
Nitrate + Nitrite (as N)	μg/L													***	-		<500		***	
Orthophosphate	μg/L										1		1		1		70,000			
Silica Sulfide	μg/L μg/L		-							100.	T			100.	T	722	∴ . <1000	***	944	
fajor Anions	P.B.		_		_										-		-			
Chloride	µg/L		I		1							***				****	5,640	•••	***	
Sulfate	µg/L					555											5,450	***		
Carbonate (as CaCO ₃)	µg/L							****					***				<1000			***
Bicarbonate (as CaCO ₃)	μg/L	***		***		•••		***				•••	***		1		146,000			
lajor Cations					_		_	-	_	100	-	1 2 2 2 7	Page 1		T.		30,600	***	T	
Calcium	μg/L				***		200						-		1		5,930			***
Magnesium	μg/L			•••		***					-		1	***			1,020			
Potassium	μg/L μg/L						-			1/2				>(24,000			2.2
Sodium hysical Properties	μg/L		1110	1/	1	-	_		(1993)				_							
Alkalinity (total as CaCO ₃)	μgЛ.	***				***	1					•••				1112	146,000	344		***
Hardness	mg/L													***		222	101	***		
Total Dissolved Solids	μg/l.									5.54						***	221,000	***		***
Total Suspended Solids	mg/l.									80	T	80	T			222	<5			
Color	color units			***	1												<1			
iologicals			_						These	Construction of				T			50	-	1	
	MPN/100 ml MPN/100 ml			235		576								***		***	2	(444)		***
Coliforms (total) E. Coli				433	-	310	1	200			_		_							

DC 8.2W RESE-1001196 2/25/2005 3

	tuents			iss" v		Sı	urface	Water S	tand			Life and the second	-	Aquatic	and I			Results	Т	
	T (3	Fish		Full-boo		Partial-bo	ody.	Agricultu Livesto				d Wildlife water)		Aquatic a Wildlif (epheme)	'e					
Name	Units	Consump	tion	Contac	ct	Contac	1	Wateri	ng	Acute		Chroni	c	Acute		Dissolved Results	Total Results	Total Recoverable Results	Field Parameters	Use Exceeded
		Standard	raction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction					
ld																			7.5	
Н	s.u.	***		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0					22	
Temperature	°C					***									-		85592		274	
Specific Conductance	μS/cm																	***	6.7	
Dissolved Oxygen	mg/L			***		***				6		6							0.51	
Turbidity	NTUs				***	***		***		***		•••				- 10				
etals			_		_					Only of the		4			1		61			
Aluminum	μg/L					***	7770			88	D	30	D			<3	<3	<3		¥44
Antimony	μg/L	4,300	TR	560	TR	560	TR	200	TD	360	D	190	D	440	D	3.1	<3	<3		
Arsenic	µg/L	1,450	TR	50	TR	420	TR D	200	TR	360	D		-			18				
Barium	µg/L			98,000	D	98,000		2011		65	D	5.3	D			<2	<2	<2		***
Beryllium	μg/L	1.130	TR	2,800	TR	2,800	TR	50	TR	4.0	D	2.1	D	60	D	<0.2	<0.2	<0.2		
Cadmium	µg/L	84	TR	700	TR	700	TR	1,000	TR		-	2.1			-	<6		<6		***
Chromium (total)	μg/L			100	TR	100	TR	1,000	1K						1		<6			lada
Cobalt	μg/L			1,300	TR	1,300	TR	500	TR	12.6	D	8.5	D	22	D	· · <10 · ·	<10	<10		•••
Copper	µg/L			1,300	IK	1,300	1K	500		12.0							<60		2 000 2	***
Iron	µg/L	-	1	15	TR	15	TR	100	TR	60.1	D	2.3	D	127	D	.∵.<3.∵.	<3	<3		(2-2)
Lead	μg/L		1	196,000	TR	196,000	TR	100										<4		
Manganese	µg/L	0.6	TR	420	TR	420	TR	10	TR	2.4	D	0.01	D	5.0	D	<0.2	<0.2	1	***	(***)
Mercury	μg/L		IR		IK	420	1.1							2.0			<8	224	***	
Molybdenum	µg/L	4,600	TR	28,000	TR	28,000	TR			443	D	49	D	3,932	D	<10		<10		
Nickel	μg/L				TR	7,000	TR	50	TR	20.0	TR	2.0	TR	33	TR		<3			***
Selenium	μg/L	9,000	TR	7,000		7,000	TR			3	D			3.1	D	<0.1	<0.1	<0.1		•••
Silver	µg/L	107,700	TR		TR	112	TR		-	700	D	150	D			<2	<2	•••		
Thallium	μg/L	7.2 69,000	TR					25,000	TR	111	D	112	D	1,051	D	<10	<10	<10		
Zinc	μg/L	09,000	IIK	420,000	IIK	420,000	110	25,000	111		-	1000								
organic Non-metallics	MFL		1		1		II													***
Asbestos		-24/2	-	126,000	TR		TR		-		-	***	1	***		-	<40	***	***	***
Boron	µg/L		1	120,000	111	120,000					-						<100	2		***
Bromide	µg/L	215,000	TR		TR		TR	200	TR	41	TR	9.7	TR	84	TR					
Cyanide (free)	µg/L	213,000	1 IN	84,000		84,000	T					***	1	***		-	282	***	***	-
Fluoride	µg/L		-	140,000		140,000	T	***				100					<100			
Nitrite (as N)	μg/L		-	2,240,000		2,240,000	T	-	1	1			-				510		2777	
Nitrate (as N)	µg/L		-	2,240,000	1	2,240,000	-		-				1				510	***		8555
Nitrate + Nitrite (as N)	µg/L				102		1			7.1			***	0.0000			<500			(***
Orthophosphate	µg/L		-		1		-						***	***			70,200			***
Silica Sulfide	µg/L µg/L									100	Т			100.	T	1222	<1000	***		
lajor Anions	hgr		1 245		_	-			-											
Chloride	μg/L		T		T		I					-				***	4,610	(575)		
Sulfate	μg/L	***	1	***	1	***			***					***			4,650			
Carbonate (as CaCO ₃)	µg/L				1	***				7-34-6							<1000			
Bicarbonate (as CaCO ₃)	µg/L											111,000		***			130,000			
lajor Cations													_				_			
Calcium	μg/L					***		***									28,800		222	200
Magnesium	μg/L																5,300	***		
Potassium	μg/L																1,110)		
Sodium	µg/L					***				***							21,500			
hysical Properties										OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF TH			_		_	т —	120 000			
Alkalinity (total as CaCO ₃)	µg/L											-					130,000	5.00		
Hardness	mg/L	100		<u> </u>								***					94	1999		
Total Dissolved Solids	μg/L			***													201,000			
Total Suspended Solids	mg/L					***		***		80	T	80	T				5			
Color	color units								1				1		1		<1			
Biologicals					_		_		-		-				-	_	1 12	·	T	
Coliforms (total)	MPN/100 m							***									13	10.0		
E. Coli	MPN/100 m			235		576 exation.				***			1				<1			

> Sample Location: Sample ID: Sample Date: Flow Rate (gpm):

DC 8.2W RESE-1001212 5/11/2005 10

Parameters and Constit	uents					S	urfac	e Water S	tand			-		Ans de				Results		
		Fish Consumpt	ion	Full-boo		Partial-b		Agricultu	k	Aquati (w:	ic an	d Wildlife water)		Aquatic a Wildlif (epheme)	e ral)				PC-14	
Name	Units	Company				10000000		Waterin	ıg	Acute	_	Chroni	c	Acute		Dissolved Results	Total Results	Total Recoverable Results	Field Parameters	Use Exceeded
		tandard	raction	Standard	raction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction			H J		
eld		91																		222
pH	s.u.			6.5-9.0		6,5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0					7.4	5.5
Temperature	°C					***		***		-							***		23 206	
Specific Conductance	μS/cm																•••	***	7.4	***
Dissolved Oxygen	mg/L	***				***				6		6	***						0.01	222
Turbidity	NTUs		***					***			***		***		***				0.01	
etals										-		/ L	NAME OF TAXABLE PARTY.				<30		***	***
Aluminum	μg/L						TR			88	D	30	D			<3	<3	<3		•••
Antimony	μg/L	4,300	TR	560	TR	560 420	TR	200	TR	360	D	190	D	440	D	<3	<3	<3		
Arsenic	μg/L	1,450	TR	50	TR	98,000	D	200	11	300						19				
Barium	μg/L	1.120	TD	98,000 2,800	TR		TR		200	65	D	5.3	D			<2	<2	<2		***
Beryllium	μg/L	1,130	TR	700	TR	700	TR	50	TR	3.9	D	2.1	D	59	D	< 0.2	< 0.2	< 0.2	***	***
Cadmium	μg/L		11	100	TR	100	TR	1,000	TR							<6		<6		
Chromium (total) Cobalt	μg/L μg/L		1														<6			***
Copper	μg/L μg/L			1,300	TR	1,300	TR	500	TR	12.5	D	8.1	D	22	D	<10	<10	<10	***	***
Iron	μg/L μg/L												***				<60			
Lead	μg/L			15	TR	15	TR	100	TR	59.5	D	2.3	D	125	D	. : <3 · :	<3	<3		
Manganese	μg/L			196,000	TR	196,000	TR											4		***
Mercury	μg/L	0.6	TR	420	TR	420	TR	10	TR	2.4	D	0.01	D	5.0	D	<0.2	<0.2			
Molybdenum	μg/L															***	<8		-44	
Nickel	µg/L	4,600	TR	28,000	TR		TR		***	439	D	49	D	3,900	D	<10		<10	iewi:	
Selenium	µg/L	9,000	TR	7,000	TR	7,000	TR	50	TR	20.0	TR	2.0	TR	33	TR		<3	<3		
Silver	μg/L	107,700	TR	7,000	TR		TR			3	D			3.0	D	<0.1	<0.1	<0.1		
Thallium	μg/L	7.2	TR		TR		TR			700	D	150	D			<2	<2	<10		
Zinc	μg/L	69,000	TR	420,000	TR	420,000	TR	25,000	TR	110	D	111	D	1,043	D	<10	<10	~10		
organic Non-metallics			_		_		_			-	-	-	bra							
Asbestos	MFL												***				<40			
Boron	µg/L	***		126,000	TR	S						***	-				<100			
Bromide	μg/L					***		200			TR	9.7	TR		TR					
Cyanide (free)	μg/L	215,000	TR		TR		TR	200	TR	41		9,1			110		293		944	***
Fluoride	μg/L			84,000		84,000	T								+=	***	<100		***	52
Nitrite (as N)	μg/L			140,000		2,240,000	T								1		490			3
Nitrate (as N)	μg/L				0 1	2,240,000	1				-						490			
Nitrate + Nitrite (as N)	µg/L		-				-									***	<500	***		-
Orthophosphate	µg/L		1		-												67,300			***
Silica Sulfide	μg/L μg/L									100	Т			100	T		<1000		***	
Surioe Iajor Anions	pge						_													
Chloride	μg/L		T		T		T	//									5,040		***	
Sulfate	μg/L				1												4,170			***
Carbonate (as CaCO ₃)	µg/L				1							11-3					<1000			
Bicarbonate (as CaCO ₃)	μg/L							124						***			131,000		***	
lajor Cations	Doug-To-								Ξ				_		_		1 22 22 23 23 23		1 200	
Calcium	μg/L															***	28,500			
Magnesium	µg/L	***						6,									5,200			
Potassium	μg/L								***			113.55			-		870			
Sodium	μg/L						***			***					1		20,700			
Physical Properties							_	_					_	1 200	370	T	131,000		T	
Alkalinity (total as CaCO ₃)	µg/L	/444					***					100					93			
Hardness	mg/L				-				-			***	-	522			158,000			***
Total Dissolved Solids	μg/L							-					-				29			
Total Suspended Solids	mg/L		***				***			80	T	80	T		1		<1			
Color	color units				1		1		1	1		-	1.0					100		
	Leminos				_		-		1		1		T	1	T		17			
Biologicals Coliforms (total)	MPN/100 ml	1							1	I STATE OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PAR			1		-		6			***

MFI. = Million Fibers per Liter

ml = millitiers

MFN100 ml = most probable number per 100 milliliter

---- = not applicable

T = total

TR = total recoverable

D = dissolved

ND = not detected

**No designated uses exceeded

**Exceedances (except for Dissolved Oxygen and pH)

Arizona state Dissolved Oxygen standards correspond to minima, therefore values less than the requirements are highlighted.

Arizona state pH standards correspond to ranges, therefore values outside of the requirements are highlighted.

DC 8.2W RESE-1001227 8/16/2005 1 gpm

Fish Consump Page 2	Laction	Full-box Contact Page 50 6.5-9.0 	Et Laction TR TR TR TR	Partial-be Contact Page 18		Agricultu Livestox Waterin PLEPPURE 6.5-9.0	k		arm v	d Wildlife water) Chronic Parpurg 6.5-9.0	Fraction	Aquatic a Wildlif (ephemer Acute Puppungg	e ral)	Dissolved Results	Total Results	Total Recoverable Resulfs	Field Parameters	Use Exceeded
4,300 1,450 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150 1,150		6.5-9.0 560 50 98,000 2,800 700	TR TR D TR	6.5-9.0 560 420		6.5-9.0		6.5-9.0		6.5-9.0		S	Fraction					
4,300 1,450 1,130 84 		560 50 98,000 2,800 700	TR TR D TR	 560 420								6.5-9.0		1				
4,300 1,450 1,130 84 	TR TR TR	560 50 98,000 2,800 700	TR TR D	 560 420								6.5-9.0		(***)				
	TR TR TR	560 50 98,000 2,800 700	TR TR D	 560 420		 		6		7/24								
4,300 1,450 1,130 84 	TR TR TR	560 50 98,000 2,800 700	TR TR D	 560 420				6				0.55					268	
	TR TR TR	560 50 98,000 2,800 700	TR TR D	 560 420													6,9	
4,300 1,450 1,130 84 0.6	TR TR TR	560 50 98,000 2,800 700	TR D TR	560 420				***		6							0.82	
4,300 1,450 1,130 84 0,6	TR TR TR	560 50 98,000 2,800 700	TR D TR	560 420	TR					•••								
4,300 1,450 1,130 84 0,6	TR TR TR	560 50 98,000 2,800 700	TR D TR	560 420	TR										173			***
1,450 1,130 84 	TR TR TR	50 98,000 2,800 700	TR D TR	420	11	***		88	D	30	D	222		<3	<3	<3	222	
1,130 84 0.6	TR TR TR	98,000 2,800 700	D TR		TR	200	TR	360	D	190	D	440	D	<3	<3	<3		
1,130 84 0.6	TR TR 	2,800 700	TR		D									18			200	
84 0.6	TR	700	1	2.800	TR			65	D	5.3	D			<2	<2	<2		
 0.6			TR	700	TR	50	TR	3.9	D	2.1	D	59	D	<0.2	0.1	<0.2		***
			TR	100	TR	1,000	TR					***		<6		<6	9	
 0.6															<6			
0.6		1,300	TR	1,300	TR	500	TR	12.4	D	8.3	D	21	D	· · <10 · ·	<10	<10		***
0.6				-		***	***	More				***			137			
0.6	***	15	TR	15	TR	100	TR	58.6	D	2.3	D	124	D	≼3	<3	<3		
		196,000	TR		TR	-										12		
	TR	420	TR	420	TR	10	TR	2.4	D	0.01	D	5.0	D	<0.2	<0.2			***
								***			***	***			<8			•••
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MFL = Million Fibers per Liter

ml = millitiers

MPN100 ml = most probable number per 100 millititer

--- = not applicable

T = total

IR = total recoverable

D = dissolved

ND = not detected

* No designated uses exceeded

* No designated uses exceeded

* No designated uses exceeded

* The standard is lower than detection limit

---- = Standard is lower than detection limit

---- = Arizona state Dissolved Oxygen and pH)

Arizona state Dissolved Oxygen standards correspond to minima, therefore values less than the requirements are highlighted.

Arizona state pH standards correspond to ranges, therefore values outside of the requirements are highlighted.

DC 7.1C

Sample Location: DC 7.1C Sample ID: RESE-1001009 Sample Date: May 29, 2003

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Zinc											700.0	D	150.0	D			<2.0				
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Abbetos (MFL)				1		1				_						ich et la					421
Boron				I			1.12					57		100	::•••			<1,000			N
Canada (Fine					126,000	TR	126,000	TR		100		1	-	III.			<40.0				
Flouride				TR				TR	200	TR	41	TR	9.7	TR	84	TR		<100.0			
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Phosphorous		NO, +NO, -N			***		***														
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Sulfide		SiO ₂			***		***	П		3											
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Chloride																					
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Bicarbonate HCO ₃		CO ₃	***										100000000000000000000000000000000000000	30			43865				
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Radionuclides		Na					3000									_		21,700		***	
Gross alpha activity (pCi/L)	Radionuclides					1000			-							_					
Gross beta activity (pCi/L)			***					1		1				-		-			_		(22)
Radium 226+228 (pCi/L)		,				1			-	-		-		-		1				200	
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Hardness			***	L	_			1				-		-		+					
Total dissolved solids TDS					***			1		-		-		-		-					
Total suspended solids TSS (mg/L)	Total dissolved solids		•••			-		-		-	1	1		-	185	+					1200
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Notes:

Cell color indicates ADEQ designated uses that are assumed to apply to site location.

Units are µg/L unless otherwise indicated µg/L = micrograms per liter µg/L = milligrams per liter µg/L = milligrams per liter T = Total Recoverable

D = Dissolved
ND = Not Detected

* = Not designated uses exceeded

... = Not Tested
µS/m = microSiemens per centimeter
pCi/L = piccOuries per liter
NTUs = Nephelometric Turbidity Units
MFL = Million Fibers per Liter

= Exceedances (except for DO and pH)
AZ state DO standards correspond to minima, therefore values less than the requirements are highlighted
AZ state pH standards correspond to ranges, therefore values outside of the requirements are highlighted

DC 7.1C RESE-1001034 11/4/2003 15

Parameters and Consti	tuents				×	St	urfac	e Water S	Stanc	lards								Results		
Name	Units	Fish Consumpt	ion	Full-boo		Partial-be Contac		Agricultu Livesto Wateri	k			d Wildlife water) Chronic	c	Aquatic a Wildlife (ephemer Acute	e al)	Dissolved Results	Total Results	Total Recoverable Results	Field Parameters	Use Exceeded
		Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction					
Field					_							Market Post			_				7.8	Western Co.
pН	s.u.			6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0	***	6.5-9.0	***	6.5-9.0					16	
Temperature	°C																		352	
Specific Conductance	μS/cm			***		***				6		6		***					8.9	
Dissolved Oxygen	mg/L NTUs					***													0.45	
Turbidity Metals	NIUS					10000			2000	per tracted.	086		10000							
Aluminum	μg/L																<20	N		
Antimony	μg/L	4,300	TR	560	TR	560	TR			88	D	30	D			<3	<3	<3		
Arsenic	μg/L μg/L	1.450	TR	50	TR	420	TR	200	TR	360	D	190	D	440	D	5	6	5		-
Barium	µg/L			98,000	D	98,000	D									29		(2.00)		
Beryllium	μg/L	1,130	TR	2,800	TR	2,800	TR			65	D	5.3	D	***		<2	<2	<2		
Cadmium	μg/L	84	TR	700	TR	700	TR	50	TR	4.9	D	2.4	D	74	D	<0.1	<0.1	<0.1		
Chromium (total)	μg/L	***		100	TR	100	TR	1,000	TR	***	•••		***			<6		<6		
Cobalt	μg/L													26			<6	<3		
Copper	μg/L			1,300	TR	1,300	TR	500	TR	15.1	D	9.9	D	26	D	<3	<3 79			
Iron	μg/L			15	TP	15	TR	100	TR	73.8	D	2.9	D	156	D	<3	<5	<3		
Lead	µg/L			15	TR	15 196,000	TR	100	IK	15.8	ע	2,9,	U					42		
Manganese	μg/L	0.6	TR	196,000 420	TR		TR	10	TR	2.4	D	:: 0.01;-;	D	5,00	D	<0.2	<0.2			***
Mercury Molybdenum	µg/L µg/L		IK	420		420	110							***			<8			
Nickel	µg/L	4,600	TR	28,000	TR	28,000	TR			519	D	58	D	4,611	D	<10	1444	<10		
Selenium	µg/L	9,000	TR		TR	7,000	TR	50	TR	20.0	TR	2.0	TR	33	TR		<3	<3		
Silver	µg/L	107,700	TR		TR	7,000	TR			4	D		***	4.3	D	< 0.1	<0.1	<0.1		
Thallium	μg/L	7.2	TR	112	TR	112	TR			700	D	150	D			<2	<2			
Zinc	µg/L	69,000	TR	420,000	TR	420,000	TR	25,000	TR	130	D	131	D	1,233	D	<5	<5	<5		
Inorganic Non-metallics					_						_		_							
Asbestos	MFL								***			***					<40	***		
Boron	µg/L	***		126,000	TR		TR				***				***		150			0
Bromide	µg/L			20.000		20.000	TD	200	TR	41	TR	9.7	TR		TR			***		
Cyanide (free)	µg/L	215,000	TR	28,000 84,000	TR	28,000 84,000	TR	200			III		-				350	1922	pa.	
Fluoride	μg/L			140,000	T	140,000	T										<100			
Nitrite (as N) Nitrate (as N)	μg/L μg/L			2,240,000	T	2,240,000	T		-								<100			
Nitrate + Nitrite (as N)	µg/L							***									<100			***
Orthophosphate	ug/L		1			-									***	255	<500			
Silica	µg/L									1 322				***			52,400			
Sulfide	µg/L	110.00								- 100	Т		-	100	T		<1900			
Major Anions								S. V.					_		_				_	
Chloride	µg/L							***								1444	9,710			
Sulfate	μg/L																24,800 <1000			
Carbonate (as CaCO ₃)	µg/L										-						147,000			
Bicarbonate (as CaCO ₃)	μg/L		1		1												341,003	100		
Major Cations	T		1	In a	_		100		5,50				1	I	T		33,600		T	
Calcium	μg/L						1			11114450	-				Ť		7,170			
Magnesium	μg/L μg/L		-		1				-			100	-				2,200			***
Potassium Sodium	μg/L μg/L																30,000			 (
Physical Properties	1 192		-		_		_													
Alkalinity (total as CaCO ₃)	µg/L		T			177		- 55									147,000		•••	•••
Hardness	mg/L	144	1					***								***	113			
Total Dissolved Solids	µg/L							- 111								***	218,000		(444)	(***)
Total Suspended Solids	mg/L									80	Т	80	T				<5			
Color	color units															(555))	15			-
Biologicals			_		_				_		-		1		-		100		1	(****)
Coliforms (total)	MPN/100 m																300			
E. Coli	MPN/100 m	1	1	235		576		***	1				1				<2			

E Coii MPN/100 mll --- --- 235 --- 576 --- --- --- --- Notes:

Notes:

Su = standard units

C = degrees Celsius

pScm = microStemens per centimeter

mg.l = milligarans per liter

NTUs = Nephelometris Turbdity Units

pgl.l = micrograms per liter

MPN/100 ml = most probable number per 100 milliliter

--- = not applicable

T = total

TR = total recoverable

D = dissolved

ND = not detected

ND = not specification units

Arizona state Dissolved Oxygen standards correspond to minima, therefore values less than the requirements are highlighted.

Arizona state Dissolved Oxygen standards correspond to minima, therefore values less than the requirements are highlighted.

DC 7.1C RESE-1001065 2/18/2004 95.4

	ituents					S	urtac	e Water S	Tand	7.00			-	Aquatic a	and I			Results		1
		Fish Consumpt	ion	Full-boo		Partial-b Contac		Agriculti Livesto Waterio	ck		arm v	Wildlife vater) Chron	_	Wildlif (ephemer	e ral)	Dissolved		Total Recoverable	Field	Ver French
Name	Units	Standard	Fraction	tandard	raction	andard	Fraction	tandard	raction	tandard	raction	tandard	raction	tandard	Fraction	Results	Total Results	Results	Parameters	Use Exceede
		Sta	E	Str	E.	S	E	St	F	<u>.</u>	ů.	Š	Ē	Š	Œ					147 748 748
pH	s.u.			6.5-9.0		6,5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0					7.4	
Temperature	°C													•••		33		-	9	•
Specific Conductance	μS/cm								***	III SANS		***				***	***		184	
Dissolved Oxygen	mg/L			***		***	7.77			6		6					***		10	
Turbidity	NTUs	E				***													2.1	
etals					_		_	_									53			
Aluminum	μg/L	1 200	TD	560	TR	560	TR			88	D	30	D			<0.3		<0.3		
Antimony	μg/L μg/L	4,300 1,450	TR TR	50	TR	420	TR	200	TR	360	D	190	D	440	D	3.5	3	3.6		
Arsenic Barium	μg/L	1,430		98,000	D	98,000	D									16				***
Beryllium	μg/L	1,130	TR	2,800	TR	2,800	TR			65	D	5.3	D	***		<0.2	-	<0.2		
Cadmium	µg/L	84	TR	700	TR	700	TR	50	TR	2.6	D	1.6	D	39	D	<0.1	444	0.17		
Chromium (total)	μg/L			100	TR	100	TR	1,000	TR				***			<0.3		<0.3		
Cobalt	μg/L			-											=					
Copper	μg/L	-		1,300	TR	1,300	TR	500	TR	8.6	D	6,0	D	15	D	<2,1		<2.1		
Iron	μg/L							***		20.5		1.5		91				<1		
Lead	μg/L	(11)		15	TR	15	TR	100	TR	38.5	D	1.5	D	81	D	<1		7.6		
Manganese	μg/L		-	196,000	TR	196,000	TR	10	TD	2.1			D	5.0	D	···<0.2···	-	7.0		
Mercury	µg/L	0.6	TR	420	TR	420	TR	10	TR	2.4	D	0.01	0	5.0	0					
Molybdenum	µg/L	1.600	TD	28,000	TD	28,000	TR			314	D	35	D	2,790	D	4.8		2.6		
Nickel	µg/L	4,600 9,000	TR		TR	7.000	TR	50	TR	20.0	TR	2.0	TR	33	TR	4.0	_	<0.8	***	***
Selenium	μg/L μg/L	107,700	TR		TR	7,000	TR			20.0	D			1.5	D	<0.1	<0.1	<0.1		
Silver Thallium	μg/L μg/L	7.2	TR		TR	112	TR			700	D	150	D	***		<0.4	-	***	1000	
Zinc	µg/L	69,000	TR		TR	420,000	TR		TR	79	D	79	D	746	D	<0.2		0.99		
organic Non-metallics								and the second							_			,		
Asbestos	MFL							-		***				***		-		***	500	
Boron	µg/L	***		126,000	TR	126,000	TR		***								<1			***
Bromide	µg/L							***		***							104			
Cyanide (free)	μg/L	215,000	TR		TR	28,000	TR	200	TR	41	TR	9.7	TR	84	TR					
Fluoride	µg/L			84,000	T	84,000	T	777								222	227			
Nitrite (as N)	μg/L			140,000	T	140,000	T										<100 <100			
Nitrate (as N)	µg/L			2,240,000	T	2,240,000	T (222	<100			
Nitrate + Nitrite (as N)	µg/L				-		-				-		-			***	<500		22	
Orthophosphate	µg/L				-							***				***				***
Silica Sulfide	μg/L μg/L									100	Т	11.		100	T		<1000			1997
lajor Anions	1 18-		-		_															
Chloride	μg/L]					***				***	5,320	***	***	***
Sulfate	µg/L			***													16,800		(200 2)	
Carbonate (as CaCO ₃)	μg/L									-							<1000 80,000			
Bicarbonate (as CaCO ₃)	µg/L					***				-		***		•••			80,000		3717	
lajor Cations			-		_		_		1		1				_		18,600		T	
Calcium	µg/L	***								***					-		3,860			
Magnesium	µg/L				+		1		1		1		1-		1		1,100	924		***
Potassium	μg/L μg/L				-		1										16,400			(244)
Sodium hysical Properties	Hg/L		1		1	-	1		-		17.1		-	-	-					
Alkalinity (total as CaCO ₃)	μg/L		T		T		T		T				T				80,000		***	19972
Hardness	mg/L		1				1									***	62			***
Total Dissolved Solids	µg/L						ļ							***		***	138,000			•••
Total Suspended Solids	mg/L					222				80	T	80	T				<5	-11		4.000
Color	color units			***										9207/			10			***
iologicals					_		1		_				_	The same	-	Accessed to	00		T	***
Coliforms (total)	MPN/100 m						***										90			
E. Coli	MPN/100 m		1	235	1	576	1	• • • • • • • • • • • • • • • • • • • •	1				1000		1				-	•

> Sample Location: Sample ID: Sample Date: Flow Rate (gpm):

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L. C. C. C. C. C. C. C. C. C. C. C. C. C.	1,450	Eraction TR	Full-bod Contac Parpara 90 6,5-9,0 		Partial-bc Contac		Agriculte Livesto Waterin Par Par Par Par Par Par Par Pa	ck _		Fraction	Chronic Praparts S	Fraction	Aquatic a Wildlife (ephemer Acute page 100 6.5-9.0	Fraction (ps.	Dissolved Results	Total Results	Total Recoverable Results	Field Parameters	Use Exceede
L Us L L L L L L L L L L L L L L L L L L L	4,300 1,450	 TR TR	6.5-9.0 560		6.5-9.0		Standard		Standard		Standard	Fraction	Standard	Fraction		Total Results		2008	Use Exceede
L Us L L L L L L L L L L L L L L L L L L L	4,300 1,450	 TR TR	6.5-9.0 560		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		- 22 -						
L Us L L L L L L L L L L L L L L L L L L L	 4,300 1,450	TR											6.5-9.0						
L Us L L L L L L L L L L L L L L L L L L L	 4,300 1,450	TR											0.2-7.0			1		8.1	
TL US TL TL TL TL TL TL TL TL TL TL TL TL TL	 4,300 1,450	TR	 560								A THE PARTY OF							20	
L Us L L L L L L L L L L L L L L L L L L L	4,300 1,450	TR	 560		***	-	•••									***	***	204	
L L L L L L L L L L L L L L L L L L L	4,300 1,450	TR	560					-			6	***			***			7.2	***
л. л. л. л. л.	4,300 1,450	TR	560								***						***	0.71	
л. л. л. л. л.	4,300 1,450	TR	560		1000									_					
TL TL TL TL	1,450	TR						***						***		<20	<3		
/L /L /L				TR	560	TR	***		88	D	30	D	440	D	<3	<3	থ		
/L /L			50	TR D	420 98,000	TR D	200	TR	360	D	190	D	440	-	20				
/L		TR	98,000 2.800	TR	2,800	TR			65	D	5.3	D			<2	<2	<2		
/L	84	TR	700	TR	700	TR	50	TR	2.8	D	1.7	D	43	D	<0.1	<0.1	<0.1	225	
			100	TR	100	TR	1,000	TR							<6	J. 1860	<6		***
													***			<6			244
/L			1,300	TR	1,300	TR	500	TR	9.4	D	6.5	D	16	D	<3	5.7	4.1		
/L					(***)				2		***					88	•••		***
/L			15	TR	15	TR	100	TR	42.9	D ·	[·[4],7][·	D	91	D	<3	<3	<3		
/L			196,000	TR	196,000	TR				=							18		
/L	0.6	TR	420	TR		TR		TR		D		D		D					
/L	1.000			77				***						D					
AL .								TD											***
								IK				110					<0.1		989
												D	1.0		<2	<2			
				TR	420,000	TR	25,000	TR	85	D	86	D	810	D	<5	<5	<5		***
		7																	
FL	A						***						***		***			***	***
/L	***		126,000	TR	126,000	TR							***						
/L	***										***								<u> </u>
		TR						TR				TR		TR					
/L						1				-	122	***							
		***				-													
			-	1	2.240,000	1	_												
						-	1110000									<500			
							***									42,900			
/L							_		100	Т			100	T		<1000			
/L					***														
/L																			1000
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yL	-	1						-					-	_					
л. Т		l				T	***				***					20,600			
							/									4,210		***	
z/L					888						•••		1949Y			1,500			***
2/L			***							***			(577)			17,000			(444)
		_		_		_	N. Carlotte	_						_		01.000			
z/L	-						-						***				-		
g/L				-	***	-	***							***					
2/L						***				-		T		***					
g/L		-			1000					1								1444	
units		1			3.00	1		1				1	(CONT.)	1				grene	and the same of the same
100 ml		I				T									***	240	3234		(***)
			235	1				1								2	- 12		1000
	7.	7. 0.6 7. 1. 0.6 7. 1. 0.6 7. 1. 0.7 7. 1. 0.7 7. 1. 0.7 7. 1. 0.7 7. 1. 0.7 7. 1. 0.7 7. 1. 0.7 7. 1. 0.7 7. 1. 0.7 7. 1. 0.7 7. 1. 0.7 7. 1. 0.7 7. 1. 0.7 7. 1. 0.7 7. 1. 0.7 7. 1. 0.7 7. 1. 0.7 7. 1. 0.7 7. 1. 0.7 7. 1. 0.7 7. 1. 0.7 7. 1. 0.7 7. 1. 0.7 7. 1. 0.7 7. 1. 0.7 7. 1. 0.7 7. 1. 0.7 7. 1. 0.7 7. 1. 0.7 7. 1. 0.7 7. 1. 0.7 7. 1. 0.7 7. 1. 0.7 7. 1. 0.7 7. 1. 0.7 7. 1. 0.7 7. 0.7 7. 0.7 7. 0.7 7. 0.7 7. 0.7 7. 0.7 7. 0.7 7. 0.7 7. 0.7 7. 0.7 7. 0.7 7. 0.7 7. 0.7 7. 0.7 7. 0.7 7. 0.7 7. 0.7 7. 0.7 7. 0.7 7. 0.7 7. 0.7 7. 0.7 7. 0.7 7. 0.7 7. 0.7 7. 0.7 7. 0.7 7. 0.7 7. 0.7 7. 0.7 7. 0.7 7. 0.7 7. 0.7 7. 0.7 7. 0.7 7. 0.7 7. 0.7 7. 0.7 7. 0.7 7. 0.7 7. 0.7 7. 0.7 7. 0.7 7. 0.7 7. 0.7 7. 0.7 7. 0.7 7. 0.7 7. 0.7 7. 0.7 7. 0.7 7. 0.7 7. 0.7 7. 0.7 7. 0.7 7. 0.7 7. 0.7 7. 0.7 7. 0.7 7. 0.7 7. 0.7 7. 0.7 7. 0.7 7. 0.7 7. 0.7 7. 0.7 7. 0.7 7. 0.7 7. 0.7 7. 0.7 7. 0.7 7. 0.7 7. 0.7 7. 0.7 7. 0.7 7. 0.7 7. 0.7 7. 0.7 7. 0.7 7. 0.7 7. 0.7 7. 0.7 7. 0.7 7. 0.7 7. 0.7 7. 0.7 7. 0.7 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7. 0.7 7. 0.7 7. 0.7 7. 0.7 7. 0.7 7. 0.7 7. 0.7	AL 0.6 TR AL	Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description Description 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Description Description Description Description Description Description Description Description	AL 0.6 TR 420 TR 420 TR 10 TR AL 4.600 TR 28.000 TR 28.000 TR 28.000 TR 28.000 TR 28.000 TR 5.000 TR 7.000 TR	AL 0.6 TR 420 TR 420 TR 10 TR 2.4 AL 4.600 TR 28,000 TR 28,000 TR 28,000 TR	AL 0.6 TR 420 TR 420 TR 10 TR 2.4 D AL	AL 0.6 TR 420 TR 420 TR 10 TR 2.4 D □ 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 □ □ 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 □ 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 <td>AL 0.6 TR 420 TR 420 TR 10 TR 2.4 D □ 0.001 □ 0.001 □ 0.001 □ 0.001 □ 0.001 □ 0.001 □ 0.001 □ 0.001 □ 0.001 □ 0.000 □ 0.001 □ 0.000 □ 0.001 □ 0.000 □ 0.000 □ 0.000 □ 0.000 □ 0.000 □ 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10 ∠ 10 ∠ 10 ∠ 10 ∠ 10 ∠ 10 ∠ 10 ∠ 10 ∠ 10	Description Color 1.	1.		

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Parameters and Consti	ituents					S	urfac	e Water S	Stan	dards	-							Results		
Name	Units	Fish Consumpt	ion	Full-boo Contac		Partial-be Contac	ody	Agricultu Livesto Wateri	aral ck	Aquat		nd Wildlife water) Chroni		Aquatic a Wildlif (ephemer Acute	e al)	Dissolved Results	Total Results	Total Recoverable Results	Field Parameters	Use Exceeded
		Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction					
ield																				
pH	s.u.			6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0	-	6.5-9.0		6.5-9.0					7.8	
Temperature	°C	***																(222)	24	
Specific Conductance	μS/cm			***									***	***		***			379	
Dissolved Oxygen	mg/L	***	***					***		6		6				***			6.7	***
Turbidity	NTUs					***												***	0.78	
Metals									_		_		_		_					
Aluminum	μg/L										***					***	<20	***		
Antimony	µg/L	4,300	TR	560	TR	560	TR			88	D	30	D		***	<3	<3	<3		
Arsenic	μg/L	1,450	TR	50	TR	420	TR	200	TR	360	D	190	D	440	D	<3	5	4		
Barium	μg/L			98,000	D	98,000	D									43			***	***
Beryllium	μg/L	1.130	TR	2,800	TR	2,800	TR			65	D	5.3	D			<2	<2	<2		2
Cadmium	µg/L	84	TR	700	TR	700	TR	50	TR	6.1	D	2.9	D	93	D	<0.1	<0.1	<0.1		
Chromium (total)	μg/L			100	TR	100	TR	1,000	TR			//	-			<6		<6		••
Cobalt	μg/L					•••		***									<6	0.7		***
Copper	µg/L	***		1,300	TR	1,300	TR	500	TR	18.5	D	11.9	D	32	D	6.1	9,6	9.7		
Iron	µg/L					***											42			
Lead	µg/L			15	TR	15	TR	100	TR	93.0	D	3.6	D	196	D	<3	<3	<3		
Manganese	μg/L			196,000	TR		TR			***								13		
Mercury	μg/L	0.6	TR	420	TR	420	TR	10	TR	2.4	D	. 0.01	D	5.0	D	<0.2	<0.2			
Molybdenum	μg/L			***				***								-10	<8	<10		
Nickel	μg/L	4,600	TR		TR	28,000	TR			622	D	69	D	5,528	D	<10	<3	~10		
Selenium	μg/L	9,000	TR		TR	7.000	TR	50	TR	20.0	TR	2.0	TR	33	TR D	-0.1	<0.1	<0.1		***
Silver	μg/L	107,700	TR		TR		TR	***		6	D	150	D	6.2	D	<0.1	<2	×0.1		
Thallium	μg/L	7.2	TR		TR		TR	25,000	TR	700 156	D		D	1,479	D	<5	<5	<5		
Zinc	μg/L	69,000	TR	420,000	TR	420,000	TR	25,000	IK	150	D	137	D	1,477	D			~		
Inorganic Non-metallics	No.	0 01V									1923	l					-			
Asbestos	MFL			126,000	TR	126,000	TR								-		<40			
Boron	µg/L				IK		IK				11/2					- 22	120	1252	503	-11
Bromide	µg/L	215,000	TD	38,000	TR	28,000	TR	200	TR	41	TR		TR		TR					
Cyanide (free)	µg/L	215,000	TR	28,000 84,000	T	84,000	T	200	IK			7.7					220		***	***
Fluoride	μg/L			140,000	T	140,000	T						-				<100			
Nitrite (as N)	μg/L			2,240,000	T	2,240,000	T										900			
Nitrate (as N)	µg/L		-		1	2,240,000	1						-				900			
Nitrate + Nitrite (as N)	μg/L				-		-		-		200		-				<500			242
Orthophosphate	µg/L		1		-	***	1		-		-		1				50,700			
Silica Sulfide	μg/L μg/L		-		-				-	100	T			100	Т		<1000			100
Major Anions	hg/L		1		_		1		100	100	-		_		-				Marine and	
	Luga		12				1						1				10,700			
Chloride	μg/L	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	-		-		-										71,100			
Sulfate Carbonate (as CaCO ₃)	µg/L µg/L		1		1				-		-		1				<1000			
Bicarbonate (as CaCO ₃)	μg/L μg/L																127,000			
Major Cations	h by to	229	1	7 No. 100	1000		_	4 15	1008		_		1		_		- Control of Control			
Calcium	µg/L		T						I				I	I			41,400			
	µg/L		1					***			-						8,820			
Magnesium Potassium	µg/L		1		1		-						1			***	3,100			
Sodium	μg/L μg/L									***							28,400		***	
Physical Properties	I Pan	-	-		-						_		_	-	_					
Alkalinity (total as CaCO ₃)	µg/L		T		T				Ī								127,000			
Hardness	mg/L		1				1									200	140		***	
Total Dissolved Solids	µg/L				-												320,000			***
Total Suspended Solids	mg/L		1		1		1		1	80	T	80	T				6		***	
Color	color units		1		-						-		1				28	***	(24)	•••
Biologicals	1 Join dials		-		1000		_		-	-	_	-			-					
	MPN/100 ml		1		T		T						I		***	***	1,600		***	
Coliforms (total)																				

E. Coli MPN/100 mll --- 235 --- 576 --- -- -- Notes:
Green cell color indicates ADEQ designated uses that are assumed to apply to site location.

s.u = standard units
'C = degrees Celsius
µSkm = microSiemens per centimeter
mg/L = milligrams per liter
NTUs = Nephelometric Turbidity Units
µpL = micrograms per liter
MTL = Million Fibers per Liter
ml = millititers
ml = millititers
ml = millititers
T = total
TR = total recoverable
D = dissolved
ND = not detected
-- No designated uses exceeded
--- No designated uses exceede

Sample Location: Sample Location: Sample ID: Sample Date: Flow Rate (gpm):

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Parameters and Const	ituents					St	urfac	e Water S	tano	lards								Results		
Name	Units	Fish Consumpt	ion	Full-boo Contac		Partial-be Contac		Agriculti Livesto Wateri	k			nd Wildlife water) Chroni		Aquatic a Wildlif (ephemer Acute	e al)	Dissolved Results	Total Results	Total Recoverable Results	Field Parameters	Use Exceeded
		Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction					
field															_					
рН	s.u.	***		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0					8 12	
Temperature	°C					***			***		***	•***							279	
Specific Conductance	μS/cm										***				***	***			8,8	
Dissolved Oxygen	mg/L						***		•••	6		6							1.3	
Turbidity	NTUs	***		-									***						1.5	
Metals		_					200		1000		1788		383				24			***
Aluminum	μg/L				TD		то			88	D	30	D			<3	<3	<3		
Antimony	µg/L	4,300	TR	560	TR	560	TR TR	200	TR	360	D	190	D	440	D	- 4	3	3		
Arsenic	μg/L	1,450	TR	50 98,000	TR D	420 98,000	D	200	IK	360		190	-	440		22			***	
Barium	µg/L	1.120	TR	2,800	TR	2,800	TR			65	D	5.3	D			<2	<2	<2	***	***
Beryllium	µg/L	1,130	TR	700	TR	700	TR	50	TR	4.3	D	2.3	D	65	D	<0.1	<0.1	<0.1		
Chamium (total)	µg/L	84	IK	100	TR	100	TR	1,000	TR	4.3		2.3	-			<6		<6		
Chromium (total)	µg/L		-	100	IK	100	110	1,000									<6			
Cobalt	μg/L			1,300	TR	1,300	TR	500	TR	13.6	D	9.0	D	23	D	<3	<3	<3		
Copper	μg/L μg/L			1,300		1,300		300		13.0		7.0					72			
Lead				15	TR	15	TR	100	TR	65.3	D	2,5	D	138	D	<3	<3	<3		
	μg/L μg/L			196,000	TR		TR									***	(***)	14		
Manganese	μg/L μg/L	0.6	TR	420	TR	420	TR	10	TR	2.4	D	[· [0.01]·]	D	5.0	D	<0.2	<0.2		***	***
Mercury Molybdenum			111			720		***		***							<8		222	ii.
Nickel	µg/L µg/L	4,600	TR		TR	28,000	TR			472	D	52	D	4,193	D	<10		<10		
Selenium	µg/L	9,000	TR		TR	7,000	TR	50	TR	20.0	TR	20:	TR	33	TR		<3	⊲		***
Silver	µg/L	107,700	TR		TR		TR			4	D			3.5	D	<0.1	<0.1	<0.1		
Thallium	µg/L	7.2	TR		TR		TR			700	D	150	D			<2	<2	***		
Zinc	µg/L	69,000	TR		TR		TR		TR	118	D	119	D	1,121	D	<5	<5	<5	***	
Inorganic Non-metallics	10-		-										_	111111-1-2-276						
Asbestos	MFL								***									***		
Boron	µg/L			126,000	TR	126,000	TR										<40			
Bromide	µg/L											4-4					<100	1.444		
Cyanide (free)	µg/L	215,000	TR	28,000	TR	28,000	TR	200	TR	41	TR	9.7	TR	84	TR	***		***		
Fluoride	μg/L			84,000	T	84,000	T				***						360	***	***	***
Nitrite (as N)	µg/L			140,000	T	140,000	T	***									<100			
Nitrate (as N)	µg/L		<u> </u>	2,240,000	T	2.240,000	Т			11		***					<100			
Nitrate + Nitrite (as N)	μg/L																<200			***
Orthophosphate	µg/L	***				***				***							<500			
Silica	μg/L			***		•••		***				***				•••	49,800			
Sulfide	μg/L					-				- 100	T			100	T		<1000			
Major Anions															_		Y			
Chloride	µg/L		***	***		***		•••		***		***					8,690			
Sulfate	μg/L							•••								•••	7,940	•••		
Carbonate (as CaCO ₃)	µg/L					1385771										222	<1000		***	
Bicarbonate (as CaCO ₃)	µg/L	***				***		***									144,000			
Major Cations									_				_		_					
Calcium	μg/L			***	***	11888		***									29,800		5-4	***
Magnesium	μg/L							***									6,440			222
Potassium	μg/L							-								***	1,700			
Sodium	µg/L			***		222		***	***	•••			1			122	28,500			***
Physical Properties			_		_				_		_		_	T	_		111000			
Alkalinity (total as CaCO ₃)	µg/L												-			***	144,000			
Hardness	mg/L							***									101			***
Total Dissolved Solids	μg/L	***														***	186,000			
Total Suspended Solids	mg/L							***		80	T	80	T			***	<5	***	***	
Color	color units		-										1				10		***	
Biologicals				Contract of	_		_		_		_		_	-	_		1 220			
Coliforms (total)	MPN/100 ml							***	***							***	130			
E. Coli	MPN/100 ml		1	235		576	1						1		1		17		***	345

E. Coli MPN/100 ml --- --- 235 --- 576 --- --- --- --- --- Notes:
Green cell color indicates ADEQ designated uses that are assumed to apply to site location.

s.u = standard units
C = degrees Celsius
µSkm = microSiemens per centimeter
mpl. = milligrams per liter
MTUs = Nephelometric Turbidity Units
µpl. = micrograms per liter
MTUs = Nephelometric Turbidity Units
µpl. = micrograms per liter
MTL = Million Fibers per liter
ml = millititers
ml = millititers
ml = millititers
T = total recoverable
D = dissolved
D = not detected
-- No designated uses exceeded

DC 7.1C RESE-1001193 2/16/2005 30311.95

	ituents				_	S	urfa	ce Water	Stand	- 1	55	Marian	- 1	Aquatic	and			Res	sults	
		Fish Consump	tion	Full-bo		Partial-b		Agricult Livesto Wateri	ck .	(9	arm	id Wildlif water)		Wildli (epheme	fe ral)					
Name	Units	pau		pur	on	pra	uo			Acute		Chron		Acut		Dissolved Results	Total Results	Total Recoverable Results	Field Parameters	Use Exceeded
		tandard	Fraction	tundard	raction	fundard	raction	landard	raction	tandard	Fraction	standard	raction	Standard	Fraction	F - 3				
eld		SO	1 14 1		1 524	- 0		- 20	1.35	- 00	1.34.1			- 22	1 34					
pH	s.u.	-		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0	-	6.5-9.0					7.7	
Temperature Specific Conductance	^c C μS/cm												-						72	
Dissolved Oxygen	mg/L									6		6							13	***
Turbidity	NTUs		***							***						***	220		6.1	
etals			_		_		_		_								570			***
Aluminum	μg/L	4,300	TR	560	TR	560	TR			88	D	30	D	222	=	<3	570 <3	<3		
Antimony Arsenic	μg/L μg/L	1,450	TR	50	TR	420	TR	200	TR	360	D	190	D	440	D	3	3.1	3.3		422
Barium	µg/L	-	-	98,000	D	98,000	D	-							-	13			-	
Beryllium	µg/L	1,130	TR	2,800	TR	2.800	TR			65	D	5.3	D			<2	<2	<2		-
Cadmium	μg/L,	84	TR	700	TR	700	TR	50	TR	0.9	D	0.8	D	13	D	<0.2	<0.2	<0.2 <6		
Chromium (total) Cobalt	µg/L µg/L			100	TR	100	IK	1,000	IR.								<6			-
Copper	μg/1.			1,300	TR	1,300	TR	500	TR	3.4	D	2.6	D	5.9	D	12	13	12		A&WwwA, A&WwwC, A&W
Iron	μg/L				ļ								-				279		===	
Lead	µg/L			15	TR	15	TR	100	TR	12.8	D	0.5.	D	27	D	.∵<3∵∴	<3	7.3		
Manganese	μg/L.	0.6	TR	196,000 420	TR	196,000 420	TR	10	TR	2.4	D	(0.01)	D	5.0	D	<0.2-	<0.2	7.3		
Mercury Molybdenum	րջ/L µջ/L	0.6	71	420		420				2.4	-			5.0			<8			
Nickel	μg/L	4,600	TR	28,000	TR	28,000	TR			137	D	15	D	1,213	D	<10	>****	<10		***
Selenium	µg/L	9,000	TR	7,000	TR	7,000	TR	50	TR	20.0	TR	2.0	TR	33	TR		<3	⊲	***	***
Silver	μg/L.	107,700	TR	7,000	TR	7,000	TR			700	D	150	D	0.3	D	<0.1	<0.1	<0.1		***
Thallium Zine	µg/L µg/L	7.2 69,000	TR	420,000	TR	112 420,000	TR	25,000	TR	700 34	D	34	D	324	D	<10	<10	<10		
organic Non-metallics	HELL	07,000		420,000	1	120,000	1.15	25,000	233				1-							
Asbestos	MFL	2					-	-		***		-	-			***	-		-	
Boron	µg/L			126,000	TR	126,000	TR										<40			***
Bromide	μg/1.	215,000	TR	28,000	TR	28,000	TR	200	TR	41	TR	9.7	TR	84	TR		<100			
Cyanide (free) Fluoride	µg/L µg/L			84,000	T	84,000	T	200		***		J.1					<100			
Nitrite (as N)	μg/1.		-	140,000		140,000	T			***				1444		***	<100			***
Nitrate (as N)	µg/L			2,240,000	T	2,240,000	T			AWELL:		-	-				280		-	
Nitrate + Nitrite (as N)	µg/L			-57.	-						-						280 <500			
Orthophosphate Silica	μg/L μg/L		-										-		-		25,000			
Sulfide	μg/L			_	1					100	T			100	T		6000			
ajor Anions							\equiv		_						_					
Chloride	µg/L				-	-73									***	***	3,020			2.2
Sulfate Carbonate (as CaCO ₃)	μg/L								-				-				12,600 <1000			
Bicarbonate (as CaCO ₃)	μg/L μg/L			-						-				1777	-	***	12,700			***
lajor Cations					_							V								
Calcium	μg/L					-	-						-				6,670			
Magnesium	µg/L			•••	-	***				***					***	***	1,620			
Potassium Sodium	μg/L μg/L												-	***			4,670			-
hysical Properties	1 har		1				-		_		_									
Alkalinity (total as CaCO ₃)	μg/L	-								***							12,700	***		***
Hardness	mg/L	***										-		***			23			-
Total Dissolved Solids Total Suspended Solids	µg/L		-						-	80	T	80	т		-	***	80,000 <5	***		
Total Suspended Solids Color	mg/L color units				-		-								1		46			
iologicals	- ever mino		- Control			-	_													
Coliforms (total)	MPN/100 ml							***						***		***	130			
Cohforms (total) E. Coli	MPN/100 ml			235	=	576											4			

DC 7.1C RESE-1001215 5/17/2005 10.9

Parameters and Consti	tuents					S	urfa	e Water S	itan	dards								Result		
		Fish		Full-bo		Partial-b Contac		Agricult				nd Wildlife water)	A. L.	Aquatic a Wildlife (ephemer	e					
Name	Units	Consump	non	Contac	er	Contac		Wateri	ng	Acute		Chroni	c	Acute		Dissolved Results	Total Results	Total Recoverable Results	Field Parameters	Use Exceeded
		tandard	raction	tandard	Fraction	tandard	raction	tundard	raction	tandard	raction	tandard	raction	tandard	raction					
ield		0	14.1		12	- 0	144	- 0	111	- 00	100	- V2	-		M4					
pH	s.u.			6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0					8	
Temperature	°C													***			****		19	
Specific Conductance	uS/cm											***			-		***	•••	205	
Dissolved Oxygen	mg/L									6		6		9223			1240	***	8.8	***
Turbidity	NTUs	13.55						***											0.61	***
Ietals											_									
Aluminum	μg/L											***	•••	***		***	<30			
Antimony	µg/L	4,300	TR	560	TR	560	TR			88	D	30	D			<3	ا ا	<3	***	
Arsenic	µg/L	1,450	TR	50	TR	420	TR	200	TR	360	D	190	D	440	D	5.3	4.7	4.9		
Barium	µg/L	***		98,000	D	98,000	D		***					(***)		19	<2	<2	***	
Beryllium	µg/L	1,130	TR	2.800	TR	2,800	TR		TP	65	D	5.3	D	43	D	<0.2	<0.2	<0.2		
Cadmium	µg/L	84	TR	700	TR	700	TR	50	TR		D	1.7	D	-	D	<6	×0.2	<6		***
Chromium (total)	µg/L			100	TR	100	TR	1,000	TR								<6			932
Cobalt	μg/L			1,300	TR	1,300	TR	500	TR	9.4	D	6.5	D	16	D	<10	<10	<10		***
Copper	µg/L		-	1,300	IK	1,300	1K	500	ıĸ	9.4	10						76			***
Iron	µg/L	_		15	TR	15	TR	100	TR		D	:::1:7:::	D	90	D	∵:<3∵:	<3	<3		2
Lead	µg/L µg/L			196,000	TR	196,000	TR	100	110	42.0	1,,,			20				17		
Manganese Mercury	µg/L µg/L	0.6	TR	420	TR	420	TR	10	TR	2.4	D	·:·0.01·:·	D	5.0	D	· · · <0.2 · ·	<0.2			
Molybdenum	µg/L	7.0	110	420		***				1000				***			<8	(elec	***	
Nickel	μg/L	4,600	TR	28,000	TR	28,000	TR			340	D	38	D	3,016	D	<10		<10		244
Selenium	µg/L	9,000	TR	7,000	TR	7,000	TR	50	TR	20.0	TR		TR	33	TR		<3	· · · · · · · · <3 · · · · · ·		555
Silver	ug/L	107,700	TR	7,000	TR	7,000	TR			2	D		_	1.8	D	<0.1	< 0.1	<0.1		***
Thallium	μg/L	7.2	TR	112	TR	112	TR			700	D	150	D	***		<2	<2	***	***	
Zine	µg/L	69,000	TR	420,000	TR	420,000	TR	25,000	TR	85	D	86	D	806	D	<10	16	<10		-
Inorganic Non-metallics																				
Asbestos	MFL					***							***			***	***	***		
Boron	μg/L			126,000	TR	126,000	TR			***			***	****			<40	***	***	•••
Bromide	μg/L									***							<100	144	5000	***
Cyanide (free)	μg/l.	215,000	TR	28,000	TR	28,000	TR	200	TR	41	TR		TR	84	TR			***		***
Fluoride	µg∕l.	***		84,000	T	84,000	T			***			***	***	***		101	(444)		
Nitrite (as N)	μg/L			140,000		140,000	T									3228	<100	(222)	(900)	311
Nitrate (as N)	μg/L			2,240,000	T	2,240,000	T				-		***				<100 <200	***		
Nitrate + Nitrite (as N)	µg/l.		***			(***)				***	***			***			<200 <500			
Orthophosphate	µg/L.	222				1440		***				***			****		39,300	***	(200	
Silica	µg/L									100	T			100	T		39,300	(ave)	***	
Sulfide	µg/L		1		***		1				1 1			1 100	<u>.</u>		1			
Major Anions	11		Ι		1		1	***	1		1						8,300	***		
Chloride	µgЛ.								1		1				-		6,330			
Sulfate Carbonate (as CaCO ₁)	μg/L μg/L		1								-						<1000		***	***
Bicarbonate (as CaCO ₁)	µg/L																92,900	74-4	***	***
Major Cations	1,62		-		-		_		-		-	-			_					
Calcium	µg/L		1		T		T		I		Ī						20,300	•••	***	(***)
Magnesium	ug/L				-	***										7,000	4,310	***	***	***
Potassium	µg/L	***				***	1			***				***			1,800		222	228
Sodium	µg/L											45.00					18,100			(200)
Physical Properties			_																	
Alkalinity (total as CaCO ₃)	µg/L			***		***											92,900			(***)
Hardness	mg/L																68			32.42
Total Dissolved Solids	ие/L															***	161,000	***		
Total Suspended Solids	mg/L			200				***		80	T	80	T			****	<5	***		***
Color	color units			***										222		1242	<1			•••
Biologicals							_		_		_		_		_					
Coliforms (total)	MPN/100 ml			1444						***						***	110		- "	***
E. Coli	MPN/100 ml			235		576					1						7	***	***	

Collorms (total) | New Paytoon in | New Paytoon in | New Paytoon in | New Paytoon in | New Paytoon in | New Paytoon in | New Paytoon in | New Paytoon in | New Paytoon in | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon | New Paytoon

> Sample Location: Sample ID: Sample Date: Flow Rate (gpm):

DC 7.1C RESE-1001231 9/7/2005 3.06

	uents					S	urfac	e Water S	tand				1	Aquatia -	nd l			Results		
		Fish Consumpt	tion	Full-boo		Partial-b Contac		Agricultu Livestor Waterii	ck _	(w	arm v	d Wildlife water)		Aquatic a Wildlif (ephemer	e ral)	Disselved		Total Recoverable	Field	
Name	Units	2	a	2	=	2	9			Acute		Chroni		Acute		Dissolved Results	Total Results	Results	Parameters	Use Exceede
		Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	F., V.				
eld			1 1			6600		6.5-9.0	3.0	6.5-9.0		6.5-9.0	-	6.5-9.0		1000		(:	8	
pH	s.u.			6.5-9.0		6,5-9.0		6.3-9.0		0.3-9.0		0.3-7.0		0.5-5.0				144	25	***
Temperature	°C μS/cm		-													***			243	
Specific Conductance	mg/L			***			-			6		6				***		***	6.9	
Dissolved Oxygen Turbidity	NTUs		/									S							1.6	
etals			_		_											117322	a second			
Aluminum	μg/L					***						•••					<30	***	***	***
Antimony	μg/L	4,300	TR	560	TR	560	TR	***		88	D	30	D			<3	<3	<3		
Arsenic	µg/L	1,450	TR	50	TR	420	TR	200	TR	360	D	190	D	440	D	8.8	8.1	7.7		
Barium	µg/L			98,000	D	98,000	D							122		29		***	***	
Beryllium	μg/L	1,130	TR	2,800	TR	2,800	TR	***	***	65	D	5.3	D			<2	<2	<2		
Cadmium	µg/L	84	TR	700	TR	700	TR	50	TR	3.4	D	1.9	D	52	D	<0.08	<0.1	<0.2		
Chromium (total)	µg/L			100	TR	100	TR	1,000	TR							<6		<6		
Cobalt	μg/L									-							<6			
Copper	μg/L			1,300	TR	1,300	TR	500	TR	11.1	D	7.6	D	19	D	· · <10 · · ·	<10	<10		
Iron	μg/L										-	***		110			109			
Lead	μg/L			15	TR	15	TR	100	TR	51.9	D	2.0	D	110	D	<3	<3	45		
Manganese	μg/L			196,000	TR	196,000	TR										 -0.2	45		
Mercury	μg/L	0.6	TR		TR	420	TR	10	TR	2.4	D	0.01	D	5.0	D	<0.2	<0.2			
Molybdenum	μg/L			***	***	20.000		***		205				2 512	D	<10	<8	<10		100
Nickel	μg/L	4,600	TR		TR	28,000	TR		TPD.	395	D	44	D TR	3,512	TR	<10	<3	<10		
Selenium	μg/L	9,000	TR		TR	7,000	TR	50	TR	20.0	TR	2.0	1K	2.4	D	<0.1	<0.1	<0.1		y
Silver	μg/L	107,700	TR		TR	7,000	TR	***		700	D	150	D	2.4		<2	<2			
Thallium	μg/L	7.2	TR		TR	112 420,000	TR	25,000	TR	99	D	100	D	939	D	<10	<10	<10		
Zinc	μg/L	69,000	TR	420,000	LIK	420,000	IIK	23,000	11/	//	10	100	-		10					
organic Non-metallics	N (C)	100	10.20%		Prior		1		1000		I I			277						222
Asbestos	MFL			126,000	TR		TR		***		-						<40			
Boron	μg/L		1	120,000	I IX	120,000	1		-								165			
Bromide Comide (free)	μg/L μg/L	215,000	TR		TR		TR	200	TR	41	TR	9.7	TR	84	TR		0.000	***		
Cyanide (free)		213,000	III	84,000	T	84,000	T			-							209	***		•••
Fluoride Nitrite (as N)	μg/L μg/L		1	140,000	T	140,000				-							<100			***
Nitrate (as N)	μg/L			2,240,000		2,240,000	T							·			<100	•••	***	1227
Nitrate + Nitrite (as N)	μg/L										***						<200	***	***	***
Orthophosphate	μg/L											***					<500	212		***
Silica	μg/L					222						***				•••	48,300			
Sulfide	µg/L									100	T			100	T		<0001>	***		-
lajor Anions									_		_		_				0.040		1	
Chloride	μg/L							***									8,210			
Sulfate	µg/L			***										***			1,380 <1000			
Carbonate (as CaCO ₃)	μg/L								-						-	***	119,000	9	***	***
Bicarbonate (as CaCO ₃)	µg/L	/ =						***			***		-	(3-00)		22722	2.56)***			
lajor Cations			_		_		1 -						T		T		24,100			
Calcium	μg/L	***	***			244					-				1		5,280			
Magnesium	µg/L		+-						-		1		-		-		2,530		***	
Potassium	μg/L ug/l		-		-		-		-		-		1			***	18,900		•••	
Sodium	μg/L	***	1	1			1	-	1-		-		1		_	- 20				
hysical Properties Alkalinity (total as CaCO ₃)	µg/L		1.	T	1	T		77.522	T		1		1			(***)	119,000			
	mg/L		-		-								1				82			Seed
Hardness Total Dissolved Solids	µg/L		1		1				1					***		***	173,000			***
Total Suspended Solids	mg/L				1					80	Т	80	T				<5			•••
	color units																19	1944		
Color													_				Total Control			
Color Biologicals	MPN/100 ml									***		-		•••			240	***		***
Color Biologicals Coliforms (total)			-	235	1	576	1					100000000000000000000000000000000000000	10.25		1	- PETORET	7			

DC T6.6W

Sample I.ocation: DC T6.6W Sample ID: RESE-1001010 Sample Date: May 29, 2003

	Lang III	1.00	FC		FBC		PBC		AgL		Acute	A&	Chroni	c	A&We Acute		D Result	T Result	TR Result	1, 14	
		-		netion		Fraction		Fraction		Fraction	lu II û	Fraction		Fraction		Fraction	(7)		(matt)	Field	
Name		Symbol	(μg/L)	į,	(µg/L)		(µg/L)	<u>E</u>	(µg/L)	12	(µg/L)	Œ.	(µg/L)	Ξ	(µg/L)	Œ	(μg/L)	(μg/L)	(µg/L)	Parameters	Use Exceeded
eld pH		pН			6.5 to 9.0	90	4.5 to 9.0		6.5 to 9.0								222	(944)		8	•
Temperature		°C						\neg				100	JE 9/1.				111			25.4	
Specific Conductan	nce (µS/cm)	EC			•••				(1993)	- 11	***				2775					325	*
Dissolved oxygen ((mg/L)	DO					***	_			6		6					***	***	5.55	A&Ww acute, A&Ww chro
Turbidity (NTUs)		Turb.		3			***	\perp			•••	100	***			Ш	***		***	9.9	
letals		- 1	and the second		THE REAL PROPERTY.													52			0.0
Aluminum		Al Sb	4,300	TR	560	TR	560	TR		\vdash	88	D	30	D		\vdash	<3.0	<3.0	<3.0		
Antimony Arsenie		As	1,450	TR	50	TR	420	TR	200	TR	360	D	190	D	440	D	4	4	3	***	
Barium		Ba	1,450	III	98,000	D	98,000	D		110	500	1					23.8				•
Beryllium		Be	1,130	TR	2,800	TR	2.800	TR			65	D	5.3	D			<2.0	<2.0	<2.0		0.4%
Cadmium		Cd	84	TR	700	TR	700	TR	50	TR	4.9	D	2.4	D	73.7	D	<0.1	<0.1	<0.1	(ese)	
Chromium (total)		Cr			100	TR	100	TR	1,000	TR					***			****	<6.0	***	
Cobalt		Co																<6.0			
Copper		Cu		-	1,300	TR	1,300	TR	500	TR	15.1	D	9.9	D	26.1	D	<3.0	<3.0	<3.0		
Iron		Fe		-	16	TD	1.5	TD	100	TD	73.8	D	2.9	D	155.7	D	<3.0	61 <5.0	<3.0		
Lead		Pb Mn			15 196,000	TR TR	15 196,000	TR	100	TR	73.8	D	2.9	D	155.7	0	<3.0	<0.0	8.6		
Manganese Mercury		Hg	1	TR	420	TR	420	TR	10	TR	2.4	D	0.01	D	5.0	D	<0.2	<0.2			
Molybdenum		Mo		1			***					10	***		***			<8.0			*
Nickel		Ni	4,600	TR	28,000	TR	28,000	TR	1244		519.2	D	57.7	D	4,611.3	D	<10.0	1244	<10.0		•
Selenium		Se	9,000	TR	7,000	TR	7,000	TR	50	TR	20.0	TR	2.0	TR	33.0	TR	200	<6.0	<6.0	***	(4)
Silver		Λg	107,700	TR	7,000	TR	7,000	TR		Ш	4.3	D			4.3	D	<0.1	<0.1	<0.1		
Thallium		TI	7	TR	112	TR	112	TR	***	700	700.0	D	150.0	D	1 222 2	P.	<2.0		<2.0	***	
Zinc		Zn	69,000	TR	420,000	TR	420,000	TR	25,000	TR	130.0	D	131.0	D	1,233.3	D	<5.0	<5.0	<5.0	***	
lorganic Non-metal	liics		and some		to the												<200				
Asbestos (MFL) Boron		В			126,000	TR	126,000	TR		Н				100		Н	<40.0				
Cynanide (free)		CN	215,000	TR	28,000	TR	28,000	TR	200	TR	41	TR	9.7	TR	84	TR		<100		***	
Fluoride		F	213,000	III	84,000	T	84,000	T		III		1		-	***	1	420		•••		•
Nitrite (as N)		NON			140,000	T	140,000	T	10000								- 122	ND		1442	
Nitrate (as N)		NO, -N		10	2,240,000	T	2,240,000	T	(***)				***		77.5		775	ND			
Nitrate + Nitrite (a	is N)	NO, +NO, -N			***	THE	1000		(Select)		***		•••	31	***		***	ND		****	
Phosphorous		P													***	Ш	222		•••		*
Silica		SiO ₂	-		***	3	222						***				222	83,100	•••	1446	
Sulfide		***					***		***		100-	1 T	•••		100	1 T		<1,000	****		**
lajor Anions			-	_				_				_					200	7.050		1	
Chloride		Cl						\dashv			***	-	•••					7,850		121/2	
Sulfate Carbonate		SO4 CO ₃		+			***	\dashv									***	<1,000			
Bicarbonate		HCO ₁		+				\dashv			***		***				***	156,000	***		*
Tajor Cations		11001	211110000000					_				-				-					
Calcium		Ca																32,700	***	02420	7.4
Magnesium		Mg		10			***		***			100	***	8	***		255	7,700	***		*
Potassium		K									***				***		***	1,600			*
Sodium		Na																26,600			*
adionuclides				_		_		_		_		100		_							
Gross alpha activit		***			•••		***	\dashv	***	\vdash	***	30	***	-		\vdash	200	-2.7			
Gross beta activity		5222		-			52427	\dashv		\vdash				\vdash	222	\vdash		-4.3 -2	Seat Seat	***	
Radium 226+228 (Uranium (mg/L)	(pCI/L)	U		-				\dashv		\vdash		-				\vdash	- :::	ND	200		
hysical Properties		U		1		72				_				1_		_		140			
Alkalinity (total)							722		***			100		70				156,000		***	
Hardness								\vdash										113,000		***	(*)
Total dissolved sol	lids	TDS			-													258,000			
Total suspended so		TSS (mg/L)					444		•••		80	T	80	T				<5	***		*
Color (color units)) <u></u>				***						***		***	ND			
iologicals						_		_		_		-				_	-	Innn			
Coliforms (total)			***					_		\vdash		-					•••	PRESENT			*
E. Coli		(***)	Indiana		235	T	576	T	***	L				1		\vdash	_==	ABSENT			<u> </u>
1.00	es (mg/L)	Br		Т							***		***		100		<100.0	222	***		
dditions or Change Bromide		PO ₄					157761	\vdash		\vdash	-	-	-	+-		-	00.0	ND	7727	11000	
								\vdash		\vdash	***	-	***	-		-	<100.0				

Sample Location: DC T6.6W Sample ID: RESE-1001022 Sample Date: September 3, 2003

PARAMETERS AND CONSTITU	ENTS				_		_		_					1 0111	-		T I	TD		A-Access to the second
		FC		FBC		PBC		AgL		Acute	A&	Ww Chroni		A&We Acute		D Result	T Result	TR Result		
Name	Symbol	FC (μg/L)	Fraction	(μg/L)			Fraction	AgL (μg/L)	Fraction	Acute (μg/L)	Fraction	Curoni (μg/L)	Fraction	(µg/L)	Fraction	(µg/L)	(µg/L)	(µg/L)	Field Parameters	Use Exceeded
Field	-tt			6.5 to 9.0	1 151	to 9.0	Т	6.5 to 9.0			15.5		100		\neg				6.6	•
pH Temperature	pH °C			0.5 10 5.0	_		+	0.5 10 5.0		***						***	***		22.6	*
Specific Conductance (µS/cm)	EC				_		+				13		DE.	244		222	200	(4-4)	362	•
Dissolved oxygen (mg/L)	DO		4-5		_		_			6	64	6				222	212	8228	3.16	A&Ww acute, A&Ww chronic
Turbidity (NTUs)	Turb.		1	10-20-01			T			***	335	•••		***					1.1	•
Metals					12.9										_					
Aluminum	Al		1	3/15			_						3				<20.0			
Antimony	Sb	4,300	TR	560 T			TR			88	D	30	D			<3.0	<3.0	<3.0 <3.0		
Arsenie	As	1,450	TR	50 T			IR	200	TR	360	D	190	D	440	D	<3.0 32.4	<3.0	3.0		*
Barium	Ba		-	98,000 I			D		-	65	D	5.3	D			<2.0	<2.0	<2.0		
Beryllium	Be	1,130	TR	2,800 T 700 T			TR TR	50	TR	5.4	D	2.6	D	81.5	D	<0.1	<0.1	<0.1		
Cadmium	Cd	84	IK	100 T			IR	1,000	TR		10		1		-	<6.0		<6.0	200	
Chromium (total) Cobalt	Cr Co		-	100			111	1,000	110		19						<6.0			
	Cu			1,300 T	_	_	IR	500	TR	16.5	D	10.8	D	28.5	D	<3.0	<3.0	<3.0	***	
Copper Iron	Fe			1,300	_		+						10				264			•
Lead	Pb			15 T			TR	100	TR	81.6	D	3.2	D	172.1	D	<3.0	<5.0	<3.0		
Manganese	Mn			196,000 T			TR									***	77	323		*
Mercury	Hg	0.6	TR	420 T	R 4	120	TR	10	TR	2.4	D	0.01	D	5.0	D	<0.2	<0.2	***	***	
Molybdenum	Mo		100					***									8.8		***	*
Nickel	Ni	4,600	TR	mojece -			TR	***		561.7	D	62.4	D	4,988.3	D			<10.0		*
Selenium	Se	9,000	TR	7,000 T			TR	50	TR	20.0	TR		TR	33.0	TR	-0.1	<15.0	<15.0 <0.1	***	*
Silver	Ag	107,700	TR				TR		_	5.0 700.0	D	150.0	D	5.0	D	<0.1	<0.1			*
Thallium	71	7.2	TR				TR	22.000	TR		D	141.8	D		D	<5.0	<5.0	<5.0	222	*
Zinc	Zn	69,000	TR	420,000 T	R 420	0,000	IK	25,000	IR	140.0	ID	141.0	1 D	1,334.3	D	1.00	1.0	~		
Inorganic Non-metallics			T		_		1	222	_									***		*
Asbestos (MFL) Boron	В			126,000 T			TR		\vdash				300				<40.0			*
Cvanide (free)	CN	215,000	TR	28,000 T			TR	200	TR	41	TR	9.7	TR	84	TR				222	*
Fluoride	F		1				T	344								420	<10.0	***		*
Nitrite (as N)	NO,-N			140,000	T 140	0,000	T	100			9	***		***		***	ND	***	***	*
Nitrate (as N)	NO ₃ -N	***		2,240,000	T 2,24	40,000	T				1						ND		***	
Nitrate + Nitrite (as N)	NO, +NO, -N		18			***			_								ND			*
Phosphorous	P			***	_		4		\vdash	***				***		***	93,300	277		*
Silica	SiO ₂		-		_		-		-		T		-	100	Т		· <1,000·			*
Sulfide				-					1	100-1-	1			100-	1		1. ~1,400.			
Major Anions			1		_	1	т	***	1		Т	T	1	(***)			7,960			*
Chloride	Cl SO4		+		_		+		-					***			11,600	1000		*
Sulfate Carbonate	CO ₁						1				1			122			<1,000		***	•
Bicarbonate	HCO ₁					***	┪				T		1			(Alaka	164,000			*
Major Cations		Section 1		Maria de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya del companya de la companya del companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de l					2	*										
Calcium	Ca		I	- 4		[19						(444)	36,100	5		:
Magnesium	Mg							•••				•••					8,270	1444	***	- :
Potassium	K	***	100	***		***		•••	1	***					-		1,800		***	
Sodium	Na							***							\perp		26,800			
Radionuclides						-	-		ř	Turning Service		1 - 50	_		г		T	1244		
Gross alpha activity (pCi/L)			-		_	***	-		╀	***	-				t					
Gross beta activity (pCi/L)			-				\dashv		+		-		-		\vdash					
Radium 226+228 (pCi/L)	U		-		_		\dashv		+		-		-	***	t				***	
Uranium (mg/L) Physical Properties	0		1_				_		_		-		-							
Alkalinity (total)			1			T	1		Т		1						164,000		1282	
Hardness	2.2						\neg							***		***	124,000			
Total dissolved solids	TDS				3	-22									L	***	200,000	***	1775	•
Total suspended solids	TSS (mg/L)	***								80	T	80	T	***		***	<5	***	7-4-5	
Color (color units)						***		***							_		10		5445	*
Biologicals	02				11007				_		_		_				Inproces		_	
Coliforms (total)			-				J	1000	-		-		+	***	-		PRESENT		(222)	
E. Coli			1	235	T	576	T		1_		1	S	_		_		LKESENI	1	1	
Additions or Changes (mg/L)	1	1	1	1			_		_	100.405	100	1	T		1	120	T	T		
Bromide	Br PO ₄		+				\dashv	***	╆		-		-	***	1		ND			•
Orthophosphate	101	***							_	105	_	1011128018	_		1_		A10.5%	-	-	

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DC T6.6W RESE-1001033 11/4/2003 1.5

Units S.U. °C µS/cm mg/L NTUs	Fish Consumpt Parepuration	Fraction noit	Full-box Contac	t	Partial-be Contac		Agricult	ural	Agua	Sec. Sec.									
s.u °C μS/cm mg/L	Standard		dard				Livesto	ck			d Wildlife water)	-	Aquatic a Wildlif (ephemer	e ral)			Tulb	Phild	
s.u °C μS/cm mg/L		Fraction	dard	The state of		689	Wateri	ng	Acut	e	Chroni	ic	Acute	Z	Dissolved Results	Total Results	Total Recoverable Results	Field Parameters	Use Exceeded
°C µS/cm mg/L		124	ğ	raction	tandard	raction	tandard	raction	tandard	Fraction	Standard	raction	Standard	Fraction	Acsums				
°C µS/cm mg/L			- 0	-	- 00	100	92	-											
μS/cm mg/L	ASSOCIATION IN		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0			2007		6.8	344
mg/L									***				•••		***			18	444
						***			***		***	***	***			(1444)	(me)	412 0.73	A&WwwA & A&Ww
NTUs	•••						•••		- 6		6							1.3	AC WWWA CE ACCUM
11101			***	***		***		***	***		***	(555)	-						
					_		080			1 1						<20			
µg/L	1.200	TR	560	TR	560	TR			88	D	30	D			<3	<3	<3	S 2442	
µg/L	4,300							TR						D			5	5225	500
	1,430														36	3444	***		222
	1 130	-					220		65	D	5.3	D	19444		<2	<2	<2	255	
					700		50	TR	1.5	D	1.1	D	23	D	<0.1	<0.1	<0.1	***	***
			100	TR	100	TR	1,000	TR	1700		-				<6		<6		522
		444			***		122				***	•••			***	<6		- 222	
μg/L			1,300	TR	1,300	TR	500	TR	5.5	D	4.0	D	10	D	<3	<3		***	***
μg/L	li terre				•••		777												
μg/L			15	TR	15	TR	100	TR	22.7	D	0:9	D						200	***
μg/L			196,000	TR	196,000	TR								_	12.564				
μg/l.	0.6	TR	420	TR	420	TR		TR		D		D		D	-				***
µg/L								***	210					1;;					***
μg/L								-											
								iR				1K					7 7 7 7 7 7 7 7 7 7 7		***
												D							(444)
								TR					497		<5	<5	<5		1 411 8
μgL	07,000	IIN	420,000	in	720,000		22,000	1 214											
VICI		1	SCHOOL S	T		II		T		1			-42		1000			***	
		1				TR			10.00		Charles Co. Co.				_	<40	***	***	•••
		1	120,000												_	280			***
		TR	28 000	TR		TR	200	TR	41	TR	9.7	TR	84	TR	5555		***		
				T	84,000	T									-	500	***		
			140,000	T	140,000	T			***							<100			•••
	11/		2,240,000	T	2,240,000	T	***		-		-								***
	(F) (F)						***		***	I			***		***			_	
			***		***						***				***				
μg/L	· · ·		***		-														***
μg/L			***				•••		100	· 1	***		100	11		· · · ×100A · · ·			
		_		1000			-	1	The section of				F	1		9 260		I	-
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> Sample Location: Sample ID: Sample Date: Flow Rate (gpm):

DC T6.6W RESE-1001064 2/18/2004 0.96

Parameters and Constit	uents					Sı	ırfac	e Water S	tand	lards								Results		
Name	Units	Fish Consumpt	ion	Full-boo Contac		Partial-bo Contac	ody	Agricultu Livestoc Waterir	ral k	Aquat	arm	d Wildlife water) Chroni		Aquatic : Wildlif (epheme Acute	fe ral)	Dissolved Results	Total Results	Total Recoverable Results	Field Parameters	Use Exceeded
		Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction					
Field					_		_		_		_				_	-			7.1	(See
рН	s.u.	U) ***		6.5-9.0		6.5-9.0	***	6.5-9.0		6.5-9.0	***	6.5-9.0		6.5-9.0					16	722
Temperature	°C				***							V9.440//							155	***
Specific Conductance	μS/cm	•••								6		6						***	6.3	***
Dissolved Oxygen	mg/L NTUs												-			S	***	•••	0.79	
Turbidity Metals	NIOS				Name of						10000									Tall (pro-
Aluminum	μg/L			(7							20			
Antimony	μg/L	4,300	TR	560	TR	560	TR			88	D	30	D	***			< 0.3			
Arsenic	μg/L	1,450	TR	50	TR	420	TR	200	TR	360	D	190	D	440	D	-	4.3	-		
Barium	μg/L	- II		98,000	D	98,000	D	-								-				***
Beryllium	μg/L	1.130	TR	2,800	TR	2,800	TR			65	D	5.3	D	•••		***	<0.2			100
Cadmium	μg/L	84	TR	700	TR	700	TR	50	TR	4.2	D	2.2	D	64	D		<0.1			
Chromium (total)	μg/L			100	TR	100	TR	1,000	TR			-					<0.7			500
Cobalt	μg/L							***						22	D		<0.7			
Copper	μg/L	***		1,300	TR	1,300	TR	500	TR	13.3	D	8.9	D	23	D		128			
Iron	μg/L					16	TR	100	TR	63.9	D	2.5	D	135	D		<1			1239
Lead	μg/L	10		15	TR	15		100	IK	63.9	U	2.5	U	155	- D			-		***
Manganese	µg/L		770	196,000	TR	196,000	TR	10	TR	2.4	D	0.01	D	5.0	D		<0.2	-		***
Mercury	μg/L	0.6	TR	420	TR	420	IK		11	2.4	-			2.0			5.4		222	122
Molybdenum	µg/L	4,600	TR	28,000	TR	28,000	TR			465	D	52	D	4,127	D			_		***
Nickel	μg/L	9,000	TR	7,000	TR	7,000	TR	50	TR	20.0	TR	2,0	TR	33	TR	122	<0.8			***
Selenium Silver	μg/L μg/L	107,700	TR	7,000	TR	7,000	TR			3	D	***		3.4	D		<0.1			222
Thallium	μg/L μg/L	7.2	TR	112	TR	112	TR			700	D	150	D			-	<0.4			
Zinc	µg/L	69,000	TR	420,000	TR		TR	25,000	TR	116	D	117	D	1.104	D	-	<0.2	_		
Inorganic Non-metallics													_							
Asbestos	MFL											70.44		***		***		•••		
Boron	μg/L			126,000	TR	126,000	TR						***				<7	244	***	
Bromide	μg/L	77 24						***	***							- 75	127		220	
Cyanide (free)	μg/L	215,000	TR	28,000	TR	28,000	TR	200	TR	41	TR	9.7	TR	84	TR		407	***		
Fluoride	μg/L			84,000	T	84,000	T	•••	***								<100			
Nitrite (as N)	μg/L			140,000	T	140,000	T	***									<100			
Nitrate (as N)	µg/L			2,240,000	T	2,240,000	T				-		-				<100			***
Nitrate + Nitrite (as N)	µg/L				-		-				-		1				<500			***
Orthophosphate	µg/L		-								1					***	-			
Silica Sulfide	μg/L μg/L									100	T			::.100:-	T		<1000	24		(***)
Major Anions	P9-2	- market					_			- Interested							115-15-5			
Chloride	µg/L		T					222								***	7,410	***	•••	
Sulfate	µg/L					***		***				***					5,180		***	***
Carbonate (as CaCO ₃)	µg/L			-								-				-	<1000			
Bicarbonate (as CaCO ₃)	μg/L			2.2												***	147,000			
Major Cations				-			_		_				_	_	-	-	20,000		T	
Calcium	µg/L			•••				***			***						29,000 6,480			
Magnesium	μg/L				-						-						1,210		***	
Potassium	μg/L		-								-		1				25,900			
Sodium Discission Proposition	μg/L		1				1						-		1	10000				
Physical Properties Alkalinity (total as CaCO ₃)	ne/l		1		T	T	T		T	()	1	-	1				147,000			•••
	µg/L mg/L		1		-		-		1		1						99			(200)
Hardness Total Dissolved Solids	mg/L μg/L		1		-		1						1			***	235,000	10000		***
Total Suspended Solids	mg/L			76						80	T	80	T				<5			
Color	color units										ļ						10		- C	•••
Biologicals				-	_															
Coliforms (total)	MPN/100 ml	***															50 13			
											·									

Notes:

The standard units of the standard standards correspond to apply to site location.

Su = standard units of the standard units of the standards correspond to apply to site location.

Su = standard units of the standards units of the standards correspond to minima, therefore values less than the requirements are highlighted. Arizona state Dissolved Oxygen and pH)

Arizona state Dissolved Oxygen standards correspond to minima, therefore values less than the requirements are highlighted.

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DC T6.6W RESE-1001074 5/5/2004 0.5

Parameters and Constitu	uents					S	urfac	e Water S	tand	ards								Results		
		Fish		Full-bo		Partial-b	ody	Agricultu	ıral	Aqua		d Wildlife water)		Aquatic Wildli (ephemo	fe					
Name	Units	Consumpt	ion	Contac	ct	Contac	t .	Waterin		Acuto	\dashv	Chron		Acut	e	Dissolved Results	Total Results	Total Recoverable Results	Field Parameters	Use Exceeded
	-	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction					
field									_	6500		(500		6.5-9.0				1222	7.6	***
pH	s.u. °C			6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		0.3-9.0			***		18	
Temperature Specific Conductance	μS/cm	***										***							318	
Dissolved Oxygen	mg/L									6		6		9550			1244		5.7	A&WwwA & A&Ww
Turbidity	NTUs	***								10 6							1,000	0242	0.24	***
letals			_	-	1							VITA SALES					25		***	
Aluminum	μg/L.	4,300	TR	560	TR	560	TR			88	D	30	D	8440		<3	<3	<3	***	
Antimony Arsenie	μg/L. μg/L	1,450	TR	50	TR	420	TR	200	TR	360	D	190	D	440	D	<3	ব	<3	19200	***
Barium	μg/L.	10/22/20		98,000	D	98,000	D	***	***	***	***					30				
Beryllium	µg/L	1,130	TR	2,800	TR	2,800	TR			65	D	5.3	D			<2	<2 <0.1	<2 <0.1	***	
Cadmium	µg/L	84	TR	700	TR	700 100	TR	1,000	TR TR	4.6	D	2.4	D	69	D	<0.1	×0.1	<6	144	***
Chromium (total)	μg/L ug/L			100	TR		1K	1,000									<6		7,550	S
Cobalt Copper	μg/L μg/L			1,300	TR	1,300	TR	500	TR	14.3	D	9.5	D	25	D	<3	<3	<3		-
Iron	μg/L	•••															277			
1.ead	μg/L	***		15	TR	15	TR	100	TR	69.5	D	2:7	D	147	D	≼3	<3	<3 110		
Manganese	μg/L ug/l	0.6	TR	196,000 420	TR	196,000 420	TR TR	10	TR	2.4	D	·:· 0.01·:	D	5.0	D	<0.2	<0.2			
Mercury Molybdenum	μg/L μg/L	0.6		420		420						. 0.02 .		2.2		Page 1	<8		***	***
Nickel	µg/L	4,600	TR		TR	28,000	TR			496	D	55	D	4,403	D	<10		<10	***	***
Selenium	μg/L	9,000	TR	7,000	TR	7,000	TR	50	TR	20.0	TR	2.6	TR	33	TR		<6	<0.1	- 111	
Silver	μg/L	107,700	TR		TR	7,000	TR	***		700	D	150	D	3.9	D	<0.1	<0.1	<0.1		
Thallium Zine	μg/L μg/L	7.2 69,000	TR	112 420,000	TR		TR	25,000	TR	700 124	D	125	D	1,178	D	<5	<5	<5		
Inorganic Non-metallics	руг.	07,000	110	420,000	111	120,000		22,000												
Asbestos	MFL							900		***		***				***				***
Boron	µg/L			126,000	TR	126,000	TR										<40	***		***
Bromide	μg/L			20,000	TD	20,000		200	TR	41	TR	9.7	TR	84	TR		<100 <10		- 111	
Cyanide (free) Fluoride	μg/L μg/L	215,000	TR	28,000 84,000	TR	28,000 84,000	TR	200		41		9.1				-	300	•••		
Nitrite (as N)	μg/L			140,000	T	140,000	Ť									244	<100	***		2000
Nitrate (as N)	μg/L			2,240,000	T	2.240,000	T	***						200			<100	100		***
Nitrate + Nitrite (as N)	μg/L									***							<100 <500			***
Orthophosphate	μg/L												-		1	***	89,800	***		1999
Silica Sulfide	μg/L μg/L		1							100	T			- 100	T :	***	∴∴<1000°	***	***	8***5
Major Anions											_		_		_					
Chloride	μg/l.									***		***		***			7,800 4,390			
Sulfate	μg/1.				-	***											<1000			•••
Carbonate (as CaCO ₃) Bicarbonate (as CaCO ₃)	μg/L μg/L							***						244			162,000	***	222	3-65
Major Cations													_							
Calcium	μg/L				-			32225						***			31,200		***	***
Magnesium	μg/L	***		•••					***								7,000 1,200			
Potassium Sodium	µg/L µg/L							***									26,400		1	(4.2)
Physical Properties	her	1			_				_		-									
Alkalinity (total as CaCO ₃)	µgЛ.																162,000	***		S##*S
Hardness	mg/L	***													+	707	107 228,000			(
Total Dissolved Solids	µg/L me/l						-			80	T	80	T				<5	***		
Total Suspended Solids Color	mg/L color units		1		1						i		ļ			244	<			***
Biologicals			-		_		_		_						_	-	1 1 400			T
	MPN/100 ml					576		***				•••				***	1,600	***		
Coliforms (total) E. Coli	MPN/100 ml	***		235				***		-		***				***	<2	***		

DC T6.6W RESE-1001155 8/19/2004

Parameters and Constit	uents			7		Si	urfac	e Water S	tanc	lards								Results		
Name	Units	Fish Consumpt	ion	Full-boo		Partial-be Contac		Agricultu Livestos Waterii	k		arm	d Wildlife water) Chron		Aquatic a Wildlif (ephemer Acute	e ral)	Dissolved Results	Total Results	Total Recoverable Results	Field Parameters	Use Exceeded
		Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction					
Field					_		_		_		_		7000						7.1	500
pH	s.u.			6.5-9.0	***	6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		100		***	22	
Temperature	°C	***		•••	***	***		***		•••				1505				***	224	12.2
Specific Conductance	μS/cm	***				***		***				***	****						1.6	A&WwwA & A&Www
Dissolved Oxygen	mg/L			•••			•••				295 2000	- 0		***					0.16	
Turbidity	NTUs			****							***	-	***					17050		
Metals										III III III III III III III III III II							<20			241
Aluminum	µg/L			***		***	***					20	D			<3	<3	<3		
Antimony	μg/L.	4,300	TR	560	TR	560	TR	***		88	D	30 190	D	440	D		3	<3	***	***
Arsenic	μg/L	1,450	TR	50	TR	420	TR	200	TR	360	D	190	D	440		26				***
Barium	μg/L		***	98,000	D	98,000	D				D	5.3	D			<2	<2	<2		
Beryllium	μg/l.	1,130	TR	2,800	TR	2,800	TR	50	TR	65 5.1	D	2.5	D	77	D	<0.1	<0.1	<0.1		
Cadmium	μg/l.	84	TR	700	TR	700	TR	50			U		D		10	<6		<6	***	
Chromium (total)	μg/L			100	TR	100	TR	1,000	TR				-				<6			•••
Cobalt	μg/1.					***	***	***					D	27	D	<3	<3	<3		3.00
Copper	μg/l.		***	1,300	TR	1,300	TR	500	TR	15.7	D	10.3	D		0		88			
Iron	µgЛ.						777		_	77.0	1	3.0	D	163	D	<3	<3	<3		
Lead	µg/L	***		15	TR	15	TR	100	TR	77.3	D	3.0	D	103	10			20	***	***
Manganese	µg/L			196,000	TR	196,000	TR	***		2.4	D	· : 0.01 · :	D	5.0	D		<0.2			1242
Mercury	µg/L	0.6	TR	420	TR	420	TR	10	TR		-		U		D		<8			
Molybdenum	µg/L					***				520	D	60	D	4,783	D	<10		<10	***	
Nickel	µg/L	4,600	TR	28,000	TR	28,000	TR	***		539	TR		TR		TR		<6	<15	***	***
Selenium	µg/L	9,000	TR	7,000	TR	7,000	TR	50	TR	20.0	D	2.0	110	4.6	D		<0.1	<0.1		2441
Silver	µg/L	107,700	TR	7,000	TR	7,000	TR		***	700	D	150	D	4.0	D	<2	<2			222
Thallium	μg/L	7,2	TR	112	TR	112 420,000	TR	25,000	TR	135	D	136	D		D		8.4	8.8		
Zinc	µg/L	69,000	TR	420,000	TR	420,000	III	23,000	IK	133	D	130	10	1,272	10	1.0				
Inorganic Non-metallics			1						_		1	Name of the Owner of	1000		T	T				
Asbestos	MFL			***	TR	126,000	TR	***		***	-					-	<40			
Boron	µg/L			126,000	-	120,000								200	-		110		***	
Bromide	μg/L	215,000	TD	28,000	TR	28,000	TR	200	TR	41	TR	9.7	TR	84	TR					(***)
Cyanide (free)	μg/L	215,000	TR			84,000	T	200	IK		IIK		110		111		410		445	
Fluoride	µg/L		***	84,000	T	140,000	T	_			-						<100			9229
Nitrite (as N)	µg/L			2.240,000	T	2.240,000	T			11/22	1				1		<100			
Nitrate (as N)	µg/L	••			1 .	2.240,000	1 '			//	1			0.0			<200	244		***
Nitrate + Nitrite (as N)	µg/L		****								1		1		1		<500	222	222	544
Orthophosphate	µg/L			***							1		1		1		92,000			
Silica	µg/L		-		1			1		100	T			100	T	0.000.000	∵∵≺1000∵∵			
Sulfide	μg/L						_		_	1			-		_			*		
Major Anions	ue#		1	·			Ī		-		1		T		T		10,200		223	(2.2)
Chloride	µg/L				1		۱	***	1		1		-		1		17,400	***		
Sulfate Carbonate (as CaCO ₃)	μg/L μg/L																<1000		***	***
Bicarbonate (as CaCO ₃)	μg/L μg/L												1	***	1		166,000			1522
Major Cations	here		1		-		_		_		_		_							
	uc4	. St	1		T						T			***	T		34,300	***		
Calcium	μg/L	***	1		1		1		1		-		1				7,790		***	
Magnesium	μg/L μg/L		1		1		1		1				-		1		1,500	144		***
Potassium	μg/L μg/L		1			***							-				28,000	***	***	
Sodium Physical Properties	hp1.		-		-		-			1										
Alkalinity (total as CaCO ₃)	µg∕1.		1		T		ļ		T						1		166,000			***
	mg/L			100	1		1		1				-		1		118		***	***
Hardness Tatal Disselved Solids			+				1		1		1		-		1		305,000			(444)
Total Dissolved Solids	μg/L. ma/L	7	1		1		1		1	80	T	80	T		1		<5			7/478
Total Suspended Solids Color	mg/L color units		-		1.	122	1				1:		1.				<1	1		
	color units		1		1	1	_		_		_		-	-	-					
Biologicals California (tatal)	MDN/100		1		1		T	T	T		1		T		T		240			(888)
Coliforms (total) E. Coli	MPN/100 ml MPN/100 ml		1	235	-		1				1				1		<2	22		344
	I WILLY TOO III		1	233	1	370	1		1	-	1	-	_	-	-		-			

| Colifornis (total) | MPN/100 ml | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |

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	luents					S	urfac	e Water S	tand	ards	JI,			- Control				Results		
		Fish Consump	tion	Full-boo		Partial-b Contac		Agriculti Livesto	ck			d Wildlife water)		Aquatic Wildli (epheme	fe					
Name	Units						\dashv	Wateri		Acut	\vdash	Chron		Acute		Dissolved Results	Total Results	Total Recoverable Results	Field Parameters	Use Exceeded
		Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standar	Fraction	X my (s)		16		
ield		-	_						_		_	1200		6.5-9.0					7.2	
pH	S.U.	***		6.5-9.0	***	6.5-9.0		6.5-9.0		6.5-9.0	-	6.5-9.0		6.5-9.0			****		18	
Temperature Specific Conductance	°C µS/cm													***					179	
Dissolved Oxygen	mg/L									6		6				2	9440	***	4.7	A&WwwA & A&Wv
Turbidity	NTUs															***		(***)	0.99	***
letals																		1333		
Aluminum	µg/L									***		***					<20		***	
Antimony	µg/L	4,300	TR	560	TR	560	TR			88	D	30	D	440		<3	<3	<3		
Arsenic	µg/L	1,450	TR	50	TR	420	TR	200	TR	360	D	190	D	440	D	<3 26				
Barium	µg/L	1,130	TR	98,000	D TR	98,000 2,800	D TR			65	D	5.3	D	i ete		<2	<2	<2	1999	
Beryllium Cadmium	μg/L μg/L	84	TR	700	TR	700	TR	50	TR	4.6	D	2.4	D	69	D	<0.1	<0.1	<0.1		***
Chromium (total)	μg/L			100	TR	100	TR	1,000	TR							<6		<6	***	***
Cobalt	μg/L									***				***			<6			
Copper	µg/L	***		1,300	TR	1,300	TR	500	TR	14.3	D	9.5	D	25	D	<3	<3	<3	(2000)	
Iron	μg/L									M				***	1::		134		***	•••
Lead	μg/Ι.		***	15	TR	15	TR	100	TR	69.5	D	2:7	D	147	D	∵.<3∵.	ব	<3 70		***
Manganese	μg/L		7777	196,000	TR	196,000	TR	10	TD	2.4	D	·:·b.bi·:	D	5.0	D	· · · <0.2 · · ·	<0.2	- 10 		
Mercury	μg/L.	0.6	TR	420	TR	420	TR	10	TR	2.4			0	5.0			<8			
Molybdenum Niekel	μg/L.	4,600	TR	28,000	TR	28,000	TR			496	D	55	D	4,403	D	<10		<10	1944	200
Selenium	μg/l. μg/l.	9,000	TR	7,000	TR	7,000	TR	50	TR	20.0	TR	2.6	TR	33	TR		<15	·····<15·····	-	535
Silver	μg/1.	107,700	TR	7,000	TR	7,000	TR	100		4	D	***		3.9	D	<0.1	<0.1	<0.1	1777	
Thallium	μg/L	7.2	TR	112	TR	112	TR			700	D	150	D			<2	<2		***	
Zinc	µg/L	69,000	TR	420,000	TR	420,000	TR	25,000	TR	124	D	125	D	1,178	D	<5	6	<5	***	
norganic Non-metallics																		***		
Asbestos	MFL			126,000	70	126,000	TD			***	***					(444)	<40	***		
Boron	µg/L	***		126,000	TR	126,000	TR								1		<100			
Bromide Cyanide (free)	μg/L μg/L	215,000	TR	28,000	TR	28,000	TR	200	TR	41	TR	9.7	TR	84	TR				1922	
Fluoride	µg/L µg/L	215,000		84,000	T	84,000	T	200						***		_	440	***		
Nitrite (as N)	идЛ.	***		140,000	T	140,000	T	Şin_				(V		****		12.22	<100	***	3995	
Nitrate (as N)	µg/L			2,240,000	T	2,240,000	T	555						•••		2220	<100	[200]		
Nitrate + Nitrite (as N)	μе∕Т							***		***		7/4 				***	<200	***	***	
Orthophosphate	με⁄L							222		***		***		***		***	<500	2444		
Silica	με/L							- 222		100-:	T			100	· T	***	89,900 			

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	nts					S	urfac	e Water S	tanda	ards				182				Res	ults	
100 100 100 100 100 100 100 100 100 100		Fish Consumpt	ion	Full-bod Contact		Partial-be		Agricultu Livestor Waterii	ek _	(11	arm	d Wildlife water)		Aquatic a Wildlife (ephemer	e al)	Di atau		T-6-I Deservanible	Field	
Name	Units							watern	'g	Acute		Chroni	c	Acute		Dissolved Results	Total Results	Total Recoverable Results	Parameters	Use Exceeded
		Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction					
Field																			7.6	
pH	s.u.	-		6.5-9.0		6.5-9.0		6.5-9.0	-	6.5-9.0		6.5-9.0		6.5-9.0				•••	7.5	***
Temperature Specific Conductance	°C μS/cm							***						22.0				-	101	
Dissolved Oxygen	mg/L								-	6		6						1.00	12	1922.01
Turbidity	NTUs					***		(***)	***	***									1.5	
Metals																Curro.	325		_	
Aluminum Antimony	μg/L.	4,300	TR	560	TR	560	TR			88	D	30	D			<3	<3	<3	***	
Arsenic	μg/L μg/L	1,450	TR		TR	420	TR	200	TR	360	D	190	D	440	D	<3	<3	<3		
Barium	µg/L			98,000	D	98,000	D							***	-	17				(<u>198</u>)
Beryllium	µg/L	1,130	TR		TR	2,800	TR			65	D	5.3	D			<2	<2	<2 <0.2		
Cadmium	μg/l.	84	TR	700	TR	700	TR	50	TR	1.2	D	1.0	D	19	D	<0.2	<0.2	<6		
Chromium (total)	μg/L ug/L			100	TR	100	TR	1,000	TR								<6			
Cobalt Copper	μg/L μg/L				TR	1,300	TR	500	TR -	4:6	D	3.4	D.	8.0	D	∵.<10∵∵	<10	<10		7 <u>22</u> 2
Iron	µg/L																146	-	***	***
Lead	µg/L				TR	15	TR	100	TR	18.4	D	0.7	D	39	D	· · <3 · · ·	<3	<3 <4		
Manganese	ug/L		TR		TR	196,000 420	TR TR	10	TR	2.4	D		D	5.0	D	· · · <0.2· · ·	<0.2			
Mercury Molybdenum	μg/L μg/L	0.6	IK	420	711	420	1K			4.9			_		<u></u>		<8			-
Nickel	µg/L	4,600	TR	28,000	TR	28,000	TR	-		180	D	20	D	1,594	D	<10		<10		19 113 8
Selenium	μg/L	9,000	TR	7,000	TR	7,000	TR	50	TR	20.0	TR	2.0	TR	33	TR		<3	<	•••	
Silver	μg/L	107,700	TR	7,000	TR	7,000	TR	••••		0	D	110	D	0.5	D	<0.1	<0.1	<0.1		9440
Thallium	µg/L	7.2 69,000	TR		TR	112 420,000	TR TR	25,000	TR	700	D	150 45	D	426	D	<10	<10	<10		70.00
Zine Inorganic Non-metallics	µg/L	67,000	IIX	420,000	110	420,000	110	25,000		- 12	10		1							
Asbestos	MFL		-											2	-			(***)	***	3.000
Boron	μg/L	-		126,000	TR	126,000	TR	***		Lauren Va							<40			
Bromide	μg/l.	***		20,000	TD	20.000	770	200			TR	9.7	TR	84	TR		<100			222
Cyanide (free)	μg/L uz/I	215,000	TR	28,000 84,000	TR	28,000 84,000	TR	200	TR	41	IK	9.1		0+			125	-	***	
Fluoride Nitrite (as N)	μg/L μg/L			140,000	T	140,000	T		_							222	<100	***		District Control
Nitrate (as N)	µg/L			2,240,000	T	2,240,000	T	(994)	***			***					<100	1440		***
Nitrate + Nitrite (as N)	μg/L	1		7/4		-				10=E			-				<200			-
Orthophosphate	μg/L			-			***	222						•••			<500 31,500			
Silica Sulfide	μg/L μg/L									· 100 ·	T		_	1001.	T	522	· . · .<1000. · · ·		5 	-
Major Anions	PBII		2000	- Backer																
Chloride	µg/L	***	-	***		(eee)		***				***		***			3,260			
Sulfate	μg/L						***										19,200 <1000			
Carbonate (as CaCO ₃) Bicarbonate (as CaCO ₃)	μg/L μg/L			***										-			23,400	***		_
Major Cations	1511				200						_									
Calcium	µg/L		-			***				11000				***		***	8,970		***	
Magnesium	µg/L					-										***	2,370 1,380			***
Potassium	µg/L			***											-		6,780			***
Sodium Physical Properties	µg/L	***		-	377								1							
Alkalinity (total as CaCO ₃)	μg/L							***		•••	I	***		***		***	23,400		***	252
Hardness	mg/L					***						***					32	-	***	
Total Dissolved Solids	μg/L	-			-				-					222		5200	68,000 <5	2-4 1201		
Total Suspended Solids	mg/L							***		80	T	80	T		-		10			***
Color G Biologicals	color units				1	88770	1				1		35.00				.,,		2111	
	IPN/100 ml		T		T									200		***	300			
	(PN/100 ml			235		576										***	8			

DC T6.6W RESE-1001214 5/17/2005 0.5

	tuents					S	urfac	e Water S	tanc	lards								Results		
		Fish		Full-bo		Partial-b		Agricultu Livestos	k			d Wildlif water)	,	Aquatic Wildli (epheme	fe					
Name	Units	Consumpt		Contac		Contac	:1	Waterin	5.1	Acute		Chron		Acute		Dissolved Results	Total Results	Total Recoverable Results	Field Parameters	Use Exceeded
		Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction				1144	
ield				(:00		((0 0		6500		6500		6.5-9.0	Teste	6.5-9.0	Land				7.3	
pH	s.u. °C			6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		0.3-9.0	***	0.3-9.0			***		18	
Temperature	μS/cm	222								***	-			•••					303	522
Specific Conductance Dissolved Oxygen	mg/L					220				6		6					***		2.4	A&WwwA & A&W
Turbidity	NTUs							222				***				•••	(***)	(***	0.51	
letals																				
Aluminum	μg/L	***			***	***											41			
Antimony	µg/L	4,300	TR	560	TR	560	TR			88	D	30	D	110	D	<3 4.8	<3 5	<3 4.9		
Arsenie	µg/L	1,450	TR	50	TR	420 98,000	TR D	200	TR	360	D	190	D	440		25	9223			***
Barium	μg/L	1,130	TR	98,000 2,800	TR	2,800	TR			65	D	5.3	D			<2	<2	<2		
Beryllium Cadmium	µg∕L µg∕L	84	TR	700	TR	700	TR	50	TR	4.5	D	2.3	D	68	D	<0.2	<0.2	<0.2		
Chromium (total)	ug/L			100	TR	100	TR	1,000	TR	***				244		<6	(444)	<6	(***)	***
Cobalt	µg/L													744			<6	(444)	•••	
Copper	µg/L			1,300	TR	1,300	TR	500	TR	14.1	D	9.3	D	24	D	- 11	<10	<10		A&WwwC
Iron	µg/L									***		***		144			403		- "	
Lead	µg/L			15	TR	15	TR	100	TR	68.1	D	· · · · 2:7· · ·	D	144	D	∵∴<3∵∴	<3	<3 152		***
Manganese	µg/L		770	196,000	TR	196,000	TR	10	TD	2.4	D	·:·b.bt·:	D	5.0	D	<0.2	<0.2	152		
Mercury	μg/L	0.6	TR	420	TR	420	TR	10	TR	2.4	D	0.01.	D	5.0		. · . · su.z · . ·	<8			
Molybdenum	µg/L	4,600	TR	28,000	TR	28,000	TR			488	D	54	D	4,334	D	<10		<10		***
Nickel Selenium	μg/L μg/L	9,000	TR	7,000	TR	7,000	TR	50	TR	20.0	TR	2.6	TR	33	TR		<3	·····×3·····		
Silver	µg/L	107,700	TR	7,000	TR	7,000	TR			4	D			3.8	D	<0.1	<0.1	<0.1	- 000	(200
Thallium	µg/L	7.2	TR	112	TR	112	TR	200		700	D	150	D	***		<2	<2	-10		
Zinc	μg/L	69,000	TR		TR	420,000	TR	25,000	TR	122	D	123	D	1,159	D	<10	17	<10		
norganic Non-metallics				TIPS!	_		_		_	The second	120	Suntaine					200			***
Asbestos	MFL			126,000	77	126,000	770	***						***	1		<40			
Boron	μg/L ug/l			126,000	TR	126,000	TR						-	***	1		<100			***
Bromide Cyanida (frae)	μg/L ug/L	215,000	TR	28,000	TR	28,000	TR	200	TR	41	TR	9.7	TR	84	TR			***		(***)
Cyanide (free) Fluoride	μg/L μg/L	213,000		84,000	T	84,000	T				1				1		249			1946)
Nitrite (as N)	μg/L			140,000		140,000	T			***	ļ		-				<100	***		1999
Nitrate (as N)	µg∕l.	1		2,240,000		2,240,000	T										<100	***		
Nitrate + Nitrite (as N)	μg/1.																<200	***		(***)
Orthophosphate	μgЛ.					***		***		***		***			1		<500		222	
Silica	μg/l.				-					100.	 T			100	· T	***	86,200 			

> Sample Location: Sample ID: Sample Date: Flow Rate (gpm):

DC T6.6W RESE-1001232 9/7/2005 none

	uents		-		-	S	urfac	e Water S	stand			0000000000	-	Aquatic	and I			Results		
		Fish Consump	tion	Full-bo		Partial-b		Agricult	ck			d Wildlife water)	ė	Wildli (epheme	fe					
Name	Units			U.A. Section				Wateri	ng	Acut	e	Chron	ie	Acute	e	Dissolved Results	Total Results	Total Recoverable Results	Field Parameters	Use Exceeded
		Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction					
ield												(100	Т	65.00					6.8	***
pH Tt	s.u. °C			6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0					24	
Temperature Specific Conductance	μS/cm															222	***	222	298	242
Dissolved Oxygen	mg/L	***				***		***		6		6							2.7	A&WwwA & A&Ww
Turbidity	NTUs		1			***		•••		(4) *** (1	***						5775	1000	0.39	
letals															_					
Aluminum	μg/L	-															72	<3		
Antimony	μg/L.	4,300	TR	560	TR	560	TR TR	200	TR	88 360	D	30 190	D	440	D	<3 4.8	<3 4.6	4.2		
Arsenie	μg/L μg/L	1,450	TR	98,000	TR D	420 98,000	D					190		440		31				
Barium Beryllium	µg/L	1,130	TR	2,800	TR	2.800	TR			65	D	5.3	D	***		<2	<2	<2	(444)	***
Cadmium	µg/L	84	TR	700	TR	700	TR	50	TR	4.3	D	2.2	D	65	D	<0.08	<0.1	<0.2	222	935
Chromium (total)	μg/L			100	TR	100	TR	1,000	TR	***				***		<6		<6		
Cobalt	μg/L			0 0				***						22			<6	<10		
Copper	μg/L			1,300	TR	1,300	TR	500	TR	13.4	D	8.9	D	23	D	·::<10:-:	<10 90	<10		
Iron	µg/L ug/l			15	TR	15	TR	100	TR	64.5	D	· · · · · · · · · · · · · · · · · · ·	. D	136	D	∵:<3∵∴	<3	<3		
Lead Manganese	μg/L μg/L			196,000	TR	196,000	TR							150				19		
Mercury	µg/L	0.6	TR	420	TR	420	TR	10	TR	2.4	D	·: b.bi ·:	D	5.0	D	<0.2	<0.2	(Internal Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of C		
Molybdenum	μg/L		***			***		***		***							<8			128
Nickel	µg/L	4,600	TR	28,000	TR	28,000	TR	***		468	D	52	D	4,155	D	<10		<10		
Selenium	μg/L	9,000	TR	7,000	TR	7,000	TR	50	TR	20.0	TR	2.6	TR	33	TR		<3	≺3	***	203
Silver	µg/L	107,700	TR	7,000	TR	7,000	TR			700	D	150	D	3.4	D	<0.1	<0.1	<0.1		222
Thallium	μg/L μg/l.	7.2 69,000	TR	420,000	TR	112 420,000	TR	25,000	TR	700 117	D	118	D	1,111	D	<2 <10	<10	<10		
Zinc norganic Non-metallics	με/1.	07,000	IIK	420,000	1 111	720,000	III	22,000	1.10	.11	10	.10	10		1					
Asbestos	MFL		1		T	I				***	1			***		944	444	***	(300)	
Boron	µg/L			126,000	TR	126,000	TR	***		•••							<40	100	1200	242
Bromide	µg/L					***				***			-	***			113			
Cyanide (free)	µg/L	215,000	TR	28,000	TR	28,000	TR	200	TR	41	TR	9.7	TR	84	TR	***	200	***		***
Fluoride	µg/L	***		84,000	T	84,000	T			***							370 <100		100	111
Nitrite (as N)	µg/L			140,000	T	140,000	T			***			-	***			<100			
Nitrate (as N)	µg/L			2,240,000	T	2,240,000	T										<200			
Nitrate + Nitrite (as N) Orthophosphate	μg/L μg/L															5	<500	(22)		***
Silica	μg/L					***										-57550	85,300	100	5222	***
Sulfide	με∕L	***		•••	***	()		***		100	. T			100	T	1225	<1000		722	
Major Anions			_		_		_							Total Control	1		7.500			
Chloride	μg/L		***	***		300				•••							7,560 7,400			
Sulfate Carbonate (as CaCO ₃)	µg/L ug/L					***		***									<1000			
Bicarbonate (as CaCO ₃)	μg/l. μg/L					***										****	142,000	1557	(444)	***
Major Cations							_		-											
Calcium	μg/L					***		***								***	29,000		***	
Magnesium	μgЛ					(***)		***						***		***	6,700	***		***
Potassium	μg/L					1		242								***	1,640 25,000	(***		
Sodium	μg/L	•••							1	***	1	•••	1		1		20,000	(377)		2000
Physical Properties Alkalinity (total as CaCO ₃)	μg/L		T		1	T	T			***	T		1	T	T		142,000		T	
Hardness	mg/L	244	1		1			1994	1					***			100	***		(***)
Total Dissolved Solids	µg/L									0						***	239,000	202		***
Total Suspended Solids	mg/L					0.000		200		80	T	80	T				<5	0.22		2000
Color	color units					***			1	***		-			1		10			2805
	1 mx 1/		1		_		Total I	-			1	2.075.02	1	8100	Total	· · · ·	220		T	
Biologicals Coliforms (total)	MPN/100 ml MPN/100 ml	***	***	235			***	•••		***			***				2			***

DC 6.1E

> Sample Location: Sample ID: Sample Date: Flow Rate (gpm):

DC 6.1E RESE-1001077 5/20/2004 2

	uents					S	urfac	e Water S	Stand	ards					\Box	K P I		Results		
		Fish Consumpt	ion	Full-boo		Partial-b Contac		Agriculti Livesto Wateri	ck	(11	arm v	d Wildlife water)		Aquatic a Wildlif (epheme)	e al)	Dissolved		Total Recoverable	Field	
Name	Units	tandard	raction	standard	Fraction	tandard	raction	tandard	raction a	Acute	raction	Chron	Fraction	Acute	raction	Results	Total Results	Results	Parameters	Use Exceeded
		Stano	Frac	Stano	Frac	Stand	Frac	Stan	Frac	Stan	Frac	Stan	Frac	Stan	Frac	i w				
ield																			0.5 T	
рН	s.u.			6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0			(3444) (0000)	222	8.2 21	
Temperature	°C					•••	-												297	
Specific Conductance	μS/cm									6		6					***		8	
Dissolved Oxygen	mg/L NTUs																	-22	0.6	***
Turbidity	NIUS	-	-				-		13200											
Aluminum	μg/L					222											<20	***	(FEE)	
Antimony	μg/L	4,300	TR	560	TR	560	TR	-		88	D	30	D			<3	<3	ব	***	
Arsenic	μg/L	1,450	TR	50	TR	420	TR	200	TR	360	D	190	D	440	D	<3	<3	<3		-24
Barium	μg/L			98,000	D	98,000	D					•••				18		**	***	***
Beryllium	μg/L	1,130	TR	2,800	TR	2,800	TR	-		65	D	5.3	D			<2	<2	<2	(222)	***
Cadmium	μg/L	84	TR	700	TR	700	TR	50	TR	4.5	D	2.3	D	68	D	<0.1	<0.1	<0.1		
Chromium (total)	μg/L			100	TR	100	TR	1,000	TR				***			<6		<6		
Cobalt	μg/L		-														<6			
Copper	μg/L			1,300	TR	1,300	TR	500	TR	14.1	D	9,3	D	24	D	<3	<3 <20	<3		
Iron	μg/L			16	TD	15	TD	100	TD	68.1	D	··· 2.7 · ·	D	144	D		<3	<3		
Lead	μg/L	•••		15	TR	15 196,000	TR TR	100	TR	08.1	, J			144			7	<2		12227
Manganese	µg/L	0.6	TR	196,000 420	TR	420	TR	10	TR	2,4	D	. 0.01	D	5.0	D	<0.2	<0.2		***	
Mercury Molybdenum	µg/L µg/L	0.6	IK.	420	IIK	420	110			2,4		. Q.Q1, ·					<8		-	***
Nickel	μg/L ug/L	4,600	TR	28,000	TR	28,000	TR			488	D	54	D	4,334	D	<10		<10		
Selenium	μg/L μg/L	9,000	TR	7,000	TR	7,000	TR	50	TR	20.0	TR	2.0	TR	33	TR		<3	::::::::::::::::::::::::::::::::::::::	***	
Silver	μg/L	107,700	TR	7,000	TR	7,000	TR			4	D		***	3.8	D	<0.1	<0.1	<0.1	***	***
Thallium	μg/L	7.2	TR	112	TR	112	TR	***		700	D	150	D			<2	<2			
Zinc	μg/L	69,000	TR	420,000	TR	420,000	TR	25,000	TR	122	D	123	D	1,159	D	<5	<5	<5	***	
norganic Non-metallics																				
Asbestos	MFL	***	***			***								***		***			***	***
Boron	µg/L			126,000	TR	126,000	TR					11				(***)	<40			****
Bromide	µg/L	-															110			(644)
Cyanide (free)	μg/L	215,000	TR	28,000	TR	28,000	TR	200	TR	41	TR	9.7	TR	84	TR	***	<10		***	
Fluoride	µg/L			84,000	T	84,000	T				***						310 <100			
Nitrite (as N)	μg/L			140,000	T	140,000	T										650			7
Nitrate (as N)	μg/L			2.240,000	T	2,240,000	T										650			***
Nitrate + Nitrite (as N)	μg/L									-										
Orthophosphate	μg/L												-				72,300			5
Silica Sulfide	μg/L μg/L									100	Т			100	Т		<1900			
Iajor Anions	руц												-							
Chloride	μg/L											W 1		***			4,780			
Sulfate	μg/L	-		W										***			7,810			
Carbonate (as CaCO ₃)	μg/L															***	<1000	***		•••
Bicarbonate (as CaCO ₃)	μg/L	•••		•••					***	-						***	148,000	***		()***(
lajor Cations							_						_		_					
Calcium	μg/L	***												****			33,600	3-47		(***)
Magnesium	μg/L								****	-							5,100			
Potassium	μg/L												-		***		1,100 22,200			
Sodium	µg/L	***									***						22,200			5550
Physical Properties	ue a	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1000	Total State of	1000	pava	1				1		1		I		148,000			
Alkalinity (total as CaCO ₃)	μg/L				1-						1.		1		-		105			
Hardness Total Dissolved Solids	mg/L		-		-				-		-						234,000			
Total Dissolved Solids Total Suspended Solids	μg/L me/L		-		1					80	Т	80	T			***	<5	***	1555	
Color Color	mg/L color units		1-						-								<1	(***)		(***
Biologicals					-	•	_	-	-		-		_							Verman - Trans
	MPN/100 ml	***					244	***				***		***		***	4			
Coliforms (total)	MPN/100 ml		1000	235	1 1-1-	576	100		1000	The second is							<2			

Golder Associates

DC 6.1E RESE-1001159 8/23/2004 0.8

Parameters and Constit	uents		and the same	0000		Si	urfac	e Water S	Stand	lards								Results		
Name	Units	Fish Consump	tion	Full-bo		Partial-be Contac		Agricultu Livestos Waterii	ck		arm	d Wildlife water) Chroni	c	Aquatic a Wildlif (ephemer Acute	e ral)	Dissolved Results	Total Results	Total Recoverable Results	Field Parameters	Use Exceeded
		Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Kesans				
Field																				-
pH	s.u.	•••		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0					8	***
Temperature	°C			-												***		•••	22	(***
Specific Conductance	μS/cm	1/15				***			***			***	***	***				***	296 7.6	***
Dissolved Oxygen	mg/L	***		•••	***	***		***		6		6		***					0.01	
Turbidity	NTUs													()					0.01	
Metals							_		_		_	-					<20			
Aluminum	μg/L													***			<3	<3		
Antimony	μg/L	4,300	TR	560	TR	560	TR			88	D	30	D			<3		্ব		
Arsenic	μg/L	1,450	TR	50	TR	420	TR	200	TR	360	D	190	D	440	D	<3 18	<3			
Barium	μg/L			98,000	D	98,000	D				D	5.3	D			<2	<2	<2		
Beryllium	μg/L	1,130	TR	2,800	TR	2,800	TR			65	D		D	67	D	<0.1	<0.1	<0.1		***
Cadmium	µg/L	84	TR	700	TR	700	TR	50	TR	4.4		2.3	ט			<6		<6		22
Chromium (total)	μg/L			100	TR	100	TR	1,000	TR		***				1		<6			
Cobalt	μg/L				TT	1.200	TR	500	TR	13.8	D	9.2	D	24	D	<3	<3	<3		***
Copper	μg/L	-		1,300	TR	1,300	IK	500	IK	13.8	U	9.2	D	24	-		<20			
Iron	μg/L				777	15	TR	100	TR	66.7	D	5.6	D	141	D	· · · <3· · ·	<3	<3		775
Lead	μg/L			15	TR	15	TR	100	IK	66.7	U	2.0	v	141	10			<2		***
Manganese	μg/L		тр	196,000	TR		-	-	TR	2.4	D	0.01	D	5.0	D	<0.2	<0.2	-		
Mercury	μg/L	0.6	TR	420	TR	420	TR	10	IR	2.4		0.01.		5.0	-		<8			575
Molybdenum	μg/L	1.000	770	28,000	TR	28,000	TR			480	D	53	D	4,264	D	<10		<10		
Nickel	μg/L	4,600 9,000	TR	7,000	TR	7,000	TR	50	TR	20.0	TR	:: 2.0 : :	TR		TR		<3	<3		
Selenium	μg/L		TR		TR	7,000	TR		IK	4	D			3.6	D	<0.1	<0.1	<0.1		
Silver	μg/L	7.2	TR		TR	112	TR		-	700	D	150	D			<2	<2			
Thallium Zinc	μg/L μg/L	69,000	TR		TR		TR		TR		D	121	D	1,140	D	<5	<5	<5		
Inorganic Non-metallics	μуъ	07,000	III	120,000	1	120,000		30,000								104				
Asbestos	MFL		T		T															
Boron	μg/L		1	126,000	TR	126,000	TR										<40			4.5
Bromide	μg/L		1	120,000	1												<100	***	***	
Cvanide (free)	μg/L	215,000	TR		TR		TR	200	TR		TR	9.7	TR	84	TR		7		***	
Fluoride (Iree)	μg/L	215,000	1	84,000	T	84,000	T										310			
Nitrite (as N)	μg/L		1	140,000	T	140,000	T										<100	***	(4,440)	
Nitrate (as N)	µg/L		-	2.240,000	T	2,240,000	T	\.									520			***
Nitrate + Nitrite (as N)	µg/L											***					520	***	***	
Orthophosphate	µg/L																<500			
Silica	μg/L			***	1			i									69,800	1.00	***	
Sulfide	µg/L					***				100	T			:-:100:-:	T	277	<1000		7227	
Major Anions																				CONTRACT OF
Chloride	µg/L									***							4,970			***
Sulfate	µg/L	544 T									-		-				7,840			
Carbonate (as CaCO ₃)	μg/L													***			<1000			
Bicarbonate (as CaCO ₃)	μg/L	***					***										153,000		***	
Major Cations									_		_		_		_					
Calcium	μg/L																33,100			
Magnesium	μg/L							***									5,040	114	***	(****)
Potassium	μg/L			***				***		87							1000		***	***
Sodium	μg/L																21,100			
Physical Properties							_		_		_		_		-		157.000		T	
Alkalinity (total as CaCO ₃)	μg/L										-			***		***	153,000			
Hardness	mg/L											***			***	***	103			
Total Dissolved Solids	μg/L	***															226,000			
Total Suspended Solids	mg/L									80	T	80	T				<5 <1			
Color	color units		-									***	1				, s1			
Biologicals			_				_		-				1	1	-		11		T	
Coliforms (total)	MPN/100 ml										***		1	***			11 <2			
E. Coli	MPN/100 ml			235		576	1		1			***	1				~4			

DC 6.1E RESE-1001177 11/18/2004

	ituents	LIGILI				S	urfac	e Water S	tand	ards				1				Results		
		Fish Consumpt	lon	Full-bo Conta-		Partial-b	oay	Agricult Livesto	ck			d Wildlife water)		Aquatic Wildli (epheme	fe	7 THE				
Name	Units	Consump		Conta		Court		Wateri	ng	Acute		Chron	ie	Acute		Dissolved Results	Total Results	Total Recoverable Results	Field Parameters	Use Exceeded
		Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction					
eld				6500		6500		6.5-9.0	2848	6.5-9.0		6.5-9.0		6.5-9.0		-44			8.1	
pH Temperature	s.u. °C			6.5-9.0		6.5-9.0		0.3-9.0		0.3-9.0		0.3-7.0				1222			18	***
Specific Conductance	μS/cm	-1.2	***	•••					***	***									274	A&WwwA & A&W
Dissolved Oxygen	mg/L									6		6				***	•••	***	1.1	Accumulate Accu
Turbidity etals	NTUs		••••	***	***															
Aluminum	μgЛ.													3770			<30		340	944
Antimony	μgЛ.	4,300	TR	560	TR	560	TR			88	D	30	D	***		<3	<3	<3		
Arsenic	μgЛ.	1,450	TR	50	TR	420	TR	200	TR	360	D	190	D	440	D	<3 18	<3 	<3		
Barium	µg/L	1,130	TR	98,000 2,800	TR	98,000 2,800	D TR			65	D	5.3	D			<2	<2	<2		533
Beryllium Cadmium	µg/l. µg/l.	84	TR	700	TR	700	TR	50	TR	4.5	D	2.3	D	68	D	<0.1	<0.1	<0.1		222
Chromium (total)	ид/L			100	TR	100	TR	1,000	TR	797		***				<6	***	<6	(***)	***
Cobalt	μg/L	***		***													<6	 10		
Copper	μg/L			1,300	TR	1,300	TR	500	TR	14.1	D	9.3	D	24	D	<10 ···	<10 <60	<10		
Iron Lead	μg/L μg/L			15	TR	15	TR	100	TR	68.1	D	··· 2:7···	 D	144	D	∵ ⊲:∵	<3	<3	***	
Manganese	μg/L μg/L			196,000	TR	196,000	TR			3						2.0		<4	****	
Mercury	µg/L	0.6	TR	420	TR	420	TR	10	TR	2.4	D	0.01	D	5.0	D	<0.2	<0.2			944
Molybdenum	µg/L			20,000		20.000		***		100		5.1	 D	4.334	D	<10	<8	<10		
Nickel	µg/L	4,600 9,000	TR		TR	28,000 7,000	TR TR	50	TR	488 20.0	D TR	54	TR	33	TR	<10	<3	∴×3		
Selenium Silver	µg/L µg/L	107,700	TR	7,000	TR	7,000	TR			4	D			3.8	D	<0.1	<0.1	<0.1		100
Thallium	μg/L	7.2	TR	112	TR	112	TR			700	D	150	D	***		<2	<2			2
Zinc	μg/L	69,000	TR	420,000	TR	420,000	TR	25,000	TR	122	D	123	D	1,159	D	<10	<10	<10		
norganic Non-metallics	1 100				1			77			11		T		1					***
Asbestos	MFL µg/L			126,000	TR	126,000	TR									-	<40			
Bromide	µg/L													***		-	<100	***		
Cyanide (free)	µg/L	215,000	TR		TR	28,000	TR	200	TR	41	TR	9.7	TR	84	TR			***	***	***
Fluoride	µg/L			84,000	T	84,000	T			***		•••					320 <100			***
Nitrite (as N)	µg/L			2,240,000		2,240,000	T										510			
Nitrate (as N) Nitrate + Nitrite (as N)	µg/L µg/L			2,240,000	1	2.240.00	1							122		***	510	***	***	•••
Orthophosphate	µg/L	7/4				***				***						***	<500			
Silica	µg/L					12		***								***	67,000			
Sulfide	μg/l.			***				***	***	100	T	***		100	T	•••	1.1.51000			
Tajor Anions Chloride	µд∕Т.		T		1		T		1		1	W	T		1-		4,970			
Sulfate	µg/L				-									***		***	7,660		- 255	2
Carbonate (as CaCO ₃)	µg/L															***	<1000 132,000	***		
Bicarbonate (as CaCO ₃)	μg/L			-										200		***	132,000		_=	
lajor Cations		Thursday, and	T		T	T	T		1		1	***	1		T		33,700		100	100
Calcium Magnesium	µg/L µg/L													***	***		5,090	***		
Potassium	μg/L																1,100	***	544	
Sodium	μg/L							***			***	•••					22,400			
hysical Properties		Tonas en la	1 5000	1	1		Total						1		T	I	132,000		T	
Alkalinity (total as CaCO ₃)	μg/l. mg/l.		1		-						-		1		1		105	244		1444
Hardness Total Dissolved Solids	µg/L		1		1		1										226,000			***
Total Suspended Solids	mg/L	***		***		222		***		80	T	80	T				<5			
	color units	1/1			1			***					1		1		<l< td=""><td></td><td>1———</td><td>I</td></l<>		1———	I
Color	MPN/100 m				1	T	T.		1		1		T		T		<2			***
Color Biologicals Coliforms (total)		***		235		576	-		1		1		-		1		<2	2		

> Sample Location: Sample ID: Sample Date: Flow Rate (gpm):

DC 6.1E RESE-1001199 2/28/2005

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		Fish Consumpt	ion	Full-boo		Partial-be		Agricultu	k			l Wildlife vater)		Aquatic a Wildlif (epheme)	e ral)				Fig. 3	
Name	Units	Consump	ion	Contac		Contac		Wateri	ıg	Acute		Chron	ic	Acute		Dissolved Results	Total Results	Total Recoverable Results	Field Parameters	Use Exceeded
		Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction					
eld															_				7.8	
pH	\$.u.			6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0					19	
Temperature	°C																		374	***
Specific Conductance	µS/cm	•••								6		6						***		
Dissolved Oxygen	mg/L																		0.39	
Turbidity	NTUs	***		•••				-					-		_					
letals	μg/L		I I		2.2												<30			
Aluminum Antimony	μg/L μg/L	4,300	TR	560	TR	560	TR			88	D	30	D	200		<3	<3	<3		
Arsenic	μg/L	1,450	TR	50	TR	420	TR	200	TR	360	D	190	D	440	D	<3	<3	<3		
Barium	μg/L			98,000	D	98,000	D					***				23	•••			
Beryllium	μg/L	1.130	TR	2,800	TR	2,800	TR			65	D	5.3	D			<2	<2	<2		
Cadmium	μg/L	84	TR	700	TR	700	TR	50	TR	5.9	D	2.8	D	89	D	<0.2	<0.2	<0.2		***
Chromium (total)	μg/L	***		100	TR	100	TR	1,000	TR	***				***		<6		<6		
Cobalt	μg/L									114	-						<6	-10		
Copper	μg/L			1,300	TR	1,300	TR	500	TR	17.8	D	11.6	D	31	D	<10	<10	<10	***	
Iron	μg/L	•••				***				***				***			<60	<3		
Lead	µg/L			15	TR	15	TR	100	TR	89.4	D	3.5	D	189	D	<3	<3	4		
Manganese	μg∕L			196,000	TR	196,000	TR					0.01			P	-0.2	<0,2			
Mercury	μg/L	0.6	TR	420	TR	420	TR	10	TR	2.4	D	0.01	D	5.0	D	<0.2	<8			
Molybdenum	μg/L					***		***				67			D	<10		<10		
Nickel	μg/L	4,600	TR	28,000	TR	28,000	TR	50		604	D	2.0	D TR	5,360	TR	<10	<3	<3		
Selenium	µg/L	9,000	TR	7,000	TR	7,000	TR	50	TR	6	TR D	2.0	IK	5.8	D	<0.1	<0.1	<0.1		
Silver	µg/L	107,700	TR	7,000	TR	7,000	TR		-	700	D	150	D	3.8		<2	<2			
Thallium	μg/L	7.2	TR	112 420,000	TR	112 420,000	TR		TR	151	D	152	D	1,434	D	<10	<10	<10		
Zinc	μg∕L	69,000	IIK	420,000	Lik	420,000	IIN	20,000	-11	101	-									
norganic Non-metallics) (F)	minibut Sex	1		1	T		7000170			I		T					444		
Asbestos	MFL			126,000	TR	126,000	TR							2000		_	<40		1440	
Boron	µg/L			120,000		120,000								***			<100	***		
Bromide	μg/L	215,000	TR	28,000	TR		TR	200	TR	41	TR	9.7	TR	84	TR	J.			1000	
Cyanide (free) Fluoride	µg/L µg/L	215,000		84,000	T	84,000	T									-	230	#		
	μg/L μg/L			140,000	T	140,000	T	14.									<100		***	
Nitrite (as N) Nitrate (as N)	μg/L		1	2,240,000		2,240,000	T										1,500	-		3 222 3
Nitrate + Nitrite (as N)	µg/L		-		1		1	(***									1,500			***
Orthophosphate	µg/L	:			1												<500	***	***	
Silica	µg/L									***		***					70,300		***	***
Sulfide	μg/L									100	T			100	T	***	<1000			(***)
Major Anions		-											_		-					
Chloride	μg/L															***	6,560			
Sulfate	µg/L							***								***	31,500 <1000			
Carbonate (as CaCO ₃)	μg/L		-								=						145,000			
Bicarbonate (as CaCO ₃)	µg/L	W									-		1				143,000		4500	
Major Cations		-	-					To the same		Same Division				5000	Torri		43,800			
Calcium	µg/L		-										-		1		6,280			
Magnesium	μg/L		***		-				***				1		+=		1,130			(***)
Potassium	µg/L				+=		-		=								22,900			1000
Sodium	μg/L		1		1		1		1		1.00		1		-					VIII.EEILE
Physical Properties	1 11-0					I	T-		T		T		T		T		145,000			
Alkalinity (total as CaCO ₃)	μg/L mo/L				-				-		-						135	1888		
Hardness Total Disselved Solids	mg/L				+=		1							7222			275,000	***	***	
Total Dissolved Solids	μg/L me/L		-							80	Т	80	Т				<5	•••		
Total Suspended Solids Color	mg/L color units				1		1						1				<1			
	I solvi mints	100000000000000000000000000000000000000	1000		_	-		-								200			7	and the second second
Biologicals	MPN/100 ml	1	1	***	1				I	***			1				8			
Biologicals Coliforms (total)																				

> Sample Location: Sample ID: Sample Date: Flow Rate (gpm):

DC 6.1E RESE-1001217 5/24/2005 0.5

	luents	12		JXX		S	urfac	e Water	Stand	ards					_			Results		
		Fish Consumpt	tion	Full-boo		Partial-b Contac		Agriculti Livesto Wateri	ck	(W	arm v	l Wildlife vater)		Aquatic a Wildlif (ephemer	e al)	Dissalvas		Total Recoverable	Field	
Name	Units							7507000	"g	Acute	-	Chroni	c	Acute		Dissolved Results	Total Results	Results	Parameters	Use Exceeded
		Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction					
ield	and the second					(100		(5 0 0		6.5-9.0		6.5-9.0		6,5-9.0					8	
pH Temperature	s.u. °C			6.5-9.0		6.5-9.0		6.5-9.0		0.3-7.0		0.5-7.0		0,5-7.0		***		***	21	25551
Specific Conductance	µS/cm					(****)										***			300	***
Dissolved Oxygen	mg/L					***				6		6		***					N/A	
Turbidity	NTUs									-				***		***			12	
letals			_				_		_						_		<30			
Aluminum	µg/L			***		***	770	***		88	D	30	 D			<3	<3	<3		
Antimony	μg/L	4,300 1,450	TR TR	560 50	TR	560 420	TR TR	200	TR	360	D	190	D	440	D	<3	<3	3		:
Arsenic Barium	μg/L μg/L	1,430		98,000	D	98,000	D							****		20				
Beryllium	μg/L	1,130	TR	2,800	TR	2,800	TR			65	D	5,3	D			<2	<2	<2		•••
Cadmium	μg/L	84	TR	700	TR	700	TR	50	TR	4.6	D	2.4	D	70	D	<0.2	<0.2	<0.2		***
Chromium (total)	μg/L			100	TR	100	TR	1,000	TR	•••		-				<6		<6		
Cobalt	μg/L										=			25			<6	<10		
Copper	μg/L			1,300	TR	1,300	TR	500	TR	14.4	D	9,6	D	25	D	<10	<10 <60	<10		
Iron	µg/L	***		15	TD	15	TR	100	TR	70.2	D	2.7	D	148	D	<3	<3	<3		•••
Lead	µg/L			15 196,000	TR	196,000	TR	100	7.1	10.2		2.1		140				4		***
Manganese Mercury	μg/L μg/L	0.6	TR	420	TR	420	TR	10	TR	2.4	D	0.01	D	5.0	D	<0.2	<0.2			
Molybdenum	μg/L μg/L				-			-								***	<8			
Nickel	µg/L	4,600	TR	28,000	TR	28,000	TR	***		500	D	56	D	4,438	D	<10	7444	<10		
Selenium	μg/L	9,000	TR	7,000	TR	7,000	TR	50	TR	20.0	TR	2.0	TR	33	TR		<3	<3	222	
Silver	µg/L	107,700	TR		TR		TR			4	D	140		3.9	D	<0.1	<0.1	<0.1		
Thallium	μg/L	7.2	TR		TR		TR	25,000	TR	700 125	D	150 126	D	1,187		<10	<2 <10	<10		***
Zinc	μg/L	69,000	TR	420,000	TR	420,000	IR	23,000	IK	123	D	120	D	1,107	0	-10				
norganic Non-metallics	MFL		T		T		T		I									***	162	
Asbestos Boron	μg/L			126,000	TR		TR										<40		222	112
Bromide	µg/L		1			122		-						***			102	-		
Cyanide (free)	µg/L	215,000	TR	28,000	TR	28,000	TR	200	TR	41	TR	9.7	TR	84	TR		-	***	***	***
Fluoride	µg/L			84,000	T	84,000	Т					***				***	272			
Nitrite (as N)	μg/L			140,000	T	140,000	T	•		-							<100	5,000		
Nitrate (as N)	μg/L			2,240,000	T	2,240,000	T	**									770 770			
Nitrate + Nitrite (as N)	µg/L				***						-						<500			
Orthophosphate	μg/L													-			69,200	1,000		
Silica Sulfide	μg/L μg/L					***				100	Т			100	Т		. : . <1000			***
lajor Anions	15-				10000															
Chloride	μg/L	***															5,530			***
Sulfate	μg/L																13,000 <1000			
Carbonate (as CaCO ₃)	μg/L						-										140,000			
Bicarbonate (as CaCO ₃)	μg/L			***			1		1		7.0		200		_					
Major Cations	ug/I		T		1_	T	T		1		I	1572			T		34,900			
Calcium Magnesium	μg/L μg/L																5,020			•••
Potassium	µg/L											700					1,050	122		
Sodium	μg/L												-			***	21,100	**		
Physical Properties			_		$\overline{}$	(majes	_						_				1 110 000	100		- Scoot
Alkalinity (total as CaCO ₃)	μg/L					***											140,000			
Hardness	mg/L								***		-						108 240,000			
Total Dissolved Solids	µg/L								-	80	T	80	T				<5			
Total Suspended Solids Color	mg/L color units	-	1-								1						<1			
Biologicals	voier units				_		_		_		_		_							
Coliforms (total)	MPN/100 ml				J				I					***			<2			
	MPN/100 ml			235		576		***									<2			

DC 6.1E RESE-1001230 8/23/2005 none

	ituents			-		S	urfac	e Water	stand				-	Aquatic a	and I			Results		
		Fish Consumpt	tion	Full-bo		Partial-b Contac		Agriculti Livesto Wateri	ck .		arm	d Wildlife water) Chron		Wildlif (ephemer	e ral)	Dissolved	Total Results	Total Recoverable	Field	Use Exceeded
Name	Units	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Results	Total Results	Results	Parameters	
eld							_							-				H	г т	
pH	s.u.			6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		***			25	
Temperature	°C																***		302	
Specific Conductance Dissolved Oxygen	μS/cm mg/L					***				6		6	12.5						6.3	Calan
Turbidity	NTUs									E 0						***		-	164	
letals																				
Aluminum	µg/L					***											<30			•••
Antimony	µg/L	4,300	TR	560	TR	560	TR			88	D	30	D			<3	<3	<3		
Arsenic	μg/L	1,450	TR	50	TR	420	TR	200	TR	360	D	190	D	440	D	<3	<3	<3		
Barium	µg/L			98,000	D	98,000	D	***							***	19	<2	<2		
Beryllium	µg/L	1,130	TR	2,800	TR	2,800	TR	50	TR	65 4.8	D D	5.3	D	73	D	<0.2	<0.1	<0.2		
Chromium (total)	μg/L	84	TR	700 100	TR	700 100	TR	1,000	TR	4.8		2.4				<6		<6		***
Chromium (total) Cobalt	µg/L µg/L		-	100	IK.	100	1K	1,000	1R								<6			
Copper	µg/L µg/L			1,300	TR	1,300	TR	500	TR	15.0	D	9.9	D	26	D	···<10···	<10	<10		***
Iron	μg/L				-					100							<60	7222		
Lead	μg/L	T 1		15	TR	15	TR	100	TR	73.0	D	2.8	D	154	D	⊲	<3	ব		20.2
Manganese	μg/L			196,000	TR	196,000	TR	-	***			***					(-44)	4		
Mercury	µg/L	0.6	TR	420	TR	420	TR	10	TR	2.4	D	0.01	D	5.0	D	<0.2	<0.2			2-2-
Molybdenum	µg/L							-									<8			
Nickel	μg/L	4,600	TR	28,000	TR	28,000	TR			515	D	57	D	4,577	D	<10		<10		
Selenium	μg/L	9,000	TR	7,000	TR	7,000	TR	50	TR	20.0	TR	2.0	TR	33	TR		<0.1	<0.1		
Silver	μg/L	107,700	TR	7,000	TR		TR			4	D	150		4.2	D	<0.1	<0.1	<0.1 		***
Thallium	µg/L	7.2	TR	112 420,000	TR	112 420,000	TR	25,000	TR	700 129	D	150	D	1,224	D	<10	<10	<10		***
Zinc	μg/L	69,000	IR	420,000	11	420,000	IK	23,000	IK	127	I D	150	10	1,227	D	-110	-10		-	
norganic Non-metallics Asbestos	MFL		1				T	***					I			***		***		
Boron	μg/L			126,000	TR	126,000	TR										<40			***
Bromide	µg/L																<100			
Cyanide (free)	μg/L	215,000	TR	28,000	TR	28,000	TR	200	TR	41	TR	9.7	TR	84	TR	***		***	***	
Fluoride	µg/L			84,000	T	84,000	T										295			
Nitrite (as N)	µg/L			140,000	T	140,000	T					-		555			<100			
Nitrate (as N)	μg/L			2,240,000	T	2,240,000	T							***			700			
Nitrate + Nitrite (as N)	μg/L					***										- 111	700			***
Orthophosphate	µg/L			***				***									<500 72,700			
Silica	μg/L									100	T			100	T		<1000	***		
Sulfide Iajor Anions	μg/L		1		100				Carre				_		-					
Chloride	µg/L				T		1						I				5,200			
Sulfate	µg/L															55.0	10,200			
Carbonate (as CaCO ₁)	µg/L			***		***		***		-		-					<1000		122	
Bicarbonate (as CaCO ₃)	μg/L			***		***		***	***					***		***	142,000			
lajor Cations					_						_		_		_			7		
Calcium	µg/L					(***										***	36,200			
Magnesium	μg/L					1222										575	5,360			
Potassium	µg/L			***			1						-		-		1,130 22,500			
Sodium	µg/L	***					1						1		1		1 11,000			
hysical Properties Alkalinity (total as CaCO ₃)	пол		140		1		T		1		I	***	T		T		142,000			
Hardness	μg/L mg/L		1		1		1						-				112			
Total Dissolved Solids	µg/L		-				1				1						220,000			**-
Total Suspended Solids	mg/L			***						80	Т	80	Т			222	<5			***
Color	color units																<1			***
iologicals							_				-				_	_				-
Coliforms (total)	MPN/100 ml							***		-							8			4-4
E. Coli	MPN/100 ml			235		576				***	1			***	1	•••	<2			***

DC 5.5C

DC 5.5C RESE-1001039 11/10/2003 21,6

Parameters and Constit	uents					St	ırfac	e Water S	Stanc	lards								Results		
Name	Units	Fish Consumpt	ion	Full-bod Contac		Partial-bo Contac		Agricultu Livestos Waterii	ck			d Wildlife water) Chroni	c	Aquatic a Wildlife (ephemer Acute	e al)	Dissolved Results	Total Results	Total Recoverable Results	Field Parameters	Use Exceeded
		Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction					
ield							_				_		_		_				7.4	(900)
pH	s.u.	•••		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		***			16	
Temperature	°C																		341	
Specific Conductance	μS/cm	•••							•••			***	•••	***					8	
Dissolved Oxygen	mg/L	***			***			***		6		6							0.55	
Turbidity	NTUs	***							***			***	•••					0.0000	0,00	
letals			_		_		_										<20		I I	
Aluminum	μg/L													•••			<3	<3		
Antimony	µg/L	4,300	TR	560	TR	560	TR		***	88	D	30	D			<3	4	4		
Arsenic	μg/L	1.450	TR	50	TR	420	TR	200	TR	360	D	190	D	440	D	4	- 4		200	
Barium	μg/L	-		98,000	D	98,000	D									41 <2	<2	<2		***
Beryllium	μg/L	1.130	TR		TR	2,800	TR			65	D	5.3	D				<0.1	<0.1		
Cadmium	μg/L	84	TR		TR	700	TR		TR	7.1	D	3.2	D	107	D	<0.1	<0.1	<6		222
Chromium (total)	µg/L			100	TR	100	TR	1,000	TR		•••						<6			
Cobalt	μg/L											10.4		26	D.		<3	<3		
Copper	μg/L			1,300	TR	1,300	TR	500	TR	20.9	D	13.4	D	36	D	<3	43		- 53	122
Iron	μg/L					***			***					226	D	<3	<5	<3		2.2
Lead	µg/L			15	TR	15	TR	100	TR	107.3	D	4.2	D	226	ע			13		
Manganese	μg/L			196,000	TR		TR							-	D	<0.2	<0.2	- 13	U	524
Mercury	μg/L	0.6	TR	420	TR	420	TR	10	TR	2.4	D	[· [0.01]·]	D	5.0	D		8.3	(1000)		
Molybdenum	μg/L				***					***					D	<10	8.3	<10		
Nickel	μg/L	4,600	TR		TR		TR			697	D	77	D	6,189		<10	<3	3		Yes.
Selenium	μg/L	9,000	TR		TR	7,000	TR		TR	20.0	TR		TR	7.7	TR D	<0.1	<0.1	<0.1		
Silver	μg/L	107,700	TR		TR	7,000	TR			8		150	D	7,7	ъ	<2	<2			***
Thallium	μg/L	7.2	TR	112	TR		TR		TR	700 175	D	176	D		D	<5	<5	<5	444	
Zinc	μg/L	69,000	TR	420,000	TR	420,000	TR	25,000	IR	173	υ	170	D	1,000	10					
norganic Non-metallics			_	_	1				_				15500		1		1		***	
Asbestos	MFL					***											<40			
Boren	μg/L			126,000	TR	126,000	TR			-							150			
Bromide	μg/L			20,000	770		TR		TR		TR	9.7	TR		TR		1000		***	***
Cyanide (free)	μg/L	215,000	TR		TR	84,000	T		110			7.1					190			-
Fluoride	μg/L			84,000 140,000	T	140,000	T					-					<100			
Nitrite (as N)	μg/L						T						-			124	<100	***		
Nitrate (as N)	μg/L	***		2,240,000	T	2,240,000	1		-		_		-		-		<100			***
Nitrate + Nitrite (as N)	μg/L		-				-		-				-				<500			
Orthophosphate	μg/L				+				-				-				46,800	***		•••
Silica	µg/L		***		-				-	100	T		-	100	T		<1000	2.00		
Sulfide	μg/L		1		1		1	275	-		-	A DESCRIPTION OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF T	-		_		- I I I I I I I I I I I I I I I I I I I			
Major Anions	na/l		I	T	1.		L		T				T		I		11,100	***	***	
Chloride	μg/L		-		1		-		1				1				38,500	200	1	•••
Sulfate Corporate (as CaCO.)	μg/L ug/L		-				-		-				1			***	<1000		1,444	-
Carbonate (as CaCO ₃) Bicarbonate (as CaCO ₃)	μg/L μg/L								1				1			***	166,000	•••	-	
	ру-	3798	-	1	1000		-	· ·	-		_		•	•					Alteria	
Major Cations	nea.	T	T	T	1								1				46,600			1
Calcium	µg/L		1		1		1		1		-		-		-		10,500			
Magnesium	µg/L		1				-		1				1				2,200		1000	
Potassium Sodium	µg/L µg/L		1		1		1						1			***	26,300		744	
Physical Properties	рус		-		-		_	-	_		•									
Alkalinity (total as CaCO ₃)	µg/L	***	T		T		T		T		1		-				166,000		8,000	***
	mg/L				1		1		1	-	-		-				160	***	***	
Hardness Total Dissolved Solids	mg/L μg/L				1		1		1				1				296,000	(***)	***	S-115
Total Suspended Solids	mg/L				1		1		-	80	Т		T				<5			***
	color units		-		-				1				1				5	•••	Y-12	
Color Biologicals	color units			1	-		_			-	-									
Diologicals		.1	100		£ 7.63	T	T		1		1_	WHITE SERVICE	T				23			Sand
Coliforms (total)	MPN/100 ml	1																		(1444)

DC 5.5C RESE-1001067 2/25/2004 507.144

Parameters and Consti	ituents					Sur	face	Water St	andar	ds								Results		
		Fish Consump	tion	Full-bod Contac		Partial-bo		Agriculti Livesto Wateri	ck _	(w		d Wildlife water)		Aquatic a Wildlif (ephemer	e ral)			Total	Field	
Name	Units	tandard	raction	tandard	raction	tandard	raction	fandard	raction	tandard	raction	Chroni	raction	Acute	Fraction	Dissolved Results	Total Results	Recoverable Results	Parameters	Use Exceede
		Str	E.	Str	E.	S _C	G.	Str	i.	Š	-	š	Œ.	- Z	Ġ.					
ield pH	s.u.	Total 200	·	6.5-9.0	***	6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		-1			7.7	
Temperature	°C	***						***				•••		***		***	200	0.00	9.5	***
Specific Conductance	μS/cm											6							206 10	***
Dissolved Oxygen	mg/L NTUs									6								2.2	1.3	***
Turbidity letals	NIUS		100		1200				10000				-							
Aluminum	µg/L			727								•••		522.5		(222	28			•••
Antimony	μg/L	4,300	TR	560	TR	560	TR		***	88	D	30	D	110			<0.3 4.1		***	***
Arsenie	µg/L	1,450	TR	50 98,000	TR D	98,000	TR D	200	TR	360	D	190	D	440	D		4.1			
Barium Beryllium	µg/L µg/L	1,130	TR	2,800	TR	2.800	TR			65	D	5.3	D	14.4		0	<0.2		***	***
Cadmium	µg/L	84	TR	700	TR	700	TR	50	TR	3.0	D	1.8	D	46	D		<0.1	_		•••
Chromium (total)	µg/L			100	TR	100	TR	1,000	TR	***	•••									
Cobalt	µg/L					1.200		200	TD.	0.0		6.0		17	D	(res)	<0.7			
Copper	μg/L	•••		1,300	TR	1.300	TR	500	TR	9.9	D	6.8	D				26	***		***
Iron Lead	με/L με/L			15	TR	15	TR	100	TR	45.4	D	1.8	D	96	D		<i< td=""><td></td><td>222</td><td></td></i<>		222	
Manganese	μg/L			196,000	TR	196,000	TR					-		***	-	***				
Mercury	µg/L	0.6	TR	420	TR	420	TR	10	TR	2.4	D	0.01	D	5.0	D	-	<0.2	***	1000	
Molybdenum	µg/L			***		20.000				257		40		3 167	D		2.5			
Nickel	µg/L	4,600	TR	7,000	TR TR	28,000 7,000	TR	50	TR	357 20.0	D TR	2.0	D TR	3,167	TR		<0.8		222	
Selenium	µg/L µg/L	9,000	TR TR	7,000	TR	7,000	TR	50		20.0	D	2.0		2.0	D		<0.1		***	
Silver Thallium	µg/L	7.2	TR	112	TR	112	TR			700	D	150	D	222			<0.4			
Zine	μg/1.	69,000	TR		TR	420,000	TR	25,000	TR	89	D	90	D	847	D		3	_		
norganic Non-metallics			_				_								_				T	***
Asbestos	MFL					126,000	***						•••	112			<1			
Boron	µg/L			126,000	TR	126,000	TR	7									<100			7
Bromide Cyanide (free)	μg/L μg/L	215,000	TR	28,000	TR	28,000	TR	200	TR	41	TR	9.7	TR	84	TR					
Fluoride	μg/L			84,000	T	84,000	T			- E-00-							174		***	***
Nitrite (as N)	μg/L	***		140,000	T	140,000	T	(⁰¹						222		202	<100	***		
Nitrate (as N)	μg/L			2,240,000	T	2,240,000	T			•••		***	***		1		<100 <100		 	
Nitrate + Nitrite (as N)	μg/l.														1	===	<500		1	
Orthophosphate Silica	μg/l. μg/l.	***						***	1	***				222			-	***		***
Sulfide	µg/L			***		***				-100	T		***	100	T	***	<1000			
Major Anions		10.00			_		_		_		_		The same		_		C110	***		
Chloride	μg/L.	***								l		***					6,140 19,200			
Sulfate Carbonate (as CaCO ₃)	µgЛ.	***															<1000			
Bicarbonate (as CaCO ₃)	µg/L									-						- EE -	88,750	- VIII		***
Major Cations			_					2011							or the second	120000			,	
Calcium	µg/L	***				***										***	21,400	222	***	
Magnesium	µg/L					***						***					4,640 1,570		100	
Potassium	µg/L				1									***	1		16,500			- 122
Sodium Physical Properties	µg/L		1		1		-						_							
Alkalinity (total as CaCO ₃)	μg/L		···		ļ					7.4.A							88,750		+++	***
Hardness	mg/L	/225				944				(1-		72			
Total Dissolved Solids	µg/L	•••		***		533				80	T	80	T				130,000	***		
Total Suspended Solids	mg/L color units	•••		***						80		80	1				10	(***)	***	***
Color Biologicals	Color mints	1	1		1								-							
and the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of th	MPN/100 m	1		***		522		17007						****		•••	11 <2	***		
Coliforms (total)				235		576		The Experience												

DC 5.5C RESE-1001076 5/20/2004

Parameters and Consti	tuents				_	S	urfac	e Water S	Stanc	lards								Results		
rarameters and Const	autus -	Fish Consumpt	tion	Full-boo		Partial-be	ody	Agriculti Livesto Waterii	ural ek	Aqua (w	arm	nd Wildlife water) Chron		Aquatic a Wildlife (ephemer	e ral)	Dissolved		Total Recoverable	Field	
Name	Units					- 1		1007		Acute				Andreas		Results	Total Results	Results	Parameters	Use Exceeded
		Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction					
Field							_		_										7.6	
pН	s.u.			6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0	***	6.5-9.0		6.5-9.0					18	
Temperature	°C	***				***	***	***											280	
Specific Conductance	μS/cm				***				***			6116		120			***		4.9	A&WwwA & A&WwwC
Dissolved Oxygen	mg/L NTUs									***						***			0.83	***
Turbidity Metals	NIUS	H	***		0000			USE	-				10000				-			
Aluminum	μg/L.	W			-0.5	***						***		***			<20		552	1448
Antimony	μg/L	4,300	TR	560	TR	560	TR			88	D	30	D	***		<3	<3	<3		
Arsenic	μg/l.	1,450	TR	50	TR	420	TR	200	TR	360	D	190	D	440	D	4	5	4	500	(***)
Barium	μg/l.			98,000	D	98,000	D									26		22.2	222	
Beryllium	μg/l.	1,130	TR	2,800	TR	2,800	TR	E1.544 &/		65	D	5.3	D	-		<2	<2	<2	222	
Cadmium	μg/1.	84	TR	700	TR	700	TR	50	TR	4.3	D	2.3	D	65	D	<0.1	<0.1	<0.1		
Chromium (total)	με∕1.			100	TR	100	TR	1,000	TR	10				242		<6		<6		
Cobalt	μg/L.	***				•••											<6		-22	(446)
Copper	με∕Ι.	444		1,300	TR	1,300	TR	500	TR	13.6	D	9.0	D	23	D	<3	<3	<3		
Iron	μg/L							***		***				***			77			***
Lead	µg/L	***		15	TR	15	TR	100	TR	65.3	D	2:5	D	138	D	⊲	<3	<3	***	***
Manganese	µg/L	•••		196,000	TR	196,000	TR	***		-								47		
Mercury	µg/L	0.6	TR	420	TR	420	TR	10	TR	2.4	D	0.01	D	5.0	D	<0.2	<0.2			***
Molybdenum	μg/L											***		***			<8			
Nickel	µg/L	4,600	TR	28,000	TR		TR		***	472	D	52	D	4,193	D	<10		<10		***
Selenium	μg/L	9,000	TR	7,000	TR	7,000	TR	50	TR	20.0	TR		TR	33	TR		<3	-0.1		
Silver	µg/L	107,700	TR	7,000	TR	7,000	TR	•••		4	D			3.5	D	<0.1	0.1	<0.1		
Thallium	µg/L	7.2	TR	112	TR	112	TR			700	D		D	1,121	D	<2 <5	<2 <5	<5		
Zine	µg/L	69,000	TR	420,000	TR	420,000	TR	25,000	TR	118	D	119	D	1,121	D	~3				
Inorganic Non-metallics			_		_		_	- Commercial	_		1		1					443	T	
Asbestos	MFL			***		120,000	TR						-				<40			
Boron	μg/L			126,000	TR		IK				1		-		-		150	***		0,000
Bromide	µg/L	215,000	TR	28,000	TR	28,000	TR	200	TR	41	TR		TR	84	TR		<10	944		***
Cyanide (free)	µg/L	215,000	IK	84,000	T	84,000	T		III	***	1		1				180			***
Fluoride	µg/L			140,000	T	140,000	T		-								<100			***
Nitrite (as N)	µg/L			2,240,000	T	2.240.000	T			-	1		1		1		<100		***	/ / / / / / / / / / / / / / / / / / /
Nitrate (as N) Nitrate + Nitrite (as N)	µg/L µg/L			2,240,000	1:		1:				1						<200	200	***	***
				***	1						1							100	500	344
Orthophosphate Silica	µg/L µg/L		1		1	100	ļ		1=		1		1		I		43,500	1		
Sulfide	µg/L		1		1	1		124.		100	T			-:-100:-:	T	***	∴ <1000 · · ·	***	***	
Major Anions	1.5.		1.00		_				_											
Chloride	µg/L				I		Ī	***			I			1000			7,130			22-
Sulfate	μg/l,				1			-						***		***	12,300	-		
Carbonate (as CaCO ₃)	μg/L																<1000			
Bicarbonate (as CaCO ₃)	μg/L	•••												***			135,000			
Major Cations											_				_					
Calcium	μgЛ.	<u> </u>															30,200	***		222
Magnesium	μg/L									***							6,280	(***)	(***)	
Potassium	μg/L	***		***										2			2,100 19,300	***		
Sodium	µg/L	•••					1								1		19,500			
Physical Properties			-		1	1	_			1			1		Т.		135,000	T	T	
Alkalinity (total as CaCO ₃)	μg/L			***	1										+		101	***		
Hardness	mg∕L.			-									-		+		192,000			222
Total Dissolved Solids	μg/L	15					1						T		+		<5			
Total Suspended Solids	mg/L									80	I	80	1		1		10			
Color	color units			***			1				1				1		1 10	Marian and Alexander		
Biologicals	Transmon :			r	1		_		1	T	T		L	T	Τ.		300			
Coliforms (total)	MPN/100 m			235		576		***		444	-		-		1		<2	2		
E. Coli	MPN/100 m	***		253	1	3/0	***		1		1.		1	10000	1					•

Sample Location: Sample ID: Sample Date: Flow Rate (gpm):

DC 5.5C RESE-1001158 8/23/2004 9

Parameters and Constit	uents					St	ırfac	e Water S	tand	lards								Results		
Name	Units	Fish Consumpt	ilon	Full-boo Contac		Partial-bo Contac		Agricultu Livesto Waterii	ck		arm	nd Wildlife water) Chron		Aquatic a Wildlif (epheme) Acute	e ral)	Dissolved Results	Total Results	Total Recoverable Results	Field Parameters	Use Exceeded
		Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction					
Field													_						7.2	
pH	s.u.			6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0	***	6.5-9.0	777	6.5-9.0				12001	7.2	
Temperature	°C							***			***			***					466	
Specific Conductance	μS/cm									***				***		242	Series .		4.6	A&WwwA & A&WwwC
Dissolved Oxygen	mg/L	-		•••					***	. 0		6					***		0.27	Activities recommend
Turbidity	NTUs					***	***	•••			••••		1000							
letals			_				_				225						<20	1,500		
Aluminum	μg/l.											30	D			<3	<3	<3	***	
Antimony	μg/l.	4,300	TR	560	TR	560	TR		***	88	D			440	D	5	6	6		
Arsenic	µgЛ.	1,450	TR	50	TR	420	TR	200	TR	360	D	190	D		10	54			1202	200
Barium	μgЛ.			98,000	D	98,000	D		***			5.3	D	0.000	-	<2	<2	<2		
Beryllium	µg/L	1,130	TR	2,800	TR	2,800	TR	50	TD	65	D	3.6	D	127	D	<0.1	<0.1	<0.1		
Cadmium	µg/L	84	TR	700	TR	700	TR	50	TR	8.4	10		D	127	10	<6		<6	2241	
Chromium (total)	µg/L	***		100	TR	100	TR	1,000	TR		-						<6		122	Calif
Cobalt	μg/L					1.200	777		TE	24.2		16.2	D	42	D	<3	5.9	<3		***
Соррег	μg/L	***		1,300	TR	1,300	TR	500	TR	24.2	D	15.3	D	42	10		57		***	
Iron	μg∕L	•••							TD	126.8	D	4.9	D	268	D	<3	<3	<3	3244	
Lead	μg/L	***		15	TR	15	TR	100	TR	126.8	D	4.9	D	208				26		222
Manganese	μg/L			196,000	TR	196,000	TR	***		2.4	D	·:·0.01·:	. D	5.0	D	<0.2	<0.2	-	***	
Мегешту	µg/L	0.6	TR	420	TR	420	TR	10	TR		D		10	5.0		50.2 .	9.1	***	***	
Molybdenum	µg/L	•••			***	*0.000				795	D	88	D	7,062	D	<10		<10		
Nickel	μg/L	4,600	TR	28,000	TR		TR	***	70	20.0			TR	33	TR		<3	· · · · · ×3		361
Selenium	μg/L	9,000	TR	7,000	TR		TR	50	TR		TR	2.0		10	D	<0.1	<0.1	<0.1		
Silver	μg/L	107,700	TR	7,000	TR	7,000	TR		****	700	D		D	10		<2	<2			
Thallium	µg/L	7.2	TR	112	TR	112	TR	25,000	TR	199	D		D	1,890	D		<5	<5	***	
Zine	μg/L	69,000	TR	420,000	TR	420,000	TR	25,000	IK	199	D	201	D	1,000	10	0.0				
Inorganic Non-metallics			1					All streets					I	224	T				T	
Asbestos	MFL			***		126,000	TD			***				200	ļ	-	<40	***		***
Boron	µg/L		***	126,000	TR		TR				-		+		1		190	100		
Bromide	μg/L	***		20,000	TD	28,000	TR	200	TR	41	TR		TR		TR					
Cyanide (free)	μg/L	215,000	TR	28,000	TR	84,000	T	200	IK		111	2.7	111		1		240			
Fluoride	µg/L			84,000	T	140,000	T				-	90 000	1	2015	1	5000	<100	***		344
Nitrite (as N)	µg/L			140,000	T	2,240,000	T						+		1		<100	***		***
Nitrate (as N)	μg/L	•••	***	2,240,000	1	2,240,000	1				-			***	1		<200			•••
Nitrate + Nitrite (as N)	µg/L														1		<500	-77		
Orthophosphate	µg/L			***					98		-				1		53,800	***	***	***
Silica	µg/L		-			***				100	T			100	T		∴ <1000	***		S
Sulfide	µgЛ.					3500		270	1900		-		_		-					
Major Anions	7.50	Terror State	Tasa.		198				1				1	T	T		11,000			***
Chloride	µg/L		1		+=				1		1			·	1	***	41,600	***		•••
Sulfate	μg/L ug/L		1		1					***			/		1	***	<1000			(***)
Carbonate (as CaCO ₃) Bicarbonate (as CaCO ₃)	μg/L μg/L		1									-			1		225,000	214	***	(***)
	ирг			300	-				-						_					
Major Cations			1		T.,		T		T								55,900	***		
Calcium	μg/l. μg/l.		1		1		-										11,400		34-	300
Magnesium	μg/1. μg/1.		1.		1		1		1		1						3,100	202	522	***
Potassium Sodium	μg/L		1		1			***							1		32,200			GANG.
Physical Properties	KPL		-		_		_		-	-				A. P						
Alkalinity (total as CaCO ₃)	μg/L	***	1	1	T		T		T		T				T		225,000			(and
	mg/L				1						1			***	1		187		/192	***
Hardness Total Disselved Solids	mg/L μg/L	***			1				1		1						321,000	***		
Total Dissolved Solids			-		1.				1	80	T		T				<5	***		***
Total Suspended Solids	mg/L color units				1		1		1		1		1		1		10	399	755	10000
Color Biologicals	color units				1		-	100000000000000000000000000000000000000	-	77.07	-		-1-							
	LMDN///001	1 102	1.		1.	I	T.,,		1		T				T		300	***	***	***
Coliforms (total)	MPN/100 ml	***	-	235	1	576	1				1		-		1		4			
E. Coli	MPN/100 ml		1 ***	233	1	370	1		1		1		-		1	-		•		

DC 5.5C RESE-1001176 11/18/2004

Parameters and Consti	tuents					Sı	ırfac	e Water S	tand		_	-		Anu-th-	nd l			Results		
		Fish		Full-boo		Partial-be	ody	Agricultu Livestoc	k			d Wildlife water)		Aquatic a Wildlif (ephemer	e					
Name	Units	Consumpt	ion	Contac	•	Contac	١	Waterin	g	Acute		Chroni	c	Acute		Dissolved Results	Total Results	Total Recoverable Results	Field Parameters	Use Exceeded
		Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction					
eld				4100		6.5-9.0		6.5-9.0	wa a	6.5-9.0		6.5-9.0		6.5-9.0					7.6	
pH Temperature	s.u. °C			6.5-9.0		6.5-9.0		0.3-9.0											15	
Specific Conductance	μS/cm					(299 6.7	
Dissolved Oxygen	mg/L	***						***		6	-	6						(***)	0.45	
Turbidity	NTUs		***	•••	***	•••		•••										11-62		
etals Aluminum	μg/L		II	W. 11. 25													<30			
Antimony	μg/L	4,300	TR	560	TR	560	TR			88	D	30	D			<3	<3	<3		***
Arsenic	μg/L	1,450	TR	50	TR	420	TR	200	TR	360	D	190	D	440	D	<3	<3	<3		
Barium	µg/L			98,000	D	98,000	D	***				5.3				27 <2	<2	<2		
Beryllium	μg/L	1,130	TR	2,800	TR	2,800 700	TR	50	TR	65 5.1	D D	2.5	D	77	D	<0.1	<0.1	<0.1		
Chromium (total)	μg/L μg/L	84	TR	700 100	TR	100	TR	1,000	TR							<6		<6		
Chromium (total) Cobalt	μg/L μg/L											4					<6	-		
Copper	μg/L			1,300	TR	1,300	TR	500	TR	15.6	D	10.2	D	27	D	<10	<10	<10		
Iron	µg/L						-									***	<60	<3		
Lead	μg/L			15	TR	15	TR	100	TR	76.6	D	3.0	D	162	D	⊲	<3	5.6		
Manganese	μg/L			196,000	TR	196,000	TR	10	TR	2.4	D	·· 0.01[·]	D	5.0	D	···<0.2···	<0.33			
Mercury	μg/L	0.6	TR	420	TR	420	TR	10	IK.	2.4				3.0			<8	***	***	(555)
Molybdenum Nickel	μg/L μg/L	4,600	TR	28,000	TR	28,000	TR			535	D	59	D	4,749	D	<10		<10	2449	-
Nickel Selenium	μg/L	9,000	TR	7,000	TR	7,000	TR	50	TR	20.0	TR	2.0	TR	33	TR		<3	<3		
Silver	µg/L	107,700	TR	7,000	TR	7,000	TR			5	D	-	***	4.5	D	<0.1	<0.1	<0.1	***	
Thallium	μg/L	7.2	TR	112	TR	112	TR	***		700	D	150	D	1.270	 D	<2 <10	<2 <10	<10		
Zinc	μg/L	69,000	TR	420,000	TR	420,000	TR	25,000	TR	134	D	135	D	1,270	D	~10	-10	-10		
organic Non-metallics	1 100		I ROUGH												T					(***
Asbestos	MFL μg/L			126,000	-		TR							***		-	<40		***	***
Bromide	µg/L			120,000				***									<100		***	
Cyanide (free)	μg/L	215,000	TR	28,000	TR	28,000	TR	200	TR	41	TR	9.7	TR	84	TR				***	
Fluoride	μg/L			84,000	Т	84,000	T	144						***			200	***		
Nitrite (as N)	μg/L	•••		140,000		140,000	T				***						<100 <100			
Nitrate (as N)	μg/L	***		2,240,000	T	2.240,000	T										<200			1444
Nitrate + Nitrite (as N)	µg/L												-				<500			***
Orthophosphate Silica	µg/L µg/L		-													***	42,700	220	***	
Sulfide	μg/L									100	T			100	Т		<1000			***
lajor Anions									_		_		_	_	_		10.000			17444
Chloride	μg/L																10,000 17,700			
Sulfate	μg/L																<1000	1-1-1		1000
Carbonate (as CaCO ₃) Bicarbonate (as CaCO ₃)	μg/L μg/L																129,000	>[mm]		10000
lajor Cations	l hg/L		1	-	10000		_					-								
Calcium	µg/L		1				Ī									***	35,000			
Magnesium	μg/L					***											7,130	2222		
Potassium	µg/L																2,210 22,000			
Sodium	μg/L			***								***	1			***	22,000			
hysical Properties		1	1253	1	T see		T ass		1		1		1	T	T	-	129,000		T	
Alkalinity (total as CaCO ₃)					-		1		1		-		1-				117			•••
Hardness Total Dissolved Solids	mg/L µg/L		-		1												214,000	•••		***
Total Suspended Solids	mg/L									80	T	80	T				<5			114
Color	color units			***													<1			
Biologicals			_		_		_		_		1	T-	-				23		T	
Coliforms (total) E. Coli	MPN/100 m MPN/100 m			235		576			-				-		-		<2			
Notes: Green cell color indicates ADI su. = standard units 'C = degrees Celsius yelling = milligrams per liter mIUs = Nephelometric Tubis jugL = micrograms per liter MIU = Million Fibers per Lite mIII = milligrams per liter MIII = milligrams per liter MIII = milligrams per liter MIII = milligrams per liter MIII = milliliter MIII = milliliter T = total applicable T = total recoverable D = dissolved ND = not detected **No designated uses evecee	ntimeter dity Units er number per 100		sumed	to apply to	site k	exation.	20,00													

DC 5.5C RESE-1001198 2/28/2005 10492.94

15-1 - 1- 1	uents					S	urfac	e Water S	Standa	ırds			-	1				Res	ults	
		Fish		Full-bod	ly	Partial-b	ody	Agricult				l Wildlife vater)		Aquatic : Wildlif (epheme	e					
Name	Units	Consumpt	ion	Contac		Contac		Livesto Wateri		Acute		Chron	ie	Acute		Dissolved	Total Results	Total Recoverable Results	Field Parameters	Use Exceeded
		tandard	Fraction	iandard	raction	Standard	raction	Standard	raction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Results		Results	Tanancers	
eld		- 20	-	- 20	364.1	<i>y,</i>	-												7.9	***
pH	s.u.			6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0					9.8	***
Temperature	°C									- V									88	
Specific Conductance Dissolved Oxygen	μS/cm mg/L									6		6	-			-	***	***	13	
Turbidity	NTUs											***		***		***			4.4	
etals															_		440		- VALUE - 1	-
Aluminum	μg/L						-						-				658	<3		
Antimony	µg/L	4,300	TR	560	TR	560	TR	200		88	D	30	D	440	D	3.2	<3 3.4	3.2		
Arsenie	μg/l.	1,450	TR		TR D	420 98,000	TR D	200	TR	360	D	190	Б	440	17	13	3.4			
Barium	μg/L	1,130	TR		TR	2,800	TR			65	D	5.3	D			<2	<2	<2		-
Beryllium Cadmium	μg/L μg/L	84	TR	700	TR	700	TR	50	TR	1.0	D	0.8	D	16	D	<0.2	<0.2	<0.2		(444)
Chromium (total)	µg/L				TR	100	TR	1,000	TR			-	-			<6	-	<6		
Cobalt	µg/L		_			222				-							<6	=	_	
Copper	μg/1.	-		1,300	TR	1,300	TR	500	TR	7.9	D	2.9	D	. 6.8	D	<10	10	11	***	***
Iron	µg/L						=		770					22	D	<	328 <3	<3		9229
Lead	µg/L			15	TR	15	TR	100	TR	15.1	D	. 0.6.	D	32	10			4.6		
Manganese	μg/L.		70	196,000	TR TR	196,000 420	TR	10	TR	2.4	D	-: 0.01:-	D	5.0	D	<0.2	<0.2			
Meledanum	µg/L µg/L	0.6	TR	420	IK.	420					=						<8	***		
Molybdenum Nickel	μg/L μg/L	4,600	TR	28,000	TR	28,000	TR	•••		154	D	17	D	1,369	D	<10		<10		
Selenium Selenium	μg/L μg/L	9,000	TR	7,000	TR	7,000	TR	50	TR	20.0	TR	- 2.0	TR	33	TR		<3	⊲		
Silver	μg/L	107,700	TR	7,000	TR	7,000	TR			0	D			0.4	D	<0.1	<0.1	<0.1		
Thallium	μg/L	7.2	TR	112	TR	112	TR			700	D	150	D	***		<2	<2 <10	<10		
Zine	µg/L	69,000	TR	420,000	TR	420,000	TR	25,000	TR	39	D	39	D	366	D	<10	<10	<10		
norganic Non-metallics			1		10000				1 1			-	L		I					(***)
Asbestos	MFL		-	126,000	TR	126,000	TR				-						<40		-	
Boron	μg/L μg/L		-	120,000	111					-							<100	•••	***	
Bromide Cyanide (free)	µg/L	215,000	TR	28,000	TR	28,000	TR	200	TR	41	TR	9.7	TR	84	TR	222				1999
Fluoride	µg/L			84,000	T	84,000	T										<100	***	5	***
Nitrite (as N)	μg/L	***		140,000	T	140,000	T	***					-	***			<100			
Nitrate (as N)	µg/L		-	2,240,000	T	2,240,000	T	***						***	-		150	- C		
Nitrate + Nitrite (as N)	µg/L	-						_		***		***					<200 <500			
Orthophosphate	µg/L							***							-		27,400	1922		
Silica Sulfide	μg/L μg/L		+=							·::10a:.	T			100	· T		<1000	(444)		***
Jajor Anions	PPW		_																	
Chloride	μg/L							***		***				N. 222			3,370		2	
Sulfate	µgЛ.					0.00		-					-	1022			13,700			
Carbonate (as CaCO ₃)	µg/L	•••											-		-		<1000 18,100			
Bicarbonate (as CaCO ₃)	μg/I.	***			***	•••		***	***				_		1		10,100		-	
lajor Cations	- 1					I -	L				1				1		7,780			
Calcium	μg/L μg/L		-		-						-			200			1,820	***	(1000)	***
Magnesium Potassium	μg/L																1,430			***
Sodium	µg/L			***		1,000				-		-				***	5,720		9229	
Physical Properties			_				-						_		_		10.00			1
Alkalinity (total as CaCO3)	µg/L	***								-						***	18,100	***	(1999)	
Hardness	mg/L	-		4	-						-						27 89,000			
Total Dissolved Solids	μg/L					•••				80	T	80	T	***	+=		<5			
Total Suspended Solids	mg/L		-							80	1						37		-	
Color Biologicals	color units		1		1		1		-						-					
Coliforms (total)	MPN/100 ml				T	-	Ī				I						130		***	
	MPN/100 ml		***	235		576						***					7			

> Sample Location: Sample Date: Sample Date: Flow Rate (gpm):

DC 5.5C RESE-1001216 5/24/2005

and the second second second	tuents					S	urfac	e Water S	tand	ards				To a source of	1		-	Results		
		Fish Consumpt	tion	Full-bo		Partial-b		Agriculto Livesto Waterio	ck	(w	arm	d Wildlife water)		Aquatic a Wildlif (epheme)	e ral)	Dissolved		Total Recoverable	Field	
Name	Units	7	g G	P	u ₀	p.n	u o	Water to the		Acute		Chron		Acute		Results	Total Results	Results	Parameters	Use Exceeded
		Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction					
eld				6.5-9.0		6.5-9.0	I I	6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0			***		7.6	
pH Temperature	s.u. °C			0.3-9.0		0.3-9.0		0.3-9.0	_	0.3-9.0		0.3-7.0		0,5-7,0					19	***
Specific Conductance	μS/cm													***		-			254	***
Dissolved Oxygen	mg/L			-				***		6		6		***		***	***		6.1	•••
Turbidity	NTUs	***		•••															0.32	-
letals									_						_		-70		T	
Aluminum	μg/L			***		***		***				20	D			<3	<30 <3	<3		***
Antimony	µg/L	4,300	TR TR	560	TR	560 420	TR TR	200	TR	88 360	D	30 190	D	440	D	5.3	5	5.2		1000
Arsenic	μg/L	1,450	IR	50 98,000	TR	98,000	D		11		-	170				25				
Barium Beryllium	μg/L ug/L	1,130	TR	2,800	TR	2,800	TR			65	D	5.3	D	***		<2	<2	<2		***
Cadmium	μg/L μg/L	84	TR	700	TR	700	TR	50	TR	3.9	D	2.1	D	59	D	<0.2	<0.2	<0.2		
Chromium (total)	μg/L μg/L			100	TR	100	TR	1,000	TR						-	<6		<6	2000	
Cobalt (total)	μg/L μg/L											Three and					<6	•••		***
Copper	μg/L			1,300	TR	1,300	TR	500	TR	12.5	D	. 8.4	D	22	D	···<10···	<10	<10		894
Iron	µg/L									***							88			
Lead	µg/L			15	TR	15	TR	100	TR	59.2	D	2,3	D	125	D	<3. `	<3	্য		***
Manganese	μg/L			196,000	TR	196,000	TR	***				***						47		
Mercury	µg/L	0.6	TR	420	TR	420	TR	10	TR	2.4	D	0.01	D	5.0	D	<0.2	<0.2			***
Molybdenum	μg/L				***					3 (***				<8)) ****
Nickel	μg/L	4,600	TR	28,000	TR	28,000	TR			438	D	49	D	3,886	D	<10		<10		***
Selenium	µg/L	9,000	TR	7,000	TR	7,000	TR	50	TR	20.0	TR	2.0	TR	33	TR		<3			
Silver	µg/L	107,700	TR	7,000	TR	7,000	TR			3	D	150		3.0	D	<0.1	<0.1	<0.1		
Thallium	µg/L	7.2	TR	112	TR	112	TR	25,000		700	D	150	D	1,039	D	<2 <10	<2 <10	<10		
Zinc	µg/L	69,000	TR	420,000	TR	420,000	TR	25,000	TR	109	D	110	טו	1,039	U	>10	>10	-10	لـــــــا	
organic Non-metallics				Electric Services	1			THE SOLIT							1					***
Asbestos	MFL	***		126,000	TR	126,000	TR								1		<40			222
Boron	µg/L			120,000	IK	126,000	IK						-	252	-	_	124	***		
Bromide	μg/L	215,000	TR	28.000	TR	28,000	TR	200	TR	41	TR	9.7	TR	84	TR					
Cyanide (free)	µg/L	213,000		84,000	T	84,000	T										144			
Fluoride	µg/L			140,000	T	140,000	T				-						<100			
Nitrite (as N)	μg/L μg/L		-	2,240,000		2,240,000	T										<100	(000)		
Nitrate (as N) Nitrate + Nitrite (as N)	μg/L μg/L		1	2,240,000		2,240,000	1										<200			
Orthophosphate	μg/L											***					<500			
Silica	µg/L	***															38,800	1400		***
Sulfide	μg/L			16+++						100.	T	***	***	100	T		<1000			
lajor Anions													_							
Chloride	μg/L	***				***				***				***			8,690	***		100
Sulfate	μg/L							***				***					13,700			
Carbonate (as CaCO ₃)	µg/L	***															<1000 110,000			***
Bicarbonate (as CaCO ₃)	μg/L						***										110,000			
lajor Cations	1 -				1000		1				I as		Total		T		27,700		I	
Calcium	μg/L	***			-			-			1		-	122	1		5,580			
Magnesium	μg/L				***		1				-		1		-		2,020			
Potassium Sodium	μg/L μg/L				-					-					-		15,600			
Physical Properties	ид/С		1						1000		_		-		_	-	MIC CONTRACTOR	N 131		
Alkalinity (total as CaCO ₃)	μg/L				T		T				T		T				110,000			
Hardness	mg/L		1				1										92			
Total Dissolved Solids	µg/L																200,000			
Total Suspended Solids	mg/L									80	T	80	T				<5		- 1	
Color	color units									9							<1			
Biologicals					_				_				_			Witnessell				
	MPN/100 ml							7***						,eee			130			
Coliforms (total)	MPN/100 ml			235		576				FFFFFFFFFFF	-	16-31-20	1000					1		

DC 5.5C RESE-1001229 8/23/2005

Units	Fish Consumpt			7		BITAC	e Water S	Stand	ards			-	Aquatia -	nd			Results		
Units		ion	Full-boo		Partial-b		Agriculto Livesto Wateri	ck _	(#		d Wildlife water)		Aquatic a Wildlift (ephemer	e al)	D		Total Recoverable	Field	
	-	20	-				100000		Acute	_	Chroni		Acute		Dissolved Results	Total Results	Results	Parameters	Use Exceede
	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction					
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DC 4.1E

Sample Location: DC 4.1E Sample ID: RESE-1001007 Sample Date: May 21, 2003

		FC		FBC		PBC	20	AgL		Acute	A&V	Chronic		A&We Acute		D Result	T Result	TR Result	A HINDS	2. 1.1
			Fraction		Fraction		Fraction		Fraction	Reine i	Fraction	(µg/L)	Fraction	(µg/L)	Fraction	(µg/L)	(μg/L)	(µg/L)	Field Parameters	Use
Name	Symbol	(μg/L)	15.	(µg/L)	Œ	(µg/L)	1	(μg/L)	(In	(µg/L)	1	(µg/L)	(in	(µg/L)	í.	(деугл)	(µg/L)	(hg L)	1 arameters	Litte
pH	pН	S 242 1/2		6.5 to 9.0	137	4.5 to 9.0		6.5 to 9.0				***	13		П	***		577	8	
Temperature	°C											0.0						***	23.2	
Specific Conductance (µS/cm)	EC					***							V.S.	577					247	
Dissolved oxygen (mg/L)	DO		ie.							6		6	10			***	***	***	6.08	
Turbidity (NTUs)	Turb.	***	OI.			***						***	4/5	225					0.2	
letals												-	Total I	1000		-	-10 O			
Aluminum	Al					•••		***		***			-		\vdash		<20.0 <6.0	<6.0		
Antimony	Sb	4,300	TR		TR		TR	200	TD	88	D	30 190	D	440	D	<6.0 <3.0	<3.0	<3.0		
Arsenic	As	1,450	TR	50	TR	420	TR D	200	TR	360	D	190	טו		U	12.6				
Barium	Ba	1,130	TR	98,000 2,800	D TR	98,000 2,800	TR		11:0	65	D	5.3	D			<2.0	<2.0	<2.0		*
Beryllium	Be Cd	84	TR	700	TR	700	TR	50	TR	3.7	D	2.0	D	56.7	D	<0.1	<0.1	<0.1		
Cadmium Chromium (total)	Cr		1 IX	100	TR		TR	1,000	TR			2.0		211				<6.0	•••	*
Cobalt	Co						-		000	100	37.9	***			П	1000	<6.0			*
Copper	Cu			1,300	TR	1,300	TR	500	TR	12.0	D	8.1	D	20.78	D	<3.0	<3.0	<3.0	•••	
Iron	Fe	***				***		•••	1		36		EJ.				<20.0			
Lead	Pb			15	TR	15	TR	100	TR	56.7	D	2.21	D	119.6	D	<3.0	<5.0	<3.0	***	
Manganese	Mn		100	196,000	TR		TR				7		36					<2.0	***	*
Mercury	Hg	0.6	TR		TR		TR		TR	1000000	D	0.01	D	5.0	D	<0.2	<0.2		***	
Molybdenum	Mo		-	***	-	20,000	_	•••	120	122.1	-	47.0	F	2757.2	Б	<10.0	<8.0	<10.0		*
Nickel	Ni	4,600	TR		TR		TR		TD	423.1	D	47.0	D	3757.2	D TR	<10.0	<3.0	<3.0		
Selenium	Se	9,000	TR		TR		TR	50	TR		TR	2.0	TR	33.0 2.8	D	<0.1	<0.1	<0.1		
Silver	Ag	107,700	TR		TR		TR			2.8 700.0	D	150.0	D	2.8	טו	<2.0	<0.1	<2.0		*
Thallium	TI 70	7.2	TR		TR		TR		TR		D	106.7	D		D	9,6	21.5	22.4		
Zinc	Zn .	69,000	TR	420,000	IIK	420,000	Lik	25,000	111	103.7	I D	100.7	10	1004.0	0	2,10	1 -10			
norganic Non-metallics			1 8	I					1918				I				<200			
Asbestos (MFL)	В		-	126,000	TR		TR	- A C 1 A C T A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A C A						***	П	<40.0		***	1000	*
Boron Cyanide (free)	CN	215,000	TR		TR		TR	200	TR	41	TR	9.7	TR	84	TR	***	<100.0			
Fluoride (Iree)	F	215,000	1	84,000	T		T					***				360	747	0.000	(***	*
Nitrite (as N)	NO, -N			140,000	T		T		50			2.2.		9222			ND	***	(()	
Nitrate (as N)	NON			2,240,000	T	2,240,000	T			***	31	.**	1/3			***	480		•••	
Nitrate + Nitrite (as N)	NO2+NO3-N	•••					П		33	1	100	+				***	480	•••	***	*
Phosphorous	P			***				***		•••				2000						*
Silica	SiO ₂		111						100			***					68,600	***	***	
Sulfide										(0D]	T			:::100::-	T	1555	:::<1000·::			
Major Anions			_		1		_		1	isotoles		REPORT OF THE	_		_		4,470			*
Chloride	Cl	***	-		-		\vdash			***			-				3,120		***	
Sulfate	SO4 CO ₃						\vdash		100						-		<1000			
Carbonate	HCO ₃		+		100		-		1705							***	131,000		***	*
Bicarbonate Major Cations	neo ₃						_						-						1	7810
Calcium	Ca				I		П			***				1999		***	28,200			*
Magnesium	Mg								111		-3		100	***			4,470			*
Potassium	K		100			1446										***	1,000			
Sodium	Na				m											***	22,000	***		
Radionuclides		78					_		_				_					_		1 .
Gross alpha activity (pCi/L)						***	_				19/14				1	***	-2.3	***		
Gross beta activity (pCi/L)		***	-				-		-	***					-		-3.4 -2.5	222		
Radium 226+228 (pCi/L)			-		-		-		-		-	7. V	-		+		0.00024	100		
Uranium (mg/L)	U		1			***	_	•••	_	***	_		1		1		1 0,00024			-
Physical Properties			T		1	Ι	Т		I		1	·	T		T		131,000			
Alkalinity (total)			+		-		1			***	1		1		1		88,700	222		
Hardness Total dissolved solids	TDS		-		-		+						130				224,000		***	
Total suspended solids	TSS (mg/L)						1			80	T	80	T		Ι	222	<5			
Color (color units)	133 (lig/L)				1						100					***	ND	***	***	
Biologicals													_							
Coliforms (total)								10000		***				***		***	PRESENT			
E. Coli		***		235	T	576	T		1						_		ABSENT			
Additions or Changes (mg/L)					_		_		-	1	_	1	-		_	1000	T yaras	20.0		1
Bromide Orthophosphate	Br				-		-		-		-		-		-	<100.0	ND	2,2	202	1
	PO ₄			***			_	***	_	5.5			_		-		I ND	100		

Sample Location: DC 4.1E Sample ID: RESE-1001019 Sample Date: August 26, 2003

		FC		FBC		PBC		AgL		Acute	A&	Chroni	c	A&We Acute		D Result	T Result	TR Result		
10 N 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			Fraction		Fraction		Fraction		Fraction		Fraction		Fraction		Fraction				Field	Use
Name	Symbol	(µg/L)	E	(μg/L)	5	(µg/L)	12	(µg/L)	E.	(µg/L)	F	(µg/L)	Ġ.	(µg/L)	1	(μg/L)	(µg/L)	(µg/L)	Parameters	Exceed
eld	pН			6.5 to 9.0		4.5 to 9.0		6.5 to 9.0				110000		***					7.6	
pH Temperature	°C			0.5 10 5.0		4.5 10 5.0								- 122		-34	222	•••	24.8	
Specific Conductance (µS/cm)	EC			***	105	10.00				***				Xxx		***	***	***	264	
Dissolved oxygen (mg/L)	DO	***		10 mg						6		6		222	Ш		***		6.13	•
Turbidity (NTUs)	Turb.					***					L	***			Ш	***			0.34	
etals					-					150,000,000		East 17 Sept 1990					<20.0	NAME OF THE PARTY.		
Aluminum	Al	1.200	TD		TD	560	TR		11/5	88	D	30	D		Н	<6.0	<6.0	<6.0		
Antimony	Sb	4,300 1,450	TR	560	TR	560 420	TR	200	TR	360	D	190	D	440	D	<3.0	<3.0	<3.0		
Arsenic Barium	As Ba	1,450	IK	98,000	D	98,000	D		IK		D		1		-	13.2				*
Bervllium	Be	1,130	TR	2,800	TR	2,800	TR		- 3	65	D	5.3	D			<2.0	<2.0	<2.0		
Cadmium	Cd	84	TR	700	TR	700	TR	50	TR	3.8	D	2.1	D	56.8	D	<0.1	<0.1	<0.1		*
Chromium (total)	Cr		1	100	TR	100	TR		TR		U.				П	<6.0	***	<6.0	•••	
Cobalt	Co					***		***	1/2	STORY OF		***		***			<6.0	(200)	***	*
Copper	Cu	•••		1,300	TR	1,300	TR	500	TR	12.0	D	8.1	D	20.8	D	<3.0	<3.0	<3,0	***	*
Iron	Fe					***		***									<20.0			
Lead	Pb			15	TR	15	TR	100	TR	56.8	D	2.2	D	119.9	D	<3.0	<5.0	<3.0	***	
Manganese	Mn			196,000	TR		TR						-		-			<2.0		
Mercury	Hg	0.6	TR	420	TR		TR		TR	-	D	0.01	D	5,0	D	<0.2	<0.2 8.1			
Molybdenum	Mo	1.000	TE	20,000	TD	28,000	TP			422.0	D	47.1	D	3,764.4	D	<10.0	8.1	<10.0	***	
Nickel	Ni Sa	4,600	TR	28,000	TR		TR		TD	423.9 20.0	TR	2.0	TR	33.0	TR	<10.0	<3.0	<3.0		
Selenium	Se	9,000	TR	7,000	TR		TR	30	TR	20.0	D	2.0	IK	2.8	D	<0.1	<0.1	<0.1		*
Silver	Ag TI	7.2	TR TR	112	TR		TR		7	700.0	D	150.0	D	2.0	۳	<2.0	<2.0			
Thallium	Zn	69,000	TR	420,000	TR		TR		TR		D	106.9	D		D	<5.0	<5.0	<5.0		
Zinc norganic Non-metallics	ZII	07,000	111	720,000	IIN	720,000	111	20,000	1.10	1.50,1	, ,	230,5	, -	,			2000		-0	
Asbestos (MFL)							Г								П	***				
Boron	В			126,000	TR		TR						1/4			0.00 m	<40.0	•••		*
Cvanide (free)	CN	215,000	TR	28,000	TR		TR	200	TR	41	TR	9.7	TR	84	TR		<10.0			*
Fluoride	F			84,000	Т	84,000	T		M			***				340		***	::	*
Nitrite (as N)	NO ₂ -N			140,000	T	140,000	T		10							72.2	ND		***	
Nitrate (as N)	NO ₃ -N			2,240,000	T	2,240,000	T			***		***		***			220		***	
Nitrate + Nitrite (as N)	NO ₂ +NO ₃ -N		12	***		525		***			100	***					220	***		*
Phosphorous	P	***			10	***		10//	16	***			700			1999	77.700			
Silica	SiO ₂						_		- 5		-	***	-		Ļ	***	72,200	(444)		
Sulfide	***			***		***		***		100	{ T	***		::-100:-:-	T		<1,000	***		_
Major Anions	T		_		-		_	United the No.		and the same	_		_				4,370			
Chloride	Cl	***	-	***			-	***		•••		***	-	1000	\vdash	***	3,110			*
Sulfate	SO4						\vdash		1						H		<1,000	***		
Carbonate	CO ₃		-				╁		1,100		-		-		H	***	134,000	***		*
Bicarbonate	псоз				-		_				-		_		_					
Major Cations Calcium	Ca		Т				Т	2.2		112/1			T	I	П	***	28,400			*
Magnesium	Mg						+									222	4,350	222	5000	
Potassium	K						\vdash					III				***	<1,000	***	8555	*
Sodium	Na	0	7/3		6	525	\vdash			***	2/1						21,600	***	***	
Radionuclides		50011													_					
Gross alpha activity (pCi/L)	(***)															555			***	*
Gross beta activity (pCi/L)		***		***								•••			_					*
Radium 226+228 (pCi/L)							L		_	***				***	_	***	***	***	•••	*
Uranium (mg/L)	U	***					L			•••			L		_					
Physical Properties					_		-	Para Salara	1		1	To the second	_	1 000	T	70.10	121,000	1665		
Alkalinity (total)			-		-	2000	+		-		-	***	-		-		134,000 88,900		***	
Hardness Total dissolved solids	TDS				-	2110	+		-		-		-		\vdash		208,000	222		
LOVAL DISSOURCE COLLEGE	TSS (mg/L)		-		-		\vdash		-	80	T	-	T		\vdash	***	<5			*
	155 (mg/L)		-		1		+		1		+		1			222	ND			
Total suspended solids			-	1000	-	37.70	_		-	•	-		-							
Total suspended solids Color (color units)			T		1		T				14						PRESENT		***	
Total suspended solids Color (color units) Biologicals				235	Т		T					***				***	ABSENT			
Total suspended solids Color (color units)							_				_		700 III 3		35-11					
Total suspended solids Color (color units) Biologicals Coliforms (total)				233			_	Self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-time to the self-t					-		_					
Total suspended solids Color (color units) Biologicals Coliforms (total) E. Coli							T	i	1	25 17 0 20					Г	<100.0	 ND			*

063-2565 June 2006

Sample Location: Sample ID: Sample Date: Flow Rate (gpm):

DC 4.1E RESE-1001040 11/11/2003

Parameters and Consti	tuents					S	urfac	e Water S	Stand	lards				-				Results		
Name	Units	Fish Consumpt	ion	Full-boo		Partial-b Contac	ody	Agricultu Livesto Wateri	ıral ck	Aquat	arm	nd Wildlife water) Chroni		Aquatic a Wildlif (ephemer Acute	e al)	Dissolved Results	Total Results	Total Recoverable Results	Field Parameters	Use Exceeded
		Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction					
Field																				
pH	s.u.			6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		***			7.1	***
Temperature	°C	***				***							•••	***	***	***	***		22	
Specific Conductance	μS/cm					***		***	***		222			***		***	***	***	261	
Dissolved Oxygen	mg/L		***							6		6							6.7 0.09	
Turbidity	NTUs			***	***								***	***					0.09	
Metals			-	-	_		_	-	_	_			1992				<20		1	200
Aluminum	µg/L	***				•••						***					<3	<3		
Antimony	µg/L	4,300	TR	560	TR	560	TR	***		88	D	30	D	20000	D	<3	⟨3	3		
Arsenic	μg/L	1,450	TR	50	TR	420	TR	200	TR	360	D	190	D	440	ע	14		- 3		
Barium	µg/L			98,000	D	98,000	D				-	5.2	D			<2	<2	<2		
Beryllium	μg/L	1,130	TR	2,800	TR		TR		T0	65	D	5.3		56	D	<0.1	<0.1	<0.1		
Cadmium	μg/L	84	TR	700	TR	700	TR	50	TR	3.7	D	2.0	D	56	U	_	<0,1	<6		
Chromium (total)	µg/L			100	TR		TR	1,000	TR							<6	<6			
Cobalt	μg/L			1.000		1.200	777	***		San State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the S	D		D	21	D	<3	<3	٠		
Copper	μg/L			1,300	TR	1,300	TR	500	TR	12.0	ט	8.1	D		U		<20			
Iron	μg/L			14	TT	15	TD	100	TD	56.1	D	2.2	D	119	D	····<3····	<5	<3		
Lead	μg/L		***	15	TR	15	TR	100	TR	56.4	ט		U	-	D			<2		***
Manganese	μg/L			196,000	TR		TR					0.01	D	5.0	D	<0.2	<0.2	-		
Mercury	μg/L	0.6	TR	420	TR	420	TR	10	TR	2.4	D		D	5.0	D		<8			lead
Molybdenum	μg/L			***		20,000					D	47	D	3,743	D	<10		<10		
Nickel	µg/L	4,600	TR		TR		TR		2	421	TR		TR		TR	×10	<3			
Selenium	μg/L	9,000	TR	7,000	TR		TR	50	TR	20.0	D		IR.	2.8	D	<0.1	<0.1	<0.1		
Silver	μg/L	107,700	TR	7,000	TR	7,000	TR		***	700	D	150	D	2.0	D	<2	<2	***		
Thallium	μg/L	7.2	TR	112 420,000	TR		TR	25,000	TR	105	D	106	D		D	<5	<5	<5		
Zinc	μg/L	69,000	TR	420,000	IK	420,000	IR	23,000	IK	103	D	100	Ь	1,001	D					
Inorganic Non-metallics	100	0.22	Fores	F 18660	Tools.				line's		3.5	100								
Asbestos	MFL			126,000	TR		TR							200			<40			***
Boron	μg/L			120,000	IK	120,000	110				-		-				<100			
Bromide	μg/L	215,000	TR	28,000	TR	28,000	TR	200	TR	41	TR		TR		TR					
Cyanide (free)	μg/L	215,000	IR	84,000	T	84,000	T	200	11	41	IK						350			
Fluoride	μg/L			140,000	T	140,000	T										<100			882
Nitrite (as N)	µg/L			2,240,000								12.0				***	320			***
Nitrate (as N)	μg/L ug/L		-	2,240,000	1	2.240,000	1.				-					252	320			***
Nitrate + Nitrite (as N)	µg/L		-		1						-						<500		1242	
Orthophosphate	µg/L			T September	-						-						70,100			
Silica Sulfide	μg/L μg/L		-		1		-			100	T			100	Т		<1000	***		***
Major Anions	hg/L	- 7	1	amediation	-			-	-				_							
	ug/l						1				l			T		T	4,620			
Chloride Sulfate	μg/L μg/L		-		1		1					-	-		-		3,250	•		
Carbonate (as CaCO ₃)	μg/L μg/L				-					***							<1000			
Bicarbonate (as CaCO ₃)	µg/L							***									128,000	-		
Major Cations	1.0		-		_		-		-		-	-	_		A					
Calcium	µg/L		T	-	1	T	I					-			T		27,500			
	μg/L μg/L		-		1						-	//					4,730	***	2000	
Magnesium Potassium	μg/L μg/L		-														<1000			***
Sodium	µg/L µg/L				1		1									-	21,600	<u> </u>	-	
Physical Properties	L. F. F.		-		-		-	-	AV III		-	-		-	_	Et English		A SHIPTURE	10000	
Alkalinity (total as CaCO ₃)	µg/L		1		T	T	J	10	T				T				128,000			•••
Hardness	mg/L		-		1			***					-				88			(A-4)
Total Dissolved Solids			1		1		1		-				İ		-		175,000		1000	V e. 2/1
Total Suspended Solids	µg/L mg/L		+		1		1			80	Т	80	Т				<5	***		
Color Color	color units		1														<1	222	***	***
Biologicals	Color units		1	- 200	_		_	- 1777	-				-		_					
Coliforms (total)	MPN/100 ml		T		1		T		1		T						300	5-2	(***)	
E. Coli	MPN/100 ml		1	235	1	576	1	***									<2	222		
	1 10 100 Hu	1000	1	1 200	1	1	_			- Colonia	1	-	-	•	_					

| Record | MPN/100 ml | --- | --- | 235 | --- | 576 | --- | --- | --- | --- | Netes:
| Notes:
| Green cell color indicates ADEQ designated uses that are assumed to apply to site location.
| Su = standard units |
| Su = standard units |
| Su = standard units |
| Su = mitroSiemens per centimeter |
| mgL = milligrams per liter |
| MIL = Millior Fibers per liter |
| MPN/100 ml = most probable number per 100 milliliter |
| --- = not applicable |
| T = total |
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DC 4.1E RESE-1001058 2/10/2004 1.5

011		XI								Aquat		d Wildlife		Aquatic a						
Name	Units	Fish Consumpt	ion	Full-bod Contac		Partial-be Contac		Agriculti Livestor Waterin	ck			water) Chroni		Wildlif (ephemer Acute	al)	Dissolved Results	Total Results	Total Recoverable Results	Field Parameters	Use Exceeded
		Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Means	Lex d	<u> </u>		
ield			_		_		_		_		_								7.1	120
pH	s.u.			6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0	***	6.5-9.0					20	***
Temperature	°C		***									***							243	
Specific Conductance	μS/cm	***	***		***	***	***		***		***	6							6.8	100
Dissolved Oxygen	mg/L			***						6	***		***					***	0.6	
Turbidity	NTUs	-															-			
letals		-			Times I				1000		55						8.2			222
Aluminum	µg/L			***		***	TO	2012			D	30	D			<0.5	<0.5	<0.5		***
Antimony	μg/L	4,300	TR	560	TR	560	TR	200	TR	88 360	D	190	D	440	D	1.2	1.8	1.1		
Arsenic	μg/L	1,450	TR	50	TR D	420	D		IK	360	U	190	1		_	13	1.0			452
Barium	μg/L	1 120	TD	98,000		98,000	TR			65	D	5.3	D			<0.2	<0.2	<0.2		•••
Beryllium	μg/L	1,130	TR	2,800	TR	2,800 700	TR	50	TR	3.6	D	2.0	D	55	D	<0.1	<0.1	<0.1		
Cadmium	µg/L	84	TR	700	TR		TR	1,000	TR	3.0		2,0				0.33		0.4	2	22.
Chromium (total)	μg/L			100	TR	100	1R	1,000	IK				1000			0,55	<0.7			
Cobalt	µg/L			1,300	TR	1,300	TR	500	TR	11.6	D	7.8	D	20	D	<2.1	<2.1	<2.1		***
Copper	μg/L			1,300	1K	1,300	IR	300	110	11.6	-	7.0					<13		220	444
Iron	μg/L			15	TR	15	TR	100	TR	54.5	D	2.1	D	115	D	<1	<1	<1		
Lead	μg/L			196,000	TR	196,000	TR	100	11	34.3								<1	34441	***
Manganese	µg/L		TR	420	TR	420	TR	10	TR	2.4	D	0.01	D	5.0	D	<0.2	<0.2			
Mercury	μg/L	0.6	1K	+20	IK	420				2.7			-				4.9		(****)	
Molybdenum	µg/L	4,600	TR	28,000	TR	28,000	TR			411	D	46	D	3,646	D	3.9		<1.3		***
Nickel	µg/L	9,000	TR	7,000	TR	7,000	TR	50	TR	20.0	TR	2.0	TR	33	TR		<0.8	<0.8		1999
Selenium	μg/L	107,700	TR	7,000	TR	7,000	TR			3	D			2.6	D	< 0.1	<0.1	<0.1	2 2	
Silver Thallium	μg/L μg/L	7.2	TR	112	TR	112	TR			700	D	150	D			<0.4	<0.4			
Zinc	μg/L	69,000	TR	420,000	TR	420,000	TR		TR	103	D	104	D	975	D	0.7	1.4	1.8	***	•••
norganic Non-metallics	руг	07,000		1011111					-				_							
Asbestos	MFL																		***	***
Boron	μg/L			126,000	TR	126,000	TR							(***)		-	<7			
Bromide	µg/L																102	***		***
Cvanide (free)	µg/L	215,000	TR	28,000	TR	28,000	TR	200	TR	41	TR	9.7	TR	84	TR		111	***	***	***
Fluoride	μg/L	***		84,000	T	84,000	T							***		()	313		***	
Nitrite (as N)	μg/L			140,000	T	140,000	T	221									<100			
Nitrate (as N)	μg/L			2.240,000		2,240,000	T										380	***		•••
Nitrate + Nitrite (as N)	μg/L										***			(***)		***	380	•••		
Orthophosphate	μg/L											***					<500	***	(***)	***
Silica	μg/L					***												***		
Sulfide	μg/L									:-:-100:-:	T			:-:100:-:	T		<1000 ···	-		***
Major Anions								VIII.			100		_	-						
Chloride	μg/L	***			***	***											4,290	***		•••
Sulfate	µg/L	22															3,000			
Carbonate (as CaCO ₃)	μg/L	-						(•••					<1000	***		
Bicarbonate (as CaCO ₃)	µg/L			•••										-		(***)	129,000		1880	
Major Cations				-					_				_			P. Contract	r			10000
Calcium	μg/L																27,100	1998 N		
Magnesium	μg/L	W				(555)					-	-					4,340			
Potassium	µg/L			***						•••		***					972			
Sodium	μg/L					***						10(***					21,400			-
Physical Properties							_		_		_		_		_		120,000		T I	
Alkalinity (total as CaCO ₂)	µg/L	-															129,000			
Hardness	mg/L	***						***								***	86	•••		
Total Dissolved Solids	μg/L	***		***			***	***					***				202,000			
Total Suspended Solids	mg/L					***				- 80	T	_	T				<5			
Color	color units																<1			-
Biologicals	MPN/100 ml		_	I	_		_		_						_		900		***	

QUEEN CREEK

PUMP STATION

Sample Location: Pump Station Sample ID: RESE-1001001 Sample Date: May 15, 2003

PARAMETERS AND CONSI	TITUENTS	- A			T	SURFA	CE	WATER STA	ND.	ARDS					I			R	ESULTS	
		Fish Consumpt	ion	Full-body Contact		Partial-bod	y	Agricultura Livestock Watering		Aquat	arm	d Wildlife water) Chronic		Aquatic and Wildlife (ephemeral) Acute		Dissolved Results	Total Results	Total Recoverable Results		
Name	Symbol	(µg/L)	Fraction	(µg/L)	Fraction	(μg/L)	Fraction	(µg/L)	Fraction	(µg/L)	Fraction	(µg/L)	Fraction	(µg/L)	Fraction	(µg/L)	(µg/L)	(µg/L)	Field Parameters	Use Exceeded
Field				(100 I	_	4.5-9.0	-	6.5-9.0				1			1				7.6	
pH Temperature	°C	•••	Н	6.5-9.0	+	4.5-9.0		6.5-9.0			\vdash								14.8	
Specific Conductance (µS/cm)	EC			***	t		6								1	-		***	746	
Dissolved oxygen (mg/L)	DO			2222	1				3	6		6				***	***		7.5	•
Turbidity (NTUs)	T						3,	//						***	100	(222)	•••	1994	0.79	•
Metals			,_,		_		_		_						_					100
Aluminum	Al			***	-		770			88	D	30	D		-	<6.0	454 <6.0	<6.0		
Antimony	Sb As	4,300 1,450	TR	560 T 50 T	R		TR TR	200	TR		D		D	440 1	D	<3.0	<3.0	<3.0		
Arsenic Barium	Ba	1,430	III	98,000 I			D	200	111		-					21.9		<2.0		
Beryllium	Be	1,130	TR	2,800 T			TR		M	65	D	5	D			<2.0	<2.0		***	
Cadmium	Cd	84	TR	700 T			TR	50	TR		D	7	D	310 1	D	<0.1	<0.1	<0.1		
Chromium (total)	Cr			100 T			TR	1,000	TR		\Box	_			_[***	220	<6.0		
Cobalt	Co		\square		1				-		-		F				<6.0	7.0		
Copper	Cu	***	\vdash		R		TR	500	TR		D	31	D	91 1	D	<3.0	593	3.9		
Iron	Fe		H	15 T	R	15	TR	100	TR	300	D	12	D		D	<3.0	<5.0	<3.0		
Lead Managanese	Pb Mn		Н		R		TR	100	IR	300	10	-12	۲		-	\\ \tag{3.0}		268		
Manganese Mercury	Hg	0.6	TR		R		TR	10	TR		D	0.01	D	5 1	D	.∵.<0.2∵.	<0.2			•
Molybdenum	Mo		ļ.,,	***	1	***			1		F						22.5		•••	•
Nickel	Ni	4,600	TR		R		TR		1	1,596	D	177	D	14,171	D	<10.0		<10.0		
Selenium	Se	9,000	TR		R	7,000	TR	50	TR	20	TR	2.00	TR	33 T	ΓR		<3.0	<3.0		
Silver	Ag	107,700	TR	7,000 T	R	7,000	TR	-		42	D			42 1	D	<0.1	<0.1	<0.1	***	
Thallium	TI		TR		R		TR			700	D	150	D			<2.0		<2.0		
Zinc	Zn	69,000	TR	420,000 T	R	420,000	TR	25,000	TR	400	D	403	D	3,797	D	<5.0	<5.0	<5.0		
Inorganic Nonmetalics	ř		_		-				_	T			_		_		<1.7			
Asbestos (MFL)	В		\vdash	126,000 T	TD	126,000	TR				Н		H			<40.0				•
Boron Cynanide (free)	CN	215,000	TR	28,000 T			TR	200	TR		TR	9.70	TR		IR	-10.0	<100.0			•
Fluoride	F			84,000			T						Ť			230		***		
Nitrite (as N)	NO ₂ -N		П		T	140,000	T	1 K 5 *** 5 //				1000			1	***	ND	1,778		
Nitrate (as N)	NO3-N			2,240,000	T	2,240,000	T		10							-	2,700	***		
Nitrate + Nitrite (as N)	NO2+NO3-N			***	4						_		_			***	2,700	***		
Phosphorous	P SiO ₂		\vdash	(1000)	4		_										43,800			
Silica	5102		-		+					·.·.100 · .·	T		-		Т		<1,000			
Sulfide Major Anions			Щ		_	Harris Control	_	200	_	100 .	1.		_		-					
Chloride	Cl	T	П		T	1			1						1		9,810		-	•
Sulfate	SO ₄	1277	T		7		15			1						220	54,200	1988	(222)	
Carbonate	CO ₃				1			1999 1889		(***							<1,000		***	
Bicarbonate	HCO ₃				1				L	7446						***	323,000		***	
Major Cations			_		_		_				_									
Calcium	Ca	2777		***	_[123,000			•
Magnesium	Mg		\vdash		1				-		-		H		4	•••	29,100	1,000	***	-
Potassium	K		\vdash	200	4				+		\vdash		-				1400 11,300			
Sodium Padianuelidas	Na		_		_				_		-		-				11,500	-		
Radionuclides Gross alpha activity (pCi/L)		T		T	T				T								-2.4			
Gross beta activity (pCi/L)					1	-						1000			W.		-3.6	14.21		•
Radium 226+228 (pCi/L)		***	Т	***				-		***		1999			E.		-2.2			
Uranium (mg/L)	U				1							•••			N.		0.00071	1 1 1 1 1		
Physical Properties	41-12		_		-				1	T			_		ASS.		333.000			
Alkalinity (total)			\vdash		-				-		\vdash	***	H				323,000 426,000			•
Hardness Total discolund colide	TDS		+		-				1		-		-				523,000	5445		
Total dissolved solids Total suspended solids	TSS (mg/L)	***	+		\dashv				1	80	T	80	Т		100		18.8			
Color (color units)	155 (mg/L)	***	+		1				1	***	Ė	***	Ė	4	1		20			
Biologicals (MPN/100ml)			-		-		_		0		•									
Coliforms (total)		222				***				***		123			1				****	
E. Coli	***		Г	235	Т	576	T	***			L	- 000			U		***		***	
Additions or Changes			_		_						_		_		-	120			I	
Bromide	Br		-		-	16.01		((1,0)	-		\vdash		-			130	ND			· · · ·
Orthophosphate	PO ₄	***		6.5 to 9.1		4.5 to 9.1		6.5 to 9.1		***	1	1	_				ND			

Sample Location: Queen Creek - Pump Station Sample ID: RESE-1001024 Sample Date: September 4, 2003

	Fish Consumpti (µg/L) 	Fraction in	Full-body Contact		SURFAC	EW	ATER ST	AND	ARDS					T		N. C.	RE	SULTS	The second second
H C C	Consumpti (µg/L) 	ion	Contact										Aquatic at	7					
H C C	(µg/L) 	ion			Partial-body Contact		Agricultur Livestock Watering			arm	d Wildlife nater) Chronic		Wildlife (ephemera Acute		Dissolved Results	Total Results	Total Recoverable Results		
H C C		_	(μg/L)	Fraction		Fraction	(µg/L)	Fraction	(µg/L)	Fraction	(µg/L)	Fraction	(µg/L)	Fraction	(µg/L)	(μg/L)	(µg/L)	Field Parameters	Use Exceeded
C C			(5, 00	-1	15.00	-	6.5 to 9.0					-						7.4	
C O	590	H	6.5 to 9.0	-	4.5 to 9.0		0.3 10 9.0							100				18.7	•
	***												-	8				770	
ub.				_					- 6		6	4					2 4- 31	1.6	A&Ww Acute and Chre
		Ш		_			-				4	_	***	15				1.6	
AI		П	***	Т	[П	2			П	1	Т				38			
	4,300	TR		TR		TR	2206		88	D		D		7.0	<3.0	<3.0	<3.0		
	1,450	TR		TR		IR	200	TR	360	D		D	440	D	<3.0	<3.0	<3.0		
Ba		TD								D		D		-					
								TR				-		D				-	
r		111		TR				TR	***		***				<6.0		<6.0		
l'o								1	***				-			<6.0			1
Yu		\sqcup		TR		TR		TR		D		D		D					
		\vdash		Tυ		TD		TR		D		D		D				_	
dn .		\vdash						110	334.03	1		-			-		50.2	V-127	
Ig.	0.6	TR				TR	10	TR	2.40	D	0.01	D	5	D	<0,2	<0.2		-	•
Ло	***		***		20,000	75			1.027	1	202.09	P	16.310	1	<10.0			0	· •
								TD				_						_	
								*14				***		D	<0.1	<0.1	<0.1		•
n i	7.2	TR		TR					700	D	150	D			<2.0	<2.0		722	•
	69,000	TR	420,000	TR	420,000	TR	25,000	TR	460.57	D	464.34	D	4,371	D	<5.0	<5.0	<5.0		
												-							
n		-		TD		TD				\vdash		-				<40.0			
	215,000	TR					200	TR		TR		TR	84	TR		<10.0			
F		1	84,000	T											250				•
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Sample Location: Queen Creek - Pump Station Sample ID: RESE-1001029 Sample Date: November 3, 2003

	TITUENTS		_			SURF.	ACE	WATER ST	IAN	DARDS				Aquatic a	nd I			P	ESULTS	- Indiana
		Fish Consumpt		Full-body Contact		Partial-bo		Agricultur Livestoci Watering	k g		arm	nd Wildlife water) Chroni		Wildlife (ephemer: Acute	al)	Dissolved Results	Total Results	Total Recoverable Results		
Name	Symbol	(µg/L)	Fraction	(µg/L)	Fraction	(µg/L)	Fraction	(µg/L)	Fraction	(µg/L)	Fraction	(µg/L)	Fraction	(μg/L)	Fraction	(µg/L)	(µg/L)	(µg/L)	Field Parameters	Use Exceeded
eld											_									*
pH	pН	***	-	6.5 to 9.0		4.5 to 9.0		6.5 to 9.0	Н	***	Н	200	\vdash				***		7.5 13.6	
Temperature Specific Conductance (μS/cm)	°C EC		-		_						Н		\vdash						872	
Dissolved oxygen (mg/L)	DO									6		6	П		47	***	(***		6.9	(/ A ()
Turbidity (NTUs)	Turb.										П		П					1,924.1	1.3	•
etals	2 500 55		_																	
Aluminum	Al									244							21		***	
Antimony	Sb	4,300	TR	560	TR	560	TR			88	D	30	D			<3.0	<3.0	<3.0		*
Arsenie	As	1,450	TR	50	TR	420	TR		TR	360	D	190	D	440	D	<3.0	<3.0	<3.0	***	
Barium	Ba	1.120	T.D.	98,000	D	98,000	D	***			- n	£ 2			9.0	16.7	<2.0	<2.0		*
Beryllium	Be	1,130 84	TR	2,800	TR TR	2,800 700	TR		TR	65 5.34	D	5,3 2.6	D	80.8	D	<2.0 <0.1	<0.1	<0.1		
Chromium (total)	Cd Cr		IK	700 100	TR	100	TR		TR	3.34	1	2.0	D		-	<6.0		<6.0		
Chromium (total) Cobalt	Co		1		110		110	***	11		Н		П				<3.0	***		*
Copper	Cu		T	1,300	TR	1,300	TR		TR	16.3	D	10.7	D	28.3	D	<3.0	<3.0	<3.0	***	*
Iron	Fe									***		***		***			<20			*
Lead	Pb			15	TR	15	TR		TR	80.8	D	3.2	D	170.63	D	<3,0	<5.0	<3.0		:
Manganese	Mn		L	196,000	TR	196,000	TR			- ::-			닏	5.00			-0.2	6.7		*
Mercury	Hg	0,6	TR	420	TR	420	TR		TR	2.4	D	0.01	D	5.00	D	<0.2	<0.2	***	***	
Molybdenum	Mo	1,600	TO	28 000	TD	28 000	TD	***		557.9	-	62.0	D	4954.3	D	<10.0	15.1	<10.0		*
Nickel	Ni So	4,600	TR	28,000	TR	28,000 7,000	TR		TR	20.0	TR	62.0	TR	33	TR	<10.0	<3.0	····<3.0····	***	
Selenium	Se	9,000 107,700	TR	7,000	TR	7,000	TR		11	4.93	D			4.9	D	<0.1	<0.1	<0.1		
Silver Thallium	Ag Tl	7.2	TR	112	TR	112	TR			700	D	150	D	4.9	-	<2.0	<2,0	<2.0		
Zinc	Zn	69,000	TR		TR		TR		TR	139.6	D	140.8	D	1325.2	D	<5.0	<5.0	<5.0		*
organic Non-metallics		,,,,,,,,,	1 - 14			30,000					-			-			2000	- Distributed in the second		
Asbestos (MFL)		1000	L							22				***	1		- 100			*
Boron	В	***		126,000	TR	126,000	TR			***		(FFE)				<40.0	<40			*
Cyanide (free)	CN	215,000	TR	28,000	TR	28,000	TR		TR	41	TR	9.7	TR	84	TR		***		***	
Fluoride	F	(end)	1	84,000	T	84,000	T	***		5555	_		Н			<100.0	240			*
Nitrite (as N)	NO. N		+	140,000	T	140,000	T				Н		Н		H	222	ND 11,000			
Nitrate (as N) Nitrate + Nitrite (as N)	NO ₃ -N NO ₂ +NO ₃ -N		+	2,240,000	1	2,240,000	1				Н		Н		-		11,000			*
Phosphorous	P		t								\vdash	55014	Н		18	-22		1000	8	
Silica	SiO ₂	***	1								Н		П			220	45,700			•
Sulfide		1000	i –					•••		100	T	***		100	T	***	<1,000.		/***	*
Iajor Anions							_		_		_	30100	_		_					
Chloride	CI						18			***		•••				***	10,100	(844)		*
Sulfate	SO4	***	_			•••					⊢					300	60,800			*
Carbonate	CO ₃	***	+	***	H	***	-	***			\vdash		Н				<1,000 275,000			
Bicarbonate Iajor Cations	HCO ₃		_			***				***	_						272,000		Anthree	
Calcium	Ca		Т			***	181				П			***			130,000			
Magnesium	Mg				Г		III B				Т						29,900	522		
Potassium	K			***		***	10			***		***		***		***	1,200			
Sodium	Na					***	-			***		***	Ш	5			11,000	***		
adionuclides			_	r	_						_		_		_					*
Gross alpha activity (pCi/L)			_	1222		•••		***	-	***	\vdash		H		- 100	***			***	
Gross beta activity (pCi/L)	1.000	***	-		\vdash	***		***			\vdash	***	Н		177					
Radium 226+228 (pCi/L) Uranium (mg/L)	 U	(444)	+		-			***			\vdash	***	Н							*
hysical Properties			-		_		-		_	-	-		_							
Alkalinity (total)	1		T							2020	Т						375,000	***		•
Hardness		20000	1							(555)	Г				7	***	123,000			*
Total dissolved solids	TDS	***	\Box	***						***						***	602,000	817	***	
Total suspended solids	TSS (mg/L)									80	T	80	T	***		222	<5		***	
Color (color units)				***						***		(***	ш				5.0		***	
iologicals (MPN/100 ml) Coliforms (total)	1		_		_						1	1				r -	500			
	***	***	+	235	T	576	T				\vdash		\vdash	***	-		2.0			
				233	1 1	270	1 1				_		_		-		2.0			
E. Coli			T			***		***			T	***		***		***	170	***		*
	Br	***			-	***	1	7			-	***	П		1	***	ND			-

Sample Location: Queen Creek - Pump Station Sample ID: RESE-1001056 Sample Date: February 9, 2004

	TITUENTS					SURF	ACE	WATER S	TAN	DARDS					Ţ			RI	ESULTS	
		Fish	ton	Full-bod	y	Partial-bo Contact		Agricultu Livestoc Waterin	k		warm	Wildlife water) Chroni		Aquatic an Wildlife (ephemera Acute		Dissolved Results	Total Results	Total Recoverable Results		
Nama	Symbol	Consumpt (µg/L)	Fraction	(µg/L)	Fraction	(µg/L)	Fraction	(µg/L)	Fraction	(µg/L)	Fraction	(µg/L)	raction	Atuic (μg/L)	Fraction	(µg/L)	(µg/L)	(μg/L)	Field Parameters	Use Exceeded
Name ield	Stilloot	19-2-1	1 34 1			45.27	1 34-1			4 8					-					
рН	pH		Н	6.5 to 9.0		4.5 to 9.0		6.5 to 9.0		-		***				***	***		7.4 9.3	
Temperature	°C EC		H								+	7244 7244							820	
Specific Conductance (µS/cm) Dissolved oxygen (mg/L)	DO									6		- 6		7-					5.1	A&Ww Acute and Chro
Turbidity (NTUs)	Turb.	***		-				-		***					<u> </u>				0.9	(1)
letals										i i			_	-						
Aluminum	Al	1.200	TD	560	TR	560	TR			88	D	30	D	_	_	<0.5	39.1 <0.5	<0.5		
Antimony Arsenie	Sb As	4,300 1,450	TR	50	TR	420	TR	200	TR	360	D	190	D	440	D	0.83	1.1	0.87		
Barium	Ba		1 IX	98,000	D	98,000	D				1					14.1				300
Beryllium	Be	1,130	TR	2,800	TR	2,800	TR			65	D	5.3	D			<0.2	0.22	<0.2		-
Cadmium	Cd	84	TR	700	TR	700	TR	50	TR	18.45	D	6.1	D	279.4	D	<0.1	<0.1	<0.1 0.53		
Chromium (total)	Cr		\vdash	100	TR	100	TR	1,000	TR		+		Н			0.41	<0.7	0.55		
Cobalt Copper	Co		Н	1,300	TR		TR	500	TR	48.1	D	28.5	D	83.2	D	3	4	2.9		
Iron	Fe	-													M		25.8			
Lead	Pb	- 555		15	TR	15	TR	100	TR	271.5	D	10.6	D	572.94	D	<1.0	<1.0	<1.0	***	- :
Manganese	Mn		700	196,000	TR		TR	10	TD	2.4	D	- 0.01	D	5.00	D		<0.2	2.5		•
Mercury	Hg Mo	0.6	TR	420	TR	420	TR	10	TR	2.4	10		1	3.00	-		10.6			1.
Molybdenum Nickel	Ni Ni	4,600	TR	28,000	TR	28,000	TR			1471.2	D	163.4	D	13065.4	D	1.7		<1.3		5.69
Selenium	Se	9,000	TR	7,000	TR	7,000	TR	50	TR	20.0	TR	2.0	TR	33	TR	1440	<1.6	1.4		
Silver	Ag	107,700	TR	7,000	TR		TR			35.37	D			35.4	D	<0.1	<0.1	<0.1		
Thallium	TI	7.2	TR	112	TR		TR	25,000	70	700	D	150	D	2500.0	D	<0.4	<0.4 3.9	<0.2		7.4s
Zine norganic Non-metallics	Zn	69,000	TR	420,000	TR	420,000	TR	25,000	TR	368.8	D	371.8	D	3500.0	D	0.4	3.9	-0.2		
Asbestos (MFL)	I		T								T		П				***			
Boron	В		t	126,000	TR		TR	***) - I	-	<7.0		***	
Cyanide (free)	CN	215,000	TR	28,000	TR		TR	260	TR	41	TR	9.7	TR	84	TR					
Fluoride	F			84,000	T		T	-			+	200	Н				240 ND			
Nitrite (as N)	NO, -N		╀	140,000 2,240,000	T	140,000 2,240,000	T		-		+		Н				9.8			
Nitrate (as N) Nitrate + Nitrite (as N)	NO ₂ +NO ₃ -N		+	2,240,000	1	2,240,000	1				+	9229				-	9.8			
Phosphorous	P		+									See.								
Silica	SiO ₂	***		***					2,63			Serve	Ц							
Sulfide			L							100	·. T	9-4	Ц	100	T	-	<1,000	-		
Major Anions			_								П			30			11,200		-	
Chloride Sulfate	Cl SO4		+	***	\vdash					***	\top		П				61,800			•
Carbonate	COi	324	T							S 3		•••					<1,000			
Bicarbonate	HCO ₃	144		122	\perp						\perp	***	Ш			***	385,000			
Major Cations	1 0		_														104,000	222	800	
Calcium Magnesium	Ca Mg		+	;;;;;							\vdash						31,000			
Potassium	K	1446	T							***		***			35	***	1,060	-	1999	
Sodium	Na			222						1000	\perp	***					10,900		-	
Radionuclides		100		_			_					- 0	$\overline{}$	Toleran Inc.				983	I	
Gross alpha activity (pCi/L)		***	╁		H	***	+			***	+		Н							
Gross beta activity (pCi/L) Radium 226+228 (pCi/L)			+		T	V 0							П	-		-			1995	•
Uranium (mg/L)	U		T					W					П			•••	***			•
Physical Properties			_		_				_								205 225	1 200	1/880	
Alkalinity (total)		-	+	•••	-				-	- 100	+		\vdash				385,000 387,000			•
Hardness Total dissolved solids	TDS	***	+	***	\vdash		-				+		\vdash				545,000		***	•
Total suspended solids	TSS (mg/L)		1		T		1		1	80	Т	80	T			-	<5		***	•
Color (color units)	(ing.t.)	(2000)											T	44		7.22.0V	ND		1	•
Biologicals (MPN/100 ml)			_		_				_		_		-				350		1	
Coliforms (total)		The same	+	225	-	 57/	-		+		+	***				***	350 ND			-
E. Coli			_	235	T	576	T		1	444		***	_		_		ND			-
	Br	1	T		Т		T		T								192			
Additions or Changes (mg/L) Bromide		1000000	-		1		1	- 444				202	_		_		ND			

Sample Location: Queen Creek - Pump Station Sample ID. RESE-1001084 Sample Date: May 25, 2004

		1		T	SURF	I	WATERS	I		-		П	Aquatic ar		F 36 0			ESULTS	
14.15	Fish Consumpt	tion	Full-body Contact		Partial-bo Contact		Agricultu Livestoc Waterin	k		varm	d Wildlife water) Chron		Wildlife (ephemera Acute		Dissolved Results	Total Results	Total Recoverabl e Results		
	1168	Fraction		Fraction		Fraction		Fraction	(µg/L)	Fraction	(μg/L)	Fraction	(µg/L)	raction	(µg/L)	(µg/L)	(µg/L)	Field Parameters	Use Exceeded
Symbol	(µg/L)	161	(µg/L)	14.1	(µg/E)	1 14 1	(Pg/D)		(Pig. Li)	1 111	(F) 2)	1341	4-2-1	1 24 1	95-7	4.6-7			
pH			6.5 to 9.0		4.5 to 9.0		6.5 to 9.0		***		1444		-		***	444		7.3	· ·
°C			***							\perp		\vdash				***			-
	(\perp			-			3		Н									A&Ww Acute and Chr
	***	\perp					270		1,000										Accord Acute and City
Turb.		Ш	***	Ш	***		***		***				***						
43			700						land.	Т	(120)	Т		133		51			
		TD		TD		TD				D		D					<3.0		
								TR					440	D	<3.0		<3.0	100	
		1													14.1				
	1,130	TR		TR	2,800	TR			65	D	5.3	D			<2.0	<2.0	<2.0		
Cd	84	TR	700	TR	700	TR	50	TR	15.83	D	5.5	D	239.8	D	< 0.1	<0.1			•
Cr			100	TR	100	TR	1,000	TR				\perp			<6.0				
Co	***	\perp					***			\perp	***	\perp							
			1.300	TR	1,300	TR	The second second	TR		D	25.2	D		D					· ·
	- 22					-		-		- B	0.1	- D		D					-
								1K		D		1D		D	3.0				•
		TD						TD		n		n		D	<0.2				
		IK	420	IK	420	IK		IN	2.4	10		10	3.00	1					
		TR	28,000	TR	28,000	TR			1305.4	D		D		D	<10		<10	***	
								TR	20.0	TR		TR	33	TR		<3.0	· · · <3.0 ·	•••	
									27.74	D			27.7	D	<0.1	<0.1	<0.1		
	7.2	TR	112	TR	112	TR			700	D	150	D		7	<2.0	<2.0			
	69,000			TR	420,000	TR	25,000	TR	327.2	D	329.9	D	3105.1	D	<5.0	<5.0	<5.0		*
		-	in the rails of									77							
								1			-	\perp			- 1		***	***	•
В	***		126,000	TR	126,000	TR	***	10		\perp									
	215,000	TR		TR				TR		TR	9.7	TR		TR					· ·
F	-			T						\perp	***	\perp							
				T		T		3		\vdash		+							
		-		T	2,240,000	T	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	100		-		\vdash							
		_							110.0	\vdash	_	+				9.0			
		+		Н		Н				+		+				45,600			•
		-		Н			and the second		108 .	. т		\vdash		T					
-										1.1		_	2001	1					
CI		T								T				T		10,600			
		1		П				133		1	***					58,800			
CO;					1/		-	3	***						ŧ	<1,000			
HCO ₃	- 60				1		•••		(244)				***		***	393,000		***	
			100									-		_					
Ca			200		•••				•••	\perp	S 27 73.00	\vdash							
		_								\perp		+		-					
		+-		\vdash		\vdash		-		+		+							
Na		_	444						****					-		10,500			
		_				1		1		T						4.02		1	(4))
		+		\vdash		\vdash		-		+									
	-	+			2.				1000			\top						***	
		1		П						\top	1240	\top				0.0013		-	•
	_	-		_		_							On the same					Una	
	***	J	***				***				***		-			393,000			
			222								-		•••			336,000			•
TDS	-	\Box		\Box				-	***		***	1			***	544,000	***		•
TSS (mg/L)					***			-	80	T		T		-					
		上					-			\perp			***			ND			55.0
		_						1				_		-		1 400			
		+	225	-	676	T		-		+	****	+							
			255	1 1	3/6	1 1		100						1		23			
Br	T	T						T				T	***	П		130	I	-	
PO ₄		+		\vdash						\top							3225		
	© C EC EC EC EC EC EC EC EC EC EC EC EC EC	PH *C EC DO Tutb Al Sb 4,300 As 1,450 Ba Be 1,130 Cd 84 Cr Cu Fe Pb Mn Hg 0.6 Mo Ni 4,600 Se 9,000 Ag 107,700 Tl 7.2 Zn 69,000 Ag 107,700 Tl 7.2 Zn 69,000 CN 215,000 F NO,*N NO,*N NO,*N NO,*N NO,*N NO,*N NO,*N CI SO4 CG CG HCO3 Ca Mg K Na TESS (mg/L) TESS (mg/L) TESS (mg/L) TESS (mg/L) TESS (mg/L) TESS (mg/L) TESS (mg/L) TISS (mg/L) TISS (mg/L) TISS (mg/L) TISS (mg/L) TISS (mg/L) TISS (mg/L) TISS (mg/L) TISS (mg/L) TISS (mg/L) TISS (mg/L) TISS (mg/L) TISS (mg/L) TISS (mg/L) TISS (mg/L) TISS (mg/L) TISS (mg/L) TISS (mg/L) TISS (mg/L) TISS (mg/L) TISS (mg/L) TISS (mg/L) TISS (mg/L) TISS (mg/L) TISS (mg/L) TISS (mg/L) TISS (mg/L)	PH *C EC DO Turb Al Sb 4,300 TR As 1,450 TR Ba Be 1,130 TR Cd 84 TR Cr Co Cu Fe Pb Mn Hg 0.6 TR Mn Ni 4,600 TR Ag 107,700 TR TI 7.2 TR Zn 69,000 TR EN B CN 215,000 TR Se 9,000 TR Ag 107,700 TR TI 7.2 TR Zn 69,000 TR Co B Co B Co B Co B Co B Co B Co B Co B Co B Co B Co B Co B Co B Co B Co B Co B Co B To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To To	pH	pH	pH	PII	P I	P I	PH	PII	P	PII	PI	Pi	PH	Feb	GH 6.5 to 90 6.5 to 90 6.5 to 90	PH

Sample Location: Queen Creek - Pump Station Sample ID: RESE-1001096 Sample Date: August 3, 2004

	TITUENTS				T	SURFAC	MAILE	SIAN			115.000	T	Aquatic ar					ESULTS	
		Fish Consump	tion	Full-body Contact		Partial-body Contact	Agrice Lives Wate	tock		warm	nd Wildlife water) Chroni	ic	Wildlife (ephemers Acute		Dissolved Results	Total Results	Total Recoverable Results		
Name	Symbol	(µg/L)	Fraction	(µg/L)	Fraction	(µg/L)	(µg/I	Fraction	(µg/L)	Fraction	(µg/L)	Fraction	(µg/L)	Fraction	(µg/L)	(µg/L)	(µg/L)	Field Parameters	Use Exceeded
eld		34.0																	
рН	pH		\perp	6.5-9.0	_	4.5-9.0	6.5-9	0	-	+		\vdash					***	7.7	(*)
Temperature	°C	***	\vdash	244	+		-			+		\vdash						830	
Specific Conductance (µS/cm)	EC		+		+				6		- 6							2.9	A&Ww Acute and Ch
Dissolved oxygen (mg/L) Turbidity (NTUs)	DO T		+		1						-			H				0.01	
etals					_		- CHI 141.00												le control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la control de la
Aluminum	Al	244														<20			•
Antimony	Sb	4,300	TR	560	IR	560 T			88	D	30	D			<3.0	<3.0	<3.0		•
Arsenie	As	1,450	TR		IR	420 T		TI		D	190	D	440	D	<3.0	<3.0	<3.0		
Barium	Ba				D	98,000 E		-		-				\vdash	14.4		<2.0	100	
Beryllium	Be	1,130	TR		IR	2,800 T		77	65	D	5.30	D	225	D	<2.0 <0.1	<2.0 <0.1	<0.1		
Cadmium	Cd	84	TR		IR IR	700 T) TH		10	5.24	P		12	<6.0		<6.0		
Chromium (total) Cobalt	Cr Co			100	IR		1,00	111			***	\vdash	-			<6.0	***		•
Copper	Cu		+		TR	1,300 T		TI	40	D	24	D	69	D	<3.0	<3.0	<3.0		•
Iron	Fe		1					300	200							<20			- 100 H
Lead	Pb			15	TR	15 T		TI	221	D	8.61	D	466	D	<3.0	<3.0	<3.0		
Manganese	Mn		Г		TR	196,000 T			1222			П	•••			•••	4.90	200	- :
Mercury	Hg	0.60	TR		IR	420 T		TI		D		D	5	D	<0.2	<0.2	***		
Molybdenum	Mo		1			***		357		-	120	-	11.000	-		10.2	 		
Nickel	Ni	4,600	TR		TR	28,000 T			1,243	D	138	D	11,036	D	<10	<3.0	<10		
Selenium	Se	9,000	TR		TR	7,000 T		П		TR D	-	TR	33 25	TR D	<0.1	<0.1	<0.1		
Silver	Ag	107,700	TR		TR TR	7,000 T			700	D	150	D		D	<0.1	<2.0	-0.1		
Thallium	71 Zn	7.20 69,000	TR		TR	420,000 T		0 TI		D		D	2,956	D	<5.0	<5.0	<5.0		
Zine organic Nonmetalics		07,000	118	720,000	.14	140,000 11	20,00	- 10	9 211	10		10	_,,,,,,					-	
Asbestos (MFL)			T	[T							Γ				144			
Boron	В	9==6	\top	126,000	TR	126,000 T	R	J. B.						100		<40			
Cynanide (free)	CN	215,000	TR	28,000 ′	TR	28,000 T		T	41	TR	9.7	TR	84	TR				***	
Fluoride	F	***			T	84,000		16 30		_	***					260			
Nitrite (as N)	NO ₂ -N		\perp		T	140,000				_	***			-		ND		***	
Nitrate (as N)	NO ₃ -N	***	\perp	A1-1-11-2-1	T	2,240,000				+		-		+		12,000			-
Nitrate + Nitrite (as N)	NO ₂ +NO ₃ N		-	***	+					-		-	***	+		12,000			
Phosphorous Silica	P SiO ₂	***	+		+					+-		+		+		45,100		***	
Sulfide	***		+		+				100	. T	***		100	. T		··.<1000.	***	***	•
Tajor Anions					_				-		×011	-		_					
Chloride	Cl		T	\$- 2	1						1000					11,900	220		
Sulfate	SO ₄	19461									***		1	13	***	60,100	***	(777)	
Carbonate	CO	***	1			***										<1000	***	***	•
Bicarbonate	HCO ₃		T	(444)											***	393,000			
lajor Cations							-												
Calcium	Ca	***	\perp	S-175	_			_		_	***	-		+	122	778,000	7	***	-
Magnesium	Mg	0000	-	***	-	***					***	-		+	***	29,900			
Potassium	K		+	***	+				(-		-				1,300			
Sodium	Na				_					-		1-0				11,000			
Radionuclides Gross alpha activity (pCi/L)	-		T		T	[1	T	T					I		1000		7222	
Gross beta activity (pCi/L)			1					39/		\top							1220	2400	•
Radium 226+228 (pCi/L)				***							***			-			•••		•
Uranium (mg/L)	U	***	I	***		2		11 1							1				<u> </u>
hysical Properties			,				-	-	_	-		-		-		202.000	17	_	
Alkalinity (total)		15000	1			-				4		+		-	***	393,000		-	- :
Hardness	(444)	***	-		1					+		+		-		317,000 536,000	-		· :
Total dissolved solids	TDS		1		-				80	-	80	т		-	***	<5	***		
Total suspended solids	TSS (mg/L)		-		-				80	- 1 1	80	+ 1		-		10			
Color (color units) Biologicals (MPN/100ml)			1							_									
Coliforms (total)	1		1		Т	T	1			1	***	T		1	7997	1,600	(200)		
E. Coli				235	Т	576	Г				15-22					130		(1000)	
Additions or Changes					_				16-00-		4	_		-					T .
	Br	***			1			_		_		-		-		180			<u> </u>
Bromide Orthophosphate	PO ₄										****				1990	ND	115550	***	<u> </u>

Queen Creek: Pump Station RESE-1001166 11/3/2004 0.25

	tuents		Т	-	_	S	urfac	e Water	stand	-	320		-	Aquatic	and			Results		
	1	Fish		Full-bo	dy	Partial-b		Agricult Livesto				d Wildlife water)		Wildli (epheme	fe					
Name	Units	Consump	tion	Contac	et	Contac	ct	Wateri		Acut	e	Chron	ie	Acuto	30000	Dissolved Results	Total Results	Total Recoverable Results	Field Parameters	Use Exceeded
		Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction					
eld																			72	
pH	s.u. °C	***		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0			***		7.3	
Temperature Specific Conductance	μS/cm										1					222	6263		857	9
Dissolved Oxygen	mg/L	***				10				6		6							4.9	A&WwwA & A&W
Turbidity	NTUs	***		***				***		•••		(***)		****		100	(225)		0.88	
etals																				
Aluminum	μg/L	775											-			222	<20		244	(300)
Antimony	μg/l.	4,300	TR	560	TR	560	TR	-		88	D	30	D			<3	⋖3	<3		
Arsenic	µg/L	1,450	TR	50	TR	420	TR	200	TR	360	D	190	D	440	D	<3 16	<3 	<3	***	
Barium	µg/L	1,130	TR	98,000	D TR	98,000 2,800	TR			65	D	5.3	D			<2	<2	<2		***
Beryllium Codminen	µg/L	84	TR	700	TR	700	TR	50	TR	16.7	D	5.7	D	252.9	D	<0.1	<0.1	<0.1		
Cadmium Chromium (total)	μg/L μg/L		III	100	TR	100	TR	1,000	TR							<6	****	<6		***
Cobalt (total)	µg/L µg/L							1,000				1994				-	<6	-		***
Copper	μg/L			1,300	TR	1,300	TR	500	TR	44.1	D	26.3	D	76.3	D	<3	<3	ব	***	***
Iron	με⁄Г	***				S 8		***		***				•••			<20			22.2
Lead	µg/L	242		15	TR	15	TR	100	TR	246.9	D	9.6	D	521.2	D	<3	<3	∢		
Manganese	μg/L	22.2		196,000	TR	196,000	TR	3										2.7	***	***
Mercury	µg/L	0.6	TR	420	TR	420	TR	10	TR	2.4	D	001-	D	5.00	D	<0.2	<0.2		(***)	***
Molybdenum	µg/L	***		***						1.261	-	151		12.007.6			12	<10		
Nickel	µg/L	4,600	TR	28,000	TR	28,000	TR	50		1,361	D	151	D	12,087.5		<10	<6	<10 ·×6		
Selenium	µg/L	9,000	TR	7,000	TR TR	7,000	TR	50	TR	20.0	TR D	2.0	TR	33.0	TR	<0.1	<0.1	<0.1		
Silver	µg/L µg/L	7.2	TR TR	7,000	TR	112	TR			700	D	150	D	30.2		<2	<2			
Thallium Zine	μg/L μg/L	69,000	TR	420,000	TR	420,000	TR	25,000	TR	341	D	344	D	3,237.7	D	<5	<5	<5		U40
organic Non-metallics						,,,,,														
Asbestos	MFL														***		-	***	***	
Boron	μg/L			126,000	TR	126,000	TR										<40		***	
Bromide	με∕Ъ	****		(1444)								•••					310			
Cyanide (free)	µg/L	215,000	TR	28,000	TR	28,000	TR	200	TR	41	TR	9.7	TR	84	TR			***	(999)	
Fluoride	μg/L			84,000	T	84,000	T		***								220	***	1444	***
Nitrite (as N)	µg∕L.			140,000	T	140,000	T										<100	***		
Nitrate (as N)	µg/L,	***	***	2.240,000	T	2.240,000	T			***	***	•••	***				12,000 12,000	***	***	
Nitrate + Nitrite (as N)	µg/L,					•••	***				***	•••			***		<500			
Orthophosphate	μg/l.			(200			***			***	1		1				47,900		12.21	
Silica Sulfide	µg/L µg/L	***						***		100	. T	***		100	T		· · · <1000 · · ·			
lajor Anions					_															1/
Chloride	μgЛ.																17,800	5		705
Sulfate	μgЛ.	755						-		***							76,100	•••	1244	
Carbonate (as CaCO ₃)	μg/L	***		***		***				***		***		***	***	327	<1000			
Bicarbonate (as CaCO ₃)	μg/L	***		•••		***	***	***	•••	1995				•••	***		395,000			
lajor Cations			_								_		_	T alcohol	Test	-	00.500	(Second		
Calcium	µgЛ.	***		***											1		90,500 30,900			
Magnesium	μg/L.		***				***					2			+::		1,100		***	
Potassium Sodium	րջ/L րջ/L								1	***						***	11,300	***		***
hysical Properties	1 100		-		-		_		-		_		-							
Alkalinity (total as CaCO ₃)	ид/L		T	***				***		***				2000		177	395,000	7500	72.0	222
Hardness	mg/L															1999.2	353	1555	2555	***
Total Dissolved Solids	μg/L											(22)				1999	554,000	(444)		***
Total Suspended Solids	mg/L									80	T	80	T	•••			<5		82.0	***
Color	color units	•••		2000		•••		•••				0555			-		<			
iologicals	L myree		1		-	_			10.00	100		1 (28.5)	1		T	907000	500	2,000	T	
Coliforms (total) E. Coli	MPN/100 ml			225		576			***								500 <2			***
	MPN/100 ml			235		576	***				1			***						

Queen Creek: Pump Station RESE-1001182 2/8/2005 45.6

Parameters and Consti	tuents	FEMI				S	urfac	e Water	Stan	lards								Results		
Name	Units	Fish Consumpt	ion	Full-boo		Partial-b Contac		Agriculto Livesto Wateri	ck		arm	id Wildlife water) Chroni	Pi	Aquatic a Wildlif (ephemer Acute	e ral)	Dissolved Results	Total Results	Total Recoverable Results	Field Parameters	Use Exceeded
		Standard	Fraction	standard	raction	Standard	raction	Standard	raction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Results		Resurts	Tatameters	
Field		- 92		- 21	-	- 91	PH. I			- V										
pН	s.u.			6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0					7.9	•••
Temperature	°C								***							***		•••	9	***
Specific Conductance	µS/cm	(***)											***					***	634	Sec.
Dissolved Oxygen	mg/L								•••	6		6							9.2 6	
Turbidity	NTUs													***					, ,	200
Metals	-					ALC: ALC:		SAULE IN									<30			
Aluminum	μg/L	4,300	TR	560	TR	560	TR			88	D	30	D			3.1	<3	3		(444)
Antimony	μg/L μg/L	1,450	TR	50	TR	420	TR	200	TR	360	D	190	D	440	D	3.6	3.7	3.4		
Arsenic Barium	µg/L µg/L	1,430	1K	98,000	D	98,000	D			300						20				***
Beryllium	µg/L µg/L	1,130	TR	2,800	TR	2,800	TR			65	D	5.3	D			<2	<2	<2		h tss 3
Cadmium	μg/L	84	TR	700	TR	700	TR	50	TR	14.0	D	5.0	D	211	D	<0.2	<0.2	<0.2		(***)
Chromium (total)	μg/L			100	TR	100	TR	1,000	TR							<6		<6		
Cobalt	μg/L			12.2		144						***				***	<6	(Ann)	(Seen)	***
Copper	µg/L			1,300	TR	1,300	TR	500	TR	37.7	D	22.8	D	65	D	<10	<10	<10		***
Iron	µg/L	***		***		-						****					<60			
Lead	μg/L			15	TR	15	TR	100	TR	207.9	D	8.1	D	439	D	<3	<3	্য		***
Manganese	μg/L	•••		196,000	TR	196,000	TR				***							<4	***	***
Mercury	µg/L	0.6	TR	420	TR	420	TR	10	TR	2.4	D	0.01	D	5.0	D	<0.2	<0.2	-		
Molybdenum	μg/L	***		***		***				1.102		131	D	10,504	D	<10	39	<10		
Nickel	µg/L	4,600	TR	28,000	TR	7,000	TR TR	50	TR	1,183 20,0	D TR	2.0	TR	33	TR	×10	8.5	7.7		A&WwwC
Selenium	µg/L	9,000 107,700	TR	7,000	TR	7,000	TR		IK	23	D	200		23	D	<0.1	<0.1	<0.1		
Silver Thallium	μg/L	7.2	TR		TR	112	TR			700	D	150	D			<2	<2		(222)	
Zinc	μg/L μg/L	69,000	TR		TR		TR		TR	296	D	299	D	2,813	D	<10	<10	<10	1	(44.
Inorganic Non-metallics	P3-					ALTONOOPINE STREET									100					
Asbestos	MFL								***					122					(/444)	***
Boron	μg/L	***		126,000	TR	126,000	TR										<40	***		7/2552
Bromide	µg/L	7								***				***			155	•••	***	***
Cyanide (free)	μg/L	215,000	TR		TR	28,000	TR	200	TR	41	TR	9.7	TR	84	TR	***				***
Fluoride	μg/L	***		84,000	Т	84,000	Т	•••		***		***				***	343			
Nitrite (as N)	µg/L			140,000	T	140,000	T					***	***				<100			
Nitrate (as N)	μg/L	1,000		2,240,000	T	2,240,000	T										26,000 26,000			
Nitrate + Nitrite (as N)	μg/L	***		***		***				***		***			****		<500			
Orthophosphate	µg/L	***		***	***						•••				0.00		40,500			
Silica Sulfide	µg/L µg/L	***			-					100	T			100	T		40,300			-
Major Anions	рус		1		1		(700)		1		-	100000	_	1						
Chloride	µg/L		T													***	11,400	(222)		
Sulfate	µg/L									(***)							48,800			
Carbonate (as CaCO ₃)	μg/L							***								***	<1000	577		
Bicarbonate (as CaCO ₃)	μg/L			***						***		***		***		***	245,000			
Major Cations									_										-	
Calcium	µg/L	222						***									84,400			***
Magnesium	μg/L											Negation 1					21,600		***	***
Potassium	μg/L			***			***										2,000		222	
Sodium	μg/L						•••							12/			6,450			
Physical Properties			_								_			T	1000		245,000		T	
Alkalinity (total as CaCO ₃)	µg/L			***			****			•••							245,000			
Hardness	mg/L					***	***					***					440,000			
Total Dissolved Solids	µg/L									80	Т	80	T		-		<5			1.22
Total Suspended Solids	mg/L			***	-					80	1		1		1		<1			
Color Biologicals	color units		1		1									-	-					
Coliforms (total)	MPN/100 ml	T	T	T	I				I		T		Ī		T		280			
E. Coli	MPN/100 ml			235	1	576				***		***					<2	***		
Notes:	1		_		-				_		-	•	-	***************************************						

E. Coli MPN/100 mll --- --- 235 --- 576 --- --- --- --
Notes:

Standard units

C = degrees Celsius

µSkm= microStemens per centimeter

mg/L = milligrams per liter

NTUs = Nephelometric Turbidity Units

µg/L = milligrams per liter

MTL = Million Fibers per Liter

ml = millititers

ml = midlititers

ml = most probable number per 100 millitier

--- = not applicable

T = total

TR = total recoverable

D = dissolved

D) = not detected

--- No designated uses exceeded

--- No designated uses ex

Queen Creek: Pump Station RESE-1001206 5/4/2005 20.3

Parameters and Consti	ituents					S	urfac	e Water	Stan	dards		044		12				Results		
Name	Units	Fish Consumpt	tion	Full-boo Contac		Partial-b Contac		Agricult Livesto Wateri	ck		arm	nd Wildlife water) Chroni		Aquatic a Wildlif (ephemer Acute	e ral)	Dissolved Results	Total Results	Total Recoverable Results	Field Parameters	Use Exceeded
		Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction					
ield															_					
pН	s.u.			6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0					7.9	100
Temperature	°C											***				•••	***	***	16	
Specific Conductance	μS/cm	***		***		***					***				•••				710	
Dissolved Oxygen	mg/L	***		***	***			***		6	***	6			•••	***	•••	***	12	***
Turbidity	NTUs																*		0.66	***
Metals			_		_															
Aluminum	µg/L	***		***	***			***	***	***		•••	***		***	***	<30			
Antimony	μg/L	4,300	TR	560	TR	560	TR			88	D	30	D	110		<3	<3	<3 3.5	7200	
Arsenic	µg/L	1,450	TR		TR	420	TR	200	TR	360	D	190	D	440	D	3.5	3.6	3.5		
Barium	µg/L	1.120		98,000	D	98,000	D					5.3	D			22 <2	<2	<2		***
Beryllium	μg/L	1,130	TR		TR	2,800 700	TR	50	TR	65 18.9	D	6.2	D	286	D	<0.2	<0.2	<0.2		
Cadmium Charmium (tatal)	µg/L	84	TR	700	TR	100	TR	1,000	TR	18.9		6.2	ע	280	U	<6		<6		
Chromium (total)	µg/L			100	TR		IK	1,000	IK		-						<6			
Cobalt	μg/L			1,300	TR	1,300	TR	500	TR	49.0	D	29.0	D	85	D	<10	<10	<10		-
Copper	µg/L	***		1,300	IR	1,300	IK	500	IR	49.0		29,0	D	83			<60			
Iron	µg/L			15	TR	15	TR	100	TR	277.2	D	10.8	D	585	D	<3	<3	<3		***
Lead	μg/L			196,000	TR		TR	100	IR	211.2		10.8	D				7	4		
Manganese	µg/L	0.6	TR	420	TR	420	TR	10	TR	2.4	D	0.01	D	5.0	D	···<0.2···	<0.2	-		
Mercury Molybdenum	μg/L μg/L	0,0		420	IK	420	11		IK	2.4				2,0			16			
		4,600	TR	28,000	TR	28,000	TR		-	1,497	D	166	D	13,294	D	<10		<10		
Nickel Selenium	µg/L µg/L	9,000	TR		TR	7,000	TR	50	TR	20.0	TR		TR	33	TR		<3	3		•••
Silver	µg/L	107,700	TR		TR		TR			37	D			37	D	<0.1	<0.1	<0.1		***
Thallium	μg/L μg/L	7.2	TR		TR	112	TR			700	D	150	D			<2	<2			
Zinc	µg/L	69,000	TR		TR		TR	25,000	TR	375	D	378	D	3,561	D	<10	<10	<10		
norganic Non-metallics	pgD									70000	_	5.000.00	_		-					
Asbestos	MFL	***				***		***	***									3		242
Boron	μg/L			126,000	TR	126,000	TR										<40	1.000		
Bromide	µg/L																172	***		
Cyanide (free)	μg/L	215,000	TR	28,000	TR	28,000	TR	200	TR	41	TR	9.7	TR	84	TR			(222)		•••
Fluoride	µg/L			84,000	T	84,000	Т			***		***		***		-	254		***	***
Nitrite (as N)	µg/L			140,000	T	140,000	T									(***	130			***
Nitrate (as N)	µg/L			2,240,000	T	2,240,000	T	•••									11,000	/		
Nitrate + Nitrite (as N)	µg/L									(***)		•••			***	***	11,000			
Orthophosphate	µg/L								***								<500	•••		•••
Silica	μg/L	See.		2000				***									38,900			
Sulfide	μg/L									100	T			100	T		<1000			
Major Anions			_		_		_		_		_									
Chloride	µg/L											***					16,000			4-4
Sulfate	µg/L									***		•••					74,400			
Carbonate (as CaCO ₃)	μg/L											***					<1000 276,000	***	***	
Bicarbonate (as CaCO ₃)	μg/L	***					***	***						***			276,000			
Major Cations									1					1000	1220		104 000	(
Calcium	μg/L											S200					104,000			
Magnesium	µg/L		-			4									***		32,600 2,730			
Potassium	µg/L		***	***			***			***		***					9,640			
Sodium	μg/L								1	***							2,040			SER
Physical Properties			1	·	T.				1		_				I	T	276,000		1	
Alkalinity (total as CaCO ₃)	µg/L										-		-				395			
Hardness Test Disselved Salida	mg/L							-					-		-		453,000			
Total Dissolved Solids	µg/L								+	80	T	80	T		-		433,000 <5			
Total Suspended Solids	mg/L										1	80			-		<1			
Color Biologicals	color units		1		1				1									07700		100
Diologicais		T		_	_				1		_		_	12000		T			T	
Coliforms (total)	MPN/100 ml	***		***						***				***						

063-2565 June 2006

> Sample Location: Sample ID: Sample Date: Flow Rate (gpm):

Queen Creek: Pump Station RESE-1001222 8/8/2005

Name	luents			1 5 10		S	urfac	e Water !	Stand	ards								Results	-	
Name		Fish Consumpt	tion	Full-boo		Partial-b		Agriculti Livesto	ck .	(w	arm	d Wildlife water)		Aquatic a Wildlif (ephemei	e al)			T I D.	PL-N	
Name	Units					1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Wateri	ag	Acute	_	Chroni	С	Acute		Dissolved Results	Total Results	Total Recoverable Results	Field Parameters	Use Exceede
		Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction					
eld	1200			6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0					7.5	
pH Temperature	s.u. °C			0.3-9.0		0.3-7.0		0.5-5.0		0.5-5.0									21	
Specific Conductance	µS/cm			***	***						***							***	832	***
Dissolved Oxygen	mg/L					- 10 mm/s		***		6		6				***			6.6	***
Turbidity	NTUs											***				***	***		0.93	
etals			_						100		_					***	<30			
Aluminum	μg/L	4,300	TR	560	TR	560	TR			88	D	30	D			3.2	3.9	3.1		
Antimony Arsenic	μg/L μg/L	1,450	TR	50	TR	420	TR	200	TR	360	D	190	D	440	D	3.3	3.8	3.3		S++43
Barium	µg/L			98,000	D	98,000	D							100		26				
Beryllium	μg/L	1,130	TR	2,800	TR	2,800	TR			65	D	5.3	D			<2	<2	<2	7999	
Cadmium	μg/L	84	TR	700	TR	700	TR	50	TR	20.9	D	6.6	D	317	D	<0.2	5	<0.2		(3444)
Chromium (total)	μg/L			100	TR	100	TR	1,000	TR							<6		<6		
Cobalt	µg/L								777			21.6		02		<10	<6	<10		
Copper	µg/L			1,300	TR	1,300	TR	500	TR	53.7	D	31,5	D	93	D	<10	<10 <60	<10		7/22
Iron	μg/L			15	TR	15	TR	100	TR	306.0	D	11.9	D	646	D	<3	<3	<3		
Lead	μg/L ug/I		-	196,000	TR	196,000	TR	100	1 K	306.0		11.9		040		7		4		(
Manganese Mercury	μg/L μg/L	0.6	TR	420	TR	420	TR	10	TR	2.4	D	0.01	D	5.0	D	<0.2	<0.2			7740
Molybdenum	μg/L μg/L	0.6		+20		420							_	// (/			26	/***		
Nickel	µg/L	4,600	TR	28,000	TR	28,000	TR			1,624	D	180	D	14,424	D	<10		<10		***
Sclenium	μg/L	9,000	TR	7,000	TR	7,000	TR	50	TR	20.0	TR	20	TR	33	TR	(999)	<3	3.1		786
Silver	μg/L	107,700	TR	7,000	TR		TR		***	43	D	***		43	D	<0.1	<0.1	<0.1		***
Thallium	μg/L	7.2	TR		TR		TR			700	D	150	D			<2	<2			
Zinc	μg/L	69,000	TR	420,000	TR	420,000	TR	25,000	TR	407	D	411	D	3,865	D	<10	<10	<10		
organic Non-metallics			_		_							24500		1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -				1944	T	
Asbestos	MFL	***		126,000	TR	126,000	TR										<40			22
Boron	μg/L μg/L			120,000	110	120,000						***				-	217			575
Bromide Cvanide (free)	μg/L μg/L	215,000	TR	28,000	TR	28,000	TR	200	TR	41	TR	9.7	TR	84	TR			2000		***
Fluoride	μg/L	***		84,000	Т	84,000	Т					***					280			
Nitrite (as N)	μg/L			140,000	T	140,000	Т							**			130	•••		
Nitrate (as N)	μg/L			2.240,000		2,240,000	T										20,000			
Nitrate + Nitrite (as N)	μg/L			***						***							20,000			
Orthophosphate	µg/L	***				•••	***			•••		***		***	***	***	<500			
Silica	µg/L									100	т			100	T		66,500 <1000		10.2	
Sulfide	μg/L	•••		***	***			***		. 100	1			100	1	-				Derr-Derr
Chloride	µg/L	***	T		T		I	00.									17,700			
Sulfate	μg/L															577	82,400			
Carbonate (as CaCO ₃)	µg/L									***						***	<1000	***		
Bicarbonate (as CaCO ₃)	μg/L		***	***				***							***	***	286,000	7944		
Tajor Cations					_		_						_			Name of Street				
Calcium	μg/L	. 22				***								***			114,000			
Magnesium	μg/L	***			-			•••							-		36,200 2,670			
Potassium	μg/L												-				11,400			
Sodium hysical Properties	µg/L				1	***		•••	***						-		11,400			
hysical Properties Alkalinity (total as CaCO ₁)	μg/L		T		T			•••									286,000			XXX
Hardness	mg/L		1	***						***							435			
Total Dissolved Solids	μg/L																541,000			
Total Suspended Solids	mg/L	-	Ī							80	T	80	Т				<5			
Color	color units			***								***				***	10			
			_		_		_						_				1.000	759		
iologicals Coliforms (total)	MPN/100 ml MPN/100 ml					***		***		****		***		***	1		1,600			FBC & PB

QUEEN CREEK 27.3

Queen Creek: 27.3 RESE-1001184 2/8/2005 73.1

Parameters and Constit	tuents					Su	rface	Water St	anda	rds		and the				The state of		Results		
Name	Units	Fish Consump	tion	Full-bod Contact		Partial-bo Contact		Agricultu Livesto Waterii	ck .		arm	nd Wildlife water) Chroni		Aquatic a Wildlif (ephemer Acute	e ral)	Dissolved Results	Total Results	Total Recoverable Results	Field Parameters	Use Exceeded
		Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Results		Results	Tarankkii	
Field	-										_	- Urani	_							
pH	s.u.	5000		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		***	***	799	8.3	***
Temperature	°C	1000		2000							***	***			•••	***	***		10 336	***
Specific Conductance	µS/cm					***	***	***		***		***							10	
Dissolved Oxygen	mg/L							***		6		6				***			913	
Turbidity	NTUs		***			•••	***	***		***	***	***	••••	***	****				715	
Metals			_			-		The same		_					224		9,320			
Aluminum	μg/L	***	***	***		***		***				30	D			<3	<3	<3		
Antimony	µg/L	4,300	TR	560	TR	560	TR	***		88	D			440	D	4.9	7.8	7.3		
Arsenic	μg/L	1,450	TR	50	TR	420	TR	200	TR	360	D	190	D	440	D	19				
Barium	µg/L		***	98,000	D	98,000	D	***	***		D	5.3	D		****	<2	<2	<2		
Beryllium	μg/L	1,130	TR	2,800	TR	2,800	TR	50	TD	65	D	4.6	D	184	D	<0.2	0.21	0.32		
Cadmium	μg/L.	84	TR	700	TR	700	TR	1,000	TR TR	12.1	D	4.6	D	184	U	<6		<6		
Chromium (total)	μg/L	***	***	100	TR	100	IK	1,000	ik								<6		(2-2)	***
Cobalt	µg/L			1.200	TT	1 200	TD	500	TD	33.4	D	20.5	D	58	D	<10	24	20		
Copper	µg/L			1,300	TR	1,300	TR	500	TR	33.4	ע	20.5	17		U		5,110			
Iron	μg/L	•••			770	15	TR	100	TR	181.8	D	7.1	D	384	D	<3	7.7	7.8		
Lead	μg/L		****	15 196,000	TR	196,000	TR	100	1K	181.8		7.1		304	- D	- 2		120	1	755
Manganese	µg/L	0.6	TR	420	TR	420	TR	10	TR	2.4	D	· 0.01. ·	D	5.0	D	<0.2	<0.2			
Mercury	µg/L	0.6	IK	420	110	420	110			2.4	D						<8			202
Molybdenum	μg/L	4,600	TR	28,000	TR	28,000	TR			1.061	D	118	D	9,423	D	<10		<10	(***)	
Nickel	µg/L	9,000	TR	7,000	TR	7,000	TR	50	TR	20.0	TR	20	TR		TR		<3	d	***	***
Selenium	μg/L	107,700	TR	7,000	TR	7,000	TR			18	D			18	D	< 0.1	<0.1	<0.1		
Silver	µg/L	7.2	TR		TR	112	TR			700	D	150	D			<2	<2			22
Thallium Zine	μg/L μg/L	69,000	TR		TR	420,000	TR	25,000	TR	266	D	268	D	2,523	D	<10	20	18	15553	
Inorganic Non-metallics	дри,	03,000	111	120,000	1	120,000	m.L.L						_		_					
Asbestos	MFL	***	T		1															
Boron	μg/L			126,000	TR	126,000	TR										<40			
Bromide	µg/L	743								202							321	717		
Cyanide (free)	µg/L	215,000	TR		TR	28,000	TR	200	TR	41	TR	9.7	TR	84	TR		5 2		((***))	***
Fluoride	µg/L	***		84,000	T	84,000	T										135	144		200
Nitrite (as N)	μg/l.			140,000	T	140,000	T	V 1								***	<100			
Nitrate (as N)	μg/l.	1,000	1	2,240,000	Т	2,240,000	Т					944				***	2,100	(777)	5000	***
Nitrate + Nitrite (as N)	μgЛ.											***	***				2,100		•••	
Orthophosphate	μg/L	***						•••									<500	222	***	\$400
Silica	μg/l.	100	1			1/=4/5				275		300					69,700			***
Sulfide	μg/L	7444								100	T	3444		100	T		<1000 · · ·			
Major Anions								Name and	_		_			-				-		
Chloride	μg/L			555		***		S						***		- 44	16,800			
Sulfate	μg/L	19223				***											24,400			
Carbonate (as CaCO ₃)	μg/L				242			***		***	•	***		***		****	<1000	***		
Bicarbonate (as CaCO ₃)	μg/L			222						***		222				***	218,000	***		-
Major Cations									_			March 1	_		_	-				
Calcium	με∕L			***		***				***		***			***		81,900	***	***	•••
Magnesium	µg/L											***				***	14,100	(444)	(200)	
Potassium	μg/L											322					3,520	***	1999	
Sodium	μg/L	***				777											6,410	***	***	***
Physical Properties		and the same of			_		_		_		_		_		_		1 210,000			
Alkalinity (total as CaCO ₃)	µg/L			200				***				***	***	***			218,000	***		
Hardness	mg/L					-									-		263		(900)	
Total Dissolved Solids	µg/L																295,000		7222	A&WwwA & A&WwwC
Total Suspended Solids	mg/L	***			***			***	***	80	T	-80	Т				164			A&WWWA & A&WWW
Color	color units			***	•••			•••				(***)			***		74			
Biologicals			_		-	Control State	_		_		_	1 0.0			T		00	10000		
Coliforms (total)	MPN/100 ml	***			***			***				***	***	•••			90			
E. Coli	MPN/100 ml	***	***	235	***	576		***	1		1 ***		1	***	1	****	~~			

| Recolimate to the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the c

Queen Creek: 27.3 RESE-1001207 5/4/2005 8.12

Parameters and Consti	ituents					Sur	face	Water Sta	inda	rds								Results		
		Fish Consumpt	ion	Full-body Contact		Partial-bo Contact		Agricultu Livestos Waterin	ck .	(w	arm	nd Wildlife water)		Aquatic a Wildlif (epheme)	e ral)	Dissolved		Total Recoverable	Field	
Name	Units	2014 1 000		45.				Water	'ь	Acute		Chroni	c	Acute		Results	Total Results	Results	Parameters	Use Exceeded
		Standard	raction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction					
ield		- 0										Constant								
pH	s.u.			6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0			•••	•••	8.4	***
Temperature	°C	***		***						***	***			***				****	21	***
Specific Conductance	µS/cm			***						***	***	***	***	***				•••	442	
Dissolved Oxygen	mg/l.									6		6					777		14	
Turbidity	NTUs	(***)				****					***	10000		•••		***	1-00	(***)	0.9	
letals					_															
Aluminum	μg/l.							***		***		***		•••			<30		1500	
Antimony	μgЛ.	4,300	TR	560	TR	560	TR			88	D	30	D			⋖	<3	<3		
Arsenic	μg/L	1,450	TR	50	TR	420	TR	200	TR	360	D	190	D	440	D	4.2	4.3	- 4		
Barium	μg/L	***		98,000	D	98,000	D									23	1994	***	***	
Beryllium	μgЛ.	1,130	TR	2,800	TR	2,800	TR			65	D	5.3	D	***		<2	<2	<2		
Cadmium	μgЛ.	84	TR	700	TR	700	TR	50	TR	10.2	D	4.1	D	155	D	< 0.2	<0.2	<0.2		
Chromium (total)	µg/L			100	TR	100	TR	1,000	TR			***				<6	444	<6	(0000)	***
Cobalt	µg/L	***												***			<6	1944	***	(***)
	иел.	***		1,300	TR	1,300	TR	500	TR	28.7	D	17.8	D	50	D	<10	<10	<10		(222)
Copper	µg/L		1	1,500			<u> </u>			***						(888)	<60	5***		
Iron			1	15	TR	15	TR	100	TR	153.5	D	6.0	D	324	D	<3	<3	<3	***	•••
Lead	μg/L			196,000	TR	196,000	TR			100.0							222	<4	***	***
Manganese	µg/L	0.6	TR	420	TR	420	TR	10	TR	2.4	D	:: ddi::	D	5.0	D	<6.2	<0.2			(200)
Mercury	µg/L		IK		IK	420			110							***	8.8			
Molybdenum	µg/L			***	TD	20,000	TR			926	D	103	D	8,227	D	<10		<10		
Nickel	µg/L	4,600	TR	28,000	TR	28,000			TR	20.0	TR	··· 20 ··	TR	33	TR	222	<3	· · · · · · · · · · · · · · · · · · ·		1999
Selenium	μg/L	9,000	TR	7,000	TR	7,000	TR	50	IK		D		IK	14	D	<0.1	<0.1	<0.1		122
Silver	µg/L	107,700	TR	7,000	TR	7,000	TR		***	700	D	150	D			<2	<2	***		
Thallium	µg/L	7.2	TR	112	TR	112	TR	25.000	TR	232	D		D		D	<10	<10	<10		
Zinc	μgЛ.	69,000	TR	420,000	TR	420,000	TR	25,000	IK	232	D	234	D	2,202	17	~10	-10			
norganic Non-metallics					_						_	_	_		1		9/8	100		484
Asbestos	MFL	***							***			***								- 22
Boron	µg/L	***		126,000	TR	126,000	TR			***		***			1		<40 220			
Bromide	µg/L									- 222										***
Cyanide (free)	µg/L	215,000	TR		TR	28,000	TR	200	TR	41	TR		TR		TR	***		***		***
Fluoride	µg/L	***		84,000	T	84,000	T		***	***				***	***		125		- 111	
Nitrite (as N)	μg/L			140,000	T	140,000	T			***						1503	<100			
Nitrate (as N)	µg/L			2,240,000	T	2,240,000	T			***							2,100	***	200	***
Nitrate + Nitrite (as N)	µg/L	***		***													2,100			
Orthophosphate	µg/L									•••				***		V355	<500			-242
Silica	μg/l.	225	1													2000	27,100			•••
Sulfide	µg/L									. 100	T	***		. 100	T	•••	<1000	575	***	***
lajor Anions			-					W												
Chloride	μgЛ.		T	***		***	I										21,300	9		(***)
Sulfate	µg/1.	222	1			W	1			1000		***				***	70,700			
Carbonate (as CaCO ₃)	μg/L			922			1					***				***	<1000	375		
Bicarbonate (as CaCO ₃)	µg/L	***	1				1										131,000	255		
Tajor Cations	l her		_		_		-	-	-	-	_		_	-					70.	
	Logi	1	1		T		T		T		T		T	77			60,900			
Calcium	µg/L						1		1		1				1		17,500	***		
Magnesium	µg/L				1		1		1.		1		1		1		2,810			
Potassium	µg/L			***			1		-		1		1		1		9,440	***		
Sodium	µg/L		1		1 ***		1		1 000	1000	1		-		-					
hysical Properties	1	1	T-		I		To	1	1 250		L		Ler		T		131,000			
Alkalinity (total as CaCO ₃)	µg/L		1		-		1	_			1	2000	1		20	222	224			
Hardness	mg/L										1		1		-		298,000			***
Total Dissolved Solids	µg/L			***		***			****				1	•••	1.55					
Total Suspended Solids	mg/L						1	***	***	80	T	80	T	***	***		<5 <1			
Color	color units					***		***		***	1			***	1					
Biologicals					_		_		_		_	_	1	-	-	1		T	(93807)	
Coliforms (total)	MPN/100 m			***				***					1					1000		
E. Coli	MPN/100 m	1		235	1	576	1		1		1		1	***	1			122	***	

E. Coli MPN/100 ml 235 ... 576 Notes:

Notes:

Su = standard units

C = degrees Celsius

µS/cm = microSiemens per centimeter

mpL = milligrams per liter

NTUs = Nephelometric Turbdity Units

µgL = micrograms per liter

MPL = Millior Fibers per Liter

ml = millilisters

MPN/100 ml = most probable number per 100 milliliter

--- = not applicable

T = total

T = total

P = total

ND = not detected

--- No designated uses exceeded

QUEEN CREEK - BOULDER HOLE

Sample Location: Queen Creek - Boulder Hole Sample ID: RESE-1001008 Sample Date: May 22, 2003

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Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate Strate S								-		-	_	-		\vdash					-		
Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note Note						1		1		-		-		1		+			1.0		
Silica				-					000	-		-		Н		+					•
Sulfide				+		Н			-			-		1						_	•
Major Anions				-		Н						T		1	100	T					
Chloride				-		_	777	-		-		1		-		_					
Sulfate		l cı		T						Г	***		-44								
Carbonate CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo CCo				1				1			5397.0		10000	Г	1000						
Bicarborate HCO							***							L		-					15 II 15 II 15 II 15 II 15 II 15 II 15 II 15 III 15 III 15 III 15 III 15 III.
Majoresium										1	***		***	L				240,000		1	
Magnesium Mg	Major Cations							1		-	T care	_	T and	1				74 800	T	_	•
Magnestum K				+	***	-	17570	-		-	-	+		+		+					
Polasium Na				+		-	111.0011	-		-		1		1		1	_				•
Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Soli				+		\vdash				1		1		1		1				, h a n	
Gross alpha activity (pCVL)		I Na		1		_	7,000	-		-	200	-		_					W	-	
Cross beta activity (pCiL)		I		T				1	7 T Y E		***	L			9/1 12						
Radium 226+228 (pCUL)				1						1											
Unaissim (mg/L) U		-	***	Ĺ				1						1		-					
Physical Properties		U		I								1		_		_		0.00129			
Alkalinity (total)	Physical Properties			-				1		1		-	ř –	_	0.00	1		240 000	T		
Hardness		-		-	***	-		+	1015	-	_	+		+		1				_	
Total suspended solids				+	2442	-		-		-		+		-		-				_	390
Color (color units)				+		1		1		1		Т		T	_	T					
Coliforms (total)				+		\vdash		1		1	-	+		Ť							
Coliforms (total)	Riologicals (MPN/100ml)	1		-	11	-		-			egg: =========										
E. Celi 235 T 576 T				T												L					
Additions or Changes (mg/L) Bromide Br				L	235	T	576	T				I			***			ABSENT			
Bromide Br	Additions or Changes (mg/L)				-					-			1	_		-	1 210	ř	(898)	100	(30)
	Bromide					-	***			-		-		+		+					

Sample Location: Queen Creek - Boulder Hole Sample ID: RESE-1001023 Sample Date: September 4, 2003

	TUENTS		1		1	JUNEA	Ī	WATER STA		7000			T	Aquatic ar				E STATE OF		
		Fish		Full-body Contact	TO S	Partial-boo	ly	Agricultur Livestock Watering			arm	d Wildlife water) Chroni		Wildlife (ephemera Acute		Dissolved Results	Total Results	Total Recoverable Results		
860		Consumpt	Fraction		raction		Fraction		Fraction	(μg/L)	Fraction	(µg/L)	raction	(µg/L)	Fraction	(µg/L)	(µg/L)	(µg/L)	Field Parameters	Use Exceeded
Name	Symbol	(μg/L)	1	(µg/L)	1	(µg/L)		(µg/L)	1 1 1	(µg/L)	1 34.1	(µg/L)		UEREI	Lake	(15,27	158.27	0-8-2		
pH	pH			6.5-9.0		4.5-9.0		6.5-9.0											7.5	
Temperature	°C			-			37												24.2 412	
Specific Conductance (µS/cm)	EC		_	•••					H	6	Н	6	Н	-					0.9	A&Ww Acute and Chi
Dissolved oxygen (mg/L)	DO T		H		\vdash		115				Н					_			0.65	
Turbidity (NTUs)			-				200						_	-						
Aluminum	Al				П	***	33	-		•••		722		***			<20.0			- :
Antimony	Sb	4,300	TR	560	TR	560	TR			88	D	30	D			<3.0	<3.0	<3.0	100	:
Arsenic	As	1,450	TR	50	TR	420	TR	200	TR	360	D	190	D	440	D	30 48.1	33	29		
Barium	Ba	1.110	777	98,000	D	98,000 2,800	TR		100	65	D	5.3	D			<2.0	<2.0	<2.0		
Beryllium	Be Cd	1,130 84	TR	2,800 700	TR	700	TR	50	TR	8.01	D	3.44	D	121	D	<0.1	<0.1	<0.1		
Cadmium Chromium (total)	Cr	07	III	100	TR	100	TR	1,000	TR							<6.0	-	<6.0		
Cobalt	Co			***		-		2			-					1	<6.0		244	- :
Copper	Cu	124		1,300	TR	1,300	TR	500	TR	23.26	D	14.73	D	40	D	<3.0	3.8	3.4		
Iron	Fe				Ш							***			-	-10	48	<3.0		
Lead	Pb			15	TR	15	TR	100	TR	120.98	D	4.71	D	255	D	<3.0	<5.0	124	-	
Manganese	Mn	0.6	TR	196,000 420	TR	196,000 420	TR	10	TR	2.40	D	· . 0.01. · .	D	5	D	<0.2	<0.2			•
Melodenum	Hg Mo	0.6	IK	420	111	420	1 TK		+**	2,40	۳		Ħ		F		9.7		22	
Molybdenum Nickel	Mo Ni	4,600	TR	28,000	TR	28,000	TR			766	D	85.11	D	6,805	D	<10.0		<10.0		•
Selenium	Se	9,000	TR	7,000	TR	7,000	TR	50	TR		TR	2.00.	TR	33	TR		<3.0	.∵<3.0.∵.		
Silver	Ag	107,700	TR	7,000	TR	7,000	TR	-		9.39	D			9	D	<0.1	<0.1	<0.1		- :
Thallium	T1	7.2	TR	112	TR	112	TR			700	D	150	D			<2.0	<2.0		900	- :
Zinc	Zn	69,000	TR	420,000	TR	420,000	TR	25,000	TR	191.91	D	193.48	D	1,821	D	5.1	<5.0	<5.0		
norganic Nonmetalics		(5)0	_		_		г		Г				П				-	***		
Asbestos (MFL)	В		+	126,000	TR	126,000	TR		1	100000							43	-		
Boron Cynanide (free)	CN	215,000	TR	28,000	TR	28,000	TR	200	TR	41	TR	9.7	TR	.84	TR		<10.0	liere l		
Fluoride	F	***		84,000	T	84,000	T	-								120			_	
Nitrite (as N)	NO ₂ -N	***		140,000	T	140,000	T					***	Ш				ND		-	
Nitrate (as N)	NO, -N	377		2,240,000	T	2,240,000	T	-				222		-			160			- :-
Nitrate + Nitrite (as N)	NO:-NO:-N	34		***	L	•••		_		***			\perp				160			100
Phosphorous	P	***	_	***	1					***	\vdash		\vdash		-		33,200			
Silica	SiO ₂	***	⊢		⊢		-		+		T		Н	(0)	T		<1,000			
Sulfide		3277	_	3777	_	•••	-		_	100 .	1.		_	109	1.					
Iajor Anions Chloride	Cl	***	T		Т	***	Т		18		T					22	8,110			•
Sulfate	SO4		T	(4-4)						5550				1000	-		23,000			1,000
Carbonate	CO ₃		\Box	•••	L					***	1						<1,000		-	
Bicarbonate	HCO ₃	•••	1_	1222	_	***					_		4		-		174,000			
fajor Cations	Ca		T	I	T		T				T		T	-	T		56,100		-	
Calcium Magnesium	Mg		t	***	†												9,400	(Special)		•
Potassium	K	***		-				***		-							4,300	744	122	
Sodium	Na	(443)		***						***	1		\perp	-	1		12,300			L 150
tadionuclides			-		_	_	1		1	I -	1		_		1	-	T	-	I	
Gross alpha activity (pCi/L)		***	+		-		+		+		+		+		1		_			1,000
Gross beta activity (pCi/L) Radium 226+228 (pCi/L)		***	+				1				1		T						-	
Uranium (mg/L)	U		1	***			-	Same -								-				
Physical Properties											$\overline{}$		_		_	_				
Alkalinity (total)		***				***	-				\perp	1000	-		-		174,000		_	
Hardness			+	***	+		-		+		+		+				179,000 214,000			1.
Total dissolved solids Total suspended solids	TDS TSS (mg/L)		+		-		-		+	80	Т	80	T				5		-	•
Color (color units)	155 (mg/L)		1		1						1		İ	-			37		-	•
Biologicals (MPN/100ml)							_				_		_		_		Langer			
Coliforms (total)				***	F		-		-		-		-	-	-		PRESENT			
E. Coli			1	235	T	576	T		L		_		_		1	l	PRESENT		1	1000
Additions or Changes (mg/L)	Rr	T Special	T		_		1		1	I	Т		1		1	140			T	
Bromide	PO ₄		+		+		+		1		1						ND			

Sample Location: Queen Creek - Boulder Hole Sample ID: RESE-1001028 Sample Date: November 3, 2003

	FITUENTS							Agricultur	al	Aquat		d Wildlife	1	Aquatic ar Wildlife	4	Di	Tech	Total		
		Fish Consumpt	tion	Full-body Contact		Partial-bo Contact		Livestock Watering		Acute		water) Chronic	ction	(ephemera Acute	il)	Dissolved Results	Total Results	Recoverable Results		
Name	Symbol	(µg/L)	Fraction	(μg/L)	Fracti	(µg/L)	Fraction	(µg/L)	Fracti	(µg/L)	Fracti	(µg/L)	Fract	(µg/L)	Fract	(μg/L)	(µg/L)	(µg/L)	Field Parameters	Use Exceeded
eld			and the state of				_		_				_					_	7.5	
pH	pH	•••	Н	6.5-9.0		4.5-9.0		6.5-9.0			Н		\dashv						15.8	
Temperature	°C EC	***			-		3.3									100			747	and the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of th
Specific Conductance (µS/cm) Dissolved oxygen (mg/L)	DO	***	+	***	Н					6		6	П	100					4	A&Ww Acute and Chri
Turbidity (NTUs)	Turb.					Z		***		***				***			***	255	0.67	•
etals							10. 10													
Aluminum	Al							-				***					<2.0			
Antimony	Sb	4,300	TR	560	TR	560	TR	***	770	88	D	30	D D	440	D	<3.0 15	<3.0 16	<3.0 16		
Arsenie	As	1,450	TR		TR	420 98,000	TR	200	TR	360	D	190	14		D	69.6			142	•
Barium	Ba Be	1,130	TR	98,000 2,800	TR	2,800	TR			65	D	5.3	D			<2.0	<2.0	<2.0		
Beryllium Cadmium	Cd	84	TR	700	TR	700	TR	50	TR	16.7	D	5.7	D	252.9	D	<0.1	<0.1	<0.1		•
Cadmium Chromium (total)	Cr	0.4	1	100	TR	100	TR	1,000	TR							<6.0		<6.0		•
Cobalt	Co												П	444		***	<6.0		***	•
Copper	Cu	***		1,300	TR	1.300	TR	500	TR	44.1	D	26.3	D	76.3	D	3.3	5.1	3.9	***	
Iron	Fe	7443									-			***	-		46 <5.0	5.0		
Lead	Pb	***		15	TR	15	TR	100	TR	246.9	D	9.6	D	521.2	D	<3.0		51		
Manganese	Mn	0.6	TR	196,000 420	TR	196,000 420	TR	10	TR	2.40	D	0.01	D	5.00	D	<0.2	<0.2			500
Mercury	Hg	-	IK		III	420	110	10	110	2.10	1		۳				12.7	***		•
Molybdenum Nickel	Mo Ni	4,600	TR	28,000	TR		TR			1,361.1	D	151.2	D	12,087.5	D	<10.0	***	<10.0	***	•
Selenium	Se	9,000	TR		TR		TR	50	TR	20	TR	2	TR	33.0	TR		<3.0	<3.0	***	
Silver	Ag	107,700	TR		TR		TR	-		30.2	D			30.2	D	<0.1	<0.1	<0.1		196
Thallium	11	7.20	TR		TR	112	TR	- 0		700	D	150	D			<2.0	<2.0	<2.0	-	
Zine	Zn	69,000	TR		TR		TR	25,000	TR	341.2	D	344.0	D	3,237.7	D	<5.0	<5.0	<5.0		
norganic Non-metallics							_		ell to		_						_		1	
Asbestos (MFL)		***		•••			-				-		Н		-	<40.0	40			
Boron	В	***	-	126,000	TR		TR	200	TR	41.0	TR	9.7	TR	84	TR				222	
Cyanide (free)	CN	215,000	TR		TR	28,000 84,000	TR	200	IK	41.0	IK	9.7	III		110	210	140			
Fluoride	F NO, -N		-	84,000 140,000	T	140,000	T		-		+	***	Н				ND			
Nitrite (as N) Nitrate (as N)	NO, N			2,240,000	T	2,240,000	T			122	T			***		•••	ND	1000		
Nitrate + Nitrite (as N)	NO ₂ +NO ₃ -N		+		Ė		Ť			- 1					100		ND	***)		•
Phosphorous	P	***	\vdash	***	T	***				***		***								
Silica	SiO ₂	***									1	576		1 1 1 4 4 5 1 1	-		45,200			
Sulfide										100	· T	***		· (0)	T		<1,000			
Major Anions			_	-	-	-	-		1	9985	-			-			18,500		T	
Chloride	Cl	***	+		\vdash	-				***	-		\vdash		\vdash		62,300			
Sulfate	SO4 CO ₃		-	***	-		+				-					144	<1,000			•
Carbonate Bicarbonate	HCO ₁		+	***	+		+		1								327,000		***	•
Major Cations	neoj				-		-			0 - 2 - 2 - 2		**								
Calcium	Ca		T		T		1			(444)		1444		***	L		112,000	***		
Magnesium	Mg									***					1		17,700			
Potassium	K			559							-		_		-		3,300 23,200			-
Sodium	Na			***	1	***			_		_			•••	_		23,200			
Radionuclides		1	T	-	_	20.00	1		1		Т	T			T				T	
Gross alpha activity (pCi/L)			-		+		-		-		+	(max)	1		1	***			***	•
Gross beta activity (pCi/L) Radium 226+228 (pCi/L)			+		1		+		1		+			/		1440	***	***	1.000	
Uranium (mg/L)	U		1		1						1									
Physical Properties		- ASSOCIA											_		_			W		
Alkalinity (total)		74			I				13	· ***	I	/***			-		327,000		1222	-
Hardness	- 244	1444	T		1					•••	1		-		-		353,000			· ·
Total dissolved solids	TDS										-		-		-	***	473,000			· ·
Total suspended solids	TSS (mg/L)				+		-		-	80	T	80	T		-		<5 15	222		
Color (color units)					_	***	_	-	1				_				1 10		15000	
Biologicals (MPN/100 ml)	DASVEN	N pavas	_	T	Т				T	-	T		T		I	T	300		122	
Coliforms (total)			+	235	T		T		1		+		1		1		2.0			
E. Coli Additions or Changes			-	1 233	-	1 2/0			1	80		2 22			-	-				
Summons of Changes	Br		T	-	T				L	17223						***	350			-
Bromide	PO ₄				I		T	-		***			\perp	444	L		ND	***		

Sample Location: Queen Creek - Boulder Hole Sample ID: RESE-1001054 Sample Date: February 9, 2004

	TITUENTS				T	SURFA	CE	WATER S	Airi	ANDS			T	Aquatic a	nd	-			ESULTS	
		Fish Consump	tion	Full-body Contact		Partial-bo		Agricultu Livestoc Waterin	k		arm	l Wildlife vater) Chronic		Wildlife (ephemer Acute		Dissolved Results	Total Results	Total Recoverable Results		
Name	Symbol	(µg/L)	Fraction	(µg/L)	Fraction	(µg/L)	Fraction	(µg/L)	Fraction	(µg/L)	Fraction	(µg/L)	Fraction	(µg/L)	Fraction	(μg/L)	(µg/L)	(µg/L)	Field Parameters	Use Exceeded
eld	Dimen	4.6-0	1.54.1			4.12			y = y											
рН	pH	(***)		6.5-9.0		4.5-9.0		6.5-9.0		***	Н		Н						7.6 14.5	
Temperature	°C	1000	\vdash	***	-						\vdash		Н						417.1	•
Specific Conductance (µS/cm)	EC DO		+		\dashv					6		6		-		***			5.3	A&Ww Acute and Chro
Dissolved oxygen (mg/L) Turbidity (NTUs)	Turb.	***	Н					IV.		-						242	***	***	0.46	
etals															_					
Aluminum	Al		\perp									70	-	-		<0.5	0.78	<0.5		
Antimony	Sb	4,300	TR		TR	560	TR	200	TD	88 360	D	30 190	D	440	D	10.9	9.4	12.8		•
Arsenic	As Ba	1,450	TR		TR D	420 98,000	D	200	TR		10		D			24.5				
Barium Beryllium	Be	1,130	TR		TR	2,800	TR			65	D	5.3	D			<0.2	<0.2	<0.2		•
Cadmium	Cd	84	TR	700	TR	700	TR	50	TR	8.0	D	3.4	D	120.6	D	<0.1	<0.1	<0.1		
Chromium (total)	Cr	2.2		100	TR	100	TR	1,000	TR	***	\vdash	•••				<0.3	<0.7	<0.3		
Cobalt	Co		\perp	1.100	777	1,300	TR	500	TR	23.1	D	14.7	D	40	D	4.2	6.6	5.1		
Copper	Cu Fe	***	+	1,300	TR	1,300	IK	300	IK	23.1	12	14.7	17		1	- 112	15	222		•
Iron Lead	Pb		+	15	TR	15	TR	100	TR	120.3	D	4.7	D	253.8	D	<1.0	<1.0	<1.0		
Manganese	Mn				TR	196,000	TR			***								4.6		•
Mercury	Hg	0.6	TR		TR	420	TR	10	TR	2.40	D	0.01	D	5	D	<0.2	<0.2	***		<u> </u>
Molybdenum	Mo		77	39,000	TO	10,000	70			762.6	D	84.7	D	6,772.9	D	2.9	7.8	<1.3	***	-
Nickel	Ni Se	4,600 9,000	TR		TR	28,000 7,000	TR	50	TR	20	TR	2	TR	33	TR	2.9	<0.8	<0.8		
Selenium Silver	Ag	107,700	TR	7,000	TR	7,000	TR		1	9.3	D			9.3	D	<0.1	<0.1	<0.1		
Thallium	TI	7.20	TR	112	TR	112	TR	200		700	D	150	D			<0.4	<0.4	-		
Zine	Zn	69,000	TR		TR	420,000	TR	25,000	TR	191.0	D	192.6	D	1,812.5	D	0.31	0.46	0.41		
norganic Non-metallics														Wall		—				
Asbestos (MFL)	В		-	126,000	TR	126,000	TR				+		H				<7.0			
Boron Cyanide (free)	CN	215,000	TR	28,000	TR	28,000	TR	200	TR	41.0	TR	9.7	TR	84	TR					
Fluoride	F	213,000	110	84,000	T	84,000	T							F(744)///		-	156			•
Nitrite (as N)	NO2-N	***		140,000	T	140,000	T		224	***			\vdash				ND		***	
Nitrate (as N)	NO ₃ -N	222		2,240,000	T	2,240,000	T	-			\perp		-	-	91		0.24			
Nitrate + Nitrite (as N)	NO ₂ +NO ₃ -N		-		_	***		***	3	(Lane)	+		\vdash					***		
Phosphotous Silica	P SiO ₂		-								+	***	\vdash					***		
Sulfide	***		+							1.00	T	107770		100	T		· ·<1,000			•
Sajor Anions		ALC:		9.			2000								_					
Chloride	Cl	-				122									-		8,730		-	
Sulfate	SO4		_	***			-				+		\vdash		-	***	33,600 <1,000		***	•
Carbonate	CO ₃		+						-				\vdash		1		178,000			
Bicarbonate Iajor Cations	neo ₃				-		-													Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of th
Calcium	Ca						10			•••		***					55,900			
Magnesium	Mg	***			_	/	-			- 122	+		-			(444)	9,310 1,820			- :
Potassium	K		-			-	-		-	***	+	***	\vdash		-		15,400			
Sodium	Na				_	***	_		_	(***)	1		_		_		10,400			
Gross alpha activity (pCi/L)	T	1	1		Т		T			7/1000	T		Т	-		***	***	***	(866)	•
Gross beta activity (pCi/L)										-						(1)	3440	1444		·
Radium 226+228 (pCi/L)	***	3644									1		-		-			***	(220) (200)	-
Uranium (mg/L)	U	·			1						L		_		_	L	•••			1
Physical Properties		î	_		T -		1		T		Т		1	(IC III	T		178,000	·		
Alkalinity (total) Hardness			+		1		-				+		+	000			178,000			•
Total dissolved solids	TDS		1		1						I						276,000	***		
Total suspended solids	TSS (mg/L)					-				80	T	80	T		-		<5 ND			
Color (color units)		-								***	L	***			1_		ND	<u> </u>		
Biologicals (MPN/100 ml)		1			T		1	I	Т		1						70	Γ		
Coliforms (total)			-	235	T	576	T		-		+					1	2.0		19448	
E. Coli Additions or Changes				200	1 .	2.10	1 .		_	1										
	Br			- 1	I		I	22	L	***	Г	***	F			***	158			
	Br PO ₄				L						E		£		-		158 ND			<u> </u>

Sample Location: Queen Creek - Boulder Hole Sample ID: RESE-1001093 Sample Date: May 24, 2004

063-2565

	TITUENTS		_		1	SURF	I	WATER S	I				T	Aquatic a	nd		W	Dece -	ESULTS	
		Pt.A	8	Full-body		Partial-bo	de	Agricultur				d Wildlife water)		Wildlife (ephemera		Dissolved	Total	Total Recoverable	14/18	
		Fish Consump		Contact		Contact		Waterin		Acute		Chronic	-	Acute		Results	Results	Results		
			Fraction		Fraction	(µg/L)	Fraction	(µg/L)	raction	(µg/L)	Fraction	(µg/L)	raction	(µg/L)	Fraction	(µg/L)	(µg/L)	(µg/L)	Field Parameters	Use Exceeded
Name Id	Symbol	(µg/L)	is,	(µg/L)	14	(hg/L)	-	(Jig/L)	1 14 1	(hga)	141	(Fg/L)	14.1	(Fig 2)		den.	9-8-7			
pH	pН	(144)		6.5-9.0		4.5-9.0		6.5-9.0			\vdash								7.6 17.6	•
Temperature	°C		+	2	-			-	\vdash		Н	***							502	
Specific Conductance (µS/cm) Dissolved oxygen (mg/L)	EC DO									6		6	Н						3	A&Ww Acute & Ch
Turbidity (NTUs)	Turb.	***						1									***	***	1.2	•
letals											_				_					
Aluminum	Al	122												***			<20	<3.0		
Antimony	Sb	4,300 1,450	TR	560 50	TR TR	560 420	TR	200	TR	360	D	30 190	D	440	D	<3.0 16	<3.0 17.4	16		
Arsenic Barium	As Ba	1,430	TIK	98,000	D	98,000	D	200	110		1		-			44.7	1944	9444		
Bervllium	Be	1,130	TR		TR	2,800	TR	***		65	D	5.3	D			<2.0	<2.0	<2.0	22	(*)
Cadmium	Cđ	84	TR	700	TR	700	TR	50	TR	10.7	D	4.2	D	162.1	D	<0.1	<0.1	<0.1		
Chromium (total)	Cr			100	TR	100	TR	1,000	TR	***		1222	\vdash			<6.0	<6.0	<6.0		- :
Cobalt	Co		+	1,300	TR	1,300	TR	500	TR	29.9	D	18.5	D	51.8	D	<3.0	5.6	<3.0		
Copper	Cu Fe		+	1,300	IK	1,300	IK	300	IK	29.9	12	10.3	D	71.0	17	-0.0	38			1.0
Iron Lead	Pb			15	TR	15	TR	100	TR	160.7	D	6.3	D	339.3	D	<3.0	<3.0	<3.0		•
Manganese	Mn		I	196,000	TR	196,000	TR					1,000	П					138	***	
Mercury	Hg	0.6	TR	_	TR		TR	10	TR	2.40	D	0.01	D	5.00	D	***	< 0.2			- :
Molybdenum	Mo	1.000	777	38,000	TD	20,000	TR	-		961.2	D	106.8	D	8,536.4	D	<10	13.5	<10		
Nickel	Ni So	4,600 9,000	TR		TR	28,000 7,000	TR	50	TR	20	TR	2	TR	33.0	TR		<3.0			
Selenium	Se Ag	107,700	TR		TR	7,000	TR		1 IX	14.9	D		1"	14.9	D		<0.1	<0.1		11
Silver Thallium	TI	7.20	TR		TR	112	TR			700	D	150	D			<2.0	<2.0	<3.0	***	•
Zine	Zn	69,000	TR		TR	420,000	TR	25,000	TR	240.8	D	242.8	D	2,285.3	D	<5.0	<5.0	<5.0		•
norganic Non-metallics			_										_							2.0
Asbestos (MFL)			1	126,000	77.7	126,000	750			()	\vdash		\vdash	-	-		< 5.2 <40			
Boron	B	215,000	70	126,000	TR	126,000 28,000	TR	200	TR	41.0	TR	9.7	TR	84	TR		<10			
Cyanide (free)	CN F	215,000	TR	28,000 84,000	T	84,000	T	200	IK	41.0	IIK	7.1	110		111		150			
Fluoride Nitrite (as N)	NO, -N		+	140,000	T	140,000	T		100			***	П			-	ND			
Nitrate (as N)	NO ₃ '-N		\top	2,240,000	Т	2,240,000	T			•••						***	ND			
Nitrate + Nitrite (as N)	NO2+NO3-N					4						•••		1			ND			
Phosphorous	P		\perp												-	-	10,000			
Silica	SiO ₂		-	***	_				\vdash		T		Н		Т		40,000			
Sulfide				***	_		14				11		Н		-					
dajor Anions	Cl	T		T			100				T	PELLIN.	П	6 0	176		11,000	***		
Chloride Sulfate	SO4		1		\vdash											***	15,900	***		*
Carbonate	CO	***	1			***	1	-		(***)						===	<1,000			
Bicarbonate	HCO ₃							-		2775			Ш			***	254,000			
Major Cations			-	_	_		1		-	76645	_	_					74,800			
Calcium	Ca Mg		+		-								\vdash				11,500		122	
Magnesium Potassium	K		+		1	7 1/			197		T						2,300	- 22		•
Sodium	Na	***		100				-		•••			匚				15,200			
Radionuclides			_	Sec. Sec.					_						_		1 222			
Gross alpha activity (pCi/L)			1		-				-	102020	+		\vdash		-		2.32			<u> </u>
Gross beta activity (pCi/L)			+		\vdash				+		-		\vdash		+		4.93 0.81		100	
Radium 226+228 (pCi/L)	 U		+		+					***	+		Н		1		0.0011			
Uranium (mg/L) Physical Properties			_		-		_		-		-		-		•					140
Alkalinity (total)			T	T	T					-	I			***	10		254,000		1844	
Hardness		***		1							T						234,000	122		
Total dissolved solids	TDS				1						-		-	-	+		320,000			-
Total suspended solids	TSS (mg/L)	14440	-				-		-	80	T	80	T	***	-	-	<5 10			•
Color (color units)			_	- 122	_	1 244	_		_		_		_	***	_		10		1	
Biologicals (MPN/100 ml) Coliforms (total)		-	T		_		Т		T		T		Т		T		1,600			•
E. Coli		***	+	235	T		T			***							30.0			
Additions or Changes	10		_		_														number	
Bromide Orthophosphate	Br		I					3 22			F	222	匚	***			280			<u> </u>
	PO ₄											***	L	***			< 0.10			

Sample Location: Queen Creek - Boulder Hole Sample ID: RESE-1001094 Sample Date: August 3, 2004

	TITUENTS					SURFA	CE V	VATER ST	FAND	ARDS			_	Aquatic ar				R	ESULTS	
		Fish Consumpt	ion	Full-body Contact		Partial-boo		Agricultu Livestoc Waterin	k		varm v	Wildlife vater) Chronic		Wildlife (ephemer: Acute		Dissolved Results	Total Results	Total Recoverable Results		M.
	20 202		Fraction	15. 1	raction		raction		raction	(µg/L)	Fraction	(µg/L)	raction	(µg/L)	raction	(µg/L)	(μg/L)	(µg/L)	Field Parameters	Use Exceeded
Name eld	Symbol	(µg/L)	15.	(µg/L)	<u>@1</u>	(µg/L)	Çi.	(µg/L)	is.	(µg/L)	1 54	(49/13)	Site 1	(µg/L)	Line I	(µg/L)	(PE D)	4.5.27	Tulumento	
pH	pH		П	6.5-9.0		4.5-9.0		6.5-9.0			T	F-44	\Box			***	-		7.7	
Temperature	°C	***	\sqcup	***	_	•••	\Box			-	+		Н						24.1 536	
Specific Conductance (µS/cm)	EC	•••	Н	***	-		\vdash			6	Н	6	Н						0.42	A&Ww Acute and Chr
Dissolved oxygen (mg/L) Turbidity (NTU's)	DO T		+		+								\vdash		33		***		1.4	•
etals	11/19/11/20				3 72										in so				Justine 1	
Aluminum	Al	8775								•••						***	<20		***	
Antimony	Sb	4,300	TR		TR	560	TR			88	D	30	D		-	<3.0	<3.0	<3.0 39		•
Arsenie	As	1,450	TR		TR D	420 98,000	TR D	200	TR	360	D	190	D	440	D	34 73.4	-40	- 39		
Barium	Ba Be	1,130	TR		TR	2,800	TR			65	D	5.30	D			<2.0	<2.0	<2.0	-	
Beryllium Cadmium	Cd	84	TR		TR	700	TR	50	TR	12	D	4.41	D	175	D	<0.1	<0.1	<0.1	***	
Chromium (total)	Cr	***			TR	100	TR	1,000	TR							<6.0		<6.0		
Cobalt	Co					-						-			-		<6.0	<3.0		
Copper	Cu		\vdash		TR	1,300	TR	500	TR	32	D	20	D	55	D	<3.0	<3.0 58			
Iron	Fe Pb		+	15	TR	15	TR	100	TR	173	D	6.74	D	365	D	<3.0	<3.0	<3.0		•
Lead Manganese	Mn		+		TR	196,000	TR		III	173	1"	***	Ħ		Ĩ			565	200	
Mercury	Hg	0.60	TR	420	TR	420	TR	10	TR	2	D	0.01	D	5	D	<0.2	<0.2		-	•
Molybdenum	Mo										\Box		\Box				8.5		***	-
Nickel	Ni	4,600	TR	28,000	TR	28,000	TR			1,020	D	113	D	9,058	D	<10	-2.0	<10		•
Selenium	Se	9,000	TR		TR	7,000	TR	50	TR	20	TR	2,00	TR	33	TR		<3.0 <0.1	<0.1		
Silver	Ag	107,700	TR		TR	7,000	TR		H	700	D	150	D	17	D	<0.1 <2.0	<0.1	NU.1		
Thallium	TI Zn	7.20 69,000	TR		TR TR	112 420,000	TR	25,000	TR	700 256	D	258	D	2,425	D	<5.0	<5.0	<5.0		
Zinc	Zn	69,000	IIN	420,000	114	420,000	114	23,000	110	230	1 121	200	1.00		1-					
Asbestos (MFL)								115			\Box	***								
Boron	В				TR	126,000	TR			100	\Box		Ш	·	-		<40			
Cynanide (free)	CN	215,000	TR	28,000	TR	28,000	TR	200	TR	41	TR	10	TR	84	TR		210			
Fluoride	F		-	84,000 140,000	T	84,000	T				+		Н		+		ND			•
Nitrite (as N) Nitrate (as N)	NO, N		+	2,240,000	T	140,000 2,240,000	T				++	***	Н				ND	-		
Nitrate + Nitrite (as N)	NO, +NO, -N		+		H						\top		П		100	***	ND	***		•
Phosphorous	P			(***		D					\Box	- 22								
Silica	SiO ₂	***				-			1		-		Н		-		42,700 '.'<1000'.			- :
Sulfide		***			Ш					100	T	***	H	100	T		. ×1000 .		1	
lajor Anions	CI		T				П		T							_	14,800		T	
Chloride Sulfate	SO ₄		+		Н				1 2		\top		Ħ				19,500			•
Carbonate	CO ₃	-	+				T	V 10-				***		-		***	<1000			
Bicarbonate	HCO ₁	***	+		П				18							122	278,000			•
fajor Cations							-0.011.0						_		_			_	-	
Calcium	Ca	- 22	_				\perp				\vdash	***		748	-		78,000 13,600			· ·
Magnesium	Mg		+		Н	***	\vdash				+	2.2	H		+		6,800			
Potassium	K Na		+		Н			-			+				1		19,200			•
Sodium tadionuclides	144			20000	_	1000	-		_	III-										
Gross alpha activity (pCi/L)		120	1							***		***				***				
Gross beta activity (pCi/L)	277									1242						-			355	- :
Radium 226+228 (pCi/L)	-		_	***					-	***		222	⊢		+		_		***	· ·
Uranium (mg/L)	U		1			***					1		_							
hysical Properties Alkalinity (total)	T		T				П				T		T		7		278,000			•
Hardness									1	1			T			***	251,000			
Total dissolved solids	TDS	***		***					1	***				***			349,000		(20)	
Total suspended solids	TSS (mg/L)	5_3				***	10	-II //		80	T	80	T			(555)	<5		722	<u> </u>
Color (color units)									1		\perp	1444	L			***	46			
liologicals (MPN/100ml)			1		1			1 Gen					T	1	T		1,600			
Coliforms (total) E. Coli			+	235	Т	576	т		-				1		1		9	- 22	(22)	
L COII				222	•						-									
dditions or Changes	Br	-		•••				-				***	1	***	-		220 ND	-		
Additions or Changes Bromide	PO ₄		_											1000				-		

Queen Creek: Boulder Hole RESE-1001165 11/3/2004

Parameters and Constit	uents					Sui	face	Water St	anda	rds								Results		
	Units	Fish Consump	tion	Full-bod Contact		Partial-bo Contact		Agriculti Livesto Wateri	ck		arm	nd Wildlife water) Chroni	c	Aquatic a Wildlife (ephemer Acute	e al)	Dissolved	Total Results	Total Recoverable	Field	Use Exceeded
Name	Units	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Results		Results	Parameters	
ield													_		_					
pH	s.u.	200		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0	***	***	***	***	7.7	3975
Temperature	°C	•••		***		***									***			***	13	***
Specific Conductance	µS/cm	***		***		***				***									599	
Dissolved Oxygen	mg/L					0_12-11.				6		6				***		***	1.7	A&WwwA & A&Ww
Turbidity	NTUs	- 277										***		***	***	***	***	***	0.4	
Metals								300		U-112 Pro			_							
Aluminum	µg/L	***		***					***	***						•••	<20	200		
Antimony	ug/L	4,300	TR	560	TR	560	TR	***		88	D	30	D	•••		<3	<3	<3		***
Arsenic	μg/L	1,450	TR	50	TR	420	TR	200	TR	360	D	190	D	440	D	26	28	29		
Barium	μg/L	***		98,000	D	98,000	D						***			71		210		
Beryllium	μg/l.	1,130	TR	2,800	TR	2,800	TR			65	D	5.3	D			<2	<2	<2		12221
Cadmium	μg/L	84	TR	700	TR	700	TR	50	TR	13.5	D	4.9	D	203.7	D	<0.1	<0.1	<0.1		
Chromium (total)	μg/l.			100	TR	100	TR	1,000	TR							<6		<6	***	
Cobalt (total)	μgЛ.		1	***													<6		144	
	μg/l.	12221	1	1,300	TR	1,300	TR	500	TR	36.5	D	22.2	D	63.2	D	7.1	8	7.8	942	
Copper Iron	μg/l. μg/l.	7224	1	1,300		1,500					1			***			36	***		
			-	15	TR	15	TR	100	TR	200.6	D	7.8	D	423.4	D	<3	<3	<3		
Lead	μgЛ.			196,000	TR	196,000	TR	100		200.0	-							51	-44	***
Manganese	μg/l.		***					10	TR		D	0.01	D	5.00	D	· : <0.2· · ·	<0.2			***
Mercury	μg/L	0.6	TR	420	TR	420	TR				D		10	3.00	D		12			72.2
Molybdenum	µg/L	***		322			***	***		***			D		D	<10	- 12	<10		
Nickel	µg/L	4,600	TR	28,000	TR	28,000	TR			1,149	D	128		10,205.6		<10	<3			
Selenium	µg/L	9,000	TR	7,000	TR	7,000	TR	50	TR	20.0	TR	2.0	TR	33.0	TR		<0.1	<0.1		***
Silver	µg/L	107,700	TR	7,000	TR	7,000	TR	•••		21	D			21.4	D	<0.1				
Thallium	µg/L	7.2	TR	112	TR		TR	•••		700	D	150	D			<2	<2 <5	<5		
Zine	μg/L	69,000	TR	420,000	TR	420,000	TR	25,000	TR	288	D	290	D	2,732.9	D	<5		- 53		
Inorganic Non-metallics				- Service take																
Asbestos	MFL	***				***		***		777	***	***	***							
Boron	µg/L			126,000	TR	126,000	TR					***		***			<40			
Bromide	μg/L					-										-	180	***		
Cyanide (free)	µg/L	215,000	TR	28,000	TR	28,000	TR	200	TR	41	TR	9.7	TR	84	TR	222		***	***	
Fluoride	μg/L			84,000	T	84,000	T					222					120			***
Nitrite (as N)	µg/L		1	140,000	T	140,000	T	***				***		3			110			
Nitrate (as N)	µg/L		1	2,240,000	T	2.240,000	T			222	·			***			1,200	***		
Nitrate + Nitrite (as N)	µg/L		1_	2.210,000	i						1						1,300	***	***	
					1				1		1						<500	12.6		***
Orthophosphate	μg/L		1		1		1		1		1						40,200			
Silica	µg/L	1/222	-						1	100	T				T		<10001	***	0.770	
Sulfide	μg/l.		1		1		1		1	1	<u>, .</u>		_	I	-					
Major Anions					-		T		1	T	L	T				T	12,700		(444)	
Chloride	μg/L						-								-		64,500			
Sulfate	µg/L	224									****	200	1		-		<1000			
Carbonate (as CaCO ₃)	ид∕І.										****	***	1				381,000			
Bicarbonate (as CaCO ₃)	μg∕1.	***		***				***	1	L			1				301,000	17984		the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the sa
Major Cations							_		_		_				_		01.700			
Calcium	μg/L			***									1		***		91,700			
Magnesium	μg/l.			•••				***				***					14,600		2000	
Potassium	μg/l.			•••									1			***	5,200	1444	1,000	
Sodium	µg/L			777		971855							1-				18,200		***	
Physical Properties							4				_		_							1000
Alkalinity (total as CaCO ₃)	μg/l.											***	1		***	***	281,000	***		224
Hardness	mg/L		·			2.24							1				289	***	(***)	
Total Dissolved Solids	μg/l.		1									***					408,000			***
Total Suspended Solids	mg/L								1	80	T	80	T				<5			222
Color	color units				1				1		1	•••	1				19			
	coror mais		1		-		_		-		-	-	-							
Biologicals Coliforms (total)	MPN/100 ml	1	1		T		T		1.		T	T	Τ.		T		1,600		1000	***
			1	See.	1			***	1 ***	75.5					1		11000			FBC & PBC

Queen Creek: Boulder Hole RESE-1001181 2/8/2005 95

	tuents		-			S	urtac	e Water	stand				-1	Aquatic a	ind I			Results		
		Fish Consumpt	ion	Full-boo		Partial-b		Agriculti Livesto	ck			d Wildlife water)		Wildlif (ephemei	e					
Name	Units	Consumpt	ioa	Contac		Contac		Wateri	ng	Acute		Chroni	c	Acute		Dissolved Results	Total Results	Total Recoverable Results	Field Parameters	Use Exceeded
		Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction					
eld					_								_	6.5-9.0	RESERVE OF	-			7.9	
pH	s.u.	***		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0					9.7	
Temperature Specific Conductance	°C µS/cm											5445						222	200	
Dissolved Oxygen	mg/L									6		6					uia.	***	8,6	
Turbidity	NTUs											***		-			222	-	1.1	
letals																				
Aluminum	µg/L	•••		***		***								***			<30	***		
Antimony	µg/L	4,300	TR	560	TR	560	TR			88	D	30	D			<3	<3	<3		
Arsenic	μg/L	1,450	TR	50	TR	420	TR	200	TR	360	D	190	D	440	D	19	17	18		
Barium	μg/L			98,000	D	98,000	D					5.3			-	13 <2	<2	<2		
Beryllium	μg/L	1,130	TR	2,800	TR	2,800	TR	50	TD	65 4.1	D D	2.2	D	62	D	<0.2	<0.2	<0.2		
Cadmium	μg/L	84	TR	700	TR	700	TR TR	1,000	TR	4,1		2.2				<6		<6		
Chromium (total)	μg/L ug/l			100	TR	100	I.K	1,000	111								<6			
Copper	µg/L ug/l			1,300	TR	1,300	TR	500	TR	12.9	D	8.6	D	22	D	···<10···	<10	<10		•••
Copper Iron	μg/L μg/L			1,300		1,300				12.7							<60	***		
Lead	μg/L μg/L	***		15	TR	15	TR	100	TR	61.6	D	. 2.4	D	130	D	<3	<3	<3	(2)	7
Manganese	μg/L μg/L			196,000	TR	196,000	TR											4		***
Mercury	μg/L μg/L	0.6	TR	420	TR	420	TR	10	TR	2.4	D	0.01	D	5.0	D	<0.2	<0.2		***	***
Molybdenum	μg/L	•••			1		***					***		•	***		<8			Date:
Nickel	μg/L	4,600	TR	28,000	TR	28,000	TR			452	D	50	D	4,010	D	<10		<10		7
Selenium	μg/L	9,000	TR		TR	7,000	TR	50	TR	20.0	TR	2.0	TR	33	TR		<3		***	(***
Silver	μg/L	107,700	TR		TR	7,000	TR			3	D			3.2	D	<0.1	<0.1	<0.1		***
Thallium	µg/L	7.2	TR	112	TR	112	TR			700	D	150	D			<2	<2			
Zinc	μg/L	69,000	TR	420,000	TR	420,000	TR	25,000	TR	113	D	114	D	1,072	D	<10	<10	<10		-
norganic Non-metallics					,				_		_				_				T I	7
Asbestos	MFL						***	***	***	***						***				
Boron	μg/L			126,000	TR	126,000	TR					***					<40 112			
Bromide	μg/L			***		***						0.7	TD	84	TR					
Cyanide (free)	μg/L	215,000	TR		TR	28,000	TR	200	TR	41	TR	9.7	TR		IK		135			
Fluoride	μg/L			84,000	T	84,000	T	***		•••		***	•••				<100			
Nitrite (as N)	µg/L			140,000	T	140,000	T			***							940			2.5
Nitrate (as N)	µg/L			2,240,000	T	2,240,000	T								-		940			
Nitrate + Nitrite (as N)	µg/L																<500	***	122	
Orthophosphate Silica	μg/L μg/L						-			•••		***					28,400			25
Sulfide	µg/L									100	T	244		100	T		<1900			
Iajor Anions																				
Chloride	μg/L			***					-					***			6,360			
Sulfate	μg/L													***			22,000	***		
Carbonate (as CaCO ₃)	μg/L	***		277	-										-		<1000	1944		
Bicarbonate (as CaCO ₃)	μg/L	***		•••		***			***			•••					74,800		1	-
lajor Cations						-	_		_	-	_			1	le face		30,000	1	T T	
Calcium	µg/L	***		***				***		***							5,100			201
Magnesium	µg/L			2000			=					***			-		1,510			
Potassium	µg/L																7,060			•••
Sodium Physical Proparties	μg/L		1		1		1				1	-			1		.,000			
Physical Properties Alkalinity (total as CaCO ₁)	ne/l		Ter		T	77	1		1		T				T		74,800			
Alkalimity (total as CaCO ₃) Hardness	µg/L mg/L		1				1				-				-		96			
Total Dissolved Solids	μg/L									***							171,000			
Total Suspended Solids	mg/L		1							80	T	80	T		1		<5			
Color	color units		1			-			1								<1			
Biologicals			-		-		1						_							
	MPN/100 ml							***				122					12		***	
Coliforms (total)	MPN/100 ml		1	235	1	576	1	***	188	192983		1 2 2 2	1				-2		***	•••

Queen Creek: Boulder Hole RESE-1001205 5/4/2005

	tuents					S	urfac	e Water S	tand	lards								Results		
		Fish Consumpt	tion	Full-bo Conta-		Partial-b		Agriculti Livesto	ck			d Wildlife water)		Aquatic Wildli (epheme	fe					
Name	Units					1		Wateri		Acute		Chron	Н	Acute		Dissolved Results	Total Results	Total Recoverable Results	Field Parameters	Use Exceeded
		Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction		5000			
ield				(500		6500		6500	10,00	6500		6.5-9.0		6.5-9.0	T				7.3	
pH	s.u. °C			6.5-9.0		6.5-9.0		6.5-9.0	***	6.5-9.0		0.5-9,0		0.3-9.0	227.		***	•••	16	200
Temperature Specific Conductance	μS/cm					16				***				•••		***	***	•••	415	***
Dissolved Oxygen	mg/L							444		- 6		- 6					1444	•••	1.9	A&WwwA & A&W
Turbidity	NTUs			***						100								(Water)	0.59	
letals																		The same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the sa		
Aluminum	µg/L					•••		***		***		***		***			<30		***	
Antimony	µg/L	4,300	TR	560	TR	560	TR			88	D	30	D			<3	<3 17	<3 17	***	
Arsenie	µg/L	1,450	TR	50	TR	420	TR	200	TR	360	D	190	D	440	D	18 36		- 17		4.0
Barium	µg/L	1.120	TR	98,000 2,800	D TR	98,000 2,800	D TR			65	D	5.3	D			<2	<2	<2		***
Beryllium Cadmium	μg/L μg/L	1,130 84	TR	700	TR	700	TR	50	TR	9.4	D	3.8	D	142	D	<0.2	<0.2	<0.2	***	
Chromium (total)	μg/L	***		100	TR	100	TR	1,000	TR	***				***		<6	/***	<6	***	200
Cobalt	րբ1.	222														222	<6			
Соррег	μgЛ.	\$22		1,300	TR	1,300	TR	500	TR	26.7	D	16.7	D	46	D	<10	<10	<10		
Iron	μg/L.									722				***			<60	****	***	***
1.ead	րբ/1.	***		15	TR	15	TR	100	TR	141.2	D	5.5	D	298	D	<3	ব	<3 194		
Manganese	μg/L		777	196,000	TR	196,000	TR	10		2.4		·	D	5.0	D	<0.2·.·	<0.2	194		
Mercury	µg/L.	0.6	TR	420	TR	420	TR	10	TR	2.4	D	·::0.b1·:	0	5.0			<8			
Molybdenum Nickel	µg/L µg/L	4,600	TR	28,000	TR	28,000	TR			867	D	96	D	7,695	D	<10		<10		
Selenium	µg/L µg/L	9,000	TR	7,000	TR	7,000	TR	50	TR	20.0	TR	2.6	TR	33	TR		<3	· : : : : : <3. · · · · · ·	19220	
Silver	µg/L	107,700	TR	7,000	TR	7,000	TR			12	D	-		12	D	<0.1	<0.1	<0.1		
Thallium	μεЛ	7.2	TR	112	TR	112	TR	***		700	D	150	D			<2	<2	7,000	***	
Zine	ир/L	69,000	TR	420,000	TR	420,000	TR	25,000	TR	217	D	219	D	2,060	D	<10	<10	<10		***
norganic Non-metallics					_				_		_		_		_	_				
Asbestos	MFL		***	***		125.000			***			4940		•••			<40		***	
Boron	µg/L			126,000	TR	126,000	TR				***	***					155	4	7242	
Bromide County (fore)	µg/L	215,000	TR	28,000	TR	28,000	TR	200	TR	41	TR	9.7	TR	84	TR				1000	
Cyanide (free) Fluoride	µg/L µg/L	213,000		84,000	T	84,000	T			***		200				-	105		***	24.
Nitrite (as N)	μg/L		1	140,000		140,000	T					2,2				***	<100	***		
Nitrate (as N)	µg/L	***		2.240,000		2,240,000	T			- 575		- 20				9222	<100			***
Nitrate + Nitrite (as N)	μg/L	***		***						2000		555		***		***	<200	***	***	
Orthophosphate	μg/L			222				***		***		***				***	<500			***
Silica	μg/L					•••		1117-11		100	T			100.	T		36,500			(***)
Sulfide	μg/L	-	***	1000				•••	***		1.		1	100	1 1					
Major Anions Chloride	µg/L		T	2.2	1								T		1		11,200	***		***
Sulfate	µg/L											222				*****	29,000	***	***	35550
Carbonate (as CaCO ₃)	µg/L			1000												***	<1000	***	***	30000
Bicarbonate (as CaCO ₃)	µg/L	(***)		***		***		***									195,000	***		(800)
lajor Cations							_				_		_		1		- CC 200		T	
Calcium	μgЛ.									933		244			1	***	10,300	200		
Magnesium	μgЛ.	***						***		- 555					1		2,410	2.2		
Potassium	μg/l. μg/L								-	***					1		13,100		2002	7222
Sodium Physical Properties	ив/ь		1		1		1						_			-				
Alkalinity (total as CaCO ₃)	μg/L		T		1		1				T		1			10000	195,000	***		
Hardness	mg/L			***		***				***							207			***
Total Dissolved Solids	µgЛ.	1 5225		. 400									-	***		5,775)	243,000			***
Total Suspended Solids	mg/L					11/22				80	T	80	T	***		(444)	<5	***		***
Color	color units			- 777													<1	***		
Ziologicale	Lymytees	-		III porto	_		Type				la constitution		T		T	T	-		T	
Biologicals Coliforms (total)	MPN/100 ml MPN/100 ml		1	235	1			***			1				9275		5775			

QUEEN CREEK - KARST SPRING

Queen Creek: Karst Spring RESE-1001180 2/8/2005 29.2

Parameters and Consti	tuents				7-0-	S	urfac	e Water S	tand	ards								Results		
		Fish Consumpt	ion	Full-bo		Partial-b		Agricultu Livestos Waterii	k	(11	arm	d Wildlife water)		Aquatic a Wildlife (ephemer	e ral)	Dissolved		Total Recoverable	Field	
Name	Units	7		Þ		P				Acute		Chroni			-	Results	Total Results	Results	Parameters	Use Exceeded
	- 1	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction					
Field							_		_				_						7.5	
pH	s.u.			6.5-9.0	***	6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0	***	***	***		15	
Temperature	°C	222					••••	***		***			***					•••	366	
Specific Conductance	μS/cm	***		700	****					- 6		- 6							4.4	A&WwwA & A&WwwC
Dissolved Oxygen Turbidity	mg/L NTUs																-		0.92	***
Metals			_		_							7-858		11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11 Sept. 11	1000		<30		***	
Aluminum	µg/L			***		560	TR			88	D	30	D			<3	<3	<7.5	200	
Antimony	µg/L	4,300	TR	560	TR	420	TR	200	TR	360	D	190	D	440	D	11	9,9	9.8		
Arsenic	μg/l.	1,450	TR	50 98,000	TR D	98,000	D	200	IK	300		190				7.3				-
Barium Bervilium	μg/l. μg/l.	1.130	TR	2,800	TR	2,800	TR			65	D	5.3	D			<2	<2	<2	***	
Cadmium	μg/L	84	TR	700	TR	700	TR	50	TR	7.5	D	3.3	D	114	D	< 0.2	<0.2	<0.5	(***)	***
Chromium (total)	μgЛ.			100	TR	100	TR	1,000	TR	***		***				<6	100	<6	- 122	List
Cobalt	μgЛ.							10				1.00					<6			
Copper	ug/L			1,300	TR	1,300	TR	500	TR	22.0	D	14.0	D	38	D	<10	<10	<10		***
Iron	µgЛ.			***													<60		1000	222
Lead	µg/1.			15	TR	15	TR	100	TR	113.8	D	4.4	D	240	D	<3	<3	<7.5		
Manganese	μg/L			196,000	TR	196,000	TR											식		***
Mercury	µg/L	0.6	TR	420	TR	420	TR	10	TR	2.4	D	0.01	D	5.0	D	<0.2	<0.2	-		
Molybdenum	µg/L	***				***	***		***	740		61	D	6,482	D	<10		<10		2
Nickel	µg/L	4,600	TR	28,000	TR	28,000	TR	***		730	D TR	81 · 2.0. · .	TR	33	TR		<3	· · · · · · · · · · · · · · · · · · ·		
Selenium	με/L	9,000	TR	7,000	TR	7,000	TR	50	TR	20.0	D	2.0		8.5	D	<0.1	<0.1	<0.25	***	
Silver	µg/L	7.2	TR	7,000	TR	112	TR			700	D	150	D	0.5		<2	<2			200
Thallium Zine	µg/L µg/L	69,000		420,000	TR				TR	183	D	184	D	1,735	D	21	20	20		***
Inorganic Non-metallics	при	05,000	110	120,000	1													197		TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL
Asbestos	MFL		I	***												***	(****	***	***	
Boron	µg/L			126,000	TR	126,000	TR			***							<40	70.00		
Bromide	μg/L			***				***									135	•••		***
Cyanide (free)	με/L	215,000	TR	28,000	TR	28,000	TR	200	TR	41	TR	9.7	TR	84	TR	(***)				
Fluoride	µg/L	***		84,000	T	84,000	T										162))***	•••	***
Nitrite (as N)	μg/L	***		140,000	T	140,000	T			***							<100			***
Nitrate (as N)	µg/L	1000		2,240,000	T	2,240,000	T						***	***		***	840			
Nitrate + Nitrite (as N)	µg/L			***	***				***			244			1		840 <500			***
Orthophosphate	µg/L	***														37825	29,600			***
Silica	µg/L									100	T			100	T		29,600			***
Sulfide	μgЛ.			0,000			***			1,00	1.			100	1 .		1			
Major Anions	1		1		T		T		I		T		T		Ī		8,390	***	***	
Chloride Sulfate	µg/L		1		-		1							***			27,400	544)		***
Carbonate (as CaCO ₃)	µg/L µg/L	1242						***		***							<1000	444		
Bicarbonate (as CaCO ₃)	µg/L		1										Ī			1277	147,000	222		
Major Cations			-	Garage -						name and										
Calcium	μgЛ.	1,444	T	***						***							53,100			***
Magnesium	μgЛ.	2.2		222				***		***							8,960			
Potassium	μgЛ.			3.2											-	***	2,150			
Sodium	μg/L	(***)									1			***			9,750			
Physical Properties			_		_		_	1	1		_	The same	_		1		147,000	1 ==	T	T
Alkalinity (total as CaCO ₃)	μg/L			***				***			1				-		169			
Hardness	mg/L			100			-			200	1	3949					254,000			
Total Dissolved Solids	μg/L	***	1							80	T	80	T				<5	***		***
Total Suspended Solids	mg/L	***					***			80	1	80	1				<1		***	•••
					1	- 4	1	****	1		1 ***		1	THE PARTY NAMED IN	10.55					
Color	color units			230	-		_	-				-								
	MPN/100 m		_		1.		T/US	1	1		1		1		T	T	1 11	T		***

APACHE LEAP - BORED SPRING

Sample Location: Apache Leap - Bored Spring Sample ID: RESE-1001088 Sample Date: May 26, 2004

	TITUENTS		_		1	SURF	ACE	WATERS	TAN	DARDS			T	Aquatic a	nd	T		RE	SULTS	CHI-V-VIII-PI
		Fish Consumpt	ion	Full-body Contact	te l	Partial-bo Contact	8	Agricultu Livestoc Waterin	k		warm	d Wildlife water) Chroni		Wildlife (ephemera Acute		Dissolved Results	Total Results	Total Recoverable Results		
Name	Symbol	(µg/L)	Fraction	(μg/L)	Fraction	(µg/L)	Fraction	(µg/L)	Fraction	(µg/L)	Fraction	(µg/L)	Fraction	(µg/L)	Fraction	(µg/L)	(µg/L)	(µg/L)	Field Parameters	Use Exceeded
pH	pH			65.90	86	4.5-9.0		6.5-9.0			П				П				10.1	FBC, PBC, AgL
Temperature	°C		Н							_			77.10	***			***	***	26.7	
Specific Conductance (µS/cm)	EC							***				-		***		***	-		446	
Dissolved oxygen (mg/L)	DO			15.5	14		Ш		Н	6		6			\vdash	-			>20	
Turbidity (NTUs)	Turb.					•••			ш			-			L				4.0	450
etals	1 1	THE PARTY		Victoria II		16000 T		10.000				10 III			F		79			
Aluminum	Al Sb	4,300	TR	560	TR	560	TR		\vdash	88	D	30	D			<3.0	<3.0		***	
Antimony	As	1,450	TR	50	TR	420	TR	200	TR	360	D	190	D	440	D	9.0	8.0	9.0	***	•
Arsenie Barium	Ba	1,450	110	98,000	D	98,000	D		1.1.1							10.2				
Beryllium	Be	1,130	TR	2,800	TR	2,800	TR	***		65	D	5.3	D	***		<2.0	<2.0	<2.0		
Cadmium	Cd	84.0	TR	700	TR	700	TR	50	TR	6.0	D	2.8	D	90.1	D	<0.1	<0.1	<0.1		
Chromium (total)	Cr			100	TR	100	TR	1,000	TR			***		***		<6.0		<6.0		
Cobalt	Co			_							-		-	21.1	B	22.1	<6.0 25.4	24.8		A&Ww Acute & Chro
Copper	Cu			1,300	TR	1,300	TR	500	TR	18.0	D	11.0	D	31.1	D	241	92			*
Iron	Fe		-	15	TR	15	TR	100	TR	90.1	D	3.5	D	190	D	<3.0	<3.0	<3.0		•
Lead Managanese	Pb Mn			196,000	TR		TR		111		1			***	Ť		***	46.9		•
Manganese Mercury	Hg	0.60	TR	420	TR	420	TR	10	TR	2.4	D	0.01	D	5.00	D	<0.2	<0.2		***	
Molybdenum	Mo		1														13.2			
Nickel	Ni	4,600	TR	28,000	TR	28,000	TR			607	D	67	D	5,394	D	<10		<10		:
Selenium	Se	9,000	TR	7,000	TR	7,000	TR	50	TR	20	TR	2	TR	33.0	TR		<3.0	<3.0		
Silver	Ag	107,700	TR	7,000	TR	7,000	TR		\vdash	6	D	100		5.9	D	<0.1	<0.1	<0.1		-
Thallium	П	7.20	TR	112	TR	112	TR	25,000	79.83	700	D	150	D D	1,443	D	<2.0 <5.0	<2.0 <5.0	<5.0		- i
Zine	Zn	69,000	TR	420,000	TR	420,000	TR	25,000	TR	152	D	153	D	1,443	D	<5.0	13.0	~5.0		
organic Non-metallics		and the second state of		E E			_	222		-	The last				Т	***	-		T	
Asbestos (MFL)				126,000	TR	126,000	TR		+						\vdash		<40		***	
Boron	B CN	215,000	TR	28,000	TR	28,000	TR	200	TR	41	TR	9.7	TR	84	TR	222	<10			
Cyanide (free) Fluoride	F	213,000	110	84,000	T	84,000	T		1		1	-					550	202	2.2	•
Nitrite (as N)	NO ₂ '-N			140,000	T	140,000	Ť									577	ND	225	100	
Nitrate (as N)	NO ₃ -N			2,240,000	T	2,240,000	T		\Box			***		***			ND	222		:
Nitrate + Nitrite (as N)	NO2+NO3-N		10					***		***				***	_		ND			
Phosphorous	P				17		_					***		324	+		10,300			
Silica	SiO ₂	***	_					625	-						T		<1,000			
Sulfide				***			_			100.	. 1			100.	11		. 1,000 .			
Iajor Anions	1		_								Т	-			Т		20,800		***	
Chloride	CI SO4	-	-				H						1		+	3	22,700			•
Sulfate Carbonate	CO ₃		+			***	t								\top		156000			•
Bicarbonate	HCO,			-				***				To make the		***			76,000			
lajor Cations				Thiograph of									_		_					
Calcium	Ca					***	_		_	***				***	+		15,800	***		- :
Magnesium	Mg	***					1	***				-	+		+		23,400 11,200		***	
Potassium	K					-	╀	***	\vdash		-		+	***	╫		53,000	-		
Sodium	Na						_	***					100		-		20,000			
Radionuclides	T		1		1		Т		T					222	T		0.56	1000		
Gross alpha activity (pCi/L) Gross beta activity (pCi/L)							1		+								11.20			•
Radium 226+228 (pCi/L)												***		1			0.66			
Uranium (mg/L)	U					-2.2		1222	\Box		2 0	7 1			1		ND			
hysical Properties											_	1	and the same		_			_		
Alkalinity (total)				***			1		-		0		-		-		232,000		•••	
Hardness	***	-			-	***	1		+	-					+		136,000 332,000			
Total dissolved solids	TDS		-		-	2000	+	(444)	+	80	т	80	T		+		<5			
Total suspended solids	TSS (mg/L)	***	-		-		+		+	80	-		+		+		61		-	•
Color (color units)	1		1	-	_				_			V-5			1					
Biologicals (MPN/100 ml) Coliforms (total)	T				1		T		T	-77			1		I		2.0		-	(*)
E. Coli			1	235	Т	576	T	***				74 I		3000	\perp		ND		- 112	(•)2
dditions or Changes (mg/L)															_	_				
	Br						L								-		320	***		
Bromide	PO ₄	DICK B	I	***		122	\perp	***		•••		***	1			***				

063-2565 June 2006

> Sample Location: Sample ID: Sample Date: Flow Rate (gpm):

Apache Leap: Bored Spring RESE-1001163 11/3/2004 trickle

Parameters and Consti	tuents					S	urfac	e Water S	tano	lards						Results				
Name	Units	Fish Consumpt	ion	Full-boo		Partial-be Contac		Agriculti Livesto Wateri	k		arm	d Wildlife water) Chroni		Aquatic a Wildlift (ephemer Acute	e al)	Dissolved Results	Total Results	Total Recoverable Results	Field Parameters	Use Exceeded
		Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Results		Results		
Field																				10000
pH	s.u.			6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0	***	6.5-9.0	***	6.5-9.0					7.9	***
Temperature	°C																***	***	12	***
Specific Conductance	μS/cm	***			***	***			***		***	***			***				540	(222
Dissolved Oxygen	mg/L			***						6		6	***	***					0.76	
Turbidity	NTUs																	•••	0.76	
Metals					_		_		_		_		_	_	_		-20		Г Т	
Aluminum	μg/L					***				***			***	•••		***	<20			
Antimony	μg/L	4,300	TR	560	TR	560	TR			88	D	30	D	110	D	<3	<3 <3	<3 <3		
Arsenic	μg/L	1,450	TR	50	TR	420	TR	200	TR	360	D	190	D	440	D		-	- 3		
Barium	μg/L			98,000	D	98,000	D	***								13	<2	<2		
Beryllium	μg/L	1,130	TR	2,800	TR	2,800	TR	***		65	D	5.3	D	170.1	D		<0.1	<0.1		***
Cadmium	μg/L	84	TR	700	TR	700	TR	50	TR	11.3	D	4.3	D	170.4	D	<0.1		<6		
Chromium (total)	μg/L	=1/ 		100	TR	100	TR	1,000	TR							<6	<6			
Cobalt	μg/L	***						***					D	54.1	D	<3	<3	<3		
Copper	μg/L			1,300	TR	1,300	TR	500	TR	31.3	D	19.3	D		D	<3	99			
Iron	μg/L		***				тр	100	T-	1607		66	D	356.1	D	<3	<3	<3		***
Lead	μg/L	1000		15	TR	15	TR	100	TR	168.7	D	6.6	D	330.1	D		7	19		
Manganese	μg/L			196,000	TR	196,000	TR	10	TD	-	D	0.01	D	5.00	D	<0.2	<0.2			
Mercury	μg/L	0.6	TR	420	TR	420	TR	10	TR	2.4	D	0.01,	D	3.00	U		14			***
Molybdenum	μg/L	***		***		20.000		***		000	D	111	D	8,874.7	D	<10		<10		
Nickel	μg/L	4,600	TR		TR	28,000	TR		TR	999	TR	2.0	TR	33.0	TR	-10	<3	3		134
Selenium	μg/L	9,000	TR	7,000	TR	7,000	TR		IK	16	D	2.0	110	16.1	D	<0.1	<0.1	<0.1		
Silver	μg/L	107,700	TR	7,000	TR	7,000	TR			700	D	150	D		-	<2	<2	***		
Thallium	µg/L	7.2 69,000	TR	112 420,000	TR		TR		TR		D	252	D		D	<5	<5	<5		122
Zinc	μg/L	69,000	IR	420,000	II	420,000	111	23,000	110	230	10	2.2		2,570.0	-	- 62				
Inorganic Non-metallics	MFL		1								T		l							
Asbestos				126,000	TR	126,000	TR	***									<40			
Boron	μg/L μg/L		-	120,000	110	120,000											150	***		
Bromide General de (General)		215,000	TR	28,000	TR	28,000	TR	200	TR		TR		TR	84	TR			***	***	***
Cyanide (free)	μg/L μg/L	213,000	111	84,000	T	84,000	T	200									290			
Fluoride Nitrite (as N)	µg/L			140,000	T	140,000	T			1							<100			***
Nitrate (as N)	μg/L		1	2,240,000	T	2.240.000	T									500	<100			***
Nitrate (as N) Nitrate + Nitrite (as N)	μg/L μg/L		-	2,240,000			İ	***								225	<200			***
Orthophosphate	μg/L																<500			
Silica	μg/L												L			- 100	41,000			***
Sulfide	µg/L		-	***	1			***		- 100	T			100	T		<1000			
Major Anions	1.0		_		-				05										,	
Chloride	μg/L	***															9,950			***
Sulfate	µg/L	10 22 0	1							1 2 44							34,200			
Carbonate (as CaCO ₃)	μg/L			77/22		222											<1000	***		***
Bicarbonate (as CaCO ₃)	μg/L			***		***		•••				***				***	305,000			
Major Cations	20.00														_					-
Calcium	μg/L									-							42,500		***	
Magnesium	µg/L	***				777	-					4					33,800			***
Potassium	μg/L					***		***				***					5,400			***
Sodium	μg/L							***		-							25,900			
Physical Properties											_				-	_				-
Alkalinity (total as CaCO3)	μg/L							***		-							305,000	122		***
Hardness	mg/L											***					245			***
Total Dissolved Solids	µg/L																354,000			
Total Suspended Solids	mg/L			-						80	T		T				<5			
Color	color units							222					1 ***				<1			
Biologicals					_		_		_		_		_		_			V-000		
Coliforms (total)	MPN/100 ml				1	***		***					-				50		***	
E. Coli	MPN/100 ml		1000	235		576	1		1		1000		1		1		<2			

Notes:

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Sample Location: Sample Location: Sample ID: Sample Date: Flow Rate (gpm): Apache Leap: Bored Spring RESE-1001188 2/9/2005 1.06

Parameters and Constit	uents					Si	urfac	e Water S	Stand	lards						S 1 1 2		Results		
		Fish Consumpt	tion	Full-boo		Partial-be Contac		Agriculti Livesto Wateri	ck			d Wildlife water) Chroni		Aquatic a Wildlift (ephemer Acute	e al)	Dissolved	Total Results	Total Recoverable	Field	Use Exceeded
Name	Units	tandard	raction	tandard	raction	andard	raction	tandard	raction	tandard	raction	tandard	raction	tandard	Fraction	Results	Total Results	Results	Parameters	USE EXCEPTED
	- '0 X	Stan	Frac	Stan	Frac	Stan	Frac	Stan	Frac	Stan	Frac	Stan	Frac	Stan	Frac					
Field													_		_					
pH	s.u.	••		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0				***	7.7	***
Temperature	°C																		19 598	
Specific Conductance	μS/cm				***			***	***		***			***			***	***	6.4	
Dissolved Oxygen	mg/L									6	***	6							7.7	***
Turbidity	NTUs				375		***			-	***	-								
Metals			2.0		7223											***	<30			
Aluminum Antimony	μg/L μg/L	4,300	TR	560	TR	560	TR			88	D	30	D			<3	<3	<3	***	
Arsenic	µg/L	1,450	TR	50	TR	420	TR	200	TR	360	D	190	D	440	D	<3	<3	<3		1
Barium	μg/L			98,000	D	98,000	D									12	***			***
Beryllium	μg/L	1,130	TR	2,800	TR	2,800	TR			65	D	5,3	D			<2	<2	<2		***
Cadmium	μg/L	84	TR	700	TR	700	TR	50	TR	11.7	D	4.5	D	177	D	<0.2	<0,2	<0.2		
Chromium (total)	μg/L			100	TR	100	TR	1,000	TR							<6		<6		377
Cobalt	μg/L					1.000											<6			***
Copper	µg/L			1,300	TR	1,300	TR	500	TR	32.3	D	19.9	D	56	D	<10	<10	<10	***	
Iron	μg/L																<60	<3		
Lead	μg/L			15	TR	15	TR	100	TR	175.2	D	6.8	D	370	D	<3	ব	47		
Manganese	μg/L			196,000	TR	196,000	TR				D		D	5.0	D	<0.2	<0.2			***
Mercury	μg/L	0.6	TR	420	TR	420	TR	10	TR	2.4	ט		D	5.0	ь		<8			
Molybdenum	μg/L	4,600	TR	28,000	TR	28,000	TR			1.030	D	114	D	9,150	D	<10		<10		-
Nickel	µg/L	9,000	TR	7,000	TR	7,000	TR	50	TR	20.0	TR	2.0	TR	33	TR		<3	·····<		
Selenium Silver	μg/L μg/L	107,700	TR		TR	7,000	TR			17	D			17	D	<0.1	<0.1	<0.1		***
Thallium	µg/L	7.2	TR		TR	112	TR			700	D	150	D			<2	<2			100
Zinc	µg/L	69,000	TR		TR		TR	25,000	TR	258	D	260	D	2,450	D	12	11	11		
Inorganic Non-metallics																				
Asbestos	MFL			***		***		•••		***										222
Boron	µg/L			126,000	TR	126,000	TR					***				()	<40	***		
Bromide	μg/L			Tor. ***													163			
Cyanide (free)	µg/L	215,000	TR		TR		TR		TR	41	TR	9.7	TR		TR	***	***			
Fluoride	μg/L			84,000	T	84,000	T	***	***			***					405 <100	(See)		
Nitrite (as N)	µg/L			140,000	T	140,000	T		***								140	1000		
Nitrate (as N)	μg/L			2,240,000	T	2.240,000	T				100	200	-		-		<200			
Nitrate + Nitrite (as N)	μg/L				-								1	222			<500		***	
Orthophosphate Silica	μg/L μg/L		-														37,200		2.6	
Sulfide	μg/L μg/L		-		-					100	Т	***		1.100	Т		<1000	5000		
Major Anions	1000		-		-		_		-					van same						
Chloride	μg/L			***													9,370			25
Sulfate	µg/L															***	44,700	2000	575	
Carbonate (as CaCO ₃)	µg/L		I									# H				***	<1000			***
Bicarbonate (as CaCO ₃)	µg/L			207		***		•••									269,000		***	
Major Cations													_				12.500			
Calcium	μg/L			***	***												43,600			
Magnesium	μg/L							***					1				35,100	1000		
Potassium	μg/L					***			***								3,890 28,300			
Sodium	μg/L											***					20,500		987	
Physical Properties	no/I		1	Total Control			T		1				T	T	T		269,000		T 1	
Alkalinity (total as CaCO ₃)	μg/L	THE PARTY OF	-			***	-	(222)	-				1			222	254	***		
Hardness Total Disselved Solids	mg/L		-	_	-			***					1				353,000			
Total Dissolved Solids Total Suspended Solids	μg/L mg/L		1		-		-		1	80	T	80	T				<5			
Color Color	color units				1		-						1				<1	***	***	
Biologicals	color units		1000		-		_		_		_	NAME OF TAXABLE PARTY.	-		-					
Coliforms (total)	MPN/100 ml		·														17			•••
																	2			

E. Coli MPN/100 ml - 235 - 576 - - - - - - - - Notes:
Green cell color indicates ADEQ designated uses that are assumed to apply to site location.
s.u = standard units
'C = degrees Celsius
µSken = microSiemens per centimeter
mg/L = milligrams per liter
NTUs = Nephelometric Turbidity Units
µg/L = micrograms per liter
NTUs = Nephelometric Turbidity Units
µg/L = micrograms per liter
MPN/100 ml = most probable number per 100 milliliter
--- = not applicable
T = total
T = total
T = total
SD = not detected
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Apache Leap: Bored Spring RESE-1001204 5/3/2005 1.33

Parameters and Consti	tuents					S	urfac	e Water S	stand	lards					_			Results		
	Water.	Fish Consump	tion	Full-bo		Partial-b Contac		Agricultu Livesto Wateri	ck		arm	d Wildlife water) Chroni		Aquatic a Wildlif (ephemer Acute	e ral)	Dissolved	Total Results	Total Recoverable	Field	Use Exceeded
Name	Units	tandard	raction	tandard	raction	tandard	raction	tandard	raction	tandard	raction	tandard	raction	Standard	raction	Results	Total Results	Results	Parameters	
		Sta	F	Sta	Œ.	Sta	i.	Sta	E.	Str	Ë	Sta	F	Sts	4				l	the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s
ield															_				7.	
pH	s.u.	***		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0					7.6	
Temperature	°C					***				***	-								523	
Specific Conductance	μS/cm									6	***	6							10	
Dissolved Oxygen Turbidity	mg/L NTUs										-						122		0.38	
detals	NIUS		1000		7	77.05		1005	1023-		2015	Paradistration.	20000							
Aluminum	μg/L		TI														<30	***	•••	***
Antimony	μg/L	4,300	TR	560	TR	560	TR			88	D	30	D			<3	<3	⋖3		•••
Arsenic	µg/L	1,450	TR	50	TR	420	TR	200	TR	360	D	190	D	440	D	<3	<3	<3	*** *********************************	
Barium	µg/L			98,000	D	98,000	D					***				12			***	***
Beryllium	μg/L	1,130	TR	2.800	TR	2,800	TR		••••	65	D	5.3	D			<2	<2	<2	***	(***
Cadmium	µg/L	84	TR	700	TR	700	TR	50	TR	11.6	D	4.4	D	175	D	<0.2	<0.2	<0.2		
Chromium (total)	μg/L			100	TR	100	TR	1,000	TR		***					<6		<6		
Cobalt	µg/L					1.000		500		22.0		10.7			D	-10	<6 <10	<10		***
Copper	μg/L			1,300	TR	1,300	TR	500	TR	32.0	D	19.7	D	55	D	<10	<60	<10		
Iron	μg/L			15	TR	15	TR	100	TR	173.1	D	6.7	D	365	D	<3	<3	<3		
Lead	µg/L			196,000	TR	196,000	TR	100	IK.	175.1	υ 	0.7		303		7		99		
Manganese Mercury	μg/L μg/L	0.6	TR	420	TR	420	TR	10	TR	2.4	D	[· [0.01]·]	D	5.0	D	<0.2	<0.2		***	***
Molybdenum	μg/L μg/L	0.6		+20		420											9.8			(444)
Nickel	μg/L μg/L	4,600	TR		TR	28,000	TR	***		1,020	D	113	D	9,058	D	<10	555	<10		•••
Sclenium	µg/L	9,000	TR	7,000	TR	7,000	TR	50	TR	20,0	TR	2.0	TR	33	TR	-	<3	<3	***	(1777)
Silver	µg/L	107,700	TR	7,000	TR	7,000	TR			17	D			17	D	<0.1	<0.1	<0.1	***	***
Thallium	μg/L	7.2	TR	112	TR	112	TR	***		700	D	150	D			<2	<2			
Zinc	µg/L	69,000	TR	420,000	TR	420,000	TR	25,000	TR	256	D	258	D	2,425	D	<10	<10	15	***	
Inorganic Non-metallics					_		_		_										I	
Asbestos	MFL	***				***		***		***	***						<40		***	
Boron	μg/L	***		126,000	TR	126,000	TR										175			(1999)
Bromide	μg/L	215,000	TR		TR	28,000	TR	200	TR	41	TR	9.7	TR	84	TR					
Cyanide (free)	μg/L	215,000	IR 	84,000	T	84,000	T	200	II.								318			
Fluoride Nitrite (as N)	μg/L μg/L			140,000	T	140,000	T	(***)									<100			
Nitrate (as N)	µg/L			2,240,000		2,240,000	T										250			
Nitrate + Nitrite (as N)	µg/L		1					2467								***	250	•••	***	
Orthophosphate	μg/L			***		***		LOCAL I				***					<500	-		***
Silica	μg/L					***										0.000	36,400			
Sulfide	μg/L									100	T	***		100	T	***	····<1000			
Major Anions			_		_				_				_				11 700	<u> </u>	T 200 T	7.22
Chloride	µg/L				***	***		•••		***							11,600			
Sulfate	μg/L												-		=		44,100 <1000			
Carbonate (as CaCO ₃) Bicarbonate (as CaCO ₃)	µg/L												-				246,000			
	μg/L		1				1	9777	1			S 645	1		_					
Major Cations Calcium	µg/L		1		1		1		T				1			1	43,600	1999		-
Magnesium	µg/L µg/L		1		-		1										34,500			
Potassium	μg/L		1													***	4,100	***	***	
Sodium	µg/L	***															22,700	***	***	
Physical Properties															_					
Alkalinity (total as CaCO ₃)	µg/L									-						***	246,000			
Hardness	mg/L					/ ***											251		***	
Total Dissolved Solids	μg/L			***				***									330,000	***		242
Total Suspended Solids	mg/L					***		•••		80	T	80	T				<5		***	
Color	color units												1				<1	***		
Biologicals	I a management				_		1		1				1		T					
Coliforms (total)	MPN/100 ml			235		576									***					
E. Coli	MPN/100 ml			1 255	1	1 270	1													NO.

Apache Leap: Bored Spring RESE-1001221 8/3/2005 0.5

Parameters and Constit	luents					S	urfac	e Water S	tano	lards								Results		
		Fish	lan.	Full-box		Partial-be		Agriculti Livesto	ck			id Wildlife water)		Aquatic a Wildlife (ephemer	2					
Name	Units	Consumpt	ion	Contac	•	Contac		Wateri	ng	Acute		Chroni	c	Acute		Dissolved Results	Total Results	Total Recoverable Results	Field Parameters	Use Exceeded
	7	tandard	raction	Standard	raction	Standard	raction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction					
ield		- 01	1 1		-															
pH	s.u.	***		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		***		133	7.1	***
Temperature	°C			***		444			***	***	***			***		***	***		25	
Specific Conductance	μS/cm					200				***					•••		***		609	
Dissolved Oxygen	mg/L	***								6		6	***				•••		1.9	A&WwwA & A&WwwC
Turbidity	NTUs				***	505		- 55	***						***		***		1.7	
Metals										V - 20 11 11 11	Name of	A THE LOCAL DESIGNATION AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RESIDENCE AND RE	Diam'r.				115			
Aluminum	μg/L			***		560	TR			88	D	30	D			<3	<3	<3	***	
Antimony	µg/L	4,300	TR	560	TR	420	TR	200	TR	360	D	190	D	440	D	<3	<3	্য		•••
Arsenie	µg/L	1,450	TR	50 98,000	TR D	98,000	D	200	IK	300		170		440		13			122	
Barium	ие/L	1,130	TR	2.800	TR	2,800	TR			65	D	5.3	D			<2	<2	<2		
Beryllium Cadmium	μg/L μg/L	84	TR	700	TR	700	TR	50	TR	13.1	D	4.8	D	198	D	<0.2	0.3	<0.2	3000	(***
Chromium (total)	идг. идг.			100	TR	100	TR	1,000	TR							<6		<6		5 510 0
Cobalt	µg/L																<6	- 44		1900
Copper	ие/L	70 V		1,300	TR	1,300	TR	500	TR	35.7	D	21.7	D	62	D	<10	<10	<10		
Iron	μg/L									T				***		***	214	***		2000
Lead	ug/L			15	TR	15	TR	100	TR	195.5	D	7.6	D	413	D	<3	<3	<3	244	(see
Manganese	µg/L			196,000	TR	196,000	TR			***								1,340		1922
Mercury	μg/L	0.6	TR	420	TR	420	TR	10	TR	2.4	D	0.01	D	5.0	D	<0.2	<0.2	-		
Molybdenum	µg/L							/				***					9.3		***	
Nickel	µg/L	4,600	TR	28,000	TR	28,000	TR			1,126	D	125	D	9,996	D	<10	(2.2)	<10	***	
Selenium	μgЛ	9,000	TR	7,000	TR	7,000	TR	50	TR	20.0	TR	2.0	TR	33	TR		<3	· · · · · · · · · · · · · · · · · · ·		
Silver	μgЛ.	107,700	TR	7,000	TR	7,000	TR	***		21	D			21	D	<0.1	<0.1	<0.1		
Thallium	μgЛ.	7.2	TR	112	TR	112	TR			700	D	150	D			<2	<2 41		***	
Zine	μg/L	69,000	TR	420,000	TR	420,000	TR	25,000	TR	282	D	284	D	2,677	D	<10	-41	44		
Inorganic Non-metallics			_		_		_		_							l	-			
Asbestos	MFL		***		***	***		***			***		***				<40			***
Boron	μg/L			126,000	TR	126,000	TR		***					(21/2)			247	(222)	***	***
Bromide	μgЛ.	***		20,000	TR	28,000	TR	200	TR	41	TR	9.7	TR		TR					
Cyanide (free)	μgЛ.	215,000	TR	28,000 84,000	T	84,000	T	200	IK		III	9.1	IIK	04			304			222
Fluoride	μgЛ.	***		140,000	T	140,000	T			32233			-	5444		***	<100			***
Nitrite (as N) Nitrate (as N)	µg/L µg/L			2,240,000	T	2.240,000	T						-				210	(max)	(***)	***
Nitrate (as N) Nitrate + Nitrite (as N)	μg/L		1	2,240,000	1:	2.240,000	i						-	***			210			2.5
Orthophosphate	µg/L	24.	1			244											<500			
Silica	µg/L		1					200		1000				***			39,200		****	
Sulfide	µg/L									100	T			-100	T	***	<1000	•••		
Major Anions		-	•																	
Chloride	μg/L.			/				***						***			16,200	***		- 10
Sulfate	µg/L									***							51,400	***	(***)	
Carbonate (as CaCO ₃)	με∕Т	***						222		***						244	<1000	***		
Bicarbonate (as CaCO ₃)	µg/L	200		•••				***						24.4			265,000	•••	***	
Major Cations									_		_		_		_		1			
Calcium	μg/L						***					***		****		***	52,000	(444)		
Magnesium	µg/L													/ 222			36,900	5000	122	
Potassium	µg/L					•••								***			5,540 25,500			***
Sodium	μgЛ.			***					•••		***	•••	1	1 270	1		40,500			
Physical Properties		-	-	12020	Torses	1 1985				1	1000		1000		-	T	265,000			I
Alkalinity (total as CaCO ₃)	με/L		-								-		+		1		282	1922	1222	5.39
Hardness	mg/L		-					***			-		1				383,000			622
Total Dissolved Solids	µg/L			***		***	-			80	T	80	T		-		22			
Total Suspended Solids	mg/L					***					1		1	111			<1	(***)	***	
Color Biologicals	color units	- 1000 L			1		1		1		_		-			-				
DIOIOPICAIS							_		_		_		_		_	1	1,600			222
Coliforms (total)	MPN/100 ml	***	55.96	***				***			440	***	***	***		****				

APACHE LEAP - HIDDEN SPRING

Sample Location: Apache Leap-Hidden Spring Sample ID: RESE-1001003 Sample Date: May 15, 2003

PARAMETERS AND CONSIT	TODITO				T		T	VATER STA	1				1	Aquatic ar	ıd				ESULTS	
		Fish Consumpti	ion	Full-body Contact		Partial-boo	dy	Agricultur Livestock Watering			arm	d Wildlife water) Chronic		Wildlife (ephemera Acute		Dissolved Results	Total Results	Total Recoverable Results		
Name	Symbol	(µg/L)	Fraction	(μg/L)	Fraction	(µg/L)	Fraction	(µg/L)	Fraction	(µg/L)	Fraction	(µg/L)	Fraction	(µg/L)	Fraction	(µg/L)	(µg/L)	(µg/L)	Field Parameters	Use Exceeded
eld					_		_						_			7			7.6	
pH	pH			6.5-9.0	_	4.5-9.0	\vdash	6.5-9.0	Н		H		0		Н		-		18.3	
Temperature	°C	***	-				\vdash		Н						Н			-	642	•
Specific Conductance (µS/cm)	EC		-		-		H		Н	6		6			Н		-		3.3	A&Ww Acute and Ch
Dissolved oxygen (mg/L)	DO				-		Н		Н		Н			•••	Н			-	3.1	
Turbidity (NTUs)	T								_		_		_							
Aluminum	Al			150 - 10	I		П										42	***	***	
Antimony	Sb	4,300	TR		TR	560	TR		П	88	D	30	D			<6.0	<6.0	<6.0		
Arsenic	As	1,450	TR		TR	420	TR	200	TR	360	D	190	D	440	D	<3.0	<3.0	<3.0	-	8,
Barium	Ba	10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -			D	98,000	D			-	Ti.					26.9	-			
Beryllium	Be	1,130	TR		TR	2,800	TR			65	D	5.3	D			<2.0	<2.0	<2.0		•
Cadmium	Cd	84	TR		TR	700	TR	50	TR	17.42	D	5.84	D	264	D	<0.1	<0.1	<0.1		•
Chromium (total)	Cr			100	TR	100	TR	1,000	TR									<6.0		<u> </u>
Cobalt	Co						Ш	***									<6.0			
Copper	Cu			1,300	TR	1,300	TR	500	TR	45.75	D	27.20	D	79	D	<3.0	<3.0	<3.0		
Iron	Fe			***			\Box	225									97			
Lead	Pb	-			TR	15	TR	100	TR	257.05	D	10.02	D	542	D	<3.0	<5.0	<3.0		
Manganese	Mn	1			TR	196,000	TR										-0.2	22.5		
Mercury	Hg	0.6	TR	420	TR	420	TR	10	TR	2.40	D	0.01.	D	5	D	<0.2	<0.2	6,775		
Molybdenum	Mo	The second			13			- 4			E						21.6	***		
Nickel	Ni	4,600	TR	28,000	TR	28,000	TR			1,407	D	156.23	D	12,492	D	<10.0		<10.0	-	
Selenium	Se	9,000	TR	7,000	TR	7,000	TR	50	TR	20	TR	2.00	TR	33	TR		`<3.0	<3.0		
Silver	Ag	107,700	TR		TR	7,000	TR			32.29	D			32	D	<0.1	<0.1	<0.1	-	
Thallium	TI	7.2	TR		TR	112	TR			700	D		D		\vdash	<2.0	***	<2.0		
Zinc	Zn	69,000	TR		TR	420,000	TR	25,000	TR	352.61	D	355.5	D	3,346	D	9.5	10.8	11.7		
norganic Nonmetalics			_				_		_											
Ashestos (MFL)														-	\vdash		<700			-
Boron	В	/			TR	126,000	TR	•••			1	***			-	<40.0				-
Cynanide (free)	CN	215,000	TR	28,000	TR	28,000	TR	200	TR	41	TR	9.7	TR	84	TR	***	<100.0	***		
Fluoride	F			84,000	T	84,000	T		L			•••		222		210	22	-225		- :
Nitrite (as N)	NO;-N			140,000	T	140,000	T	***				-		***			ND			
Nitrate (as N)	NO, N		1	2,240,000	Т	2,240,000	T							***			780	***	-	•
Nitrate + Nitrite (as N)	NO, +NO, -N					***		***	Т					***			780			•
Phosphorous	P		1	0								-								
Silica	SiO ₂			-	Ш.			_ ===	Г	100						***	24,600	***		
Sulfide						777	\Box		П	100.	. T	-275		100	T		·. :<1000 ·.		***	
Jajor Anions			-		_		-		-		T.									
Chloride	Cl	220	1			***	П		Т		T						14,100			*
Sulfate	SO4			244		***		- 122	П							***	81,800	***		•
Carbonate	CO ₃				100						132		60				<1000	222	***	•
Bicarbonate	HCO,					***							14			***	263,000			
lajor Cations							-31		377				_		_				т	
Calcium	Ca			44		***		144		-					┡	***	90,200			-
Magnesium	Mg		4 50			/222			_					***	1		34,400			-
Potassium	K			-	- 6				_		_	1 1 1			_		<1000			- :
Sodium	Na	•••				***	\perp	•••						***	_		13,400			13
Radionuclides									-		_				_			T	T	
Gross alpha activity (pCi/L)							1		-		-	-			⊢		-2.5			
Gross beta activity (pCi/L)					L	***		***	1		-				⊢	***	-3.5			
Radium 226+228 (pCi/L)		***		•••			_		-	***	-				+	735	-2.4			
Uranium (mg/L)	U			***		***	1		_		1_	***			_		0.00067			10
hysical Properties					_		_		_	-	-				_	T	263,000			
Alkalinity (total)	-		-		-	***	-	***	+	***	-			***	+	***	367,000			
Hardness			-		-		+	***	-		+		-	•••	+					
Total dissolved solids	TDS		-		-		+		-		-		-		+	***	447,000			
Total suspended solids	TSS (mg/L)				-		-	****	+	80	T	80	1		+					
Color (color units)					1				_			***			_		10			
			_		1	1	_	20000	Т					2520,000	_	200	pprerar		1	
Coliforms (total)			-		-		-		+		+		1		+					
E. Coli	-			235	T	576	IT		1		_		1_		_		PRESENT			
		_					_		1		-	-15//2011	1		T	150	Ι	T	-	
			-		-	-	+		+		-	-	1		+				***	
Color (color units) Biologicals (MPN/100ml) Coliforms (total)	Br PO ₄ Od uses that are as acted		y to sit	235	Т		T									150	PRESENT PRESENT ND		***	

Sample Location: Apache Leap - Hidden Spring Sample ID: RESE-1001015 Sample Date: August 20, 2003

Name			Exection and the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	50 98,000 2,800 700 100 1,300 15 196,000 420 28,000 7,000 7,000 112	Larction RT RT RT RT RT RT RT RT RT RT RT RT RT	Partial-boo Confact (ug/L) 4.5-9.0 	dy	Agricultur. Livestock Watering (µg/L) 6.5-9.0	al	(µg/L) (µg/L) (µg/L) (µg/L) 6 6 88 360 65 17.73 46.46	arm	30 190 5.3 5.91 27.58	D D D D D D D D D D D D D D D D D D D			(µg/L) (µg/L) (µg/L) (µg/L)	Total Results (µg/L)	Total Recoverable Results (ug/L)	Field Parameters. 7.4 23.1 710 0.22 2.1	Use Exceeded A&Ww Acute and Chronic
Pit	4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(iig/L)	Larction R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R. T. R.	(hg/L) 6.5-9.0	TR TR TR TR TR TR TR TR TR	(ug/L) 4.5-9.0 560 420 98,000 2.800 100 15 15 15 28,000 420 28,000	LE IR IR IR IR IR IR IR IR IR IR IR IR IR	(ug/L) 6.5-9.0 200 50 1.000 100 110	TR TR	(µg/L) 6 88 360 65 17.73	D D D D D D	(µg/L) 6 30 190 5.3 5.91 27.58	D D D D D D D D D D D D D D D D D D D	(ng/L)	D	(µg/L)	(ug/L)	(ng/L)	7.4 23.1 710 0.22 2.1	A&Ww Acute and Chronic
Pit	111		TR TR TR TR TR TR TR TR TR TR TR TR	6.5-9.0 560 50 98,000 2,800 100 1,300 15 196,000 7,000 7,000 7,000 7,000	TR TR TR TR TR TR TR TR TR TR TR TR	4,5-9.0	TR TR TR TR TR TR TR	200 50 1.000 100 100 100 100 100 100 100 100	TR TR	88 360 65 17.73 	D D D	30 190 	D D D		D	 <6.0 <3.0 27.3 <2.0 <0.1 <6.0	<pre> <20.0 <6.0 <3.0 <2.0 <0.1</pre>	 <6.0 <3.0 <2.0 <0.1 <6.0	23.1 710 0.22 2.1	A&Ww Acute and Chronic
Temperature	111	4,300 1,450 1,130 84 1,130 8.4	TR TR TR TR TR TR TR TR TR TR TR TR		TR TR TR TR TR TR TR TR TR TR TR TR		TR TR TR TR TR TR TR	200 50 1.000 100 100 100 100 100 100 100 100	TR TR	88 360 65 17.73 	D D D	30 190 	D D D		D	 <6.0 <3.0 27.3 <2.0 <0.1 <6.0	<pre> <20.0 <6.0 <3.0 <2.0 <0.1</pre>	 <6.0 <3.0 <2.0 <0.1 <6.0	23.1 710 0.22 2.1	A&Ww Acute and Chronic
Specific Conductance (riS/cm) EC	111	4,300 1,450 1,130 84 0,6 4,600 9,000 107,700 7,2	TR TR TR TR TR TR TR TR TR TR TR TR	560 50 98.000 2,800 700 1100 	TR TR TR TR TR TR TR TR TR TR TR TR	 560 420 98,000 2,800 700 100 1,300 15 196,000 420 28,000	TR TR TR TR TR TR TR	200 500 1.000 100 10	TR TR	88 360 65 17.73 	D D D	30 190 5.3 5.91 27.58	D D D	440	D		<20.0 <6.0 <3.0 <2.0 <0.1		710 0.22 2.1	
Dissolved oxygen (mg/L) DO	111	4,300 1,450 1,130 84 4,600 9,000 107,700 7,2 69,000	TR TR TR TR TR TR TR TR TR TR TR TR		TR TR TR TR TR TR TR TR TR TR TR TR	560 420 98,000 2,800 100 1,300 15 190,000 420 28,000 7,000	TR TR TR TR TR TR TR	200 	TR TR	88 360 65 17.73 	D D D	30 190 5.3 5.91 27.58	D D D	440	D	 <6.0 <3.0 27.3 <2.0 <0.1 <6.0	<20.0 <6.0 <3.0 <2.0 <0.1	 <6.0 <3.0 <2.0 <0.1 <6.0	0.22 2.1	
Turbidity (NTUs) T	111	4,300 1,450 1,130 84 0.6 0.6 4,600 9,000 107,700 7.2 69,000	TR TR TR TR TR TR TR TR TR TR TR TR		TR TR TR TR TR TR TR TR TR TR TR TR	560 420 98,000 2,800 700 100 1,300 15 196,000 420 28,000 7,000	TR TR TR TR TR TR TR	200	TR TR	88 360 65 17.73 	D D D	30 190 	D D D	440 268 	D	<6.0 <3.0 27.3 <2.0 <0.1 <6.0	<20.0 <6.0 <3.0 <2.0 <0.1	 <6.0 <3.0 <2.0 <0.1 <6.0		
Metals	111	1,450 1,130 84	TR TR TR TR TR TR TR TR TR TR TR TR	560 50 98,000 2,800 100 1,300 15 196,000 420 28,000 7,000 7,000 7,000	TR TR TR TR TR TR TR TR TR TR TR TR	560 420 98,000 2,800 700 100 1,300 15 196,000 420 28,000 7,000	TR TR TR TR TR TR TR	50 1,000 500 1,000 100	TR TR	88 360 65 17.73 46.46	D D D	30 190 	D D D	440 268 	D	<6.0 <3.0 27.3 <2.0 <0.1 <6.0	<6.0 <3.0 <2.0 <0.1	<6.0 <3.0 <2.0 <0.1 <6.0		•
Aluminum	111	1,450 1,130 84	TR TR TR TR TR TR TR TR TR TR TR TR	560 50 98,000 2,800 700 100 1,300 15 196,000 420 28,000 7,000 112	TR TR TR TR TR TR TR TR TR TR TR TR	560 420 98,000 2,800 700 100 1,300 15 196,000 420 28,000 7,000	TR TR TR TR TR TR TR	50 1,000 500 1,000 100	TR TR	88 360 65 17.73 46.46	D D D	30 190 	D D D	440 268 	D	<6.0 <3.0 27.3 <2.0 <0.1 <6.0	<6.0 <3.0 <2.0 <0.1	<6.0 <3.0 <2.0 <0.1 <6.0		•
Arsenic	111	1,450 1,130 84	TR TR TR TR TR TR TR TR TR TR TR TR	50 98,000 2,800 700 100 1,300 15 196,000 420 28,000 7,000 7,000 112	TR TR TR TR TR TR TR TR TR TR TR TR	420 98,000 2,800 700 100 1,300 15 196,000 420 28,000 7,000	TR TR TR TR TR TR TR	200 	TR TR	360 65 17.73 46.46	D D D	190 	D D D	268 	D	<3.0 27.3 <2.0 <0.1 <6.0	<3.0 <2.0 <0.1	<3.0 <2.0 <0.1 <6.0		:
Barium	10	1,130 84 0.6 4,600 9,000 107,700 7.2 69,000	TR TR TR TR TR TR TR TR TR TR TR TR	98,000 2,800 700 100 1,300 15 196,000 420 28,000 7,000 7,000 112	TR TR TR TR TR TR TR TR TR TR TR TR	98,000 2,800 700 100 1,300 15 196,000 420 28,000 7,000	TR TR TR TR TR	50 1,000 500 100	TR TR	65 17.73 46.46	D D	5.3 5.91 27.58	D D	268	D	27.3 <2.0 <0.1 <6.0	<2.0 <0.1	<2.0 <0.1 <6.0		
Beryllium	11	84 0.6 4,600 9,000 107,700 7.2 69,000	TR TR TR TR TR TR	2,800 700 100 1,300 15 196,000 420 28,000 7,000 7,000 112	TR TR TR TR TR TR TR TR TR	2,800 700 100 1,300 15 196,000 420 28,000 7,000	TR TR TR TR TR	50 1,000 500 100	TR TR	65 17.73 46.46 	D	5.91 27.58	D D	268		<2.0 <0.1 <6.0	<2.0 <0.1	<2.0 <0.1 <6.0		
Cadmium	11	84 0.6 4,600 9,000 107,700 7.2 69,000	TR TR TR TR TR TR	700 100 1,300 15 196,000 420 28,000 7,000 7,000 112	TR TR TR TR TR TR TR TR TR	700 100 1,300 15 196,000 420 28,000 7,000	TR TR TR TR TR	50 1,000 500 100 	TR TR	17.73 46.46 	D	5.91 27.58	D D	268		<0.1 <6.0	<0.1	<0.1 <6.0		
Chromium (total)	10	 0.6 4,600 9,000 107,700 7.2 69,000	TR TR TR TR TR	100 1,300 15 196,000 420 28,000 7,000 7,000 112	TR TR TR TR TR TR TR	100 1,300 15 196,000 420 28,000 7,000	TR TR TR TR	1,000 500 100 10	TR TR	46.46	D	27.58	D			<6.0		<6.0		
Cobalt	10	0.6 4,600 9,000 107,700 7.2 69,000	TR TR TR TR	1,300 15 196,000 420 28,000 7,000 7,000 112	TR TR TR TR TR	1,300 15 196,000 420 28,000 7,000	TR TR TR	500 100 	TR	46.46		27.58		***	D					
Copper	10	 0.6 4,600 9,000 107,700 7.2 69,000	TR TR TR TR	1,300 15 196,000 420 28,000 7,000 7,000 112	TR TR TR TR TR	1,300 15 196,000 420 28,000 7,000	TR TR TR	100	TR					80	D		<6.0	***		
Iron	10	 0.6 4,600 9,000 107,700 7.2 69,000	TR TR TR TR	 15 196,000 420 28,000 7,000 7,000 112	TR TR TR TR TR	15 196,000 420 28,000 7,000	TR TR TR	100	TR		D	10.19			17	<3.0	<3.0	<3.0	-	• -
Lead	10	4,600 9,000 107,700 7.2 69,000	TR TR TR TR	196,000 420 	TR TR TR TR	15 196,000 420 28,000 7,000	TR	10		261.38	D	10.19					213			
Mercury	10	4,600 9,000 107,700 7.2 69,000	TR TR TR TR	420 28,000 7,000 7,000 112	TR TR TR	420 28,000 7,000	TR	10	770		1		D	552	D	<3.0	<5.0	<3.0		
Mercury	10	4,600 9,000 107,700 7.2 69,000	TR TR TR TR	28,000 7,000 7,000 112	TR TR TR	28,000 7,000			ITU	Cattle Control	-							21.1		- :
Molybelenum	10	4,600 9,000 107,700 7.2 69,000	TR TR TR	28,000 7,000 7,000 112	TR TR	28,000 7,000	TR	1422	110	2.40	D	0.01	D	5	D	<0.2	<0.2			
Selenium Se	10	9,000 107,700 7.2 69,000	TR TR TR	7,000 7,000 112	TR TR	7,000	TR			***	18	***		***	\Box	-	9.2			
Silver	6	7.2 69,000	TR TR	7,000 112	TR					1,426	D		D		Đ	<10.0	***	<10.0		
Tabilium	6	7.2 69,000	TR	112		7,000	TR	50	TR		TR		TR	33	TR		<3.0	<3:0 ·		
Zine	7	69,000			LTR		TR		_	33.20	D		-	33	D	<0.1 <2.0	<0.1 <2.0	<0.1		-
	7		TR	420 (XX)			TR	NT.000	1777	700	D		D D	3,392	D	<5.0	17.2	17.3		
Askestos (MFL)	2			120,000	TR	420,000	TR	25,000	TH	357.49	D	300.41	וע	3,372	17	53.0	17.2	17.5		
Boron B Cynanide (free) CN Fluoride F Fluoride F Nitrite (as N) NO ₂ *. Nitrate (as N) NO ₂ *. Nitrate (as N) NO ₂ *. Nitrate (as N) NO ₂ *. Nitrate (as N) NO ₂ *. No ₂ *. Nitrate (as N) NO ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂ *. No ₂	2						Ī		-						П	-		200		•
Cynanide (free) CN Fluoride F Fluoride F Nitrite (as N) NO ₂ , No Nitrate (as N) NO ₂ + No Nitrate + Nitrite (as N) NO ₂ + No Phosphorous P Silica SiO Sulfide Major Anions Chloride Chloride Cl Sulfate SO Carbonate CO Bicarbonate HCC	2			126,000	TR		TR									-	45			•
Fluoride		215,000	TR	28,000	TR		TR	200	TF	41	TR	9.7	TR	84	TR		<10.0			
Nitrite (as N)				84,000	T	84,000	T			***				***		210	***	***		•
Nitrate (as N)	v			140,000	T	140,000	T	422						***			ND			
Nitrate + Nitrite (as N) NO2**N				2.240,000	T	2,240,000	T										300	<u>==</u>		
Prosphorous													13	***			300			
Silica SiO	I.E.									***				***			***	***		-
Major Anions Cl Chloride Cl Sulfate SO Carbonate CO Bicarbonate HCC						5751											26,500		-	
Chloride Cl Sulfate SO: Carbonate CO Bicarbonate HCC				-		****				100	· T			100	T		<(000			3
Sulfate SO Carbonate CO Bicarbonate HCC	-		_				_				-		_				12,100	I		
Carbonate CO Bicarbonate HCC	_		\vdash			222	⊢	1444	⊢		-						75,300		-	
Bicarbonate HCC	100						+		-							-	<1000			
			H				1				1						308,000	-	-	
			ш				-		-		-							·		Views
Calcium Ca	1					***	Τ		I								93,300			3.00
Magnesium Mg		-				***	1	***		***				***	\Box	(34,000			
Potassium K		***				922		•••									1,500			
Sodium Na				75 To 100		700		1220	L					1444	Ш	-	13,700			
Radionuclides			_				_	Total Control	1	This same	1	F		200		1		T		
Gross alpha activity (pCi/L)					-	-	-		1		100								_	
Gross beta activity (pCi/L)					-		-	•••	1		-				Н					
Radium 226+228 (pCi/L) Uranium (mg/L) U	_				-		+		1		1									19,2
Uranium (mg/L) U Physical Properties					-		1		1		-				-	11500				
Alkalinity (total)							T		T		1					-	308,000			
Hardness														344		***	373,000		***	
Total dissolved solids TD	120				-									-			442,000		-	
Total suspended solids TSS (rr										80	T	80	T		\Box		<5	_		160
Color (color units)						***		(***)						***	\Box		10		***	
Biologicals (MPN/100ml)	100000					40					-						Innecess			
Coliforms (total)					-		-	244	-		-		\vdash		\vdash		PRESENT		-	-
E. Coli		***		235	T	576	T		1_	***		- 1		***	_	-	PRESENT	1		
Additions or Changes (mg/L)		4 - 175 - 1 - 1 - 1 - 1	_	I	T	I	Т		T	1 _	T	T I	SII!	- 22	Т	160				
Bromide Br Orthophosphate PO		-			-		+	-	1						t		ND	_		

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Sample Location: Apache Leap - Hidden Spring Sample ID: RESE-1001027 Sample Date: November 3, 2003

Name			Т		Т	JOH		WATER ST			8	555555400 X =	T	Aquatic ar					SULTS	
	1	Fish		Full-body		Partial-bo		Agricultur Livestock Watering	k .		arm	d Wildlife water) Chroni		Wildlife (ephemera Acute		Dissolved Results	Total Results	Total Recoverable Results		
		Consump	Fraction a	Contact	raction	Contact	ction	Watering	tion	Acuie	ction	Chroni	Fraction		raction	Results	Kesuns	Kesans	Field	
	Symbol	(µg/L)	Fr	(µg/L)	E	(µg/L)	E.	(µg/L)	Frac	(µg/L)	Fr	(µg/L)	G.	(µg/L)	E	(µg/L)	(µg/L)	(μg/L)	Parameters	Use Exceeded
eld	-11			6.5-9.0		4.5-9.0		6.5-9.0				E. A.D.	П						7.4	
pH Temperature	pH °C		\vdash	0.3-9.0		4.3-9.0		0.3-9.0	H						Н				18	
Temperature Specific Conductance (µS/cm)	EC		\vdash		Н	***						***		***			***		767	
Dissolved oxygen (mg/L)	DO							822		6		6					-	(444)	0.48	A&Ww Acute and C
Turbidity (NTUs)	Turb.									CIETA II		***		922		***		***	3.2	•
etals			_				_		_											
Aluminum	Αl							***			-	***	- 1	-			20			*
Antimony	Sb	4,300	TR	560	TR	560	TR			88	D	30	D			<3.0	<3.0	<3.0		
Arsenie	As	1,450	TR	50	TR	420	TR	200	TR	360	D	190	D	440.0	D	<3.0	<3.0	<3.0	***	•
Barium	Ba			98,000	D	98,000	D				100			-		26.9	100			
Beryllium	Be	1,130	TR	2,800	TR	2,800	TR			65	D	5.3	D	744		<2.0	<2.0	<2.0		•
Cadmium	Cd	84.0	TR	700	TR	700	TR	50	TR	17.8	D	5.9	D	269.2	D	<0.1	< 0.1	< 0.1		•
Chromium (total)	Cr			100	TR	100	TR	1,000	TR	-						<6.0		<6.0		•
Cobalt	Co			12.0						***		-		***		-	<6.0		***	•
Copper	Cu		.12	1,300	TR	1,300	TR	500	TR	46.6	D	27.6	D	80.6	D	<3.0	<3.0	<3.0	***	
Iron	Fe				m		1		П	***					\Box		302		1,22	•
Lead	Pb			15	TR	15	TR	100	TR	262.1	D	10.2	D	553.2	D	<3.0	<5.0	<3.0		•
Manganese	Mn			196,000	TR	196,000	TR			-		***						29.4	-	•
Mercury	Hg	0.60	TR		TR	420	TR	10	TR	2.4	D	0.01	D	5.00	D	·::<0.2::	<0.2		***	
Molybdenum	Mo		1		H		Τ		П						Г		15.5	524		•
Nickel Nickel	Ni	4,600	TR	28,000	TR	28,000	TR			1,429	D	159	D	12,693.2	D	<10.0		<10.0		
Selenium	Se	9,000	TR	7,000	TR	7,000	TR		TR	20	TR	2 · . · .	TR	33.0	TR		<3.0	<3.0		•
	Ag	107,700	TR	7,000	TR	7,000	TR		۳	33	D			33.4	D	<0.1	<0.1	<0.1		
Silver	TI TI	7.20	TR	112	TR	112	TR		\vdash	700	D	150	D		Ť	<2.0	<2.0	<2.0		
Thallium		69,000	TR		TR		TR		TR	358	D	361	D	3,400.2	D		24.6	28.3		.*
Zine	Zn	07,000	IIK	720,000	LIK	720,000	1 114	25,000	11/	220	10	201		.,						
norganic Non-metallics				***			1			-	Г					1,000			1	
Asbestos (MFL)	В		-	126,000	TR	126,000	TR		\vdash		-				\vdash	75	49			
Boron		215,000	TR	28,000	TR	28,000	TR		TR	41	TR	9.7	TR	84	TR			***	200	
Cyanide (free)	CN	_	IK	84,000	T	84,000	T		110		111		110		110	370	220	***		
Fluoride	F	***	+		T	140,000	T		Н		-				\vdash		ND	8244	242	
Nitrite (as N)	NO ₂ -N		-	140,000	-		T		\vdash		+				\vdash		130			
Nitrate (as N)	NO ₃ -N	-	-	2,240,000	T	2,240,000	1		\vdash		+			***	⊢		130			
Nitrate + Nitrite (as N)	NO, +NO, -N		+	***	-	***	\vdash		\vdash		-			344	\vdash					
Phosphorous	P SiO ₂		100						-		-		\vdash		\vdash		25,600	200	***	
Silica	5,4940,5397						\vdash		Н	100	T		\vdash	100	T		<1,000	See		
Sulfide		•••	_		_	•••	_		_	100 .	1 .		1		1.					
fajor Anions			-				_				1						12,300			
Chloride	· Cl		-		-		\vdash	1220	\vdash		-			***	\vdash	-	75,300	()		
Sulfate	SO4		-		-		-	***	\vdash		+		\vdash		+		<1,000	***		
Carbonate	CO ₃	***	-		\vdash	***	+		\vdash		-						317,000	124		•
Bicarbonate	ncoi		-		_	0,500.0	-	232	_		_								7.07	
lajor Cations	0-	1 1850	1				T							-			93,600		-	
Calcium	Ca Mg		+	V	-	***	1		Н		+	-		***	-	1440	33,900		***	
Magnesium	K		-		-		+					72 F					<1,000	1,888	***	
Potassium	Na		-		-		-							5***			13,000		2.2	
Sodjum	Na Na		_		-		_		-		-	2207	1700	-2/10/	-			DO.		
Radionuclides	2000	1	1				Т	5245						(gen)	T	***		***		
Gross alpha activity (pCi/L)	***		+		-		+		+						+	***			***	
Gross beta activity (pCi/L)	5775		-		-		+		Н		-				\vdash					1.00
Radium 226+228 (pCi/L)	U	***			-	***	+		\vdash		+									(*)
Uranium (mg/L)	0	***	_	***	-		_		-		_				-			•		
Physical Properties	1,000	Total Section			T	7445	_				1		1 9		T	***	317,000			
Alkalinity (total)			+		-		+		\vdash		+				1		374,000			
Hardness Tatal England collide	TDS		-		-		+				-				+		410,000			•
Total dissolved solids			-		1	***	+		\vdash	80	T	80	T		1		<5			190
Total suspended solids	TSS (mg/L)		-		-	7,222	+		\vdash		+		Ť		1		10			
Color (color units)	***	No. of the last	-		_		-		-		-	-		20.						
Biologicals (MPN/100 ml)	1211		1		T		T		T		1	1000			T	1 1000	1600	224)		•
	***		-	235	T	576	T		1		1		1		1		21			•
Coliforms (total)	***			255	1.1	310	1.1		_	-	-		1		-					2007
E. Coli	D		1	F -	1	Mary and an artist of the second	Т				1		376		Т	-	150			
	Br		-		-		+		+				1		+		ND			

Sample Location: Apache Leap - Hidden Spring Sample ID: RESE-1001052 Sample Date: February 9, 2004

063-2565

PARAMETERS AND CONSI	TITUENTS	7				SURF.	ACE	WATER S	TAN	DARDS				Agratia -	nd			RESULTS		
		Fish		Full-bod	y	Partial-bo	dy	Agricultu	k			nd Wildlife water)		Aquatic a Wildlife (ephemer		Dissolved	Total	Total Recoverable	8 41.	
		Consump	Fraction noi	Contact	ion	Contact	Fraction	Waterin	Fraction	Acute	Fraction	Chroni	Fraction	Acute	Fraction	Results	Results	Results	Field	Use
Name	Symbol	(µg/L)	Fra	(µg/L)	Fract	(µg/L)	F	(µg/L)	Fra	(µg/L)	Fr	(µg/L)	E	(μg/L)	Ē	(µg/L)	(µg/L)	(μg/L)	Parameters	Exceed
ield	рН			6.5-9.0		4.5-9.0		6.5-9.0											8.0	
pH Temperature	°C					4.5-5.0		***				***		***		***	***		11.5	
Specific Conductance (µS/cm)	EC				7711											•••		***	485	•
Dissolved oxygen (mg/L)	DO					Ukas:				6		6							7.3	
Turbidity (NTUs)	Turb.					***								***	Ш	***	***		1.2	•
letals			_		_															
Aluminum	Al		-	***	-	560	T.D.		-		D	30	D		-	<0.5	<6.0 0.61	<0.5		
Antimony	Sb	4,300	TR	560	TR	560 420	TR	200	TR	88 360	D	190	D	440	D	0.94	<0.6	1.2		
Arsenie	As Ba	1,450	TR	50 98,000	TR D	98,000	D	200	IK	360	U	190	U		۲	22.8				
Barium Beryllium	Be	1,130	TR	2,800	TR	2,800	TR			65	D	5.3	D		Н	<0.2	< 0.2	<0.2		•
Cadmium	Cd	84.0	TR		TR	700	TR	50	TR	16.9	D	5.7	D	256	D	<0.06	< 0.06	<0.06		
Chromium (total)	Cr		1	100	TR	100	TR	1,000	TR					***		0.47		0.68	(***)	•
Cobalt	Co					***							14				<0.7		***	•
Copper	Cu		TAKE	1,300	TR	1,300	TR	500	TR	44.6	D	26.6	D	77	D	<2.1	<2.1	<2.1		•
Iron	Fe													222			28.3		***	- :
Lead	Pb			15	TR	15	TR	100	TR	249.8	D	9.7	D	527	D	<1.0	<1.0	<1.0		
Manganese	Mn	0.00	-	196,000	TR	196,000	TR	10	TD	2.4	D		D	5	D	<0.2	<0,2	3.4		
Mercury	Hg	0.60	TR		TR	420	TR	10	TR	2.4	D	(0,0)-;	10		۳		11.3		7.22	
Molybdenum	Mo	4,600	TD	28,000	TR	28,000	TR	***	-	1,374	D	153	D	12,203	D	2.1	11.3	<1.3		
Nickel	Ni Se	9,000	TR		TR	7,000	TR	50	TR	20	TR	2	TR	33	TR	***	<0.8	<0.8		
Selenium	Ag	107,700	TR		TR	7,000	TR		1	31	D			31	D	<0.1	<0.1	<0.1		
Silver Thallium	TI	7.20	TR		TR	112	TR			700	D	150	D		Ē	<0.4	0.4			*
Zine	Zn	69,000	TR		TR		TR	25,000	TR	344	D	347	D	3,269	D	5.6	6.6	6.9		
norganic Non-metallics																				
Asbestos (MFL)	(2000)										3			***		344	***		•••	*
Boron	В	***		126,000	TR		TR			***							29			
Cyanide (free)	CN	215,000	TR		TR	28,000	TR	200	TR	41	TR	9.7	TR	84	TR		***			
Fluoride	F	***		84,000	T	84,000	T		-		_				-	222	213			- :
Nitrite (as N)	NO ₂ -N	***		140,000	T	140,000	T		+		-				\vdash		ND 700			
Nitrate (as N)	NO; N		-	2,240,000	T	2,240,000	T		+		-	- III	-		\vdash		700	***	***	
Nitrate + Nitrite (as N)	NO ₂ +NO ₃ -N		-		BUY		\vdash		-									***		
Phosphorous Silica	SiO ₂		+		+		┢		+				1	***	\vdash		24,700	(***		
Sulfide			-					***	1	100	T			100	Т		. :<1,000		***	
Major Anions			-		-	-			**		-									
Chloride	CI		TH		T		П				T						12,300	1444	***	
Sulfate	SO4			•••				***						***			79,600			
Carbonate	CO ₃							222				***			L		<1,000	1977	575	
Bicarbonate	HCO ₃			***		222	丄						-				305,000			
Major Cations							_				_		1		_		85,600		T	
Calcium	Ca		-		-		-		+		+		+		+		34,200			
Magnesium	Mg		-		-		\vdash	***	+		+		-		1		502			
Potassium	K Na		-		-		\vdash		\vdash						+		13,200		***	
Sodium	Na		_		100		_		-						_					100
Radionuclides Gross alpha activity (pCi/L)			T				Т		T		T			***			***			
Gross beta activity (pCi/L)	***						\top			-										
Radium 226+228 (pCi/L)	222																			
Uranium (mg/L)	U					•••				***			1 3					***		
Physical Properties	No.					(a)							_		_					
Alkalinity (total)				y										***		37773	305,000			:
Hardness		-	-		-		L		\vdash		+	-	-		-		357,000 413,000			- :
Total dissolved solids	TDS				-		+		+	80	T	80	T		+		<5			
Total suspended solids	TSS (mg/L)		-		-		+		+		+ '		1		+		ND			
Color (color units)			_	***	_		_	- 555	_	***	_	-	1		1					
Goliforms (total)	T			T	T		T		T	***	T				T	***	110			
Coliforms (total) E. Coli			+	235	Т		Т		+				1				ND			
Additions or Changes (mg/L)	1	-		1 400				de Communication	-											
	Br	T	1				1				I						169	***		
Bromide			_								-	***				***	ND	***	***	

Sample Location: Apache Leap - Hidden Spring Sample ID: RESE-1001082 Sample Date: May 24, 2004

	TITUENTS					SURF	I	WATER S	IAN		-			Aquatic a	nd	I		RESULTS		
		Fish Consumpt	ion	Full-bod Contact		Partial-bo		Agricultu Livestoc Waterin	k		arm	nd Wildlife water) Chroni		Wildlife (ephemer Acute	al)	Dissolved Results	Total Results	Total Recoverable Results		
Name	Symbol	(µg/L)	Fraction	(µg/L)	Fraction	(µg/L)	Fraction	(µg/L)	Fraction	(µg/L)	Fraction	(µg/L)	Fraction	(µg/L)	Fraction	(µg/L)	(µg/L)	(µg/L)	Field Parameters	Use Excee
ield	pH			6.5-9.0		4.5-9.0		6.5-9.0							П		***		7.4	
pH Temperature	°C			0,3-9,0		4,3*9.0	Н	0.5-5.0	П			30					•••		17.6	
Specific Conductance (µS/cm)	EC					222					1/2						2000		716	•
Dissolved oxygen (mg/L)	DO		12					•••		6		6					•••		18	•
Turbidity (NTUs)	Turb.			***		***	Ш	***	Ш	***					Ш	***			0.99	
letals	Al				П							7 La F					66		222	•
Aluminum Antimony	Sb	4.300	TR	560	TR	560	TR		Н	88	D	30	D		\vdash	<3.0	<3.0	<3.0		
Arsenic	As	1,450	TR	50	TR	420	TR	200	TR	360	D	190	D	440.0	D	<3.0	<3.0	<3.0		•
Barium	Ba			98,000	D	98,000	D	***	Ш							26.5			222	•
Beryllium	Be	1,130	TR	2,800	TR	2,800	TR		TD	65	D	5.3	D	263.0	D	<2.0 <0.1	<0.1	<2.0 <0.1		•
Cadmium Chromium (total)	Cd Cr	84.0	TR	700 100	TR	700 100	TR	1,000	TR	17.4	U	5.8	υ	203.0	U	<6.0	-0.1	<6.0		
Cobalt	Co				111	***	1		1					***		***	<6.0	***		
Copper	Cu			1,300	TR	1,300	TR	500	TR	45.6	D	27.1	D	79.0	D	<3,0	<3.0	<3.0		
Iron	Fe) - See-		***		***									-		65			:
Lead	Pb			15 196,000	TR	15 196,000	TR	100	TR	256.3	D	10.0	D	541.0	D	<3.0	<3.0	<3.0 14.9		- :
Manganese Mercury	Mn Hg	0.60	TR	420	TR	420	TR	10	TR	2.4	D	0.01	D	5,00	D	<0,2	<0.2			
Molybdenum	Mo	0.00	1	420	1		1		۳		-						13.5			
Nickel	Ni	4,600	TR	28,000	TR	28,000	TR	***		1,403	D	156	D	12,463.1	D	<10		<10	222	
Selenium	Se	9,000	TR	7,000	TR	7,000	TR	50	TR	20	TR	2	TR	33.0	TR		<3,0	<3.0		
Silver	Ag	107,700	TR	7,000	TR	7,000	TR		\vdash	32	D	150	B	32.1	D	<0.1	<0.1	<0.1		
Thallium	T1 Zn	7.20 69,000	TR	112 420,000	TR	112 420,000	TR	25,000	TR	700 352	D	150 355	D	3,338.4	D	<2.0 9.6	<2.0 7.9	8.6		•
Zinc norganic Non-metallics	L Zn	09,000	IIK	420,000	IIK	420,000	LIK	25,000	LIK	332	10	333	10	2,230,4		7,0				
Asbestos (MFL)		***			100			***		1 =		***		3550		9***	< 0.7			
Boron	В	***		126,000	TR		TR							1444			<40			<u>:</u>
Cyanide (free)	CN	215,000	TR	28,000	TR		TR	200	TR	41	TR	9.7	TR	84	TR		<10			· ·
Fluoride	F NO,-N			84,000 140,000	T	84,000 140,000	T		Н		-				-	***	240 ND			
Nitrite (as N) Nitrate (as N)	NO ₂ -N			2,240,000	T	2,240,000	T		Н		-		1				0.78		122	•
Nitrate + Nitrite (as N)	NO, +NO, -N		1		Ì		Ė							•••			0.78		***	•
Phosphorous	P												8				***			•
Silica	SiO ₂					***					7			100	т		23,700			
Sulfide			100						_	100	T	***		100	T		×1,000	1		- 2
Major Anions Chloride	CI		П		T		П								Г		11,800			
Sulfate	SO4																75,900	7444		•
Carbonate	CO ₃			•••		***					11	1.0		1577.0		•••	<1,000			:
Bicarbonate	HCO ₃					(200)				***				***			331,000	***		
Major Cations	T 6:		1			***		P						***	Т		90,700			
Calcium Magnesium	Ca Mg		-		+		1		+		18			***			33,900			•
Potassium	K																<1,000	720		
Sodium	Na	1 2017	108			•••				***				***			12,700		***	
Radionuclides			_								-				1		0.45	1 7800	8.0	
Gross alpha activity (pCi/L)			-		-		-		-		-						0.65 2.95	***		
Gross beta activity (pCi/L) Radium 226+228 (pCi/L)							1				1						0.78			
Uranium (mg/L)	U		1						1					***			0.0007			
Physical Properties						7														
Alkalinity (total)					1						-			•••	-	***	331,000	22.		•
Hardness Total discolved calids	TDS		-		-		-		H		-	***		***	⊢		366,000 427,000			- :
Total dissolved solids Total suspended solids	TDS TSS (mg/L)		+		-	***	1		+	80	T	80	T		1		<5			
Color (color units)	(mg L)						1				1						ND	***	***	*
Biologicals (MPN/100 ml)					_		_		_		$\overline{}$		Ξ		$\overline{}$		y		-	
Coliforms (total)	•••							***	\perp	10	-	***		***	-		900			FBC & F
E. Coli				235	T	576	T	***	Ш		1	***			1_		900		***	rac & l
Additions or Changes (mg/L)	Br		1		T	I	Т				100	/n/		2000	T		140			
Bromide	PO ₄		-		1		1		+		-				1		< 0.10			

Sample Location: Apache Leap - Hidden Spring Sample ID: RESE-1001097 Sample Date: August 4, 2004

	FITUENTS				T		T	WATER ST			atio -	nd Wildlife	T	Aquatic a Wildlife				Total		
		Fish		Full-body		Partial-bod	ly	Agricultu	k	(warm	water) Chronic		(ephemer	al)	Dissolved Results	Total Results	Recoverable Results		
		Consump	Fraction uoi	Contact	netion	Contact	Fraction	Waterin	netion	Acut	Fraction	E	ction	Acute	raction				Field	
Name	Symbol	(µg/L)	E.	(µg/L)	Frie	(µg/L)	i.	(µg/L)	Ġ.	(µg/L)	Ġ.	(µg/L)	Fra	(µg/L)	Œ.	(µg/L)	(µg/L)	(µg/L)	Parameters	Use Exceeded
pH pH	pH			6.5-9.0	T	4.5-9.0		6.5-9.0	П	M				62					7.8	
Temperature	°C					•••			П			-							23.3	
Specific Conductance (µS/cm)	EC	***					Н	•••				***							342	A&Ww Acute and Chr
Dissolved oxygen (mg/L)	DO				-		Н		H	- 6	-	6			\vdash				5.2	Accww Acute and Chi
Turbidity (NTUs)	T	***			_		ш		ш		-		_		_				274	
Aluminum	Al			S	1		П	***	П			7/15					59			
Antimony	Sb	4,300	TR	560	TR		TR			88	D	30	D			<3.0	<3.0	<3.0		•
Arsenie	As	1,450	TR		TR		TR	200	TR	360	D	190	D	440	D	<3.0	<3.0	<3.0	***	
Barium	Ba				D		D		\vdash		-		В		-	27.8	<2.0	<2.0		
Beryllium	Be	1,130	TR		TR		TR	50	TR	65	D	5.30	D	271	D	<2.0 <0.1	<0.1	<0.1		
Cadmium	Cd Cr	84	TR		TR TR		TR TR	1,000	TR	18	10	3.93	D	2/1	D	<6.0		<6.0		•
Chromium (total) Cobalt	Co		+		114	100	1K	1,000	118						+		<6.0			•
Copper	Cu				TR		TR	500	TR	47	D	28	D	81	D	<3.0	<3.0	3.4		•
Iron	Fe					***											475		142	•
Lead	Pb			15	TR		TR	100	TR	264	D	10	D	556	D	<3.0	<3.0	<3.0		•
Manganese	Mn				TR		TR								+			49.50	525	
Mercury	Hg	0.60	TR		TR	420	TR	10	TR	2.40	D	0.01	D	5	D		<0.2			
Molybdenum	Mo	1.000	-	20,000	777	30,000	1		\vdash	1.126	D	159	D	12,751	D	<10	11.3	<10		
Nickel	Ni Sa	4,600	TR		TR	7,000	TR TR	50	TR	1,436	TR	2.00	TR	33	TR		<3.0	· · · · <3.0 · · · ·		
Sclenium	Se Ao	9,000	TR		TR	7,000	TR		110	34	D	2.00.	114	34	D		<0.1	<0.1		
Silver Thallium	Ag Tl	7.20	TR		TR	112	TR		H	700	D	150	D	34	10	<2.0	<2.0			
Zine	Zn	69,000	TR		TR		TR	25,000	TR	360	D		D	3,416	D		5.4	<5.0		₹•\\
organic Nonmetalics		031000	1																	35
Asbestos (MFL)								***		- 22	2/10	-						***	***	•
Boron	В				TR		TR		\sqcup		1			222	_		<40			•
Cynanide (free)	CN	215,000	TR	28,000	TR		TR	200	TR	41	TR	9.7	TR	84	TR		220			
Fluoride	F			84,000	T	84,000 140,000	T	***	\vdash				Н		╁		ND			
Nitrite (as N)	NO, N			140,000 2,240,000	T	2,240,000	T		Н		+				+		ND			
Nitrate (as N) Nitrate + Nitrite (as N)	NO, +NO, -N			2,240,000	1	2,240,000	1		\vdash				H	***	+		ND			
Phosphorous	P					***	Н	***	\vdash				Н		1			***		
Silica	SiO ₂			·				***								-	25,100	223		
Sulfide								***		. 100	· T			100	. T		<1000	-	***	
lajor Anions											_		_							
Chloride	CI						Ш		\vdash		-				+	==_	12,200	- 500		
Sulfate	SO ₄					1	\Box	***						1000	1		76,200	-		
Carbonate	CO ₃			F/=-			Ш	***			+		Н		+		<1000			
Bicarbonate	HCO ₃			***		***	Ш	***	ш	***			Ш	•	<u> </u>		359,000			
lajor Cations	C		100						1	- 24	1			***	_		91,600			
Calcium Magnesium	Ca Mg		-										\Box	***	1		35,800	100		•
Potassium	K				П	***	Н		П	***							1,000	***		1.0
Sodium	Na							-						***			13,800			[4 €]
adionuclides											1000									
Gross alpha activity (pCi/L)						***	\sqcup					•••			_	***		***		
Gross beta activity (pCi/L)	***	***		***		3555			\vdash										- 222	
Radium 226+228 (pCi/L)			-		Ш	(2000)	\square		\vdash	-				***	+					
Uranium (mg/L)	U		_			***	ш								+					
hysical Properties Alkalinity (total)	T		T							-		JII/		S	1		359,000			•
Hardness		***	-			***	\vdash								1		376,000		100	10.00
Total dissolved solids	TDS		1				П	***						8555			435,000			
Total suspended solids	TSS (mg/L)						П			80	T	80	T	(244)			<5		277	
Color (color units)														***		_	19			
liologicals (MPN/100ml)			_				, ,								-					
Coliforms (total)		***	-				L	***			-				+		1,600			FBC and PBC
E. Coli dditions or Changes			_	235	T	376	1		_	***				(344))	_	_	1,600		-	1 DC and 1 DC
	Br		T	- SA							T	I		-	Т	1	140			
Bromide	PO ₄		-		-	***	Н				-				+		ND			(*)

063-2565 June 2006

> Sample Location: Sample ID: Sample Date: Flow Rate (gpm):

Apache Leap: Hidden Spring RESE-1001162 11/3/2004 drip

	tuents	L agree		11.03		S	urfac	e Water S	Stand	ards							- William - T	Results		
		Fish Consump	tion	Full-bo		Partial-b		Agricult Livesto	ck		itic an varm v	d Wildlife water)		Aquatic Wildli (epheme	fe					
Name	Units							Wateri		Acut		Chron		Acute		Dissolved Results	Total Results	Total Recoverable Results	Field Parameters	Use Exceeded
		Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction					
ield												(500		6500	_				7.4	
pH	S.U.			6.5-9.0	•••	6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		***			16	***
Temperature	°C μS/cm																	144	694	144
Specific Conductance Dissolved Oxygen	mg/L					***		***		6		6							0.56	A&WwwA & A&Ww
Turbidity	NTUs			7		444		***					,						1.4	7222
letals			-		_														,	
Aluminum	με∕L											***					28		-226	1444
Antimony	με∕L	4,300	TR	560	TR	560	TR			88	D	30	D		-	<3	<3	<3		
Arsenic	μg/L	1,450	TR	50	TR	420	TR	200	TR	360	D	190	D	440	D	<3 27	<3	<3 		
Barium	µg/L	1.120	770	98,000	D TR	98,000 2,800	D		***	65	D	5.3	D			<2	<2	<2		
Beryllium	µg/L	1,130	TR	2,800 700	TR	700	TR TR	50	TR	16.6	D	5.7	D	251.4	D	<0.1	<0.1	<0.1	12221	
Cadmium Chromium (total)	μg/L μg/L		111	100	TR	100	TR	1,000	TR					***		<6		<6	***	
Cobalt	μg/L μg/L		1											7222		***	<6	***	(***)	
Copper	μg/L	***	1	1,300	TR	1,300	TR	500	TR	43.9	D	26.2	D	75.9	D	<3	<3	⊲		
Iron	μg/L									****							134			
Lead	µg/L			15	TR	15	TR	100	TR	245.5	D	9.6	D	518.1	D	<3	<3	<3		***
Manganese	µg/L			196,000	TR	196,000	TR											36	***	
Mercury	μg/L	0.6	TR	420	TR	420	TR	10	TR	2.4	D	· 0.01	D	5.00	D	<0.2	<0.2		14443	
Molybdenum	µg/L							***				150		12 020 6			13	 <10		2.2
Nickel	μg/L	4,600	TR	28,000	TR	28,000	TR			1,355	D	150	D	12,029.6		<10	<3	<10 ······<3······		
Selenium	μg/L ·····	9,000	TR	7,000	TR	7,000	TR	50	TR	20.0	TR D	2.6	TR	33.0 29.9	TR	<0.1	<0.1	<0.1		
Silver Thallium	µg/L	7.2	TR	7,000	TR	7,000 112	TR TR			700	D	150	D	29.9	1	<2	<2			
Zinc	μg/L μg/L	69,000	TR	420,000	TR	420,000	TR	25,000	TR	340	D	342	D	3,222.1	D	<5	7.1	7.8		
norganic Non-metallics	ppr	07,000	1.1.5	120,000	1	120,000	111	20,000	1.22		1			-	10000					
Asbestos	MFL.		Ī		T											222		92025	2000	
Boron	μg/l.			126,000	TR	126,000	TR			***						-	43	722		
Bromide	μg/L					***								****		-	130			
Cyanide (free)	μg/L.	215,000	TR	28,000	TR	28,000	TR	200	TR	41	TR	9.7	TR	84	TR			***	***	•••
Fluoride	μg/L.	***		84,000	T	84,000	T							***			200	***	***	•••
Nitrite (as N)	μgЛ.	***		140,000	T	140,000	T		****	•••							<100	***		500
Nitrate (as N)	μgЛ.			2,240,000	T	2,240,000	T	***						•••		1755	190	***		
Nitrate + Nitrite (as N)	μg/l.													***			<200 <500	***		
Orthophosphate	µg/L													***			27,300			
Silica Sulfide	μg/L μg/L									100	- T			100.	T		· · · <1009· · · ·			
Jajor Anions	her					100000	10000	5708			1.1		220							
Chloride	μg/L		I							7				***			11,200	444		***
Sulfate	µg/L					2000				111				1,7775		222	74,500		322	944
Carbonate (as CaCO ₃)	μg/L					1000				-		***				2000	<1000			
Bicarbonate (as CaCO ₃)	µg/L			***		***		***		***			***	(000)			346,000			
lajor Cations									_				_		_					
Calcium	μg/L			•••	-	STATE (322	***								84,600	***	1222	222
Magnesium	μεЛ			***				***				***		1999		2000	33,900			
Potassium	µg/L			***					***					***		***	<1000 13,100			***
Sodium Desired Beneattes	µg/L				1		1								1	5000	15,100	-		350
Physical Properties Alkalinity (total as CaCO ₃)	пед		1	2	T	***		***	1		[I		I		T		346,000			
	µg/L				-	***			-		1		-	***		***	351	(***		***
Hardness Total Dissolved Solids	mg/L µg/L		1		-		1		Ē				-		1	•••	420,000	See.	***	
Total Suspended Solids	mg/L					***				80	T	80	T				<5	Parel		***
Color	color units					***		1000						5000			<i< td=""><td>7222</td><td>2444</td><td>3.4</td></i<>	7222	2444	3.4
Biologicals											- 11.160									
	MPN/100 ml									202							900	i eee		1000
Coliforms (total)	MPN/100 ml	***		235		576	1	***		***			9555	***	1	***	110		***	3444

Apache Leap: Hidden Spring RESE-1001187 2/9/2005 drips

Name				Paul		Dani'al 1	Ţ	Agriculti	ural			d Wildlife		Aquatic a	e	1			1 1-4	
Name	II-t-	Fish Consumpt	tion	Full-boo		Partial-be Contac		Livesto Wateri	ck	Acute	varm v	Chroni	e	(ephemei		Dissolved	Total Results	Total Recoverable	Field	Use Exceeded
	Units	fundard	Fraction	tandard	raction	tandard	raction	tandard	raction	standard	raction	Standard	Fraction	Standard	Fraction	Results		Results	Parameters	
eld		- 0	1 25 1	0	<u> </u>		14	92			1 24.1									
рН	s.u.			6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0			•••	***	7.5	
Temperature	°C	•••				***				***		***			***	***	•••	***	15 709	
Specific Conductance	μS/cm			***						***									5.6	A&WwwA & A&Wv
Dissolved Oxygen	mg/L	•••				***				6								***	4.1	
Turbidity	NTUs	***								10000	1	113525		110.00						
Aluminum	μg/L		I I								1			***			<30		***	
Antimony	με/L	4,300	TR	560	TR	560	TR			88	D	30	D	***		<3	<3	<3	***	***
Arsenic	μg/L	1,450	TR	50	TR	420	TR	200	TR	360	D	190	D	440	D	<3	<3	<3	***	
Barium	μg/L			98,000	D	98,000	D					02/22	***	***		23				
Beryllium	μg/L	1,130	TR	2,800	TR	2.800	TR			65	D	5.3	D			<2	<2	<2	•••	
Cadmium	μg/L	84	TR	700	TR	700	TR	50	TR	16.4	D	5.6	D	249	D	<0.2	<0.2	<0.2		322
Chromium (total)	µg/L	•••		100	TR	100	TR	1,000	TR	***				***		<6		<6		
Cobalt	µg/L							***		***		***				-10	<6	<10	***	
Copper	µg/L			1,300	TR	1,300	TR	500	TR	43.5	D	26.0	D	75	D	<10	<10 <60	<10		
Iron	µg/L	***			777	1.5		100	TD	212.2	F	9.5	D	514	D	<3	<3	<3		
Lead	μg/L			15	TR	15	TR	100	TR	243.3	D	9.3	D	514	"			4		
Manganese	μg/1.	0.6		196,000	TR	196,000	TR	10	TR	2.4	D	·:-b.b(·:-	D	5.0	D	···<0.2···	<0.2		***	
Mercury	μg/L	0.6	TR	420	TR	420	TR	10	ıĸ	2.4	10			5.0	-		<8	1244	***	***
Molybdenum	μg/L.	4.600	TR	28,000	TR	28,000	TR			1,345	D	149	D	11,943	D	<10		<10		200
Nickel	μgЛ.	4,600 9,000	TR	7,000	TR	7,000	TR	50	TR	20.0	TR	2.0	TR	33	TR		<3	· · · · · · · · · · · · · · · · · · ·		
Selenium Silver	μg/L μg/L	107,700	TR	7,000	TR	7,000	TR			29	D	2.0		29	D	<0.1	<0.1	<0.1		
Thallium	μg/L	7.2	TR	112	TR	112	TR			700	D	150	D			<2	<2			***
Zine	µg/L	69,000	TR	420,000	TR		TR	25,000	TR	337	D	340	D	3,199	D	<10	<10	11		***
organic Non-metallics											0.000									
Asbestos	MFL		1					===		***		***		***		***	***	***		
Boron	μg/L	***		126,000	TR	126,000	TR							222			<40		222	***
Bromide	μg/L	***				•••											179	242		3443
Cyanide (free)	μg/L.	215,000	TR	28,000	TR	28,000	TR	200	TR	41	TR	9.7	TR	84	TR	•••		***		
Fluoride	μg/L	***		84,000	T	84,000	T							222			254	***		***
Nitrite (as N)	μg/L			140,000	T	140,000	T									****	<100	144		
Nitrate (as N)	µg/L	***		2,240,000	T	2,240,000	T					***					1,300			
Nitrate + Nitrite (as N)	µg/L	12.2				***		***		***				***		***	1,300 <500			***
Orthophosphate	µg/L					***				***							24,300			***
Silica	µg/L					/***		***		100.	- T			100	T		<1000	111		***
Sulfide ajor Anions	µg/L		-		-	1000		20000	120		-	- 1000	-		1					The second second second
Chloride	μg/L		T		T							7 200		***		2000	11,600	***	***	***
Sulfate	µg/L				1					11.22						1922	74,300		***	***
Carbonate (as CaCO ₃)	µg/L					***		***		1000						722	<1000		***	***
Bicarbonate (as CaCO ₃)	μg/L	***				***		***		***		***					292,000	122		5444
lajor Cations															_					
Calcium	µg/L																86,700			***
Magnesium	μg/L					222						***					32,000	200		(***)
Potassium	μg/L					***	***	***		***				***		***	<500			122
Sodium	μg/L									***			***		1	***	12,300			
hysical Properties					_		_		_		_	_					292,000	1000	T	
Alkalinity (total as CaCO ₃)	μg/L	177						••••		***										
Hardness	mg/L					244		***		***			***	***		***	348 431,000			
Total Dissolved Solids	μg/L				-		1				T	80	T		-		431,000 <5		***	***
Total Suspended Solids	mg/L							***		80	1	80	1				<1			(444)
Color	color units	***	1		1		1		1				1	-	-			1115		
iologicals	MPN/100 ml	I Kur	Test	1 22		T	1	(444)	122		1	3466.5	T	***			70			A
Coliforms (total)	MPN/100 ml	***	1	235		576	1		1	***						***	<2	***		***

063-2565 June 2006

> Sample Location: Sample ID: Sample Date: Flow Rate (gpm):

Apache Leap: Hidden Spring RESE-1001202 5/3/2005 1

Parameters and Const	ituents			1,18		S	urfa	ce Water S	Stan	dards						Offia.		Results	2 LD1 8	
Name	Units	Fish Consump	tion	Full-bo Contac		Partial-b Contac		Agricultu Livesto Wateri	ck		arm	nd Wildlife water) Chroni	في	Aquatic Wildling (epheme) Acute	fe ral)	Dissolved Results	Total Results	Total Recoverable Results	Field Parameters	Use Exceeded
		Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	ICSUIIS		Results	Tarunkers	
Field																				
pH	S.U.			6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0				950	7.3	***
Temperature	°C	***				•••			•••					***		***	***		22	•
Specific Conductance	μS/cm	***								***				•••				444	628 7.7	(444)
Dissolved Oxygen Turbidity	mg/L NTUs									6		6							0.98	
Metals	NIUS						•				1		-						0.20	
Aluminum	μg/L		1								I	I			T		<30			***
Antimony	μg/L	4,300	TR		TR	560	TR			88	D	30	D			<3	<3	<3		
Arsenic	μg/L	1,450	TR		TR	420	TR	200	TR	360	D	190	D	440	D	<3	<3	<3	***	***
Barium	μg/L			98,000	D	98,000	D					***				22		200	***	NAMES
Beryllium	μg/L	1,130	TR	2,800	TR	2,800	TR			65	D	5.3	D			<2	<2	<2		
Cadmium	µg/L	84	TR	700	TR	700	TR	50	TR	16.3	D	5.6	D	247	D	<0.2	<0.2	<0,2	***	***
Chromium (total)	μg/L			100	TR	100	TR	1,000	TR							<6		<6	***	***
Cobalt	μg/L	***										777				***	<6			
Copper	µg/L	***		1,300	TR	1,300	TR	500	TR	43.2	D	25,8	D	75	D	<10	<10	<10		2000
Iron	μg/L							***						500			<60	24		
Lead	µg/L			15	TR	15	TR	100	TR	241.2	D	9.4	D	509	D	<3	<3	্ব		***
Manganese	µg/L		TR	196,000	TR	196,000 420	TR	10	TR	2.4	D	0.01	D	5.0	D	<0.2	<0.2			
Mercury	μg/L	0.6	IR	420	IK	420	IR		IR	2.4	D		D	3.0	D		8.2			
Molybdenum Nickel	μg/L μg/L	4,600	TR	28,000	TR	28,000	TR			1,335	D	148	D	11,855	D	<10		<10	***	
Selenium	μg/L μg/L	9,000	TR	7,000	TR	7,000	TR		TR	20.0	TR		TR	33	TR		<3	⊲		(***)
Silver	µg/L	107,700	TR	7,000	TR	7,000	TR			29	D			29	D	<0.1	<0.1	<0.1		
Thallium	μg/L	7.2	TR	112	TR	112	TR			700	D	150	D			<2	<2		***	
Zinc	μg/L	69,000	TR	420,000	TR	420,000	TR	25,000	TR	335	D	337	D	3,175	D	<10	<10	<10	(***)	***
Inorganic Non-metallics											_									
Asbestos	MFL	***																	(***)	***
Boron	μg/L	-		126,000	TR	126,000	TR										<40	2.2		
Bromide	μg/L	***										-77					156			
Cyanide (free)	μg/L	215,000	TR	28,000	TR	28,000	TR		TR	41	TR		TR	84	TR		234	***		
Fluoride	µg/L			84,000	T	84,000	T										<100	44		
Nitrite (as N)	µg/L		-	140,000 2,240,000	T	140,000	T										1,800			
Nitrate (as N) Nitrate + Nitrite (as N)	µg/L			2,240,000	1	2,240,000	1										1,800			***
Orthophosphate	μg/L μg/L		1														<500			
Silica	µg/L µg/L		1														24,300			
Sulfide	µg/L					122				. 100	Т			····100 ··	Т	(444)	<1000	***		***
Major Anions		14247			_		_		_		_									
Chloride	µg/L			***					***	***						***	10,900	***		***
Sulfate	μg/L															1	69,700			
Carbonate (as CaCO ₃)	μg/L					577						***					<1000			***
Bicarbonate (as CaCO ₃)	μg/L	***						***					***	***		***	278,000			•••
Major Cations		Ton Marie	_		_		_		_	_					_		00.000	300	1 19000 1	Aver
Calcium	μg/L	***															88,000			***
Magnesium	µg/L				***			***									30,400 <500			***
Potassium Sodium	μg/L ug/I																12,000			
Physical Properties	μg/L						1				-		1000				12,000			
Alkalinity (total as CaCO ₁)	μg/L		1		Ī		T										278,000	***		***
Hardness	mg/L																345			
Total Dissolved Solids	µg/L												-				389,000			-
Total Suspended Solids	mg/L								-	80	Т	80	Т				<5	***	***	
Color	color units																<1			
Biologicals																12-11-				
Coliforms (total)	MPN/100 ml		ļ																	(4-4)
E. Coli	MPN/100 ml			235		576											122			

E. Coli | MENCHOUND |
Notes:

Green cell color indicates ADEQ designated uses that are assumed to apply to site location.

s.u. = standard units

"C = degrees Celetius

µSCm = microSiemens per centimeter

mg/L = milligrams per liter

NTUs = Nephelementic Turbidity Units

µg/L = micrograms per liter

MTL = Millior Fibers per Liter

ml = milliditers

MRL = Million Fibers per Liter

ml = millititers

MFN/100 ml = most probable number per 100 millititer

--- = not applicable

T = total

TR = total recoverable

D = dissolved

ND = not detected

* = No designated uses exceeded

* = No designated uses exceeded

* = No designated uses exceeded

* = No designated uses exceeded

Arizona state Dissolved Oxygen standards correspond to minima, therefore values less than the requirements are highlighted.

Arizona state pH standards correspond to ranges, therefore values outside of the requirements are highlighted.

063-2565 June 2006

Sample Location: Sample ID: Sample Date: Flow Rate (gpm):

Apache Leap: Hidden Spring RESE-1001220 8/3/2005 2

Parameters and Constit	uents					S	urfac	e Water S	tanc	lards								Results		
Tarankers and Coast		Fish		Full-boo		Partial-b	ody	Agricultu Livestos	ral k	Aqua		d Wildlife water)		Aquatic a Wildlife (ephemer	2			7 14 15		
Name	Units	Consumpt	ion	Contac	T .	Contac		Waterin	g	Acute		Chroni	ie	Acute		Dissolved Results	Total Results	Total Recoverable Results	Field Parameters	Use Exceeded
		Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction					
Field							and Silver B.						-							
pH	s.u.			6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0	***	6.5-9.0					7.1	
Temperature	°C	•••				***		***	***	***		***		***			***		663	
Specific Conductance	μS/cm		***			222		***	***					***		•••	***		003	A&WwwA & A&WwwC
Dissolved Oxygen	mg/L	****								6		6							0.56	Account to the time
Turbidity	NTUs	***		***	***	•••					-500	27.0								
Metals		ADDITION OF			500			13025									<30			
Aluminum	μg/L	4,300	TR	560	TR	560	TR	***		88	D	30	D			<3	<3	<3	lese4	(mm)
Antimony Arsenic	µgЛ. µgЛ.	1,450	TR	50	TR	420	TR	200	TR	360	D	190	D	440	D	<3	<3	ব		
	μg/1. μg/1.	1,430		98,000	D	98,000	D			***						24	•••		- 222	2
Barium Bervllium	μg/l.	1,130	TR	2.800	TR	2,800	TR			65	D	5.3	D			<2	<2	<2		- 22
Cadmium	μg/L	84	TR	700	TR	700	TR	50	TR	16.4	D	5.6	D	249	D	<0.2	<0.1	<0.2		***
Chromium (total)	µg/L			100	TR	100	TR	1,000	TR	•••						<6	500	<6	244	***
Cobalt	με∕1.	U				***				***				***		777	<6			
Copper	µg/L			1,300	TR	1,300	TR	500	TR	43.5	D	26.0	D	75	D	<10	<10	<10		
Iron	μg/L																<60		***	***
Lead	µg/L	***		15	TR	15	TR	100	TR	243.3	D	9.5	D	514	D	<3	<3	<3	334	***
Manganese	μg/L			196,000	TR	196,000	TR							***	•••			<4		
Mercury	μg/L	0.6	TR	420	TR	420	TR	10	TR	2.4	D	0.01	D	5.0	D	<0.2	<0.2			
Molybdenum	µg/L							***		***					***		<8		***	
Nickel	µg/L	4,600	TR	28,000	TR	28,000	TR			1,345	D	149	D	11,943	D	<10	<3	<10		
Selenium	µg/L	9,000	TR	7,000	TR	7,000	TR	50	TR	20.0	TR	2.0	TR	33	TR	-0.1		<0.1		
Silver	μg/L	107,700	TR	7,000	TR	7,000	TR			29	D	150	D	29	D	<0.1	<0.1			
Thallium	µg/L	7,2	TR	112	TR	112	TR	25,000	TR	700 337	D	150 340	D	3,199	D	<10	<10	<10		
Zine	μg/L	69,000	TR	420,000	TR	420,000	TR	25,000	IK	331	D	340	D	3,177	D	~10	110	-10	-	
Inorganic Non-metallics	1 000	-	1		THE REAL PROPERTY.		20%				1581	***	100							
Asbestos	MFL			126,000	TR	126,000	TR						-				<40	***	***	
Boron	µg/L			126,000	IK	120,000	IK				1		-				150	(444)		***
Bromide	µg/L	215,000	TR	28,000	TR	28,000	TR	200	TR	41	TR	9.7	TR	84	TR				Tuest	***
Cyanide (free)	µg/L	213,000	IIN	84,000	T	84,000	T							***			208			200
Fluoride Nitrite (as N)	μg/L μg/L			140,000	T	140,000	Ť	1		10.022							<100	1993		***
Nitrate (as N)	µg/L		-	2,240,000	T	2,240,000	Ť										1,300	1990	***	***
Nitrate + Nitrite (as N)	µg/L									***							1,300	122.5		***
Orthophosphate	μg/L	***			***	***				***				***			<500			
Silica	µg/L									1000				1940		500	25,300		2***	
Sulfide	µg∕1.							- 50		100	T			-100	T	122	≺1000	•••	•••	***
Major Anions			100						_		_				_		10,000			
Chloride	μgЛ.	***								/***		***		(***)		***	10,900			
Sulfate	μgЛ.	775			-			- 4.0	-								65,800 <1000	***		***
Carbonate (as CaCO ₃)	μg/1.	777															289,000			
Bicarbonate (as CaCO ₃)	με∕L	•••		***							1				1		207,000			
Major Cations			_		_	T 2000	0.00	1	_		T		130	10000	1		88,800			
Calcium	μg/l.	-				***	***				1		1		1		30,700			
Magnesium	µg/l.		***	***		***							1		1		<500	1600		2.2
Potassium	µg/L	***													1		11,700			***
Sodium Physical Proporties	μg/L		1	-	1		1		-	-			-							The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s
Physical Properties Alkalinity (total as CaCO ₃)	µgЛ.		T			T	T			***	1		T		1		289,000	()#(#)	***	***
Hardness	mg/L		1				1								1		348	1939	19512	1444
Total Dissolved Solids	mg/L µg/L		1		1				1		1		1		1		412,000			
Total Suspended Solids	mg/L	***	1		1					80	T	80	T	***	1		<5	***		
Color	color units										1						<1	1944	***	-
Biologicals	20101 01310		-		-		_		_											
Coliforms (total)	MPN/100 ml		T	10000				544	T		1						1,600			FBC

KANE SPRING

Sample Location: Kane Spring Sample ID: RESE-1001002 Sample Date: May 15, 2003

							T	Agricultur			tic an	d Wildlife	T	Aquatic ar Wildlife		THE ST		Total		
		Fish Consumpt	ion	Full-body Contact		Partial-bod	y	Livestock	k		arm	water) Chroni	_	(ephemera Acute		Dissolved Results	Total Results	Recoverable Results		
			Fraction		Fraction		Fraction		ction	la l	raction		ction	ta i	Fraction				Field	Use Exceeded
Name	Symbol	(µg/L)	i.	(µg/L)		(µg/L)		(µg/L)	E	(µg/L)		(µg/L)	Ø,	(µg/L)	Ē	(µg/L)	(μg/L)	(µg/L)	Parameters	Use Exceeded
pH	pH			6.5-9.0		4.5-9.0	Т	6.5-9.0	П				17	***					8.5	
Temperature	°C			0,5-7.0								_		***			-		27.7	•
Specific Conductance (µS/cm)	EC			W 24 0 0 0		***	\neg	1944				***		***					397	•
Dissolved oxygen (mg/L)	DO					222	\neg			6		6				-	***	***	12	
Turbidity (NIUs)	Т										130						2	222	4.7	
etals									-	721 1171										
Aluminum	Al					3777.6		***		-	44	***					<20.0		-	•
Antimony	Sb	4,300	TR	560	TR	560	TR	***		88	D	30	D			<6.0	<6.0	<6.0		•
Arsenic	As	1,450	TR	50	TR	420	TR	200	TR	360	D	190	D	440	D	<3.0	3	<3.0		•
Barium	Ba			98,000	D	98,000	D	222								49.3			***	- :
Beryllium	Be	1,130	TR	2,800	TR	2,800	TR			65	D	5.3	D	•••		<2.0	<2.0	<2.0		
Cadmium	Cd	84	TR	700	TR	700	TR	50	TR	16.75	D	5.69	D	254	D	<0.1	<0.1	<0.1		
Chromium (total)	Cr			100	TR	100	TR	1,000	TR	***								<6.0		
Cobalt	Co	***						•••				***				-	<6.0			-
Copper	Cu	-		1,300	TR	1,300	TR	500	TR	44.22	D	26.38	D	77	D	<3.0	4.1	4.2	8778	
Iron	Fe							***									26			
Lead	Pb	***			TR		TR	100	TR	247.66	D	9.65	D	523	D	<3.0	<5.0	<3.0	***	-
Manganese	Mn	-			TR		TR	***	-				U		Ļ	1.1.10.10.1		<2.0	-	-
Mercury	Hg	0.6	TR	420	TR	420	TR	10	TR	2.40	D	. 0.01	D	5.00	D	< 0.2	<0.2			•
Molybdenum	Mo	***		***	1	***		494)									27.9			- :
Nickel	Ni	4,600	TR		TR		TR	122		1,364	D	151.54	D	12,116	D	<10.0	(444)	<10.0		
Selenium	Se	9,000	TR		TR		TR	50	TR	20	TR	2.00	TR	33	TR		<3.0	<3.0	-	
Silver	Ag	107,700	TR		TR		TR			30.35	D	***		30	D	<0.1	<0.1	<0.1		
Thallium	TÎ	7.2	TR	112	TR		TR		L	700	D	150	D	***		<2.0		<2.0		
Zine	7.n	69,000	TR		TR		TR	25,000	TR	342	D	344.80	D	3,245	D	<5.0	<5.0	<5.0	-	
organic Nonmetalics											_		_		_					
Asbestos (MFL)	- 575					***		•••	_			***		-	Ш	***	<700		in an a	
Boron	В	-			TR		TR		-							75			-	
Cynanide (free)	CN	215,000	TR		TR		TR	200	TR	41	TR	9.7	TR	84	TR		<100.0			37.3
Fluoride	F			84,000	T	84,000	T	***	1					(555)	Ш	370			***	
Nitrite (as N)	NO ₂ -N			140,000	T	140,000	T	***		***				***		***	ND			•
Nitrate (as N)	NO, N			2,240,000	T	2,240,000	Т							1227			ND	124		•
Nitrate + Nitrite (as N)	NO ₂ '+NO ₃ '-N					***			Т		1 5			, 1	П		ND			/. e .i
Phosphorous	P	***			П	(***		***	İ	***		***		***		-			(***)	
Silica	SiO ₂							222	Т							-	29,800			
Sulfide									\top	100	T			100	T		. <1000		200	•
lajor Anions		etter Editor	-//-																	
Chloride	Cl					***		***				***		***			32,600		0.500	•
Sulfate	SO4																29,400		0.000	
Carbonate	CO ₃								1		1	***	17	-		***	68,800	***		
Bicarbonate	HCO ₃					***				***		***		***			225,000			•
lajor Cations		-			_						,	-								
Calcium	Ca	***				***						•••					52,400	-		
Magnesium	Mg	***		***		55550	Ш	***	_	***		***	100				54,300		122	
Potassium	K	***	1	***		***			_			3***		***	-		<1000			
Sodium	Na	•••				***		***	1	***		***				***	24,200			
tadionuclides							_		-	-	1			·						
Gross alpha activity (pCi/L)					-			222	+		-				-		-2.5			
Gross beta activity (pCi/L)									1		-				-		-3.5			
Radium 226+228 (pCi/L)				***		(100)			-	***	-		-	****	H		-2.4	1		
Uranium (mg/L)	U		1	***		. ****	Ш	***	_		1	***					0.00039			Auto-
hysical Properties			-						-	Mary and the	1	The state of				_	294,000		T	
Alkalinity (total)			-	***		***	\vdash		+		-			(***)	\vdash		354,000			
Hardness	TDC		-		-	222	\vdash	***	+		+	***		***	\vdash		420,000			•
Total dissolved solids	TDS	-	-		-		\vdash		-		T	90	T		-		420,000 <5			()
Total suspended solids	TSS (mg/L)		-	-		***	\vdash		1	80	+ '	80	1		\vdash		30			
Color (color units)		***						***	1		1				_		30		1	
Biologicals (MPN/100ml)			_	-					_		1						PRESENT			
			-		-		-		+		+		-		-		PRESENT			
Coliforms (total)		***	-	235	T	576	T		-		1		_		_		LANCOLIST			
E. Coli	T - n		1	The steel		20			T	I	T			100	Г	210	-			
	Br		1		-		\vdash		1		+		1	750.50	-	-10	ND	3220		

Sample Location: Apache Leap - Kane Spring Sample ID: RESE-1001014 Sample Date: August 20, 2003

	ITUENTS					SURF	ACE	WATER ST.	AND	ARDS	-		-	Aquatic ar	ad I		1	R	ESULTS	
		Fish		Full-body		Partial-boo	iy.	Agricultur Livestoci Watering	k		arm	d Wildlife water) Chroni	_	Wildlife (ephemera Acute		Dissolved Results	Total Results	Total Recoverable Results		
	27	Consumpt		Contact	ion	Contact	tion	Watering	lion	Acqu	Fraction	Chroni	Fraction	Acut	Fraction	Itesuis	Results		Field	
Name	Symbol	(µg/L)	Fraction	(µg/L)	Fraction	(µg/L)	Frac	(µg/L)	Frac	(µg/L)	Frac	(µg/L)	Frac	(µg/L)	Frie	(µg/L)	(µg/L)	(µg/L)	Parameters	Use Exceeded
eld								****	_										8.1	
pH	pH			6.5-9.0		4.5-9.0	Н	6.5-9.0	\vdash			-			\vdash				22.7	
Temperature	°C		-	***					\vdash										790	
Specific Conductance (µS/cm)	EC		100			222	-		\vdash	- 6		6		***	\vdash				3	A&Ww Acute and Chr
Dissolved oxygen (mg/L)	DO	-					H		+				\vdash	***	Н				4	
Turbidity (NTUs)	T	***	.0	-					_		-	2000011	_		_					
etals	- 41		100		100						121									•
Aluminum	Al Sb	4,300	TR	560	TR	560	TR		\vdash	88	D	30	D		П	<6.0	<6.0	<6.0	S27	•
Antimony	As	1,450	TR	50	TR	420	TR	200	TR	360	D	190	D	440	D	3	<3.0	<3.0		*
Arsenic	Ba	1,450	110	98,000	D	98,000	D		1	-						40.7				•
Barium	Be	1,130	TR	2.800	TR	2,800	TR		\vdash	65	D	5.3	D	***		<2.0	<2.0	<2.0		•
Beryllium	Cd	84	TR	700	TR	700	TR	50	TR	18.14	D	6.00	D	275	D	<0.1	<0.1	< 0.1		•
Cadmium	Cr		110	100	TR	100	TR	1,000	TR					***		<6.0		<6.0	-	
Chromium (total)				100	110		***		+			15.4					<6.0			
Cobalt	Co	-		1,300	TD	1,300	TR	500	TR	47.39	D	28.09	D	82	D	<3.0	<3.0	<3.0		- · · · · · · · · · · · · · · · · · · ·
Copper	Cu		H	1,300	TR	1,300	1K	300	1.14	47.39	1	20.09			Ť					•
Iron	Fe pt-		\vdash	15	TR	15	TR	100	TR		D	10.41	D	564	D	<3.0	<5.0	<3.0		•
Lead	Pb		\vdash	196,000	TR	196,000	TR	100	111	207.13	1	10.41	-		-			<2.0		
Manganese	Mn						TR		TR	1000000	D	·. · 0.01 · .	D	5	D	<0.2	<0.5		-	
Mercury	Hg	0.6	TR	420	TR	420	IK	10	TIK		10	. U.UL .	D	-	10		8.2			
Molybdenum	Mo			***	-	*0.000	-		+	1.452	D	161.26	D	12,894	D	<10.0	8.2	<10.0		
Nickel	Ni	4,600	TR	28,000	TR	28,000	TR		+	1,452	_		-				<3.0	· · · · <3.0 · · ·		
Selenium	Se	9,000	TR	7,000	TR	7,000	TR	50	TR		TR	2.00	TR	33	TR	*0.1				
Silver	Ag	107,700	TR	7,000	TR	7,000	TR		-	34.44	D			34	D	<0.1	<0.1	<0.1		
Thallium	TI	7.2	TR	112	TR	112	TR		1	700	D	150	D		-	<2.0	<2.0			- :
Zine	Zn	69,000	TR	420,000	TR	420,000	TR	25,000	TR	363.98	D	366.95	D	3,454	D	<5.0	<5.0	<5.0		121
organic Nonmetalics									_						_					
Asbestos (MFL)				***		222		-24	-	-	-				-			3778		-
Boron	В	100		126,000	TR	126,000	TR		1		-				L		88		-	-
Cynanide (free)	CN	215,000	TR		TR	28,000	TR	200	TR		TR	9.7	TR	84	TR		<10.0			
Fluoride	F	//		84,000	T	84,000	T	***				•••	100			300		- 1221		
Nitrite (as N)	NO ₂ -N			140,000	T	140,000	T	225									ND		-	(80)
	NO. N			2,240,000	T	2,240,000	T	***			100		9.39				ND	***		
Nitrate (as N)					+		Ť		1	1325	100	***		***	П	-	ND			•
Nitrate + Nitrite (as N)	NO ₂ +NO ₃ -N		-	***	+		-		+		-	7. 22.			17.7				-	
Phosphorous	P		\vdash		-		+		+	70. 3.20						/	40,700			
Silica	SiO ₂				-				+	100.	T			100	T		. <1000			
Sulfide				***	1					100.	1,		1		1.	- 25.00			17-340-0	
fajor Anions			_		1		17.	350	_		_	2.2	1		1		30,300			
Chloride	Cl	***	-	-	-		-		+		+				\vdash		25,000	_		•
Sulfate	SO4		-		-		-		+		+				1	_	<1000			
Carbonate	CO ₃		\vdash		+		+		+		+				+		397,000			
Bicarbonate	HCO ₃	***	_		_				-		_		-		-	1000				
Iajor Cations			1		1		T	122	T		T		T	***	T		47,600	-		
Calcium	Ca	***	-		+		+		+		1		1	222		222	63,600	(144)	-	
Magnesium	Mg	***	-		-		-		+		+						2,200	-		
Potassium	K				+	372	+		+				1	***	+		26,400			(.€)
Sodium	Na					***			_	-	-		-		_					
Radionuclides			_		1	100,000	Т	12000	Т		4				T		-			
Gross alpha activity (pCi/L)					+		+		+		-		+		1			-		
Gross beta activity (pCi/L)					-		+		+		-		+		+					•
Radium 226+228 (pCi/L)					-	•••	-	***	+		-		-		+				2.2	
Uranium (mg/L)	U			***		-	_	***		***			_		_					
Physical Properties		100			-		-	Photo:	_	Constant Cons	1			(444	1	-	397,000	_		
Alkalinity (total)			-		+		+	1000	+	(1) (444)	-		-		+		381,000			
Hardness	***		-		-		-		+		-		-		+		476,000			
Total dissolved solids	TDS		-		-		+	1,555	+		-		Tr		+		10			
Total suspended solids	TSS (mg/L)				-		-		+	80	1	80	1		+	-	46			
Color (color units)								***		***			_		1		-40			
Biologicals (MPN/100ml)		_	_		1		_	- Common	_	1	1	I' see	T	940	_	16.09	PRESENT		T	
Coliforms (total)		· · ·	-		1	****	-		+		-		+	700	+		PRESENT		7	
P. Call	***		L	235	IT	576	Į T				_		1		_		LINESENI		_	
E. Coli	1						_		_			TO ALIEN	1	T	T	230	T		79225	
Additions or Changes (mg/L)	Br		-		-		-		+	-	-		+	- 373	+	230	ND	-		
	PO ₄				1		1	***	- 1		-									1

Sample Location: Apache Leap - Kane Spring Sample ID: RESE-1001026 Sample Date: November 3, 2003

	TITUENTS		_		_	SURF	ACE	WATERS	TAN	DARDS			Т	Aquatic an	d I			R	ESULTS	
		Fish Consumpt	ion	Full-body Contact		Partial-boo		Agricultur Livestock Watering	١,		arm	d Wildlife water) Chronic		Wildlife (ephemera Acute		Dissolved Results	Total Results	Total Recoverable Results		
Name	Symbol	(µg/L)	Fraction	(µg/L)	Fraction	(µg/L)	Fraction	(µg/L)	Fraction	(µg/L)	Fraction	(µg/L)	Fraction	(µg/L)	Fraction	(µg/L)	(µg/L)	(µg/L)	Field Parameters	Use Exceeded
eld			_	****		1100		4500		11224									8.1	
pH T	pH	- T		6.5-9.0	\vdash	4.5-9.0		6.5-9.0	Н		Н		\vdash	222					14.6	
Temperature Specific Conductance (µS/cm)	°C EC								Н							4.17	24	***	903	•
Dissolved oxygen (mg/L)	DO					***				6	7	- 6							3.8	A&Ww Acute and Chron
Turbidity (NTUs)	Turb.		T	-										***		(10000	700	5.3	•
etals		AND THE RESERVE					_		_		_									
Aluminum	Al									***	-	***	-	200	Н	<6.0	29 <6.0	<6.0		
Antimony	Sb	4,300	TR	560	TR	560	TR	200	an.	88 360	D	30 190	D	440	D	3.0	4.0	3.0		
Arsenic	As	1,450	TR	50 98,000	TR D	420 98,000	TR D	200	TR		1		12		1	33.1				•
Barium Beryllium	Ba Be	1,130	TR	2,800	TR	2,800	TR			65	D	5.3	D			<2.0	<2.0	<2.0		•
Cadmium	Cd	84	TR	700	TR	700	TR	50	TR	14.6	D		D	220.6	D	<0.1	<0.1	<0.1	***	
Chromium (total)	Cr			100	TR	100	TR	1,000	TR	-						<6.0		<6.0		
Cobalt	Co					3											<6.0	:-		· ·
Copper	Cu			1,300	TR	1,300	TR	500	TR	39.1	D	23.6	D	67.7	D	3.3	4.3	4.1		
Iron	Fe		-		_		-	100	mp	2166	D		D	457.0	D	<3.0	37 <3.0	<3.0		
Lead	Po			15	TR	15 196,000	TR	100	TR	216.6	D	8.4	D	437.0	ш			23.4		•
Manganese	Mn		770	196,000	-	420	-		TR	2.4	D	-	D	5.0	D	<0.2	<0.2			
Mercury	Hg	0.60	TR	420	TR	420	TR		110	2.4	1	. 0.01	-	5.0	Ħ		20.4			
Molybdenum	Mo Ni	4,600	TR	28,000	TR		TR		Н	1,222.8	D		D	10,859.1	D	<10.0		<10.0		•
Nickel	Se	9,000	TR		TR	7,000	TR	50	TR	20	TR	CONTRACTOR OF TAXABLE PARTY.	TR	33	TR	***	<3.0	<3.0		•
Selenium	Ag	107,700	TR		TR	7,000	TR		П	24.3	D			24.3	D	<0.1	<0.1	<0.1		
Silver Thallium	Ag TI	7	TR	112	TR	112	TR			700	D		D	***		<2.0	<2.0			
Zine	Zn	69,000	TR		TR		TR		TR	306.5	D		D		D	7.1	9.4	10		•
organic Non-metallics													_		_					
Asbestos (MFL)	***	***									_					222	***	***		
Boron	В		1	126,000	TR		TR		_		-		-		TD	<40.0	69			
Cyanide (free)	CN	215,000	TR		TR		TR	200	TR	41.0	TR		TR	84.0	TR		340			
Fluoride	F		-	84,000	T	84,000 140,000	T		\vdash		+		\vdash	***			ND			
Nitrite (as N)	NO. N		+	2,240,000	T	2,240,000	T		\vdash		-		-	12.2			ND			•
Nitrate (as N) Nitrate + Nitrite (as N)	NO ₃ ·N NO ₂ +NO ₃ ·N		-	2,240,000	+	2,240,000	Ť			***							ND			
Phosphorous	P		+				t	***	T			***				***				
Silica	SiO ₂		1	***						-							33,200	•••	(222)	•
Sulfide				14.		220		***		- 109	T			100	T	***	<1,000	***		
lajor Anions			_				_		_		1		_				14.100	T 199	I	
Chloride	Cl	***	+	-	-		\vdash	***	-		+	***		***	Н		44,100 62,400			
Sulfate	SO ₄		+		-		\vdash	1944	-		+	-	-		\vdash	***	<1,000			
Carbonate	CO ₃		+		-		+	()	\vdash		+		H		⊢	***	392,000			•
Bicarbonate	HCO ₃				_		1_	***	_		_		-	18551	-					
fajor Cations Calcium	Ca		T		T		Т		П		T		Т		Т		43,500		944	•
Magnesium	Mg		1				T							25553	Т		75,600		1222	
Potassium	К					***	Τ	1999				***		***	上		5,100	***	***	:
Sodium	Na	***	L					722	L				LE	***			35,000			
tadionuclides							_	_	_		-	_	_		_	<u> </u>			-	
Gross alpha activity (pCi/L)	***		-				╀		+				-	***	\vdash					
Gross beta activity (pCi/L)			+		+		+				+	-		-		***				•
Radium 226+228 (pCi/L) Uranium (mg/L)	U		1		1		-		1		1			12-21	T	***	***			•
Physical Properties	1 0		-		-		-		-											
Alkalinity (total)			1				I		I								392,000			•
Hardness				-		344	T								L	***	311,000	-		
Total dissolved solids	TDS			***	1		1		1		1		-		-	***	528,000		***	
Total suspended solids	TSS (mg/L)		-		-		-		-	80	T	80	1		+		110		***	
Color (color units)		***	1	_					1		-		-		_		1 110		-	
Biologicals (MPN/100 ml) Coliforms (total)	79900	-			1		Т	T	Т					-	Г		1,600			
			-	235	T		Т		+	-	1	-		(1948)			11		100000	
			_										Ξ							
E. Coli				***	L		T							Name .	1		120			•
	Br				27				-		1		-		1	0.777	ND	222		

Sample Location: Apache Leap - Kane Spring Sample ID: RESE-1001051 Sample Date: February 9, 2004

	TITUENTS		_		T	SURFA	I	WATERST	Air	DANDS			Т	Aquatic ar	nd				SULTS	
a tenana		Fish		Full-body	1	Partial-bod	ly	Agricultur Livestock				d Wildlife water)	ď	Wildlife (ephemera		Dissolved	Total	Total Recoverable		
		Consumpt	Fraction up	Contact	tion	Contact	tion	Watering	tion	Acute	raction	Chroni	Fraction	Acute	ction	Results	Results	Results	Field	
Name	Symbol	(µg/L)	France	(µg/L)	France	(jig/L)	Frac	(µg/L)	Franc	(µg/L)	F	(µg/L)	Ē	(µg/L)	Fra	(µg/L)	(µg/L)	(µg/L)	Parameters	Use Exceeded
ld													_						1 20 1	
pH	pH			6.5-9.0	-	4.5-9.0		6.5-9.0	Н	***					_	***			7.6 4.2	
Temperature	°C	***	\vdash		-		_		\vdash										771	
Specific Conductance (µS/cm)	EC		Н		-		-		Н	6		6					•••		7	
Dissolved oxygen (mg/L)	DO Turb.								H				716			***		-	0.65	
Turbidity (NTUs)	Turb.	-	-		_		_		_		_		_							
Aluminum	Al				T						716					1200	<6.0		***	
Antimony	Sb	4,300	TR		TR	560	TR			88	D	30	D			<1.0	<0.5	<0.5		•
Arsenie	As	1,450	TR		TR		TR	200	TR	360	D	190	D	440	D	<0.6	1.8	1.9		
Barium	Ba				D	98,000	D		Ш	-						31.7		<0.2	***	
Beryllium	Be	1,130	TR		TR	2,800	TR		777	65	D	5.3	D	275.5	D	<0.2 <0.06	<0.2 <0.06	<0.06		
Cadmium	Cd	84	TR		TR		TR	50	TR	18.2	D	6.0	D	275.5	1)	0.61		0.65	S	•
Chromium (total)	Cr	***		-	TR	100	TR	1,000	IK		+		Н		7	0.01	<0.7		***	
Cobalt	Co	***	-	1,300	TR	1,300	TR	500	TR	47.5	D	28.1	D	82.2	D	2.6	3.1	2.9	***	•
Copper	Cu Fe			1,500	110	1,500	110				1						<13		1446	•
Iron Lead	Pb			15	TR	15	TR	100	TR	267.9	D	10.4	D	565.3	D	<1.0	<1.0	<1.0		
Manganese	Mn				TR	196,000	TR			-							***	3.4	1,000	•
Mercury	Hg	0.60	TR		TR	420	TR	10	TR	2.4	D	0.01.	D	5.0	D	· · · <0.2 · · ·	<0.2			
Molybdenum	Mo	0.00	1	***		***	T)		Ħ	***		***		-			13.2	555		•
Nickel	Ni Ni	4,600	TR		TR	28,000	TR		П	1,455.1	D		D	12,922.5	D	2.3	***	1.3	-	•
Selenium	Se	9,000	TR		TR	7,000	TR		TR	20	TR		TR	33	TR		<0.8	<0.8	202	
Silver	Ag	107,700	TR		TR	7,000	TR	-	Ħ	34.6	D		П	34.6	D	<0.1	<0.1	<0.1		
Silver Thallium	TI	7	TR		TR	112	TR		\vdash	700	D		D			<0.4	<0.4	10000		
Zine	Zn	69,000	TR		TR		TR		TR	364.8	D		D	3,461.7	D	1	0.52	0.77	244	•
norganic Non-metallics			1												_			V		
Asbestos (MFL)								***						***		***				•
Boron	В			126,000	TR	126,000	TR										29		-77	
Cyanide (free)	CN	215,000	TR	28,000	TR	28,000	TR	200	TR	41.0	TR	9.7	TR	84.0	TR			***		
Fluoride	F	•••		84,000	T	84,000	T			***	-		-		_		277	***		-
Nitrite (as N)	NO ₂ -N			140,000	T	140,000	T		\vdash						-		ND ND			
Nitrate (as N)	NO ₃ -N		-	2,240,000	T	2,240,000	T	***	\vdash		-				-		ND			10
Nitrate + Nitrite (as N)	NO ₂ +NO ₃ -N		-				_		\vdash	***	-		\vdash		⊢		ND			
Phosphorous	P		+				-		Н		+		+		\vdash		29	***	***	
Silica	S ₁ O ₂		-			-	\vdash			100-;-	T			100	Т		<1,000			1.0
Sulfide					_	-	_	15000	_	100			-		-			25		
lajor Anions	CI	6	_								T		T		Т	222	30,200			
Chloride	SO ₄						\vdash		T			10,11,10			Т		46,500			
Sulfate	CO ₃		+	-			\vdash		\vdash		1			***	Т	***	<1,000	***	-	•
Carbonate	HCO ₁		+				\vdash										357,000		1	•
Bicarbonate Major Cations	Ticoj					-	-		-	Security .	_				_					
Calcium	Ca		T	-										***			59,400	***	-	•
Magnesium	Mg		1		18									***		***	56,600	***	***	•
Potassium	К			***		***								242	_	1444	7,470			
Sodium	Na		10					***				-		- 1000/	1_		23,100			= = = = = = = = = = = = = = = = = = = =
Radionuclides			100						_		-		_		_					
Gross alpha activity (pCi/L)	***		-	•••	_		\vdash		-				-	(***)	+					
Gross beta activity (pCi/L)	***	***	1		-		⊢		+		-		-		+					
Radium 226+228 (pCi/L)			-		-		+		+		1		1		+					
Uranium (mg/L)	U				_		_	· ···	_		-		0.00		_					
Physical Properties	_					1	1	T	T				I		Т		357,000	9		
Alkalinity (total)							1		1				1		1		382,000			•
Hardness Total dissolved solids	TDS		+				T										440,000			•
Total suspended solids	TSS (mg/L)					***				80	T	80	T		I		7			•
Color (color units)		1000									T			***	1	***	37			•
Biologicals (MPN/100 ml)										and the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of th			_			1	2000			
Coliforms (total)	***	ett.							-		-		-	***	+	5	9.0 ND		-	
E. Coli				235	T	576	T		\perp		_	I	_		1_		IND			L - 10
Additions or Changes			-		_	-	-		_			T	1		1		117		T	
	Br		-	***	-		+		+		-		+		+		ND		-	
Bromide Orthophosphate	PO ₄						_		_			-		1	_		1 100		18015	

Apache Leap: Kane Spring RESE-1001161 11/3/2004 seep

Parameters and Consti	tuents					Sı	urfac	e Water S	stand	lards						in the second		Results		
Name	Units	Fish Consumpt	tion	Full-boo		Partial-be Contac		Agricultu Livesto Wateri	ck			d Wildlife water) Chronic	c	Aquatic a Wildlife (ephemer Acute	e	Dissolved Results	Total Results	Total Recoverable Results	Field Parameters	Use Exceeded
		Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction					
ield										Aller										
pH	s.u.			6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0				-	8.2	(east
Temperature	°C							-				-				(6.9	***
Specific Conductance	µS/cm	•••						222			***			***		***	•••		757	
Dissolved Oxygen	mg/L					***		25552		6		6					***	***	6.7	
Turbidity	NTUs							***								(555)			0.84	
letals			-	III A STATE						-11-1-11										
Aluminum	μg/L			1 5													<20			
Antimony .	µg/L	4,300	TR	560	TR	560	TR	***		88	D	30	D		***	<3	<3	- 3		
Arsenic	µg/L	1,450	TR	50	TR	420	TR	200	TR	360	D	190	D	440	D	<3	<3	<3	***	
Barium	µg/L			98,000	D	98,000	D					-				27			***	***
Beryllium	μg/L	1,130	TR	2,800	TR	2,800	TR	***		65	D	5.3	D			<2	<2	<2		222
Cadmium	μg/L	84	TR	700	TR	700	TR	50	TR	17.9	D	5.9	D	270.8	D	<0.1	<0.1	<0.1		***
Chromium (total)	μg/L	***		100	TR	100	TR	1,000	TR			***				<6		<6		***
Cobalt	μg/L	11.00						***		•••						***	<6			2.2
Copper	μg/L			1,300	TR	1,300	TR	500	TR	46.8	D	27.8	D	81.0	D	4.2	5	4.7		
Iron	µg/L	***			***			***			***	***					77	***		***
Lead	µg/L			15	TR	15	TR	100	TR	263.5	D	10.3	D	556.2	D	<3	<3	ব		
Manganese	µg/L			196,000	TR		TR			FF								8.1		
Mercury	μg/L	0.6	TR	420	TR	420	TR	10	TR	2.4	D	0.01	D	5.00	D	<0.2	<0.2			***
Molybdenum	μg/L	***		***		***		***		***							18			***
Nickel	μg/L	4,600	TR	28,000	TR	28,000	TR			1.436	D	159	D	12,750.6	D	<10	***	<10		
Selenium	μg/L	9,000	TR		TR	7,000	TR	50	TR	20.0	TR	2.0	TR		TR		<3	∢		***
Silver	μg/L	107,700	TR	7,000	TR	7,000	TR	***		34	D			33.7	D	<0.1	<0.1	<0.1		
Thallium	µg/L	7.2	TR	112	TR	112	TR			700	D	150	D	***		<2	<2	***	777	
Zinc	µg/L	69,000	TR	420,000	TR	420,000	TR	25,000	TR	360	D	363	D	3,415.6	D	<5	<5	<5		***
Inorganic Non-metallics										11110			_							
Asbestos	MFL										***			wee		***	***	***		
Boron	μg/L		***	126,000	TR	126,000	TR			***							50	***		***
Bromide	μg/L			100000				***									<100			
Cyanide (free)	μg/L	215,000	TR	28,000	TR	28,000	TR	200	TR	41	TR	9.7	TR	84	TR	***		***	777	
Fluoride	μg/L			84,000	T	84,000	T			***							330			***
Nitrite (as N)	µg/L			140,000	T	140,000	T	***		***							<100			
Nitrate (as N)	µg/L			2,240,000	T	2,240,000	Т			/							<100	***		***
Nitrate + Nitrite (as N)	μg/L					***										***	<200			•••
Orthophosphate	µg/L														***		<500			
Silica	µg/L											222					31,400	***	***	
Sulfide	µg/L									100	Т			100	T		<1000			•••
Major Anions			-	ALCOHOL STATE		-												- Company		
Chloride	µg/L	l	T											***			34,000		***	
Sulfate	µg/L					200											54,700		1444	
Carbonate (as CaCO ₃)	μg/L				1			***									<1000			()
Bicarbonate (as CaCO ₃)	μg/L																394,000			
Major Cations			-		_	31104101	_								19.00					
Calcium	µg/L	***							ļ								45,800			
Magnesium	µg/L				1	1.22						-					63,600			
Potassium	µg/L		1							W						5	7,800	***	***	***
Sodium	μg/L				1												30,100		***	***
Physical Properties	1 19-	-	-		_				Last.											
Alkalinity (total as CaCO ₃)	μg/L		1			T	I		T	-			-			(***)	394,000			
Hardness	mg/L		-		1				1					***			376			
Total Dissolved Solids	µg/L		1		1		1					***					501,000			
			1		1		1		†	80	T		T		ļ		<5			
Total Suspended Solids Color	mg/L color units	_			1				1		1		1-				110			(***)
Biologicals	1 color dints		1		1	-	-		-		-			-						
	MPN/100 m	11	1.		1	I	T		T		T		T				900		***	***
Coliforms (total) E. Coli	MPN/100 m MPN/100 m		-	235	1	576	1		1		1	111	1.				13			()

E. Coli MPN/100 ml --- 235 --- 576 --- -- -- -- -- -- -- -- Notes:

Notes:

Green cell color indicates ADEQ designated uses that are assumed to apply to site location.

s.u = standard units

C = degrees Celsius

µSkm = microSiemens per centimeter

mg/L = milligrams per liter

NTUs = Nephelometric Turbidity Units

µg/L = milligrams per liter

MTL = Million Fibers per Liter

ml = millititers

ml = millititers

T = total

T = total

T = total recoverable

D = dissolved

ND = not detected

- No designated uses exceeded

- No designated uses exceeded

- No designated uses exceeded

- No designated uses exceeded

- No designated uses exceeded

- No designated uses exceeded

- No designated uses exceeded

- No designated uses exceeded

- No designated uses exceeded

- No designated uses exceeded

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- No designated uses exceeded

- No designated uses exceeded

- No designated uses exceeded

- No designated uses exceeded

- No designated uses exceeded

- No designated uses exceeded

- No designated uses exceeded

- No

063-2565 June 2006

> Sample Location: Sample ID: Sample Date: Flow Rate (gpm):

Apache Leap: Kane Spring RESE-1001201 5/3/2005 0.5

Parameters and Constit	uents					St	urfac	e Water S	tano	lards								Results		
		Fish Consumpt	ion	Full-bod		Partial-be		Agricultu	k			d Wildlife water)		Aquatic a Wildlife (ephemer	e al)		47			
Name	Units					70000000		Wateri	ng	Acute		Chroni	c	Acute		Dissolved Results	Total Results	Total Recoverable Results	Field Parameters	Use Exceeded
		Standard	raction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction					
ield																			· · ·	
pH	s.u.			6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0				***	8.1	***
Temperature	°C							***										***	16	***
Specific Conductance	μS/cm							***	***					***		•••			752	
Dissolved Oxygen	mg/L			***	•••		***	***	•••	6		6		***		***	***		0.53	***
Turbidity	NTUs	•••					•••	550											0.33	
Metals						-			-		10.70	100				***	30			
Aluminum	μg/L					***	TD					30	D			<3	<3	<3		
Antimony	μg/L	4,300	TR	560	TR	560	TR	200	TR	88 360	D D	190	D	440	D	<3	<3	3		
Arsenic	µg/L	1,450	TR	50	TR	420	TR D	200	IK	360	U	190	U	440	υ 	44				***
Barium	μg/L	1.120		98,000 2,800	TR	98,000 2,800	TR			65	D	5.3	D			<2	<2	<2		
Beryllium	µg/L	1,130 84	TR	700	TR	700	TR	50	TR	19.9	D	6.4	D	302	D	<0.2	<0.2	<0.2	7245	•••
Characian (tatal)	µg/L		IR	100	TR	100	TR		TR	19.9		0,4	-	302		<6		<6	***	2000
Chromium (total)	µg/L		-	100	IK	100	114	1,000	110								<6			•••
Cobalt	μg/L			1,300	TR	1,300	TR	500	TR	51.5	D	30.3	D	89	D	<10	<10	<10		
Copper	μg/L μg/L			1,300	IK	1,300		300		31.3		30.3	-				<60			1010
Iron				15	TR	15	TR	100	TR	292.4	D	11.4	D	617	D	<3	<3	<3	1444	(846)
Lead	µg/L µg/L			196,000	TR	196,000	TR											4.7		-
Manganese	μg/L μg/L	0.6	TR		TR	420	TR	10	TR	2.4	D	0.01	D	5.0	D	<0.2	<0.2			***
Mercury Molybdenum	μg/L		116	920		120											10	2		***
Nickel	μg/L μg/L	4,600	TR	28,000	TR	28,000	TR			1,564	D	174	D	13,889	D	<10		<10		
Selenium	μg/L μg/L	9,000	TR		TR	7,000	TR	50	TR	20.0	TR	2.0	TR	33	TR		<3	⊲		•••
Silver	µg/L	107,700	TR		TR	7,000	TR			40	D			40	D	<0.1	<0.1	<0.1	***	***
Thallium	μg/L	7.2	TR		TR	112	TR			700	D	150	D			<2	<2			***
Zinc	µg/L	69,000	TR		TR	420,000	TR	25,000	TR	392	D	395	D	3,721	D	<10	<10	<10	***	•••
Inorganic Non-metallics	- 1.2							11000												
Asbestos	MFL					***		***		***						***				***
Boron	µg/L	***		126,000	TR	126,000	TR										56			
Bromide	µg/L											-					204			***
Cyanide (free)	μg/L	215,000	TR		TR	28,000	TR	200	TR	41	TR	9.7	TR		TR	***				
Fluoride	μg/L			84,000	T	84,000	T				***	***		***			350			
Nitrite (as N)	μg/L			140,000	T	140,000	T										<100			1000
Nitrate (as N)	µg/L			2,240,000	T	2,240,000	T	****	-							•••	<100			
Nitrate + Nitrite (as N)	µg/L										***			***		•••	<200	(***)		
Orthophosphate	µg/L					***	***										<500	(****)		
Silica	µg/L	***				***								100	т	***	26,300			
Sulfide	μg/L									100	T			100	T		1			
Major Anions		1	-				_		_	Section 1							28,300		I I	
Chloride	µg/L	***			***			***			***						45,700			
Sulfate	μg/L												-		-	(<1000			***
Carbonate (as CaCO ₃) Bicarbonate (as CaCO ₄)	μg/L																371,000			
	μg/L		1				1		1			222	-		_		10000			
Major Cations	- 0		1		_								1		T		76,100	***		
Calcium	µg/L				-		1		1		=		1		1		54,900			
Magnesium	μg/L		1		-		1		1		-		1				680	(***)		
Potassium Sodium	μg/L μg/L																23,100	***		
Physical Properties	pg/L	-	1		1		1	-	_		-	-	-	-	-	-				
Alkalinity (total as CaCO ₃)	μg/L		T	T	T		T	***	T	***	I						371,000			
Hardness	mg/L		-		1								1				416	***		
Total Dissolved Solids	mg/L μg/L				1	***											460,000		222	
Total Suspended Solids	mg/L						1			80	Т	80	T				11		***	- 4
Color	color units				1			-								***	28			
Biologicals	voios andis				1000		-		_	-			_				-11			
Coliforms (total)	MPN/100 ml	1	1		T		T						1			***	3			
			_	235	-	576			-					5 522		444			***	

Notes:

Green cell color indicates ADEQ designated uses that are assumed to apply to site location.

su = standard units

C = degrees Celsius

pScm = microStiennes per centimeter

mpL = milligrams per liter

NTUs = Nephelemetric Turbidity Units

µgL, = micrograms per liter

MFL = Million Fibers per Liter

and = millifiers

MFL = Million Fibers per Liter

ml = millitiers

MFN/100 ml = most probable number per 100 millititer

--- = not applicable

T = total

TR = total recoverable

D = dissolved

ND = not detected

*= No designated uses exceeded

*= No designated uses exceeded

*= No designated uses exceeded

*= No designated uses exceeded

*= No designated uses exceeded

*= No designated uses exceeded

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Apache Leap: Kane Spring RESE-1001186 2/9/2005 drips

Parameters and Consti	tuents				16.	S	urfac	e Water S	Stan	lards								Results		de Sulvey and
Name	Units	Fish Consump	tion	Full-bo Contac		Partial-b Conta		Agriculti Livesto Wateri	ck		arm	d Wildlife water) Chroni		Aquatic a Wildlif (ephemer Acute	e ral)	Dissolved Results	Total Results	Total Recoverable Results	Field Parameters	Use Exceeded
		Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction					
Field													_		_					
pH	s.u.			6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0				- 64	8.3	***
Temperature	°C	•••				***		***		***						(****)	***		6.9	***
Specific Conductance	μS/cm			112		•••		***		***			***		***	***	***	***	698	***
Dissolved Oxygen	mg/L									6		6							10	***
Turbidity	NTUs								•••	***						300			5,3	
Metals																				
Aluminum	μg/L	***				***								•••			<30		***	***
Antimony	μg/L	4,300	TR	560	TR	560	TR			88	D	30	D			<3	ব	<3		
Arsenic	μg/L	1,450	TR	50	TR	420	TR	200	TR	360	D	190	D	440	D	3,3	3.4	3	***	***
Barium	μg/L			98,000	D	98,000	D									29				***
Beryllium	µg/L	1,130	TR	2,800	TR	2,800	TR			65	D	5.3	D			<2	<2	<2		•••
Cadmium	μg/L	84	TR	700	TR	700	TR	50	TR	16.2	D	5.6	D	245	D	<0.2	<0.2	<0.2		***
Chromium (total)	μg/L			100	TR	100	TR	1,000	TR	***						<6		<6	(1440)	
Cobalt	µg/L	***				***										***	<6			
Copper	μg/L			1,300	TR	1,300	TR	500	TR	42.9	D	25.7	D	74	D	<10	<10	<10	***	
Iron	μg/L									-							<60			
Lead	μg/L			15	TR	15	TR	100	TR	239.7	D	9.3	D	506	D	<3	<3	ব		
Manganese	μg/L			196,000	TR	196,000	TR			-	***					***	***	ধ	***	***
Mercury	μg/L	0.6	TR	420	TR	420	TR	10	TR	2.4	D	0.01	D	5.0	D	<0.2	<0.2			***
Molybdenum	μg/L													1999		17778	<8			•••
Nickel	μg/L	4,600	TR		TR		TR			1,328	D	148	D	11,797	D	<10		<10	***	***
Selenium	μg/L	9,000	TR		TR	7,000	TR	50	TR	20.0	TR	20	TR	33	TR		<3	∢		
Silver	μg/L	107,700	TR	7,000	TR	7,000	TR	***		29	D			29	D	<0.1	<0.1	<0.1		
Thallium	μg/L	7.2	TR		TR		TR			700	D	150	D	(444)		<2	<2			***
Zinc	μg/L	69,000	TR	420,000	TR	420,000	TR	25,000	TR	333	D	336	D	3,160	D	<10	<10	<10	***	(***)
Inorganic Non-metallics									_			-			_		Direction of			
Asbestos	MFL	***				3444		***		***						***		***	***	2000
Boron	µg/L			126,000	TR	126,000	TR										41			***
Bromide	μg/L																151			***
Cyanide (free)	μg/L	215,000	TR		TR	28,000	TR	200	TR	41	TR	9.7	TR		TR			***		***
Fluoride	μg/L	***		84,000	T	84,000	T	***									388			1,944
Nitrite (as N)	μg/L			140,000	T	140,000	T			-							<100			V
Nitrate (as N)	μg/L			2,240,000	T	2,240,000	T						***	***		***	<100	***	***	
Nitrate + Nitrite (as N)	μg/L	***														***	<200			***
Orthophosphate	μg/L			***						***							<500			
Silica	µg/L	-						(++++)		(f						(***	23,300			
Sulfide	μg/L									100	T			100	T	***	<1000			***
Major Anions							_						_							
Chloride	µg/L	***															21,800			1000
Sulfate	μg/L							•••									29,300			***
Carbonate (as CaCO ₃)	µg/L					•••				***	***						3,980			
Bicarbonate (as CaCO ₃)	μg∕L			***		***		***	***	***	***	***					335,000			
Major Cations									_											
Calcium	μg/L	***										-					53,000			
Magnesium	μg/L							***								•••	51,200	***		
Potassium	μg/L			***													2,230			***
Sodium	µg/L	***		-		1000		,;									18,100		-22	
Physical Properties									_				_		_					
Alkalinity (total as CaCO ₃)	µg/L					***											339,000	***	***	
Hardness	mg/L	***															343			***
Total Dissolved Solids	µg/L																416,000	1,000		
Total Suspended Solids	mg/L							***		80	T	80	T	222			<5	***		
Color	color units											***					28			
Biologicals					-	179						111.12			_					Line Line
Coliforms (total)	MPN/100 ml																1,600			
E. Coli	MPN/100 ml	***	1	235		576					l	***			l		2		111	

Apache Leap: Kane Spring RESE-1001218 8/3/2005 < 0.1

Parameters and Constitu						S	urfac	e Water S	tand	ards								Results		
Name		Fish	ton	Full-bo		Partial-b		Agriculti Livesto				d Wildlife water)		Aquatic Wildli (epheme	fe					
	Units	Consumpt		Contac		Contac		Waterin		Acuto		Chron		Acute	Н	Dissolved Results	Total Results	Total Recoverable Results	Field Parameters	Use Exceeded
		Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction		usi a f			
ield	-			(:00		6500		7500		(500	1	6.5-9.0		6.5-9.0					7.8	
pH	s.u. °C			6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		0.3-9.0		0.3.9.0		202	***	***	23	
Temperature Specific Conductance	μS/cm															5.3			1,019	442
Dissolved Oxygen	mg/L					***				6		6							5.9	A&WwwA & A&Ww
Turbidity	NTUs					•				The same				577				***	19	
letals													_		_					
Aluminum	μg/L			***				1000					***	•••			<30		***	
Antimony	μg/L	4,300	TR	560	TR	560	TR			88	D	30	D	110		<3	<3	<3 4.7	***	
Arsenie	µg/L	1,450	TR	50	TR	420	TR	200	TR	360	D	190	D	440	D	4.7 51	5	4.7		
Barium	µg/L	1,130	TR	98,000 2,800	D TR	98,000 2,800	D TR			65	D	5.3	D			<2	<2	<2	***	
Beryllium	µg/L µg/L	84	TR	700	TR	700	TR	50	TR	23.1	D	7.1	D	350	D	<0.2	<0.1	<0.2		1007
Cadmium Chromium (total)	μg/L μg/L			100	TR	100	TR	1,000	TR			***		***		<6		<6	***	
Cobalt	µg/L													***			<6		***	***
Copper	μg/L			1,300	TR	1,300	TR	500	TR	58.6	D	34.0	D	101	D	<10	<10	<10		248
Iron	μg/L			***				***									<60		(2.2)	222
Lead	μgЛ.			15	TR	15	TR	100	TR	336.1	D	13.1	D	709	D	<3	<3	<3		
Manganese	μg/L			196,000	TR	196,000	TR		****	2.1							<0.2	11		
Mercury	μg/L	0.6	TR	420	TR	420	TR	10	TR	2.4	D	:: 0.bt ·:	D	5.0	D	<0.2	<0.2			
Molybdenum	μgЛ.	1.600	TD	28,000	TD	28,000	TD			1,756	D	195	D	15,594	D	<10	14	<10		
Nickel Salanian	μg/l.	4,600 9,000	TR	28,000 7,000	TR	7,000	TR TR	50	TR	20.0	TR	195	TR	33	TR	<10	<3	· · · · · · · <3 · · · · · · ·		
Selenium	ug/L	107,700	TR	7,000	TR	7,000	TR	50	110	51	D	2.0		51	D	<0.1	<0.1	<0.1		
Silver Thallium	µg/l. µg/l.	7.2	TR	112	TR	112	TR			700	D	150	D		1	<2	<2			
Zinc	µg/L	69,000	TR	420,000	TR	420,000	TR	25,000	TR	440	D	444	D	4,178	D	<10	<10	<10		
norganic Non-metallics								-			A		711							
Asbestos	MFL			•••								***				***		(544)	***	***
Boron	µg∕L.	***		126,000	TR	126,000	TR					***		***			90		444	344
Bromide	μg/L.							***							***		275			
Cyanide (free)	µg/L	215,000	TR	28,000	TR	28,000	TR	200	TR	41	TR	9.7	TR	84	TR	***	269		***	***
Fluoride	µg/L	***		84,000	T	84,000 140,000	T		***						1		<100	227	2412	
Nitrite (as N)	µg/L			140,000	T	2,240,000	T	***					-		1		<100	•••		
Nitrate (as N)	µg/L		1	2,240,000	1	2,240,000	1				1		-	-			<200	***	10000	
Nitrate + Nitrite (as N) Orthophosphate	μg/L μg/L		1								1			100			<500			
Silica	μg/L	***		11 2+++		***						160					34,700		9223	124
Sulfide	μg/L			***		***		***		100	T			100	T .	SAME.	<1000			122
lajor Anions									_		_		_							
Chloride	µg/L																72,400			
Sulfate	µg/L			777		•••		777									102,000 <1000			
Carbonate (as CaCO ₃)	μg/L			***			***	***						***			403,000			
Bicarbonate (as CaCO ₃)	μg/l.										-		-	777	25150	0.82	,	35304		
Major Cations Calcium	пел	-	1		1	· · · · ·	T				1		T		T		62,100	- 222		***
Calcium Magnesium	μg/L μg/L												1			***	78,300			
Potassium	µg/L											***		***		***	5,170	***		****
Sodium	μg/l.					1222						***		122		***	51,000		***	
Physical Properties					Ξ		_		_						_		100	1		- Ottobal
Alkalinity (total as CaCO ₃)	µg/L	(***)				***		***		***		***		577			403,000	***		***
Hardness	mg/L					***				***					***	•••	477	***		
Total Dissolved Solids	μg/ l ,					(-10)						90	т				713,000			
Total Suspended Solids	mg/L	***					-		***	80	T	80	T				10 150			
Color Biologicals	color units	***	1	***		***	1		1	-	1		1		1		100			
biologicais	MPN/100 ml		T	T	T	T	T	T	T		1		T	222	T		1,600	***	***	788
Coliforms (total)	MPN/100 ml			235		1676			1		1	100					1,600			FBC & PBC

APACHE LEAP – BLUE SPRINGS

063-2565 June 2006

> Sample Location: Apache Leap - Blue Springs Sample ID: RESE-1001087 Sample Date: May 26, 2004

	TITUENTS			-	-	SURI	FAC	E WATER S	STAN	DARDS			-	Aquatic ar	nd l		<u> </u>	RESULTS		
		Fish	·lan	Full-bod		Partial-bo		Agricultu Livestoc	k	(w		d Wildlife water) Chronic		Wildlife (ephemera		Dissolved Results	Total Results	Total Recoverable Results		
		Consumpl	Fraction uoi	Contac	Fraction	Contac	Fraction	Waterin	Fraction	Acute (μg/L)	Fraction	(µg/L)	Fraction	Acute (μg/L)	Fraction	(µg/L)	(μg/L)	(μg/L)	Field Parameters	Use Exceed
Name ield	Symbol	(µg/L)	I E	(µg/L)	II.	(µg/L)	ja.	(µg/L)	14	(µg/L)	(E.)	(hgr.)	E.	(µg/L)	14	(µg/L)	(µg/L)	(µg/L)	Tatameters	Exter
pH	pH	***		6.5-9.0		4.5-9.0		6,5-9.0		***		***		***	=	(***)	(***)		7.4	
Temperature	°C								-						_			933	25.8 558	*
Specific Conductance (µS/cm) Dissolved oxygen (mg/L)	EC DO				-		-			6		6	-		-				5,9	
Turbidity (NTUs)	Turb.																		1.8	
letals															_					
Aluminum	Al			-			_									***	<20			•
Antimony	Sb	4,300	TR	560	TR	560 420	TR	200	TD	88	D	30 190	D	440.0	D	<3.0 <3.0	<3.0 <3.0	<3.0 <3.0		
Arsenic Barium	As Ba	1,450	TR	50 98,000	TR	98,000	D	200	TR	360	ע	190	U	440.0	ע	30.5				
Beryllium	Be	1,130	TR	2,800	TR	2,800	TR		T	65	D	5,3	D			<2.0	<2,0	<2.0		
Cadmium	Cd	84.0	TR	700	TR	700	TR	50	TR	9.2	D	3.8	D	139.0	D	<0.1	<0.1	<0.1	***	٠
Chromium (total)	Cr			100	TR	100	TR	1,000	TR			7		222		<6.0	***	<6.0		•
Cobalt	Co		-	1.200	TD	1 200	TD	£00	TD	26.2	D	16.4	D	45.3	D	<3.0	<6.0 3.3	<3.0		•
Copper	Cu Fe		-	1,300	TR	1,300	TR	500	TR	26.2	D	10.4	ע	+3.3	υ		201	\J.0		•
Lead	Pb			15	TR	15	TR	100	TR	138.3	D	5.4	D	291.9	D	<3.0	<3.0	<3.0		
Manganese	Mn	QI ,		196,000	TR	196,000	TR	•••									***	44,3	(***	*
Mercury	Hg	0,60	TR	420	TR	420	TR		TR	2.4	D	0.01	D	5.0	D	<0,2	<0.2			•
Molybdenum	Mo Ni	4,600	TR	28,000	TR	28,000	TR		H	852	D	95	D	7,569	D	<10	8.6	<10		- ;
Nickel Selenium	Se Ni	9,000	TR	7,000	TR	7,000	TR	50	TR	20	TR	2.0	TR	33.0	TR		<30	· · · <3.0 · · ·		
Silver	Ag	107,700	TR	7,000	TR	7,000	TR		1.0	12	D			11.7	D	<0.1	<0.1	<0.1		•
Thallium	TI	7.20	TR	112	TR	112	TR			700	D	150	D	535		<2.0	<2.0	1.1		
Zinc	Zn	69,000	TR	420,000	TR	420,000	TR	25,000	TR	213	D	215	D	2.026	D	<5.0	<5.0	<5.0		
norganic Non-metallics					_		_											1 0000	1000	
Asbestos (MFL)	В	•••	-	126,000	TR	126,000	TR		\vdash								<40			
Boron Cyanide (free)	CN	215,000	TR	28,000	TR	28,000	TR	200	TR	41	TR	9.7	TR	84	TR		<10			•
Fluoride	F		111	84,000	T	84,000	T		1								400			
Nitrite (as N)	NO ₂ -N	70 41		140,000	T	140,000	T									***	ND	355	1855	*
Nitrate (as N)	NO ₃ '-N			2,240,000	T	2,240,000	T			II			Ш			100	ND		***	•
Nitrate + Nitrite (as N)	NO ₂ '+NO ₃ '-N		-			555	┝		Н			-	H		-	***	ND 			
Phosphorous Silica	SiO ₂		+		-		-		Н				Н				72,900			•
Sulfide										100	Т	-		100	Т		· · <1;000· ·			
Major Anions				0					-											
Chloride	Cl															***	12,200			*
Sulfate	SO4		-		-	***	-	***	-						-		6,100 <1,000			
Carbonate Bicarbonate	CO ₃		1		-		\vdash										299,000			
Major Cations					A		•		0 -											
Calcium	Ca							***			40						59,200			
Magnesium	Mg								\perp			-					13,500			•
Potassium	K Na				+	***	\vdash		H						-		1,700 32,500			
Sodium Radionuclides	J Na		_		_		_	//		87							52,000			
Gross alpha activity (pCi/L)							I			6-1/- 	13						3.03			•
Gross beta activity (pCi/L)	***									/ i			1				0.56			
Radium 226+228 (pCi/L)					-		1	(0.000)	-					***			0.52	***	•••	:
Uranium (mg/L)	U						1		1_	***	1	***					0.0004	***		
Physical Properties Alkalinity (total)			T				T		П								299,000			
Hardness .					1		T					10, 4118					203,000			
Total dissolved solids	TDS	***						1000									370,000			*
Total suspended solids	TSS (mg/L)									80	T	80	Т		\Box		<5	9.00		•
Color (color units)					L		L		Ļ								10			<u> </u>
Biologicals (MPN/100 ml) Coliforms (total)	I			I	T S		1		\Box			V. 14.				122	1,600			
E. Coli				235	T	576	Т						1 3				50			
Additions or Changes (mg/L)						10														
Bromide	Br			***		***	E		\Box								110			
Orthophosphate	PO ₄	***					L		L						Ш			***		<u> </u>

Sample Location: Apache Leap - Blue Springs Sample ID: RESE-1001093 Sample Date: August 3, 2004

PARAMETERS AND CONSI	TITLITATE					eunr	LCT	WATERS	r i N	DADDO	_				7.75			DE	SULTS	
PARAMETERS AND CONSI	ITTUENTS		_		Т	SUKF	ACE	WAILKS	AIN			Andrew Control	T	Aquatic an	d			The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	JOELIO	
		Fish		Full-body		Partial-bo	dy	Agricultur Livestock		(w:		nd Wildlife water)		Wildlife (ephemera	t)	Dissolved Results	Total Results	Total Recoverable Results		
Name	Symbol	Consumpti	raction u	Contact (µg/L)	Fraction	Contact (µg/L)	Fraction	Watering (µg/L)	Fraction	Acute (µg/L)	Fraction	Chronic	Fraction	Acute	Fraction	(µg/L)	(μg/L)		Field Parameters	Use Exceeded
Field	0.11100		Lyna													×				
pH	pН			6.5-9.0	_	4.5-9.0		6.5-9.0			H			- 57	_		-		7.4	•
Temperature Specific Conductance (µS/cm)	°C EC		\vdash			***		***	\vdash						-				809	
Dissolved oxygen (mg/L)	DO	122/								6		6						***		
Turbidity (NTUs)	T																		2.1	
Metals			_																	
Aluminum	Al	1.200	TR		TD	560	TR			88	D	30	D		_	<3.0	41 <3.0	<3.0		· · · · · · · · · · · · · · · · · · ·
Antimony Arsenic	Sb As	4,300 1,450	TR		TR TR	420	TR	200	TR		D	190	D	440	D		4	<3.0		
Barium	Ba	1,450	110		D	98,000	D		***			7	-			69.1	200			
Beryllium	Be	1,130	TR		TR	2,800	TR			65	D	5.30	D			<2.0	<2.0	<2.0		•
Cadmium	Cd	84	TR		TR	700	TR	50	TR		D	5.29	D	228.24	D	<0.1	<0.1	<0.1		-
Chromium (total)	Cr			100	TR	100	TR	1,000	TR	-						<6.0	<6.0	<6.0		
Copper	Co	-	H	1,300	TR	1,300	TR	500	TR	40.33	D	24.26	D	69.80	D	<3.0	<3.0	3		
Copper Iron	Fe			1,300		1,300	110	300	110	40.33	-		-	02.00			993			
Lead	Pb			15	TR	15	TR	100	TR	223.79	D	8.72	D	472.30	D	<3.0	<3.0	<3.0		•
Manganese	Mn				TR	196,000	TR	(9222)		160-200				***				789	***	•
Mercury	Hg	0.60	TR		TR	420	TR	10	TR	2.40	D	0,01	D	5	D	<0,2	<0.2			- :
Molybdenum	Mo		-	***	777	20.000	TD		Н	125501	-	120.50	D	11,153.82	D	<10	10.5	<10		- :
Nickel	Ni Se	4,600 9,000	TR		TR TR	28,000 7,000	TR	50	TR	1,255.94	TR	139.50	TR	33	TR	×10	<6.0	<3.0		
Selenium Silver	Ag	107,700	TR		TR		TR		110	25.65	D	2.00		25.65	D	<0.1	<0.1	<0.1		
Thallium	TI	7.20	TR		TR	112	TR			700	D	150	D		-	<2.0	<2.0			•
Zine	Zn	69,000	TR		TR	420,000	TR	25,000	TR	314.79	D	317.36	D	2,987.21	D	<5.0	<5.0	<5.0	***	
Inorganic Nonmetalics	W-1				_										_					
Asbestos (MFL)					-	***	_			77					_		<40			
Boron	B CN	215,000	TR		TR	126,000 28,000	TR	200	TR	41	TR	10	TR	84	TR					
Cynanide (free) Fluoride	F	213,000	III	84,000	T	84,000	T		110		I I I		***				270	-	-	•
Nitrite (as N)	NON	_		140,000	T	140,000	T	-						(Sauly)			ND		•••	
Nitrate (as N)	NO ₃ -N			2,240,000	T	2,240,000	T							***		***	ND		***	•
Nitrate + Nitrite (as N)	NO ₂ +NO ₃ -N						Н								_		ND			
Phosphorous Silica	P SiO ₂						Н	***	Н						-		69,200			
Sulfide			1				Н	1994		100	Т			100	Т		·. <1000.	(3000)		
Major Anions					_		_													
Chloride	Cl			-				3***		11.00		-			L		23,800		7-2	
Sulfate	SO ₄		_			***		***							L	***	123,000	1		
Carbonate	CO3		-			-			_						H		<1000		***	
Bicarbonate	HCO ₃		L			***	Ш	2 ***	Ш	-	_			***	_		344,000		Service	
Major Cations Calcium	Са			I I								782 N			Г		89,400			
Magnesium	Mg								Г								23,600		122	
Potassium	K	***						(****									3,900		***	
Sodium	Na	11 .22 01													L	-	43,400			
Radionuclides			-		_			I			_	DE-								
Gross alpha activity (pCi/L) Gross beta activity (pCi/L)			+		16				-											
Radium 226+228 (pCi/L)						***	Г	***				***		-						
Uranium (mg/L)	U	***						***						***				***		
Physical Properties											_				_		244.000	T source	0000	
Alkalinity (total)			+	***					_		-		-		H		344,000 321,000			-
Hardness Total dissolved solids	TDS		-			***	-		\vdash	-	+	***			H		594,000			
Total suspended solids	TSS (mg/L)		T							80	T	80	Т				6			
Color (color units)			I											1		-	19	***	***	
Biologicals (MPN/100ml)			_								_								0000	
Coliforms (total)	-		-		~		-		H		-				H		900			
E. Coli	***		_	235	T	576	LT		_		1_	***	_		_		- 11	***		
Additions or Changes Bromide	Br		T	1		-		122		771 2411	I						190	***		
Orthophosphate	PO ₄		T			277			Г						Г		ND			
Notes:		-	-				-		-	_	-		_		_					

Notes:

Cell color indicates ADEQ designated uses that are assumed to apply to site location.

Units are µg L unless otherwise indicated µg L - miscograms per lifer µg L - milligrams per liter 1 - Total Recoverable

D - Dissolved

ND - Not Detected

ND - Not Detected

ND - Not Detected

ND - Not Tested

MPN 100 ml - most probable number per 100 millilater µS cm - miscoSiemens per centimeter µG'L - piocCuries per liter

NUL's Nopelometris Turbdidy Units

MUL - Million Fibers per Liter

Ell - Standard is lower than detection limit

Exceedances (except for Dissolved Oxygen and pH)

Arizona state Dissolved Oxygen standards correspond to minima, therefore values less than the requirements are highlighted Arizona state pH standards correspond to ranges, therefore values outside of the requirements are highlighted

Apache Leap: Blue Springs RESE-1001185 2/9/2005 6.5

Parameters and Consti	ituents					s	urfac	e Water	Stan	dards				177				Results		
Name	Units	Fish Consumpt	tion	Full-bo Contac		Partial-b Contac		Agriculti Livesto Wateri	ck		arm	nd Wildlife water) Chroni	11	Aquatic a Wildlif (ephemer Acute	fe ral)	Dissolved Results	Total Results	Total Recoverable Results	Field Parameters	Use Exceeded
	W-news-way	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction					
Field																				
pH	s.u.			6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0					7.7	•••
Temperature	°C													***		***			10	***
Specific Conductance	μS/cm					***													519	
Dissolved Oxygen	mg/L	***				•••		Pers.		6		6		1999		***	***		7.3 0.75	
Turbidity	NTUs							***						3 500 1					0.75	
Metals					_		_		_								<30		T	
Aluminum	μg/L	***				***	***	***	***					***						
Antimony	µg/L	4,300	TR	560	TR	560	TR	200	TR	88	D	30 190	D	440	D	<3	<3 3.1	<3 <3		120
Arsenic	µg/L	1,450	TR	50	TR	420	TR D	200	IK	360	D	190	D		D	26	3.1			
Barium	µg/L	1,130	TR	98,000 2,800	TR	98,000 2,800	TR			65	D	5.3	D			<2	<2	<2		
Beryllium	μg/L ug/L	84	TR	700	TR	700	TR	50	TR	10.1	D	4.0	D	152	D	<0.2	<0.2	<0.2		
Chromium (total)	μg/L ug/L	84	1R	100	TR	100	TR	1,000	TR	10.1		4.0				<6		<6		
Chromium (total) Cobalt	μg/L			100	110	100		1,000	110								<6			
Copper	μg/L μg/L			1,300	TR	1,300	TR	500	TR	28.4	D	17.6	D	49	D	<10	<10	<10		
Iron	μg/L μg/L		1	1,300	111	1,300	115	300		20.4							<60			11.55
Lead	µg/L µg/L			15	TR	15	TR	100	TR	151.3	D	5.9	D	319	D	<3	<3	<3		***
Manganese	μg/L μg/L			196,000	TR	196,000	TR			151.5								36		
Mercury	μg/L μg/L	0.6	TR	420	TR	420	TR	10	TR	2.4	D	: 0.01:-:	D	5.0	D	<0.2	<0.2			
Molybdenum	μg/L μg/L			420		420					-			2.0	Ĭ		<8			
Nickel	μg/L μg/L	4.600	TR		TR	28,000	TR			916	D	102	D	8,133	D	<10		<10		
Selenium	μg/L μg/L	9,000	TR	7,000	TR	7,000	TR	50	TR	20.0	TR		TR	33	TR		<3	a		
Silver	μg/L μg/L	107,700	TR	7,000	TR	7,000	TR			13	D			13	D	<0.1	<0.1	<0.1		***
Thallium	μg/L	7.2	TR	112	TR	112	TR			700	D	150	D		-	<2	<2			-
Zinc	µg/L	69,000	TR		TR		TR		TR	229	D	231	D	2,177	D	<10	<10	<10		
Inorganic Non-metallics	13-										- market		-							
Asbestos	MFL							***	***											-
Boron	µg/L			126,000	TR	126,000	TR									-	<40			
Bromide	µg/L															-	174	(***)		
Cyanide (free)	µg/L	215,000	TR	28,000	TR	28,000	TR	200	TR	41	TR	9.7	TR	84	TR		-			***
Fluoride	µg/L			84,000	Т	84,000	Т					***					300			
Nitrite (as N)	µg/L	***		140,000	Т	140,000	Т									***	<100	-		
Nitrate (as N)	µg/L			2,240,000	Т	2,240,000	Т							222		7000	<100			
Nitrate + Nitrite (as N)	µg/L	***						***	***								<200			
Orthophosphate	µg/L					***		***								***	<500		***	***
Silica	µg/L				-												46,700			
Sulfide	µg/L							1777		- 100	T			100	T	1000 E	<1000	-		
Major Anions			_		_	9														
Chloride	μg/L			***		***						***		***			16,700		***	
Sulfate	μg/L	***				***				-							41,200			
Carbonate (as CaCO ₃)	μg/L							***						***			<1000	***		
Bicarbonate (as CaCO ₃)	μg/L					***	***			***						(***)	212,000			•••
Major Cations					_		_		_				_		_					
Calcium	µg/L			•••													63,400			
Magnesium	μg/L																15,300			
Potassium	μg/L	***															1,480			
Sodium	µg/L			***	***			***				***					24,800	***		
Physical Properties					_				_	THE REAL PROPERTY.						1 60	212,000	F1021	I I	
Alkalinity (total as CaCO ₃)	µg/L				***															***
Hardness	mg/L				***	***					***		***				221			
Total Dissolved Solids	μg/L						***	***									347,000			
Total Suspended Solids	mg/L					****		***		80	T	80	T	570			<5 19		300	
Color	color units	***	***	***	***	***					***	***	L		1		19			
Biologicals	Lamanus				_								_		_		200		1 22 1	
Coliforms (total)	MPN/100 ml			225		576					-						300 <2			
E. Coli	MPN/100 ml			235		576	1		L			1000	I		1		~4			

Apache Leap: Blue Springs RESE-1001200 5/3/2005

Parameters and Consti	ituents					S	urfa	e Water S	Stan	dards								Results		
1 manietts and const		Fish Consumpt	tion	Full-boo		Partial-b	ody	Agricultu	ıral ck	Aquat		nd Wildlife water)		Aquatic : Wildlif (epheme	e				14.7	
Name	Units	Consump						Wateri	ng	Acute		Chroni	ic	Acute		Dissolved Results	Total Results	Total Recoverable Results	Field Parameters	Use Exceeded
		Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction					
Field							_													
pН	s.u.			6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		•••			7.6	
Temperature	°C					- 32												222	746	
Specific Conductance	μS/cm mg/L									6		6						***	10	122
Dissolved Oxygen Turbidity	NTUs							522						***		***			1.3	***
Metals	11105						_		_				-		_					
Aluminum	µg/L		***					***		***		100		***	***	***	<30	***		
Antimony	μg/L	4,300	TR	560	TR	560	TR			88	D	30	D	***		<3	<3	<3	***	
Arsenic	μg/L	1,450	TR	50	TR	420	TR	200	TR	360	D	190	D	440	D	<3	<3	<3		
Barium	µg/L	***		98,000	D	98,000	D							***		35				
Beryllium	μg/L	1,130	TR	2,800	TR	2,800	TR	***		65	D	5.3	D	200		<2	<2	<2		
Cadmium	µg/L	84	TR	700	TR	700	TR	50	TR	17.6	D	5.9	D	266	D	<0.2	<0.2	<0.2		
Chromium (total)	µg/L			100	TR	100	TR	1,000	TR				-		-	<6	<6	<6 		
Cobalt	μg/L			1,300	TR	1,300	TR	500	TR	46.1	D	27,4	D	80	D	<10	<10	<10		
Copper	μg/L μg/L			1,300	IK	1,300	110	300	110	40.1		27.4	-	00			<60			
Lead	µg/L µg/L	2.2		15	TR	15	TR	100	TR	259.2	D	10.1	D	547	D	<3	<3	<3		
Manganese	μg/L			196,000	TR	196,000	TR									1.00	101	35	***	***
Mercury	µg/L	0.6	TR	420	TR	420	TR	10	TR	2.4	D	0.01	D	5.0	D	<0.2	<0.2		***	
Molybdenum	µg/L							222								***	8.2		***	-
Nickel	µg/L	4,600	TR	28,000	TR	28,000	TR			1,416	D	157	D	12,578	D	<10	<u></u>	<10		***
Sclenium	μg/L	9,000	TR	7,000	TR	7,000	TR	50	TR	20.0	TR	2.0	TR	33	TR		<3			
Silver	μg/L	107,700	TR	7,000	TR	7,000	TR			33	D			33	D	<0.1	<0.1	<0.1		***
Thallium	µg/L	7.2	TR	112	TR	112	TR			700	D	150	D			<2	<2			8.22.5
Zinc	µg/L	69,000	TR	420,000	TR	420,000	TR	25,000	TR	355	D	358	D	3,369	D	<10	<10	<10		
Inorganic Non-metallics					_		_	_	_		2000		Same.			1000			1	
Asbestos	MFL	***		126,000	TR	126,000	TR		***							-	48			
Boron Bromide	µg/L			120,000	IK	126,000	IR		_								380			
Cyanide (free)	μg/L μg/L	215,000	TR	28,000	TR	28,000	TR	200	TR	41	TR	9.7	TR	84	TR					(1996)
Fluoride	μg/L			84,000	T	84,000	T				***						301		***	
Nitrite (as N)	μg/L			140,000	T	140,000	Т									***	<100			***
Nitrate (as N)	μg/L			2,240,000	Т	2,240,000	Т	233								1900	<100			***
Nitrate + Nitrite (as N)	μg/L					***								***			<200			***
Orthophosphate	µg/L	***					***									***	<500	***		***
Silica	μg/L																57,800		yana yana	1 4 4 4 1
Sulfide	µg/L			***				_==_		- 100	T	***		100	T		<1000			
Major Anions	-						1000	1 888			THE STATE OF	la care	Tiga a	1		9000	51,400			
Chloride	µg/L										***					***	107,000			
Sulfate Carbanata (as CaCO.)	µg/L ug/L						-		-							***	<1000			
Carbonate (as CaCO ₃) Bicarbonate (as CaCO ₃)	μg/L μg/L													***			281,000	***		
Major Cations	ro		-				_		_		1000		-		_					
Calcium	µg/L		I	W. 200													103,000		***	
Magnesium	μg/L													***			27,200			(444)
Potassium	μg/L	***				(***)		(***)									1,800		***	786
Sodium	μg/L					***											44,500	***		
Physical Properties			_		_		_						_				1 201 000			Name of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last o
Alkalinity (total as CaCO ₃)	μg/L							***									281,000			7444
Hardness	mg/L					444								***		(444)	370	***	(444)	
Total Dissolved Solids	µg/L									***			7				564,000			(2.2)
Total Suspended Solids	mg/L	***				3446				80	Т	80	T				<5 <1			
Color	color units			***		***					***	•••	1		1					
Biologicals California (total)	A(DN//1001		1			·	I			0.0	-		L	T	T			I		
Coliforms (total) E. Coli	MPN/100 ml MPN/100 ml	11 100000		235		576				-			1		-					
Notes:	1 100 80		1	1	-	270					-				-	-	-	***************************************		

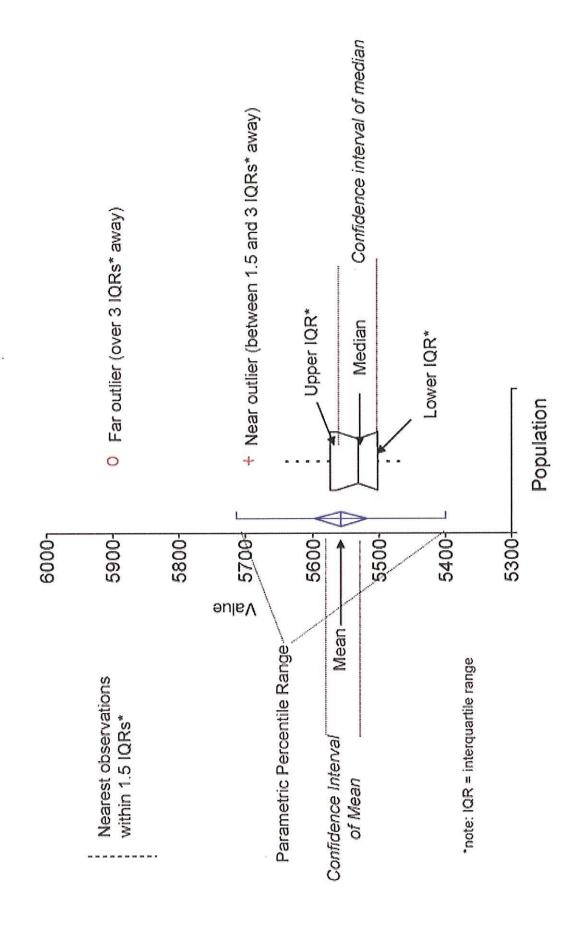
| Notes:
| Notes: | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Standard units | Sta

Apache Leap: Blue Springs RESE-1001219 8/3/2005 < 0.1

	tuents		_			S	urfac	e Water S	stanc				_	Aquatic	and I			Results		
		Fish		Full-bo		Partial-b		Agricult				id Wildlif water)	e	Wildli (epheme	fe					
Name	Units	Consumpt	tion	Conta	ct	Contac	t	Wateri		Acut	e	Chro	ile	Acut		Dissolved Results	Total Results	Total Recoverable Results	Field Parameters	Use Exceeded
		Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction	Standard	Fraction		1- 14			- 13-13-13-13-13-13-13-13-13-13-13-13-13-1
ield																				
pH	s.u.			6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		6.5-9.0		244			7.1	
Temperature	°C	•••		***		700						***	-	***					444	***
Specific Conductance Dissolved Oxygen	µS/cm				3	-22				6	-	6		***			***		3.9	A&WwwA & A&W
Turbidity Turbidity	mg/L NTUs							***											0.38	***
letals	1.1.0.						_		_				_							
Aluminum	µg/L			***		***											<30	***		
Antimony	µg/L	4,300	TR	560	TR	560	TR			88	D	30	D	(***)		<3	<3	∢	***	***
Arsenie	µg/L	1,450	TR	50	TR	420	TR	200	TR	360	D	190	D	440	D	<3	<3	<3	***	***
Barium	µg/L			98,000	D	98,000	D	***	***					1577		29			***	
Beryllium	μg/L	1,130	TR	2.800	TR	2,800	TR	***		65	D	5.3	D			<2	<2	<2		
Cadmium	µg/L	84	TR	700	TR	700	TR	50	TR	8.2	D	3.5	D	124	D	<0.2	<0.1	<0.2	***	
Chromium (total)	μg/L			100	TR	100	TR	1,000	TR				***			<6	<6	<0		
Cobalt	μg/L			1.200	770	1.700	TR	500	TR	23.6	D	14.9	D	41	D	<10	<10	<10		
Copper	μgЛ.			1,300	TR	1,300	7.1	500	111	23.0	1	14.9		**1			243			
Iron Lead	µgЛ. µgЛ.		-	15	TR	15	TR	100	TR	123.1	D	4.8	D	260	D	<3	<3	<3		
Lead Manganese	µg/1.			196,000	TR	196,000	TR	100	-11	123.1	1	4.0	1	200				78	1945	
Manganese Mercury	μg/1. μg/1.	0.6	TR	420	TR	420	TR	10	TR	2.4	D	·:-b.b1-:	D	5.0	D	<0.2	<0.2			
Molybdenum	µg/L µg/L	0.0				420						. 0.01		***			<8	•••		
Nickel	µg/L	4,600	TR	28,000	TR	28,000	TR	222		777	D	86	D	6,901	D	<10	444	<10	***	***
Selenium	ие/L	9,000	TR	7,000	TR	7,000	TR	50	TR	20.0	TR	2.6.	TR	33	TR		<3	· ∴ · ∴ · ≺3. · · · · · ·	1233	
Silver	µg/L	107,700	TR	7,000	TR	7,000	TR			10	D	***		9.7	D	< 0.1	<0.1	<0.1	***	923
Thallium	μg/L	7.2	TR	112	TR	112	TR			700	D	150	D	***		<2	<2		***	
Zinc	µg/L	69,000	TR	420,000	TR	420,000	TR	25,000	TR	195	D	196	D	1,847	D	<10	<10	<10	***	355
norganic Non-metallics		er mellom					_													
Asbestos	MFL	***				***		***		***		***								220
Boron	μg/L	***		126,000	TR	126,000	TR	***		***			***				<40	1989	(2000)	55
Bromide	µg/L					922		222		***					***		124	(464)	•••	927
Cyanide (free)	µg/L	215,000	TR	28,000	TR	28,000	TR	200	TR	41	TR	9.7	TR	84	TR		276	***		922
Fluoride	µg/L	***		84,000	T	84,000	T			•••							276 <100			
Nitrite (as N)	µg/L	242		140,000	T	140,000	T								***	100	<100			
Nitrate (as N)	μg/L			2,240,000	1 1	2.240,000	T										<200			***
Nitrate + Nitrite (as N)	μg/L	***	***										1				<500			
Orthophosphate Silica	μg/L μg/L		-		-						777		1	***			64,600	i leest		
Sulfide	идЛ.									100	. T			100.	T	***	∴∴<1000°	***		***
lajor Anions					-		_				-					en Usuares a				
Chloride	µg/L			***		***		***				***		(2775)			10,300			
Sulfate	µg/L					2220		***						***			20,100	***	100000	***
Carbonate (as CaCO ₃)	цg/L			***				***		***		***		(444)		***	<1000	***	()****	***
Bicarbonate (as CaCO ₃)	μg/L	-										***				***	208,000			
lajor Cations			_		_						_		_	_	_					
Calcium	µg/L			***		***		***		***	***	***		***		***	57,100	(
Magnesium	μg/L	•••		***						***		***				***	9,680	***	(***)	***
Potassium	μg/L			***													1,750 23,600	·		
Sedium	μg/L			III see	***	***	1					11/4/57			1		23,000			
Physical Properties		3.5	-	The same		4,0000	100	1230			1	Name of the last	T(See		Town.		208,000			
Alkalinity (total as CaCO ₃)	μgЛ.			***			***										182		9555	511
Hardness Total Dissaluad Salida	mg/L							277	-		1		1		1		320,000		1922	
Total Dissolved Solids	μg/L mg/L						-		-	80	T	80	T		1		11			
Total Suspended Solids Color	mg/L color units							***		***				***			<1	-		
Biologicals	ceres minis		-		To the last		-	-	_	-			_							
	MPN/100 ml					***	ļ			***							1,600			
Coliforms (total)	MPN/100 ml	***		235		576				***	1		1				50			

APPENDIX D BOX AND WHISKER PLOTS AND TIME SERIES GRAPHS

Key to Box and Whisker Plots



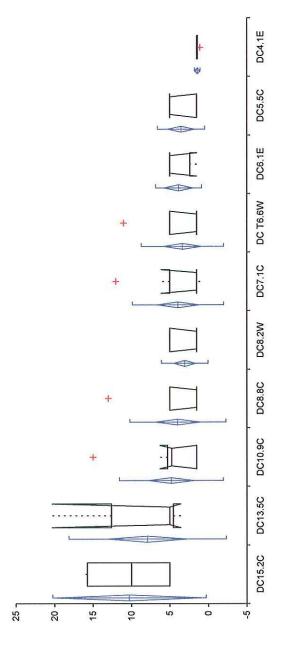
DEVILS CANYON

Test | Comparative descriptives

Variables Cu. DC15.2C, DC13.5C, DC10.9C, DC8.8C, DC8.2W, DC7.1C, DC T6.6W, DC6.1E, DC5.5C, DC4.1E

Performed by omorfin

21 June 2006 Date



[Cu] dissolved (ug/L)

Co	c	Mean	SD	SE	95% CI of Mean	Median	RO	95% CI of Median
DC15.2C	4	10.250	6:0759	3.0380	0.582 to 19.918	10.000	10.750	- to -
DC13.5C	00	7.888	6.2153	2.1974	2.691 to 13.084	2.000	8.050	3.600 to 20.300
DC10.9C	10	4.790	4.1057	1.2983	1.853 to 7.727	4.750	3.775	1.500 to 6.300
DC8.8C	თ	3.944	3.7951	1.2650	1.027 to 6.862	1.500	3.500	1.500 to 5.000
DC8.2W	o	3.056	1.8447	0.6149	1.638 to 4.473	1.500	3.500	1.500 to 5.000
DC7.1C	တ	3.906	3.6061	1.2020	1.134 to 6.677	1.500	3.500	1.500 to 6.100
DC T6.6W	တ	3.333	3.2500	1.0833	0.835 to 5.832	1.500	3.500	1.500 to 5.000
DC6.1E	Ø	3.833	1.8074	0.7379	1.937 to 5.730	2.000	2.625	1.500 to 5.000
DC5.5C	7	3.500	1.8708	0.7071	1.770 to 5.230	2.000	3.500	1.500 to 5.000
DC4.1E	4	1.388	0.2250	0.1125	1.029 to 1.746	1.500	0.113	- to -

DC10.9C

DC8.8C

(LU] (ug/L)

DC7.1C

(LQ) [ug/L)

Variables Dissolved Oxygen: DC15.2C, DC13.5C, DC10.9C, DC8.8C, DC8.2W, DC7.1C, DC T6.6W, DC6.1E, DC5.5C, DC4.1E

Performed by omorfin

5 May 2006

Date

DC4.1E DC5.5C DC T6.6W DC7.1C 12 -10 --2-0

Dissolved Oxygen (mg/L)

Dissolved Oxygen	_	Mean	SD	SE	95% CI of Mean	Median	IQR	95% CI of Median
DC15.2C	4	7.575	2.9714	1.4857	2.847 to 12.303	7.200	4.525	- to -
DC13.5C	80	8.919	1.7573	0.6213	7.450 to 10.388	8.150	3.533	7.180 to 11.000
DC10.9C	10	5.843	3.5276	1.1155	3.320 to 8.366	6.050	2.738	1.050 to 10.000
DC8.8C	10	7.256	2.1274	0.6727	5.734 to 8.778	6.850	1.733	5.050 to 9.400
DC8.2W	თ	5.942	1.0911	0.3637	5.104 to 6.781	5.890	1.200	5.200 to 6.900
DC7.1C	თ	8.616	1.9937	0.6646	7.083 to 10.148	8.800	1.700	6.900 to 10.000
DC T6.6W	10	4.484	3.2342	1.0227	2.170 to 6.798	3.930	3.113	1.600 to 6.300
DC6.1E	4	5.475	3.7214	1.8607	-0.447 to 11.397	6.950	3.175	- to -
DC5.5C	ω	7.863	2.8755	1.0166	5.459 to 10.266	7.350	4.100	4.600 to 13.000
DC4.1E	4	6.433	0.3691	0.1845	5.845 to 7.020	6.415	0.653	- to -

DC6.1E

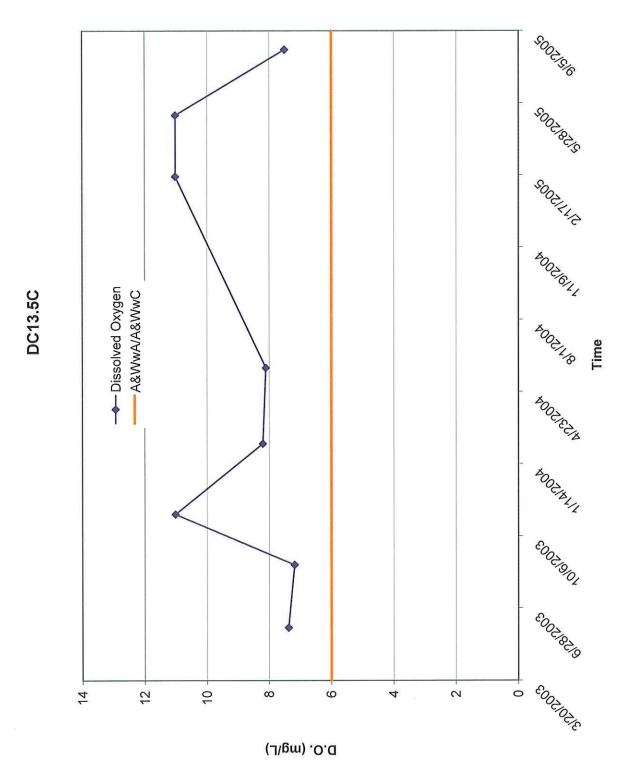
DC8.2W

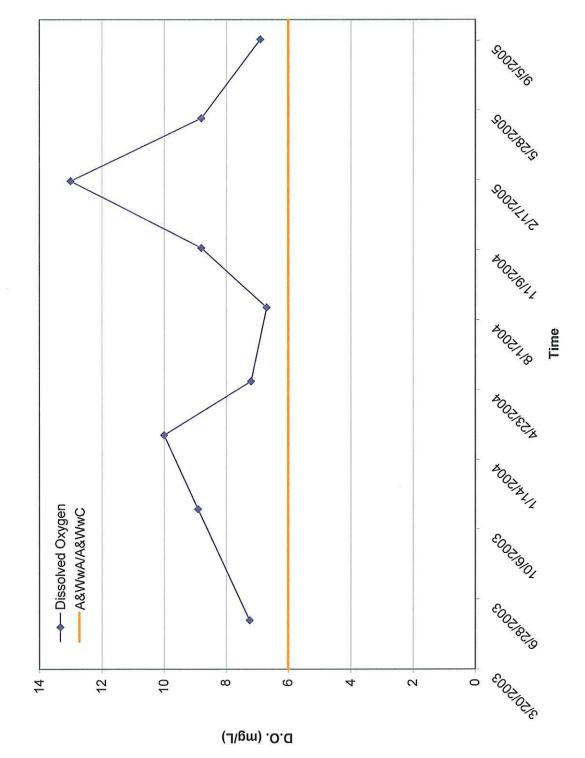
DC8.8C

DC10.9C

DC13.5C

DC15.2C





DC T6.6W

(J\gm) O.G

D.O. (mg/L)

JC4.1E

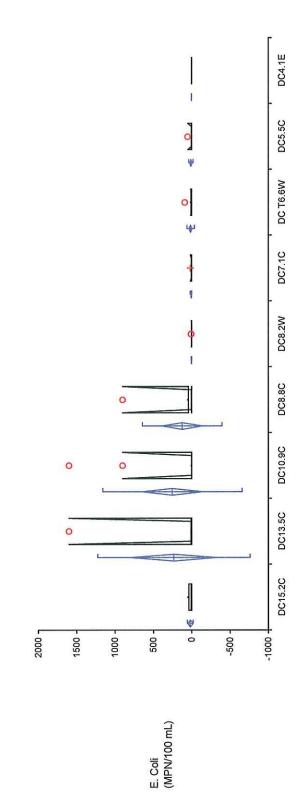
5 May 2006

Date

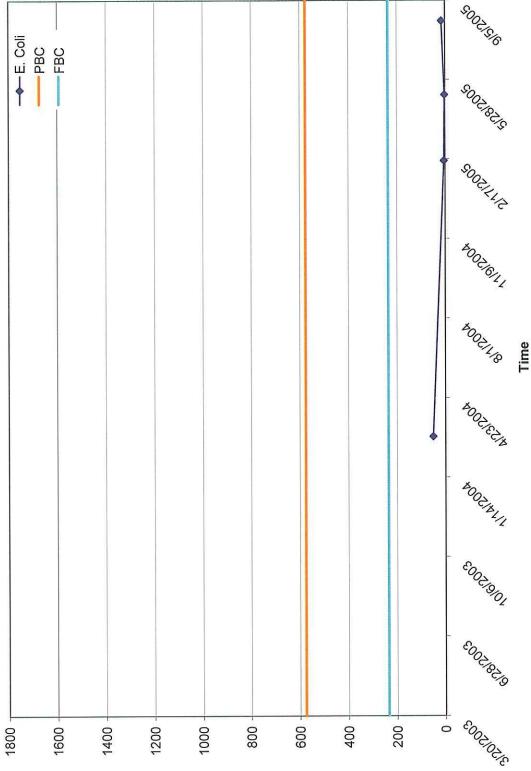
Test | Comparative descriptives

Variables E. Coli: DC15.2C, DC13.5C, DC10.9C, DC8.8C, DC8.2W, DC7.1C, DC T6.6W, DC5.5C, DC4.1E

Performed by omorfin

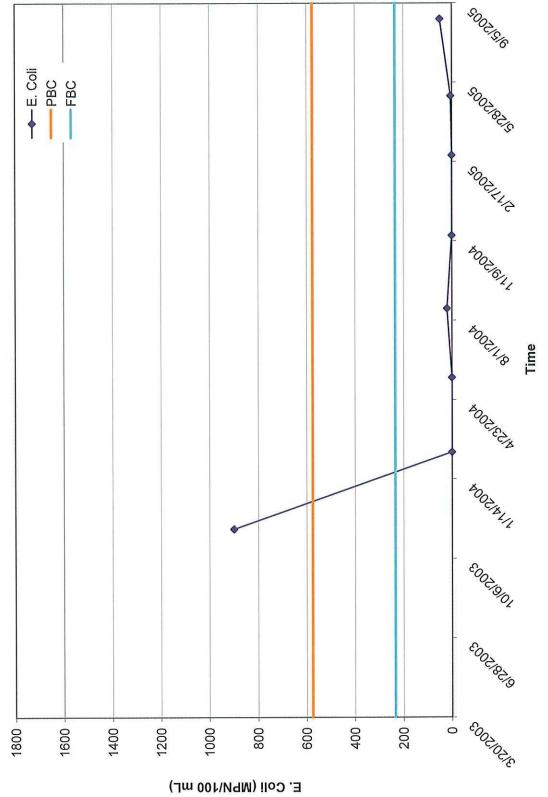


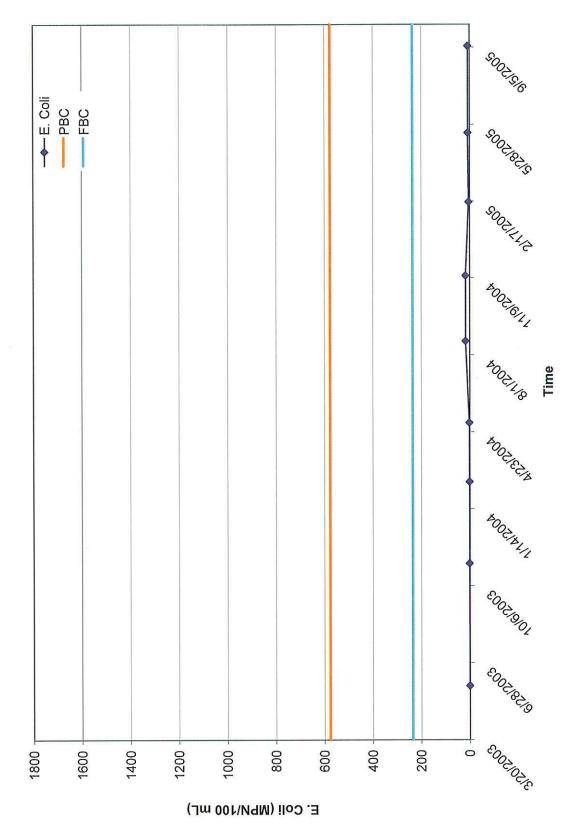
E. Coli	u	Mean	SD	SE	95% CI of Mean	Median	IQR	95% CI of Median
DC15.2C	4	17.250	22.5296	11.2648	-18.600 to 53.100	000.6	37.750	- to -
DC13.5C	7	231.571	603.4310	228.0755	-326.509 to 789.652	2.000	7.500	0.000 to 1600.000
DC10.9C	10	251.000	551.7663	174.4838	-143.710 to 645.710	1.000	1.500	0.000 to 900.000
DC8.8C	∞	122.875	314.4703	111.1820	-140.029 to 385.779	4.000	42.000	1.000 to 900.000
DC8.2W	10	2.400	2.5906	0.8192	0.547 to 4.253	2.000	1.000	0.000 to 6.000
DC7.1C	တ	6.222	6.6102	2.2034	1.141 to 11.303	4.000	000.9	1.000 to 17.000
DC T6.6W	တ	13.333	29.0603	9.6868	-9.004 to 35.671	2.000	7.000	1.000 to 13.000
DC5.5C	∞	8.625	16.8602	5.9610	-5.471 to 22.721	2.500	5.250	1.000 to 50.000
DC4.1E	4	0.500	0.5774	0.2887	-0.419 to 1.419	0.500	1.000	- to -



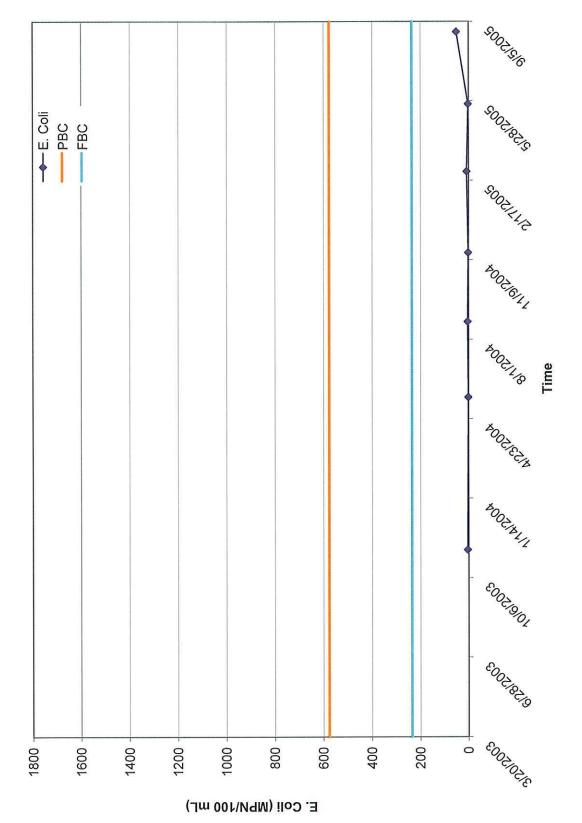
E. Coli (MPN/100 mL)

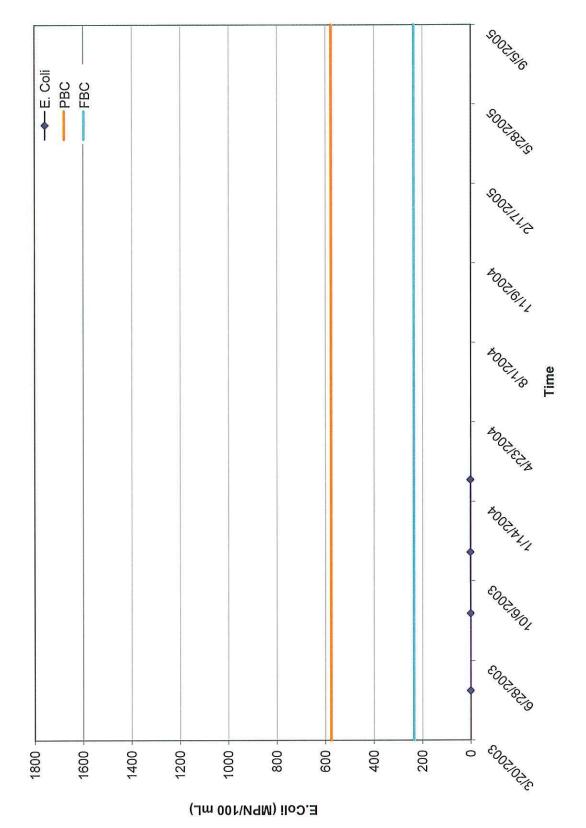
E. Coli (MPN/100 mL)





DC T6.6W

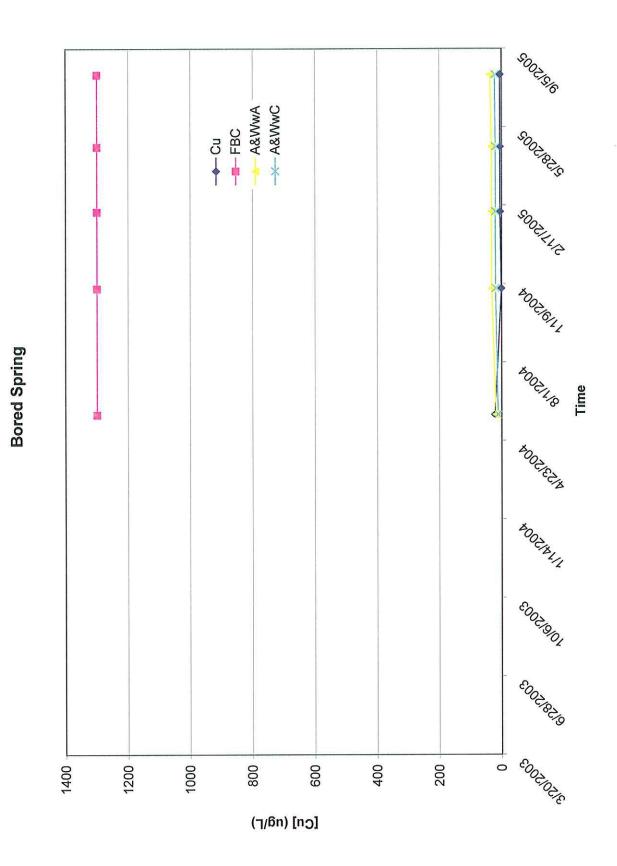


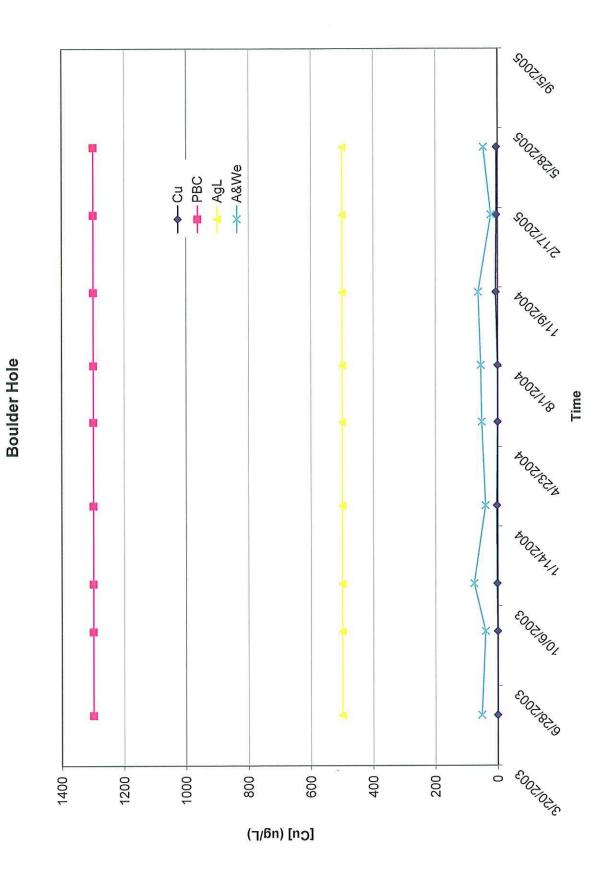


QUEEN CREEK

Test | Comparative descriptives

Date 20 June 2006		ulder Hole	3.500 - to - 2.675 1.500 to 5.000 0.875 1.500 to 5.000 - to - 2.000 1.500 to 5.000 3.500 1.500 to 5.000
		- - -	5.000 3 3.750 2 1.500 0 5.000 0 1.500 2 3.300 3
Cu: Blue Spring, Kane Spring, Hidden Spring, Bored Spring, Pump Station, Boulder Hole omorfin	0		95% CI of Mean 1.220 to 5.980 2.245 to 4.780 1.269 to 3.741 -2.437 to 17.877 1.517 to 3.883 1.818 to 4.982
pring, Bored Spring	+	-	\$6 0.8573 50 0.5360 73 0.5462 03 3.6583 0.5228 33 0.6862
ane Spring, Hidden S		Kane	3.600 1.9170 3.513 1.5160 2.505 1.7273 7.720 8.1803 2.700 1.6533 3.400 2.0585
Cu: Blue Spring, Ka omorfin	25 - 20 - 10 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 -	Blue Sprin	n 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Variables Performed by	[Cu] dissolved (ug/L)		Blue Spring Kane Spring Hidden Spring Bored Spring Pump Station Boulder Hole





X-A&We → Cu PBC -AgL 200 1200 1000 800 009 400 1400 (LQ) [ug/L)

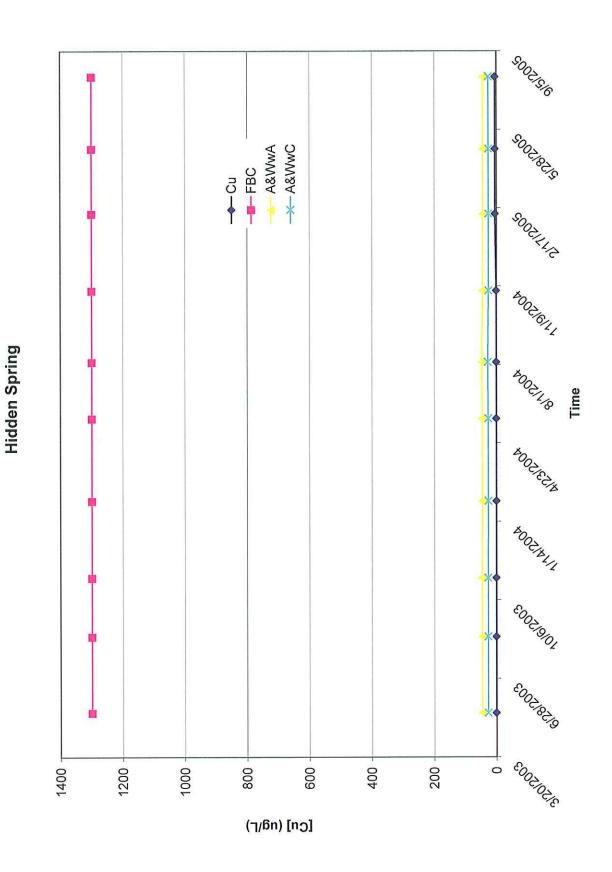
Queen Creek 27.3

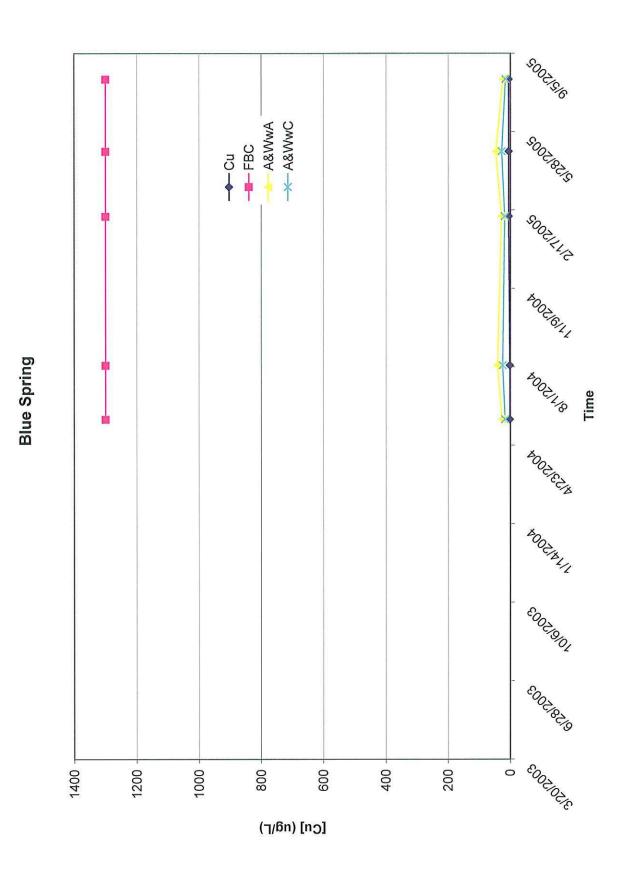
Cu PBC AgL A&We + cooperate 200 1400 -1200 1000 800 009 400 (LQ) [ug/L)

Pump Station

Cu FBC A&WWA A&WWA *002/6/1/ (J\gu) [u9]

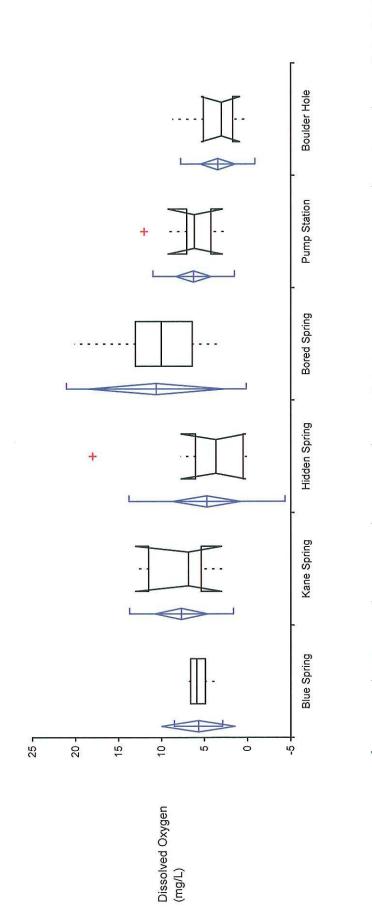
Kane Spring



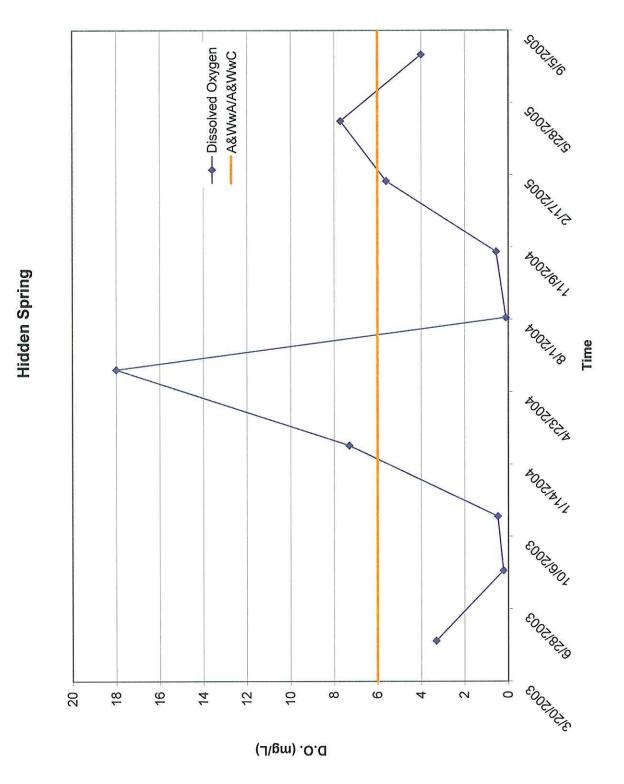


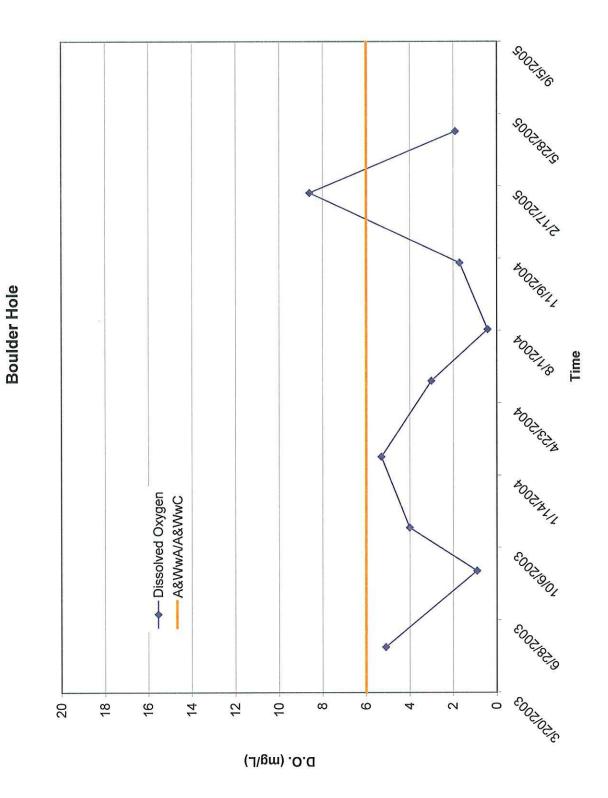
g, Pump Station, Boulder Hole	Date 8 June 2006	
Dissolved Oxygen: Blue Spring, Kane Spring, Hidden Spring, Bored Spring	omorfin	
Variables	Performed by	

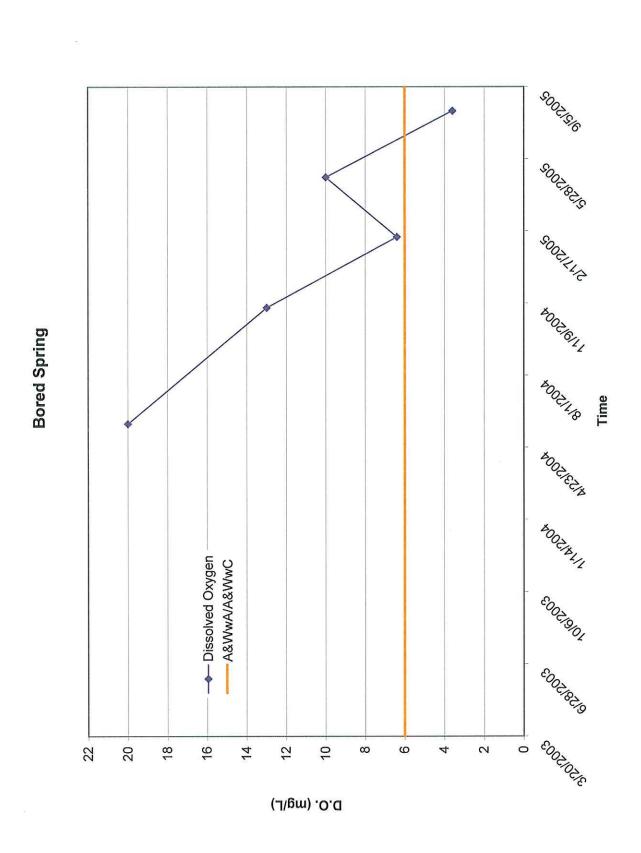
Test | Comparative descriptives

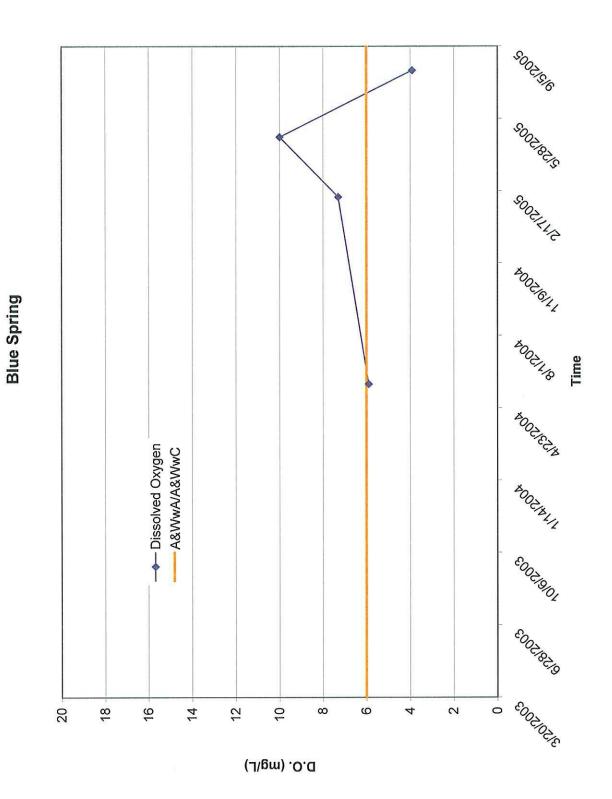


Dissolved Oxygen	L	Mean	SD	SE	95% CI of Mean	Median	IQR	95% CI of Median
Blue Spring	က	2.700	1.7088	0.9866	1.455 to 9.945	2.900	1.700	- to -
Kane Spring	∞	7.675	3.6625	1.2949	4.613 to 10.737	6.850	6.125	3.000 to 13.000
Hidden Spring	10	4.727	5.4974	1.7384	0.794 to 8.660	3.650	5.525	0.220 to 7.700
Bored Spring	2	10.600	6.3467	2.8383	2.720 to 18.480	10.000	0.600	- to -
Pump Station	10	6.250	2.8710	0.9079	4.196 to 8.304	6.150	2.825	2.900 to 9.200
Boulder Hole	o	3.436	2.6057	0.8686	1.433 to 5.439	3.000	3.400	0.900 to 5.300



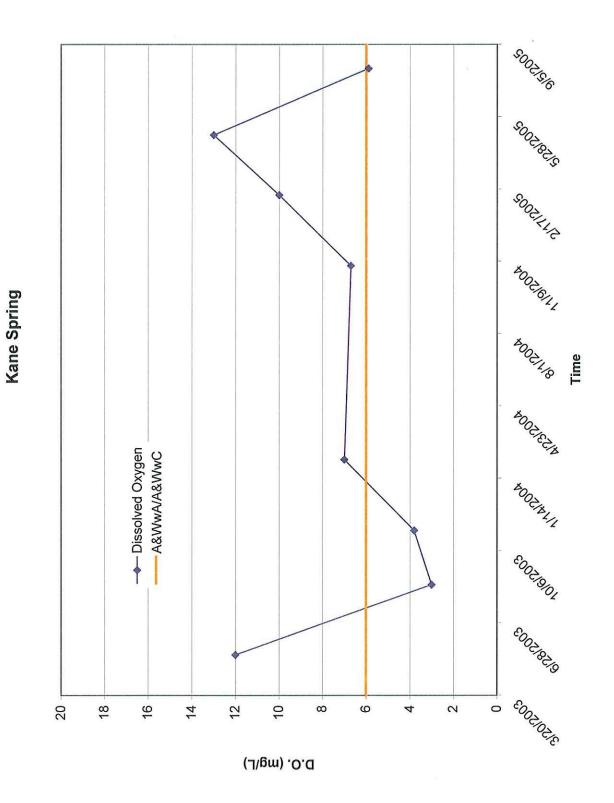






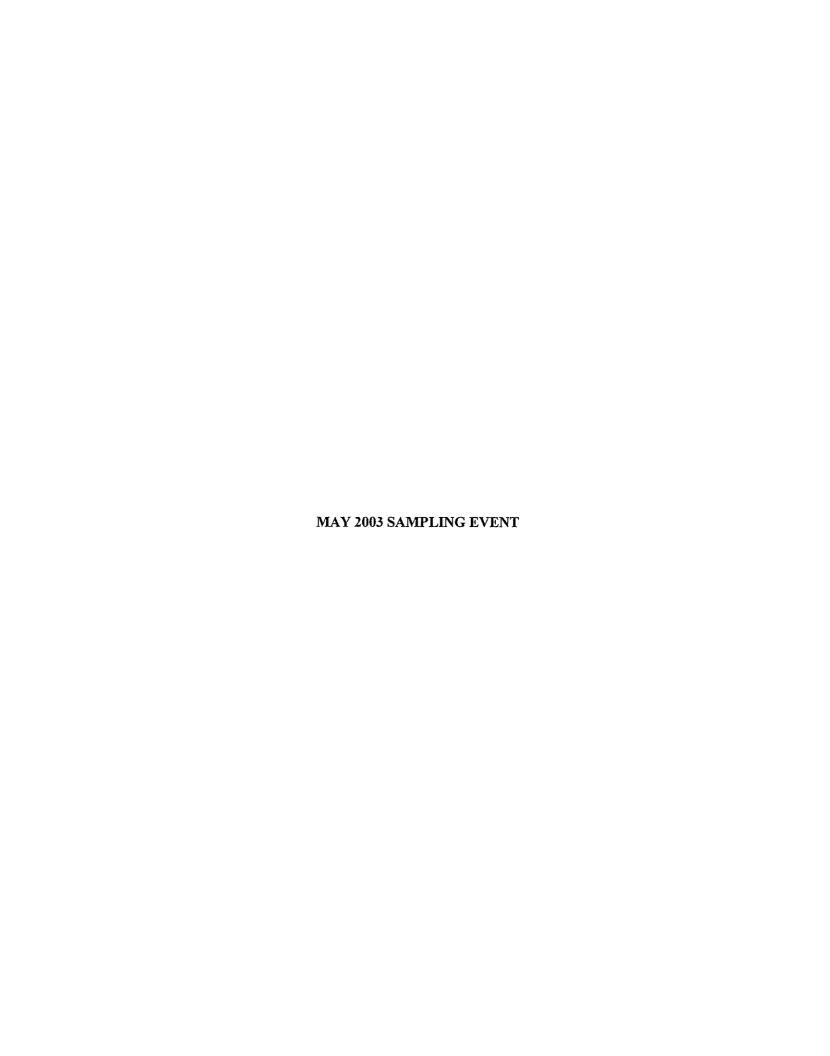
Dissolved Oxygen
A&WwA/A&WwC - cochock 10 20 18 16 12 N 14 ω 9 4 D.O. (mg/L)

Pump Station



Queen Creek 27.3

APPENDIX E DATA VALIDATION REPORTS





June 2, 2006

Dr. Casey McKeon Resolution Copper Company 47206 North Magma Shaft #9 Road Superior, Arizona 85273

RE: ITSI DATA VALIDATION REPORT

RESOLUTION COPPER

PURCHASE ORDER NO. H00414

SDG 106003

Dear Dr. McKeon:

Innovative Technical Solutions, Inc. (ITSI) has completed the data review for Resolution Copper Company (RCC) for its surface water baseline resource investigation. ITSI performed data review as described in the U.S. Environmental Protection Agency's (EPA) Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, October 2004; the Quality Assurance Plan Surface Water Baseline Resource Investigation for Resolution Copper Company, January 23, 2006; and using criteria in the referenced methods.

The acronym listing is included as Appendix A. Data review qualifiers have been marked in red directly on the analytical reports provided by the laboratory and are attached as Appendix B. A summary of all qualified data is provided in a qualified results table (QRT) as Appendix C. Laboratory communications are provided as Appendix D. The ITSI standard legal notice is provided as Appendix E.

1.0 CROSS REFERENCE OF SAMPLES VERIFIED

The analytical data in the laboratory Sample Delivery Group (SDG) indicated below were reviewed. This SDG contained data for the following methods and compounds.

Metals

- Inductively coupled plasma (ICP) metals by EPA Method 200.7
- Cold vapor atomic absorption (CVAA) mercury by EPA Method 245.1
- Atomic absorption (AA), furnace technique for antimony (EPA Method 204.2), arsenic (EPA Method 206.2), cadmium (EPA Method 213.2), lead (EPA Method 239.2), selenium (EPA Method 270.2), silver (EPA Method 272.2) and thallium (EPA Method 279.2)

- General Chemistry Methods
 - Alkalinity, CaCO3 by Standard Method (SM) 2320B
 - Cyanide-free by EPA SM 4500F
 - Ion chromatography (IC) anions by EPA Method 300.0
 - Sulfide by EPA 376.1
 - Total dissolved solids (TDS) by EPA Method 160.1
 - Total Settable Solids (TSS) by EPA Method 160.2

The samples were analyzed by SVL Analytical of Kellogg, Idaho (SVL). The table below provides an analytical summary and cross reference for the sample(s). All samples underwent a level 2 data validation.

Field Sample ID	SVL SDG	Туре	Sample Matrix	Metals	General Chemistry
RESE-1001009	W334213	Total	Water	X	Х
RESE-1001010	W334214	Total	Water	X	X
RESE-1001011	W334215	Total	Water	Х	X
RESE-1001012	W334216	Total	Water	X	X
RESE-1001013	W334217	Total	Water	Х	X
RESE-1001009	W334218	Dissolved	Water	X	
RESE-1001010	W334219	Dissolved	Water	X	
RESE-1001011	W334220	Dissolved	Water	X	
RESE-1001012	W334221	Dissolved	Water	X	
RE\$E-1001013	W334222	Dissolved	Water	Х	
RESE-1001009	W334534	Total Recoverable	Water	X	
RESE-1001010	W334535	Total Recoverable	Water	X	
RESE-1001011	W334536	Total Recoverable	Water	X	
RESE-1001012	W334537	Total Recoverable	Water	Х	
RESE-1001013	W334538	Total Recoverable	Water	X	

2.0 LABORATORY REPORT

The laboratory used data qualifier flags that are addressed in Section 4.0 to indicate quality control (QC) exceedences. There were no anomalies in the case narrative except as noted below.

"SVL not certified for cyanide-free (Method 4500F) in AZ."

3.0 SAMPLE INTEGRITY

The chains-of-custody (COC) were available for review. There was one anomaly concerning the temperature of the samples upon receipt at the laboratory. Any qualification of the data due to the temperature anomaly is discussed for each method in section 4.0.



4.0 DATA EVALUATION

4.1 ICP METALS BY EPA METHOD 200.7 AND AA METALS BY EPA METHODS 204.2, 206.2, 213.2, 239.2, 270.2, 272.2 AND 279.2

4.1.1 Sample Receipt and Holding Times

The samples were extracted and analyzed within the method-recommended holding time. There were no anomalies concerning the receipt of the samples that required qualification of the data.

4.1.2 Blank Evaluation

Preparation and calibration blanks were analyzed to assess laboratory contamination. The same preparation blank is associated with all total dissolved and total recoverable metal analyses. There were no anomalies in the reported blanks that required qualification of the data.

4.1.3 Initial and Continuing Calibration

The initial and continuing calibration data and summaries were reviewed. All calibration standards were analyzed at the proper frequency and met the method or Quality Assurance Project Plan (QAPP) criteria except as noted below.

• The percent recoveries for arsenic were out of the criteria of 90 to 100 percent in the continuing calibrations associated with all total metal samples and dissolved metal sample RESE-1001009. Since the recovery was biased low, the associated positive results have been flagged "J" for an estimated value and the non-detect results have been flagged "UJ" for an estimated reporting limit (RL).

4.1.4 Second Source Calibration Verification (SSCV)

The SSCVs were reviewed. There were no anomalies that required qualification of the data.

4.1.5 Laboratory Control Samples (LCS)/Laboratory Control Samples Duplicate (LCSD)

A single LCS was analyzed for all of the total, dissolved and total recoverable metal samples. There were no anomalies that required qualification of the data.

4.1.6 Matrix Spike (MS)/Matrix Spike Duplicate (MSD) and Duplicate Samples

An MS and sample duplicate were analyzed for each metal analysis. There were no anomalies that required qualification of the data except as noted below.



3

• The percent recovery for antimony was out of the QAPP criteria of 86 to 115 percent at 80 percent in the MS associated with the total recoverable metal analysis. Since the recovery indicated a low bias and the LCS recoveries were acceptable, only the results in the spiked sample RESE-1009009, which was non-detect, has been flagged "UJ" for an estimated RL.

4.1.7 Detection Limit Check Standard (CRDL)

A CRDL check standard was analyzed prior to the samples analysis. There were no anomalies that required qualification of the data except as noted below.

• The percent recoveries for calcium, copper, iron and manganese were out of the criteria of 70 to 130 percent at 64, 60, 67 and 60 percent, respectively, in the CRDL associated with the ICP analysis of all the metal fractions. The associated results that were less than two times the RL have been flagged "J-" for an estimated result with a low bias. The non-detect results have been flagged "UJ" for an estimated RL.

4.1.8 Serial Dilution

A serial dilution was performed on a sample from this SDG to check for physical or chemical interferences in the sample matrix. There were no anomalies that required qualification of the data except as noted below.

• The percent difference for silica was out of the criteria of less than 10 percent at 11 percent in the serial dilution associated with the total metal analysis. The associated positive results have been flagged "J" for an estimated value. No qualifier flags are required for the non-detect results.

4.1.9 Practical Quantitation Limits (PQLs) and Compound Quantitation

The laboratory PQLs and results were reviewed. There were no quantitation anomalies except as noted below.

• The laboratory PQL for total potassium is 1.0 mg/L, which is greater than the QAPP criteria of 0.50 mg/L. Since there is no Arizona Surface Water Standard for potassium, the data are useable for their intended purpose.

4.1.10 Instrument Performance

The interference check sample was reviewed. There were no anomalies that required qualification of the data.



4.1.11 Field Duplicate Samples

Field duplicate samples were not identified

4.1.12 Assessment for Metals

There were no rejected metal analytical results. Based on the available information, the data as qualified are considered useable for their intended purposes.

4.2 GENERAL CHEMISTRY METHODS

4.2.1 Sample Receipt and Holding Times

There were no anomalies concerning the receipt of the samples or holding time that required qualification of the data except as noted below.

- The temperatures of the samples upon receipt at the laboratory were out of the criteria of 4 ± 2 degrees Celsius (°C) at 7 °C and 8 °C. The associated results for alkalinity, TDS, TSS, cyanide, sulfate and sulfide have either been flagged "J" for an estimated value or "UJ" for an estimated RL. No data qualifiers are required for the chloride, bromide and fluoride results.
- The samples were analyzed three or four days past the holding time of 14 days for alkalinity. The associated positive results have been flagged "J" for an estimated value, and the non-detect results have been flagged "UJ" for an estimated RL.

4.2.2 Blank Evaluation

Method blanks were analyzed to assess laboratory contamination. There were no anomalies in the reported blanks that required qualification of the data.

4.2.3 Initial and Continuing Calibration Evaluation

The laboratory case narrative and laboratory data flags did not indicate any anomalies concerning the calibration that required qualification of the data. The calibration data and summaries were reviewed for the level 2 data validation. All initial and continuing standards were analyzed at the proper frequency, and the standards met the method or QAPP criteria.

4.2.4 SSCV

The SSCVs were reviewed. There were no anomalies that required qualification of the data.



4.2.5 LCS/LCSD

A single LCS was reported for each analysis. There were no anomalies that required qualification of the data.

4.2.6 MS/MSD and Duplicate Samples

MS and/or sample duplicates were analyzed for each analysis except sulfide. There were no anomalies that required qualification of the data.

4.2.7 PQLs and Compound Quantitation

The laboratory PQLs and results were reviewed. There were no quantitation anomalies that required qualification of the data.

4.2.8 Field Duplicate Samples

Field duplicate samples were not identified.

4.2.9 Assessment for General Chemistry

There were no rejected general chemistry analytical results. Based on the available information, the data as qualified are considered useable for their intended purposes.

5.0 OVERALL ASSESSMENT FOR SDG

There were no rejected analytical results in this SDG. Based on the available information, the data as qualified are considered useable for their intended purposes.

6.0 RECOMMENDATIONS

ITSI has the following recommendations.

- The laboratory should analyze an MSD or LCSD with each method to ensure that the
 analytical batch has precision in the event that the sample duplicate fails or the results of
 the original sample and the sample duplicate are non-detect.
- The laboratory should provide measurement of precision for the sulfide analysis.
- The laboratory should dry and weigh all samples for TDS and TSS until a constant weight is obtained or the weight loss is less than 0.5 milligrams (mg).



We thank you for the opportunity to serve you and look forward to supporting RCC with data verification in the future.

Sincerely,

Innovative Technical Solutions, Inc.

Evelyn H. Dawson Senior Project Chemist

Enclosures:

Appendix A-List of Acronyms and Abbreviations

Appendix B - Qualified Report Pages

Appendix C - Qualified Results Table

Appendix D - Laboratory Communications

Appendix E - ITSI Standard Legal Notice

cc: John Malusa Golder Associates, Inc. 4730 North Oracle Road, Suite 210 Tucson, Arizona, 85705



APPENDIX A LIST OF ACRONYMS AND ABBREVIATIONS

LIST OF ACRONYMS AND ABBREVIATIONS

°C degrees Celsius COC chain-of-custody

CRDL Detection Limit Check Standard

AA atomic absorption

CVAA cold vapor atomic absorption

EPA U.S. Environmental Protection Agency

IC ion chromatography

ICP inductively coupled plasma

ITSI Innovative Technical Solutions, Inc.

LCS/LCSD laboratory control samples/laboratory control samples duplicate

MS/MSD matrix spike/matrix spike duplicate

PQL practical quantitation limit
QAPP Quality Assurance Project Plan

QC quality control

QRT qualified results table

RCC Resolution Copper Company

RL reporting limit

SDG Sample Delivery Group

SM Standard Method

SSCV Second Source Calibration Verification

SVLSVL AnalyticalTDSTotal Dissolved SolidsTSSTotal Settable Solids

LIST OF VALUE FLAGS

J estimated value

J- estimated value, low bias
J+ estimated value, high bias
R rejected, not useable

U not detected

UJ estimated reporting limit rejected, unusable RL



APPENDIX B QUALIFIED REPORT PAGES

One Government Gulich # P.O. Box 929

Kellogg, Idaho 83837-0929

Phone: (208)784-1258 • Fax: (208)783-0891

CLIENT: Resolution Copper Company PROJECT: 033-2504.2

CLIENT SAMPLE ID: RESE-1001009

Sample Collected: Sample Receipt : 5/29/03 6/03/03

Date of Report : 6/18/03

SVL JOB: 106003 SAMPLE: 334213

T/D/TR

Matrix: WATERS

	Determination	Result	Units	Dilution	Method	Analyzed	
T	Alkalinity, CaCO3	148	mg CaCO3/L		2320	6/16/03	J
T	CO3, CaCO3	<1.0	mg CaCO3/L		2320	6/16/03	J
T	нсо3, CaCO3	148	mg CaCO3/L		2320	6/16/03	J
Ī	TDS	199	mg/L		160.1	6/05/03	J
T	TSS	<5.0	mg/L		160.2	6/05/03	5
Ţ	Calcium	31.2	mg/L		200.7	6/09/03	
T	Chloride	7.92	mg/L		300.0	6/12/03	1
Т	CYANIDE - FREE	<0.10	mg/L		4500F	6/09/03	J
Î	Hardness	106	mg CaCO3/L		200.7	6/09/03	Į.
Ī	Potassium	2.4	mg/L		200.7	6/09/03	ł
T	Magnesium	6.72	mg/L		200.7	6/09/03	
T	Sodium	21.7	mg/L		200.7	6/09/03	
Ť	Sulfide	<1.0	mg/L		376.1	6/05/03	1
r	Sulfate, SO4	0.92	mg/L		300.0	6/12/03	J
Ť	Silver	<0.00010			272.2	6/09/03	
T	Aluminum	<0.020	mg/L		200.7	6/09/03	1
T	Arsenic	0.0090	mg/L		206.2	6/10/03	1
Ť	Beryllium	<0.0020	mg/L		200.7	6/09/03	
Ť	Cadmium	<0.00010			213.2	6/09/03	l
Ť	Cobalt	<0.0060			200.7	6/09/03	
r	Copper	<0.0030	mg/L		200.7	6/09/03	-
T	Iron	0.206	mg/L		200.7	6/09/03	i
Ţ	Mercury	<0.00020			245.1	6/13/03	
Ť	Molybdenum	<0.0080	mg/L		200.7	6/09/03	
T	Lead	<0.0050	mg/L		200.7	6/09/03	
Ť	Antimony	<0.0030	mg/L		204.2	6/10/03	
T	Selenium	<0.0030	mg/L		270.2	6/09/03	
T	Silica	51.5	mg/L		200.7	6/09/03	J
T	Zinc	<0.0050	mg/L		200.7	6/09/03	¯
D	Bromide	0.15	mg/L		300.0	6/12/03	
Ď	Fluoride	0.21	mg/L		300.0	6/12/03	
D	Silver	<0.00010			272.2	6/09/03	
D	Arsenic	0.0080	mg/L		206.2	6/10/03	J
D	Boron	<0.040	mg/L		200.7	6/09/03	"
Ď	Barium	0.0246	mg/L	•	200.7	6/09/03	١.
D	Beryllium	<0.0020	mg/L		200.7	6/09/03	
	CalcTDS: 225.2	TDS/Conc		CATION SUM: ANION SUM:	3.12meq/L 3.21meq/L		

Filtered fraction: 334218

Reviewed By:___

All sear

SVL ANALYTICAL, INC. P.O. Box 929

One Government Gulch .

Kellogg, Idaho 83837-0929

Phone: (208)784-1258

Certificate: AZ AZOS38 Fax: (208)783-0891

CLIENT: Resolution Copper Company

PROJECT: 033-2504.2

CLIENT SAMPLE ID: RESE-1001009

5/29/03 Sample Collected:

Sample Receipt : Date of Report : 6/03/03 6/18/03 SVL JOB: 106003

SAMPLE: 334218

T/D/TR

Matrix: WATERS

		Determination	Result	Units	Dilution	Method	Analyzed	_
	D	Cadmium	<0.00010	mg/L		213.2	6/09/03]
	D	Copper	<0.0030	mg/L		200.7	6/09/03	J
	Ď	Mercury	<0.00020	mg/L		245.1	6/13/03	
ĺ	D	Nickel	<0.010	mg/L		200.7	6/09/03	
	D	Lead	<0.0030	mg/L		239.2	6/09/03	
	D	Antimony	<0.0030	mg/L		204.2	6/10/03	
	Þ	Thallium	<0.0020	mg/L		279.2	6/10/03	
	D	Zinc	<0.0050	mg/L		200.7	6/09/03	
	TR	Silver	<0.00010	mg/L		272.2	6/09/03	
	TR	Arsenic	0.0090	mg/L		206.2	6/10/03	
	TR	Beryllium	<0.0020	mg/L		200.7	6/09/03	
	TR	Cadmium	<0.00010	mg/L		213.2	6/09/03	
	TR	Chromium	<0.0060	mg/L		200.7	6/09/03	
	TR	Copper	<0.0030	mg/L		200.7	6/09/03	J
١	TR	Manganese	0.137	mg/L		200.7	6/09/03	ļ
- 1	TR	Nickel	<0.010	mg/L		200.7	6/09/03	
ı	TR	Lead	<0.0030	mg/L		239.2	6/09/03	
	TR	Antimony	<0.0030	mg/L		204.2	6/10/03	15
		Selenium	<0.0030	mg/L		270.2	6/09/03	
	TR	Thallium	<0.0020	mg/L		279.2	6/10/03	
	TR	Zinc	<0.0050	mg/L		200.7	6/09/03	

Tot.Rec. fraction: 334534

M3(SIO2) THE ACCURACY OF THE SPIKE RECOVERY VALUE IS REDUCED SINCE THE ANALYTE CONCENTRATION IN THE SAMPLE IS DISPROPORTIONATE TO SPIKE LEVEL. THE METHOD CONTROL SAMPLE RECOVERY WAS ACCEPTABLE.

M5 (AS, SB, SE) ANALYTE CONCENTRATION WAS DETERMINED BY THE METHOD OF STANDARD ADDITION H1 (ALK, CO3, HCO3) SAMPLE ANALYSIS PERFORMED PAST HOLDING TIME SVL NOT CERTIFIED FOR CYANIDE-FREE (METHOD 4500F) IN AZ

Reviewed	By:	Alk kaw	_Date_	8/23/03	
				9/23/03 1	12:36

Certificate: AZ AZ0538

Phone: (208)784-1258 • Fax: (208)783-0891

SVL ANALYTICAL, INC. One Government Gulch . P.O. Box 929 .

SVL JOB: 106003 SAMPLE: 334214 CLIENT: Resolution Copper Company

PROJECT: 033-2504.2 CLIENT SAMPLE ID: RESE-1001010 T/D/TR

Kellogg. Idaho 83837-0929 =

Sample Collected: 5/29/03 Matrix: WATERS

Sample Receipt : 6/03/03 Date of Report : 6/18/03

	Determination	Result	Units	Dilution	Method	Analyzed	_
T	Alkalinity, CaCO3	156	mg CaCO3/L		2320	6/16/03	্য
T	CO3, CaCO3	<1.0	mg CaCO3/L		2320	6/16/03	नवन्त
T	HCO3, CaCO3	156	mg CaCO3/L		2320	6/16/03	15
T	TDS	258	mg/L		160.1	6/05/03	J
T	TSS	<5.0	mg/L		160.2	6/05/03	7
T	Calcium	32.7	mg/L		200.7	6/09/03	
T	Chloride	7.85	mg/L		300.0	6/12/03	
T	CYANIDE - FREE	<0.10	mg/L		4500F	6/09/03	ゴ
T	Hardness	113	mg CaCO3/L		200.7	6/09/03	İ
T	Potassium	1.6	mg/L		200.7	6/09/03	1
Ť	Magnesium	7.70	mg/L	•	200.7	6/09/03	
T	Sodium	26.6	mg/L		200.7	6/09/03	
T	Sulfide	<1.0	mg/L		376.1	6/05/03	J
T	Sulfate, SO4	7.09	mg/L		300.0	6/12/03	5
Ť	Silver	<0.00010			272.2	6/09/03	,
Î	Aluminum	0.052	mg/L		200.7	6/09/03	
Ť	Arsenic	0.0040	mg/L		206.2	6/10/03	J
Ť	Beryllium	<0.0020	mg/L		200.7	6/09/03	
Ť	Cadmium	<0.00010			213.2	6/09/03	1
Ť	Cobalt	<0.0060	mg/L		200.7	6/09/03	1
Ť	Copper	<0.0030	mg/L		200.7	6/09/03	3
T	Iron	0.061	mg/L		200.7	6/09/03	-3
T	Mercury	<0.00020			245.1	6/13/03	
		<0.00020	mg/L		200.7	6/09/03	1
T	Molybdenum	<0.0050			200.7	6/09/03	
Ţ	Lead		mg/L mg/L		204.2	6/10/03	
T	Antimony	<0.0030		2			
T	Selenium	<0.0060	mg/L	4	270.2	6/09/03	5
T	Silica	83.1	mg/L		200.7	6/09/03	J
T	Zinc	<0.0050	mg/L	~~ <u>waxaa</u>	200.7	6/09/03	
D	Bromide	<0.10	mg/L		300.0	6/12/03	
D	Fluoride	0.42	mg/L		300.0	6/12/03	
D	Silver	<0.00010			272.2	6/09/03	1
D	Arsenic	0.0040	mg/L		206.2	6/10/03	ļ
D	Boron	<0.040	mg/L		200.7	6/09/03	l
D	Barium	0.0238	mg/L	9	200.7	6/09/03	1
D	Beryllium	<0.0020	mg/L		200.7	6/09/03	
***************************************	CalcTDS: 283.1	TDS/Cond	1:	CATION SUM:	3.47meq/L	BALANCE	1
רויוי	S/CalcTDS: 0.9	CalcTD\$/Cond		ANION SUM:	3.51meg/L	-0.57%	

12.4	٩	٠.		fra	لدمقيص	A	2.2	421	0
H' 1	.l	T O	ron	TYA	7.7	OTT :		4 /	

Michour Date Reviewed By:

> PC ITI 6/2/04

Kellogg, Idaho 83837-0929 One Government Gulch . P.O. Box 929

Phone: (208)784-1258 - Fax: (208)783-0891

Certificate: AZ AZ0538

CLIENT: Resolution Copper Company

PROJECT: 033-2504.2

CLIENT SAMPLE ID: RESE-1001010

Sample Collected: 5/29/03 Sample Receipt : 6/03/03

Date of Report 6/18/03 SVL JOB: 106003

SAMPLE: 334219 T/D/TR

Matrix: WATERS

Determination	Result	Units	Dilution	Method	Analyzed
D Cadmium	<0.00010	mg/L		213.2	6/09/03
D Copper	<0.0030	mg/L		200.7	6/09/03
D Mercury	<0.00020	mg/L		245.1	6/13/03
D Nickel	<0.010	mg/L		200.7	6/09/03
D Lead	<0.0030	mg/L		239.2	6/09/03
D Antimony	<0.0030	mg/L		204.2	6/10/03
D Thallium	<0.0020	mg/L		279.2	6/10/03
D Žinc	<0.0050	mg/L		200.7	6/09/03
TR Silver	<0.00010	mq/L		272.2	6/09/03
TR Arsenic	0.0030	mg/L		206.2	6/10/03
TR Beryllium	<0.0020	mg/L		200.7	6/09/03
TR Cadmium	<0.00010			213.2	6/09/03
TR Chromium	<0.0060	mg/L		200.7	6/09/03
TR Copper	<0.0030	mg/L		200.7	6/09/03
TR Manganese	0.0086	mg/L		200.7	6/09/03
TR Nickel	<0.010	mg/L		200.7	6/09/03
TR Lead	<0.0030	mg/L		239.2	6/09/03
TR Antimony	<0.0030	mg/L	•	204.2	6/10/03
TR Selenium	<0.0060	mg/L	2	270.2	6/09/03
TR Thallium	<0.0020	mg/L		279.2	6/10/03
TR Zinc	<0.0050	mg/L		200.7	6/09/03

Tot.Rec. fraction: 334535

M3(SIO2) THE ACCURACY OF THE SPIKE RECOVERY VALUE IS REDUCED SINCE THE ANALYTE CONCENTRATION IN THE SAMPLE IS DISPROPORTIONATE TO SPIKE LEVEL. THE METHOD CONTROL SAMPLE RECOVERY WAS ACCEPTABLE.

M5 (AS, SB, SE) ANALYTE CONCENTRATION WAS DETERMINED BY THE METHOD OF STANDARD ADDITION D1 (SE) SAMPLE REQUIRED DILUTION DUE TO MATRIX INTERFERENCE.

H1 (ALK, CO3, HCO3) SAMPLE ANALYSIS PERFORMED PAST HOLDING TIME SVI, NOT CERTIFIED FOR CYANIDE-FREE (METHOD_4500F) IN AZ

Reviewed	By:	He rew-	Date	9/23/0	5
	_			9/23/03	12:36

0 17 10+

Certificate: AZ AZ0538 One Government Gulch . P.D. Box 929 Kellogg, Idaho 83837-0929 Phone: (208)784-1258 Fax: (208)783-0891

CLIENT: Resolution Copper Company PROJECT: 033-2504.2 SVL JOB: 106003 SAMPLE: 334215 T/D/TR

CLIENT SAMPLE ID: RESE-1001011

Sample Collected: 5/30/03

Sample Receipt : 6/03/03 Matrix: WATERS Date of Report : 6/18/03

		Determination	Result	Units	Dilution	Method	Analyzed	
***************************************	T T	Alkalinity, CaCO3 CO3, CaCO3	<1.0	mg CaCO3/	L	2320 2320	6/16/03 6/16/03	न ततवत व
İ	T	HCO3, CaCO3	27.8	mg CaCO3	/L	2320	6/16/03	15
- 1	T	TDS	91	mg/L		160.1	6/05/03	15
ŀ	T	TSS	<5.0	mg/L		160.2	6/05/03	1
- 1	T	Calcium	10.7	mg/L		200.7	6/09/03	1 -
	T	Chloride	7.60	mg/L		300.0	6/12/03	
	Ţ	CYANIDE - FREE	<0.10	mg/L		4500F	6/09/03	J
l	T	Hardness	38.5	mg CaCQ3	/L	200.7	6/09/03	"
	1	Potassium	2.3	mg/L		200.7	6/09/03	
ļ	T	Magnesium	2.88	mg/L	n .	200.7	6/09/03	
- 1	T	Sodium	7.73	mg/L		200.7	6/09/03	į
	T	Sulfide	<1.0	mg/L		376.1	6/05/03	5
	T	Sulfate, SO4	19.2	mg/L		300.0	6/12/03	5
	T	Silver	<0.00010	mg/L		272.2	6/09/03	~
3	T	Aluminum	0.035	mg/L		200.7	6/09/03	
	T	Arsenic	0.0060	mg/L		206.2	6/10/03	5
	T	Beryllium	<0.0020	mg/L		200.7	6/09/03	-
	T	Cadmium	<0.00010	mg/L		213.2	6/09/03	1
	T	Cobalt	<0.0060	mg/L		200.7	6/09/03	
	Τ	Copper	0.0085	mg/L		200.7	6/09/03	-
'	T	Iron	0.217	mg/L		200.7	6/09/03	ŀ
1	T	Mercury	<0.00020			245.1	6/13/03	i
	T	Molybdenum	<0.0080	mg/L		200.7	6/09/03	
	\mathbf{r}	Lead	<0.0050	mg/L		200.7	6/09/03	
1 3	r	Antimony	<0.0030	mg/L		204.2	6/10/03]
] :	ľ	Selenium	<0.0030	mg/L		270.2	6/09/03	
7	r	Silica	35.1	mg/L		200.7	6/09/03	5
]	r	Zinc	<0.0050	mg/L		200.7	6/09/03	
ļ			-			200.7	Q/09/03	1
I)	Bromide	0.35	mg/L		300.0	6/12/03	
l E)	Fluoride	0.17	mg/L		300.0	6/12/03	
ľ)	Silver	<0.00010	ma/r		272.2		
)	Arsenic	0.0050	mg/L		206.2	6/09/03	
E)	Boron	<0.040	mg/L		200.7	6/10/03	
) [Barium	0.0135	mg/L		200.7	6/09/03	
D)	Beryllium	<0.0020	mg/L		200.7	6/09/03 6/09/03	
Т	'DS	CalcTDS: 112.0 G/CalcTDS: 0.8	TDS/Cond		CATION SUM: ANION SUM:	1.18meq/L 1.18meq/L	BALANCE 0.00%	

Filtered fraction: 334220

Date 9/23/03 Reviewed By:_____

> be Ial 4/25/04

One Government Gulich

P.O. Box 929

Kellogg, Idaho 83837-0929

Phone: (208)784-1258

Certificate: AZ AZ0538 Fax: (208)783-0891

CLIENT: Resolution Copper Company

PROJECT: 033-2504.2

CLIENT SAMPLE ID: RESE-1001011

Sample Collected: 5/30/03 Sample Receipt 6/03/03

Date of Report 6/18/03 SVL JOB: 106003

SAMPLE: 334220

T/D/TR

Matrix: WATERS

	Determination	Result	Units	Dilution	Method	Analyzed	
D	Cadmium	<0.00010	mg/L		213.2	6/09/03	7
D	Copper	0.0047	mg/L		200.7	6/09/03	15-
D	Mercury	<0.00020	mg/L		245.1	6/13/03	
D	Nickel	<0.010	mg/L		200.7	6/09/03	1
Ď	Lead	<0.0030	mg/L		239.2	6/09/03	
D	Antimony	<0.0030	mg/L		204.2	6/10/03	1
D	Thallium	<0.0020	mg/L		279.2	6/10/03	
D	Zinc	<0.0050	mg/L		200.7	6/09/03	
TR	Silver	<0.00010	mg/L		272.2	6/09/03	
TR	Arsenic	0.0060	mg/L		206.2	6/10/03	
TR		<0.0020	mg/L		200.7	6/09/03	ŀ
TR	Cadmium	<0.00010	mg/L		213.2	6/09/03	
TR	Chromium	<0.0060	mg/L		200.7	6/09/03	
TR	Copper	0.0076	mg/L	ч	200.7	6/09/03	
TR	Manganese	0.0804	mg/L		200.7	6/09/03	
	Nickel	<0.010	mg/L		200.7	6/09/03	
TR	Ľęad	<0.0030	mg/L		239.2	6/09/03	
TR	Antimony	<0.0030	mg/L		204.2	6/10/03	ł
TR	Selenium	<0.0030	mg/L		270.2	6/09/03	ļ
TR	Thallium		mg/L		279.2	6/10/03	
TR	Zinc		mg/L		200.7	6/09/03	

Tot.Rec. fraction: 334536

M3(SIO2) THE ACCURACY OF THE SPIKE RECOVERY VALUE IS REDUCED SINCE THE ANALYTE CONCENTRATION IN THE SAMPLE IS DISPROPORTIONATE TO SPIKE LEVEL. THE METHOD CONTROL SAMPLE RECOVERY WAS ACCEPTABLE.

M5 (AS.SB,SE) ANALYTE CONCENTRATION WAS DETERMINED BY THE METHOD OF STANDARD ADDITION H1 (ALK, CO3, HCO3) SAMPLE ANALYSIS PERFORMED PAST HOLDING TIME SVL NOT CERTIFIED FOR CYANIDE-FREE (METHOD 4500F) IN AZ

Reviewed	By:	 9/20/0	3
		9/23/03 12	2:36

PC III)

Certificate: AZ AZ0538

Matrix: WATERS

Phone: (208)784-1258 Fax: (208)783-0891

SVL ANALYTICAL, INC.

One Government Gulch *

SVL JOB: 106003 SAMPLE: 334216 CLIENT: Resolution Copper Company

PROJECT: 033-2504.2

Kellogg, Idaho 83837-0929 •

CLIENT SAMPLE ID: RESE-1001012 T/D/TR

Sample Collected: 6/03/03 Sample Receipt Date of Report 6/18/03

P.O. Box 929

Units Dilution Determination Result Method Analyzed 27.9 mg CaCO3/L 2320 6/16/03 Alkalinity, CaCO3 3 <1.0 mg CaCO3/L 2320 6/16/03 T CO3, CaCO3 mg CaCO3/L J 27.9 2320 6/16/03 T HCO3, CaCO3 J 91 160.1 6/05/03 T mg/L TDS <5.0 160.2 mg/L 6/05/03 т TSS T Calcium 10.6 mg/L 200.7 6/09/03 Chloride 7.62 mg/L 300.0 6/12/03 T CYANIDE ~ FREE <0.10 mg/L 4500F 6/09/03 mg CaCO3/L T Hardness 38.5 200.7 6/09/03 6/09/03 2.3 200.7 T Potassium mg/L 2.90 200.7 6/09/03 T Magnesium mg/L 7.71 mg/L 200.7 6/09/03 T Sodium <1.0 mg/L 376.1 6/05/03 T Sulfide T Sulfate, SO4 19.3 mg/L 300.0 6/12/03 <0.00010 mg/L T Silver 272.2 6/09/03 0.044 6/09/03 T Aluminum mg/L 200.7 0.0060 206.2 6/10/03 T Arsenic mg/L <0.0020 200.7 6/09/03 T Beryllium mg/L <0.00010 mg/L 6/09/03 T Cadmium 213.2 T Cobalt <0.0060 mg/L 200.7 6/09/03 T Copper 0.0087 mg/L 200.7 6/09/03 0.223 200.7 6/09/03 T Iron mg/L <0.00020 mg/L 245,1 Mercury 6/13/03 Molybdenum <0.0080 200.7 6/09/03 Ψ mg/L <0.0050 200.7 6/09/03 T Lead mg/L <0.0030 204.2 Antimony 6/10/03 Ţ mg/L <0.0030 270.2 6/09/03 \mathbf{T} mg/L Selenium J Silica 34.6 200.7 6/09/03 Т mg/L Т Zinc <0.0050 mg/L 200.7 6/09/03 0.12 300.0 6/12/03 D Bromide mg/L Fluoride 0.18 mg/L 300.0 6/12/03 D Silver 6/09/03 <0.00010 mg/L 272.2 D Arsenic 0.0050 mg/L 206.2 6/10/03 200.7 6/09/03 D Boron <0.040 mg/L 6/09/03 0.0135 200.7 D Barium mq/L 200.7 6/09/03 D Beryllium <0.0020 mq/L 111.3 TDS/Cond: CATION SUM: 1.18meq/L BALANCE CalcTDS: ANION SUM: 0.00% TDS/CalcTDS: 0.8 CalcTDS/Cond: 1.18meq/L

Filtered fraction: 334221	\mathcal{M}	4/ /
Reviewed By:	Allesteur	Date 4/23/03

PC IN 6/2/06

9/23/03 12:36

One Government Gulch ...

P.O. Box 929

Kellogg, Idaho 83837-0929

Phone: (208)784-1258 = Fax: (208)783-0891

Certificate: AZ AZ0538

T/D/TR

CLIENT : Resolution Copper Company

PROJECT: 033-2504.2

CLIENT SAMPLE ID: RESE-1001012

Sample Collected:

Sample Receipt 6/03/03 Date of Report 6/18/03 Matrix: WATERS

SVL JOB: 106003

SAMPLE: 334221

	Determination	Result	Units	Dilution	Method	Analyzed	
D	Cadmium	<0.00010	mg/L		213.2	6/09/03	7
D	Copper	0.0046	mg/L		200.7	6/09/03	ゴー
D	Mercury	<0.00020	mg/L		245.1	6/13/03	
D	Nickel	<0.010	mg/L		200.7	6/09/03	
D	Lead	<0.0030	mg/L		239.2	6/09/03	İ
D	Antimony	<0.0030	mg/L		204.2	6/10/03	
D	Thallium	<0.0020	mg/L		279.2	6/10/03	İ
D	Zinc	<0.0050	mg/L		200.7	6/09/03	
TR	Silver	<0.00010	mg/L	*	272.2	6/09/03	
TR	Arsenic	0.0060	mg/L		206.2	6/10/03	
TR	Beryllium	<0.0020	mg/L		200.7	6/09/03	
TR	Cadmium	<0.00010	mg/L		213.2	6/09/03	
TR	Chromium	<0.0060	mg/L		200.7	6/09/03	-
TR	Copper	0.0077	mg/L		200.7	6/09/03	1
TR	Manganese	0.0776	mg/L		200.7	6/09/03	1
TR	Nickel	<0.010	mg/L		200.7	6/09/03	
TR	Lead	<0.0030	mg/L	•	239.2	6/09/03	1
TR	Antimony	<0.0030	mg/L		204.2	6/10/03	
TR	Selenium	<0.0030	mg/L	•	270.2	6/09/03	
TR	Thallium	<0.0020	mg/L		279.2	6/10/03	
TR	Zinc	<0.0050	mg/L		200.7	6/09/03	1

Tot.Rec. fraction: 334537 NO SAMPLE DATE ON COC

M3(SIO2) THE ACCURACY OF THE SPIKE RECOVERY VALUE IS REDUCED SINCE THE ANALYTE CONCENTRATION IN THE SAMPLE IS DISPROPORTIONATE TO SPIKE LEVEL. THE METHOD CONTROL SAMPLE RECOVERY WAS ACCEPTABLE.

M5(AS,SB,SE) ANALYTE CONCENTRATION WAS DETERMINED BY THE METHOD OF STANDARD ADDITION H1 (ALK, CO3, HCO3) SAMPLE ANALYSIS PERFORMED PAST HOLDING TIME SVL NOT CERTIFIED FOR CYANIDE-FREE (METHOD 4500F) AZ

Reviewed	By:	Date Date	1	23	103
			9/2	3/03	12:3

One Government Gulch P.O. Box 929 * Kellogg, Idaho 83837-0929

Certificate: AZ AZ0538

SVL JOB: 106003 SAMPLE: 334217

T/D/TR

Matrix: WATERS

CLIENT: Resolution Copper Company PROJECT: 033-2504.2 CLIENT SAMPLE ID: RESE-1001013

Sample Collected:

Sample Receipt : 6/03/03 Date of Report : 6/18/03

- Witholia la	Determination	Result	Units	Dilution	Method	Analyzed	_
T	Alkalinity, CaCO3	<1.0	mg CaCO3/I	5	2320	6/16/03	T
T	CO3, CaCO3	<1.0	mg CaCO3/I		2320	6/16/03	15
T	HCO3, CaCO3	<1.0	mg CaCO3/I		2320	6/16/03	1
T	TDS	<10	mg/L		160.1	6/05/03	15
T	TSS	<5.0	mg/L		160.2	6/05/03	444
T	Calcium	<0.040	mg/L		200.7	6/09/03	15
T	Chloride	1.56	mg/L		300.0	6/12/03	1
T	CYANIDE - FREE	<0.10	mg/L		4500F	6/09/03	15
T	Hardness	<0.265	mg CaCO3/I	<u>.</u>	200.7	6/09/03	
T	Potassium	<1.0	mg/L		200.7	6/09/03	
T	Magnesium	<0.040	mg/L	•	200.7	6/09/03	i
Т	Sodium	<0.50	mg/L		200.7	6/09/03	
T	Sulfide	<1.0	mg/L		376.1	6/05/03	J
T	Sulfate, SO4	<0.30	mg/L		300.0	6/12/03	丁
T	Silver	<0.00010	mg/L		272.2	6/09/03	1
T	Aluminum	<0.020	mg/L		200.7	6/09/03	1_
T	Arsenic	<0.0030	mg/L		206.2	6/10/03	7
T	Beryllium	<0.0020	mg/L		200.7	6/09/03	
T	Cadmium	<0.00010	mg/L		213.2	6/09/03	
T	Cobalt	<0.0060	mg/L		200.7	6/09/03	1 .
T	Copper	<0.0030	mg/L		200.7	6/09/03	J
T	Iron	<0.020	mg/L		200.7	6/09/03	
T	Mercury	<0.00020	mg/L		245.1	6/13/03	l
T	Molybdenum	<0.0080	mg/L		200.7	6/09/03	1
T	Lead	<0.0050	mg/L		200.7	6/09/03	1
T	Antimony	<0.0030	mg/L		204.2	6/10/03]
T	Selenium	<0.0030	mg/L		270.2	6/09/03	
T	Silica	<0.171	mg/L		200.7	6/09/03	
Т	Zinc	<0.0050	mg/L		200.7	6/09/03	
D	Bromide	<0.10	mg/L		300.0	6/12/03	
D	Fluoride	<0.10	mg/L		300.0	6/12/03	1
Ď	Silver	<0.00010			272.2	6/09/03	İ
D	Arsenic	<0.0030	mg/L		206.2	6/10/03	
D	Boron	<0.040	mġ/L	•	200.7	6/09/03	
D	Barium	<0.0020	mg/L		200.7	6/09/03	
D	Beryllium	<0.0020	mg/L		200.7	6/09/03	

Filtered	fraction:	334222

Harren Reviewed By:

Date

१८ मारा 6/2/06

One Government Gulch # P.O. Box 929

Kellogg, Idaho 83837-0929

Phone: (208)784-1258

Certificate: AZ AZ0538 a Fax: (208)783-0891

CLIENT: Resolution Copper Company

PROJECT: 033-2504.2

SVL JOB: 106003 SAMPLE: 334222

CLIENT SAMPLE ID: RESE-1001013

T/D/TR

Sample Collected: Sample Receipt :

Date of Report

6/03/03

6/18/03

Matrix: WATERS

	Determination	Result	Units	Dilution	Method	Analyzed	
D	Cadmium	<0.00010	mg/L		213.2	6/09/03	7
D	Copper	<0.0030	mg/L		200.7	6/09/03]:
D	Mercury	<0.00020	mg/L		245.1	6/13/03	
D	Nickel	<0.010	mg/L		200.7	6/09/03	
D	Lead	<0.0030	mg/L		239.2	6/09/03	
D	Antimony	<0.0030	mg/L		204.2	6/10/03	
Ď	Thallium	<0.0020	mg/L		279.2	6/10/03	
D	Zinc	<0.0050	mg/L		200.7	6/09/03	
TR	Silver	<0.00010	mg/L		272.2	6/09/03	
TR	Arsenic	<0.0030	mg/L		206.2	6/10/03	
TR	Beryllium	<0.0020	mg/L		200.7	6/09/03	
TR	Cadmium	<0.00010	mg/L		213.2	6/09/03	
TR	Chromium	<0.0060	mg/L		200.7	6/09/03	
TR	Copper	<0.0030	mg/L		200.7	6/09/03	
ΤŘ	Manganese	<0.0020	mg/L		200.7	6/09/03	J
TR	Nickel	<0.010	mg/L		200.7	6/09/03	1
ΤŔ	Lead	<00030	mg/L		239.2	6/09/03	1
TR	Antimony	<0.0030	mg/L		204.2	6/10/03	
TR	Selenium	<0.0030	mg/L		270.2	6/09/03	
TR	Thallium	<0.0020	mg/L		279.2	6/10/03	1
TR	Zinc	<0.0050	mg/L		200.7	6/09/03	

Tot.Rec. fraction: 334538 NO SAMPLE DATE ON COC

M3(SIO2) THE ACCURACY OF THE SPIKE RECOVERY VALUE IS REDUCED SINCE THE ANALYTE CONCENTRATION IN THE SAMPLE IS DISPROPORTIONATE TO SPIKE LEVEL. THE METHOD CONTROL SAMPLE RECOVERY WAS ACCEPTABLE.

M5 (AS, SB, SE) ANALYTE CONCENTRATION WAS DETERMINED BY THE METHOD OF STANDARD ADDITION H1 (ALK, CO3, HCO3) SAMPLE ANALYSIS PERFORMED PAST HOLDING TIME SVL NOT CERTIFIED FOR CYANIDE-FREE (METHOD 4500F) IN AZ

Reviewed By: Alk Dat

PC ITS)
6/2/04

APPENDIX C QUALIFIED RESULTS TABLE

Qualified Results Table for Resolution Copper Company SDG 106003 May 2003

199 J mg/L Temperature 5.0 UJ mg/L 7-8R CRDL SPK 5.1.5 J mg/L 7-8R SD 0.0030 UJ mg/L 7-8R SD 0.0090 J mg/L Temperature 1.0 UJ mg/L Temperature 1.0 UJ mg/L Temperature 1.0 UJ mg/L Temperature 2.8 J mg/L Temperature 2.8 J mg/L Temperature 2.9 J mg/L Temperature 2.0 UJ mg/L Temperature 1.0 UJ mg/L Temperature 1.0 UJ mg/L Temperature 1.0 UJ mg/L Temperature 1.0 UJ mg/L Temperature 2.0 UJ mg/L Temperature 35.1 J mg/L Temperature 5.0 UJ mg/L Temperature 5.0 UJ mg/L Temperature 5.0 UJ mg/L Temperature 5.0 UJ mg/L Tempera			5.0 J 5.0 J 6030 J 6030 J 6030 M3 J 6030 M5 J 6031 J J 6032 M5 J 610 H1 J 6110 H1 J 6010 H1 J 6030 M8 J 6040 M5 J 610 M6 J 610 M7 J 610 M7 J 610 H1 J 610 H1 J 610 H1 J 610 H1 J 610 H1 J 610 H1 J 610 H1 J 610 H1 J	Dissolved Solids 199
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mg/L mg/L mg/L mg/L	Í	11	<1.0 H1	<1.0
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mg/L mg/L	-		20.10	<u> </u>
J. ung/L	ſ		91	olids
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L.0 UJ mg/L Temperature	-		<0.1>	L

Qualified Results Table for Resolution Copper Company SDG 106903 May 2003

	914.10	Type	Parameter	Original	Original	Added	New Value	Units	Resson	Type	Method	Validator
- Adimbo		246.		Value	Casiller	7×1100	3 0 4 4	1	Termografiers, ET	Water	SW2320	ILSI
RESE-1001012	W334216	Fotal	Alkallnity, CaCO3	27.9	H	•	e 6:17	1 20	ביוויבוקווול זיי		20000	LILEGI
DECE_1001012	31C225W	Total	CO3, CaCO3	0.1>	ш	-	1.0 UI	mg/L	Temperature; H1	water	D757WS	2
A 1001011	STERECAR	Total	HCD3 CaCO3	27.9	Н		27,90 J	πg/L	Temperature; HT	Water	SM2320	1521
KESE-1001012	W334610	FOISI The de S	Canide Free	9		-	0.10 UI	mg/L	Temperature	Water	SM4500F	ISI
RESE-1001012	W334210	Total	Total Discolved Solide	GI S		.,	m or	mg/L	Temperature	Water	160.1	E
RESE-1001013	W334217	1601	Tree Cestable Calife	030			5.0 UJ	mg/L	Temperature	Water	160.2	IISI
RESE-1001013	W334217	101	Out Schaus Sams	0700		-	0.040 UJ	TIEL	%R CRDL SPK	Water	200.7	ITSI
RESE-1001013	W334217	10131	Calcium	02000		, -	0.0030 131	me/L	%R CRDL SPK	Water	200.7	ITSI
RESE-1001013	W334217	Total	Copper	0000			0.020 111	πα/Ĩ.	%R CRDL SPK	Water	200.7	ITSI
RESE-1001013	W334217	Ictal		20.04.0			0.0000 115	Tion	200	Water	206.2	ILSI
RESE-1001013	W334217	Total	Arsenic	05.00.50	33	- -	0.30 101	1,2	Termonting	Weter	300	ISI
RESE-1001013	W334217	Total	Sulfate, SO4	<0.30			D 000	7A.	L CHIPCI BIGHT	17,00	174 3	1511
RESE-1001013	W334217	Total	Sulfide	0.1>		ŗ	FO 0:	100	renperature	in die	1000	
PESE-1001013	VI CALEW	Total	Alkalinity, CaCO3	<1.0	H1	'n	(10 O.)	mg/L	Temperature; HT	Water	SM2520	2 2
DECE 1001013	CICPLEAN	Total	CO3, C2CO3	<1.0	H	Ρ,	1.0 W	mg/L	Temperature; HT	Water	SM2320	121
ACOC-ROLOTS	11776644	HOL	HCO3 CaCO3	0.15	HI	-	1.0 UJ	mg/L	Temperature, HT	Water	SM2320	
KESE-1001013	175CC44	10121	C. sarida Free	al 6		_	0.10 UJ	THE/L	Temperature	Water	SN44500F	ILSI
RESE-1001013	W354214	FOID!	Cyanina Company	0,000			0.0030-111	mø/L	%R CRDL SPK	Water	200.7	ISII
RESE-1001009	W334218	Dissolved	Copper	CON-	1.12	. -	0 0000 1	1/20	N.J.J	Water	202.6	IST
RESE-1001009	W33421B	Dissolved	Arsenic	กรณาก	CW		0.0000	1,24	WP CROI SPK	Water	200.7	ISI
RESE-1001010	W334219	Dissolved	Copper	20.0030			0.0000	Dom.	MD LOUD 67%	Water	200.7	EE
RESE-1001011	W334220	Dissolved	Copper	0.04		٠, -	0.0042 1	7 -	May Land and	Water	200.7	ILSI
RESE-1001012	W334221	Dissolved	Copper	6.8 8.8 8.8 8.8 8.8			Commo d-		Ach Chock Cold	11/24/21	ריסטר	ITCL
RESE-1001013	W334222	Dissolved	Соррет	<0.0030		PT-9	0.0030 UJ	mg/L	N'S CKUL SPK	200	1.002	10.1
RESE-1001009	W334534	Total Recoverable	Copper	<0.0030		_	0.0030 UJ	TIEST.	SKCKULSPK	N. Bic	200.3	1011
DECE 1001000	PESPEEN	Total Repressible	Antimony	<0.0030	MS	-	0:0030 UJ	mg/L	%R MS	Water	204.2	
PESE 1001010	SESPEEN	Total Recoverable	Copper	△0.0030		1	0.0030 UI	mg/L	%R CRDL SPK	Water	200.7	ISI
RESE-1001013	W334538	Total Recoverable	Copper	<0.0030		-	0,0030 UI	mg/L	%R CRDL SPK	Water	+	251
RESE-1601013	W334538	Total Recoverable	Manganese	<0.0020			0.0020 UJ	I mg/L	%R CRDL SPK	Water	200.7	22

Abbreviations

SDG = sample delivery group

mg/L = milligrams per liter

CCV = continuing calibration verification

CRDL = client required detection limit

HT = holding time

MS = matrix spike

%R = percent recovery

SD = serial dilution

SPK = spike

Data Qualifier Flags estimated value

estimated value, low bias estimated reporting limit

APPENDIX D LABORATORY COMMUNICATIONS

Peggy Cota

From:

Peggy Cota [pcota@itsi.com]

Sent:

Friday, May 12, 2006 10:25 AM

To:

'kirby@svl.net'

Cc:

'Casey Mckeon@resolutioncopper.com'

Subject:

RCC Laboratory Questions

Attachments: RCC SVL Questions 051206.pdf

Kirby,

Our company is currently working on data validation for Resolution Copper Company (RCC) and require some additional data or information (see attached) to complete our review. RCC will contact SVL to give you permission to release the data to us.

The data can be e-mailed or faxed to me at the address or number listed below.

Thank you in advance for your help. Please feel free to contact me if you have any questions.

Peggy Cota **Project Chemist** Innovative Technical Solutions, Inc. 1501 W. Fountainhead Parkway, Suite 360 Tempe, Arizona 85282 (480)-706-6488 ext. 3397 (480)-704-2952 fax pcota@itsi.com

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Laboratory Questions for Resolution Copper Company

No.	Lab	Date	SDG	Method	Question/Concern
1	SVL	05/12/06	106003	300.0	The ICAL raw data and summary evaluation were not in the level IV data package. Please provide copies of this data.
2	SVL	05/12/06	106003	300.0	Please provide the true concentration of the anions in the CCV and ICV.
3	SVL	05/12/06	106003	GFAA	Please provide the volume of the standard analyte solution V(s) and sample volume V(x) used in the single addition method for As, Sb and Se.
4	SVL	05/12/06	106003	all	Please provide the identity of any second source standards or spikes used in each analyses.

May 22, 2006

Resolution Copper Company

Attn: Casey McKeon (Casey.Mckeon@resolutioncopper.com)

Ref: Resolution Copper Company

Addendum as requested to Kirby Gray, Technical Director.

Please call if there are questions.

Thank you.

Melba Bencich

Document Control Officer

cc: Innovative Technical Solutions, Inc. Attn: Peggy Cote (pcota@itsi.com)



May 12, 2006

Laboratory Questions for Resolution Copper Company

PAGE	No.	Leb	Date	SDG	Method	Question/Concern
A1-24	1	SVL	05/12/06	106003	300.0	The ICAL raw data and summary evaluation were not in the level IV data package. Please provide copies of this data.
A 25	2	SVL	05/12/06	106003	300.0	Please provide the true concentration of the anions in the CCV and ICV.
A 26-27	3	SVL.	05/12/06	106003	GFAA	Please provide the volume of the standard analyte solution V(s) and sample volume V(x) used in the single addition method for As, Sb and Se.
A 28-34 A-35	4	SVL.	05/12/06	106003	all	Please provide the identity of any second source standards or spikes used in each analyses.

Modalda

DIONEX METHOD PARAMETERS - ANIONS1.MET

Method Comment: 05/23/03	
Method Comment: Column ID: AG4A-SC/AS4A-SC INST: DX100 Analyst ID: A. COSTELLO	
System Parameters	
Sampling Rate (seconds)	3.50).50
Detector 1 Type	THER 10.00 -4.00
Detector 1 ACI Analog Input Connection	10.00 DET2 (es
Data File Name: C:\DX\DATA\RT105351.D02	
DETECTOR 1 PARAMETERS	
Report Options	_
ACCUST Depart File	Yes
- Drint Renort	NO NO
Print Components Found	Yes
- print Missing Components 1	No
Drint All Deaks	No
maint Independ Dooks	No Voa
	Yes No
Antagrale intomacoulam maximum	No
Fill Peaks with Color	No
Draw Grid Lines on Chromatogram	Мо
chow Component Fraction Numbers	No
The training to the Deale Neighber.	No
Tabal with Detention Times on Chromatogram	No Yes
Takal with Component Name	162
Format File Name: C:\DX\METHOD\DEFAULT.PRF	
Integration Parameters	
demand mank Width (seconds)	5.0 3.000
Peak Threshold	100
	1000
Area Reject for Reference Fears	
Data Events	
Time Description	a-v am m
0.00 Force baseline at start of all peaks	
n no Stop peak detection	
0.70 Force baseline at start of all peaks	
0.70 End peaks on baseline penetration 0.70 Start peak detection	
0.70 Start peak detection	

Data Events	
Time Description	-
0.80 Void volume treatment for this peak	
Calibration Parameters	6 No Linear Replace External Area 1.0 1.0
Internal Standard Amount in Samples	1.0 MG/L

Component Table -- Last Modified: 10:49 on Fri, 23 May 2003

Component # 1 F Retention Time 1.16
Reference Comp. none Window Size 6.00 %
Amount = K0 + K1*Area

 $\begin{array}{rcl}
 \text{KO} &=& 4.03360\text{E}-002 \\
 \text{K1} &=& 1.97446\text{E}-006
 \end{array}$

Level	Amount	Area	Height
1 2 3 4 5 6	0.00000E+000	0	0
	1.00000E-001	47322	10615
	5.00000E-001	231862	52179
	1.00000E+000	468420	106799
	2.00000E+000	957101	220518
	5.00000E+000	2528338	582775

Component # 2 CL Retention Time 1.77
Reference Comp. none Window Size 10.00 %

Amount = K0 + K1*Area K0 = 1.01156E-001 K1 = 2.95996E-006

Level	Amount	Area	Height		
l	0.00000E+000	9887	2712		
2	2.00000E-001	65153	14181		
3	1.00000E+000	297928	63025		
4	2.00000E+000	599636	129117		
5	5.00000E+000	1588310	348908		
6	1.00000E+001	3382763	752764		

Component # 3 NO2/N Reference Comp. none Retention Time 2.11 Window Size 6.00 *

Amount = K0 + K1*Area K0 = 2.40486E-002 K1 = 1.39989E-006

Level	Amount	Area	Height		
1 2 3 4 5	0.00000E+000 5.00000E-002 2.00000E-001 5.00000E-001 2.00000E+000 5.00000E+000	0 29327 133017 331549 1367308 3571857	0 5974 25095 62808 266405 702418		

Component # 4 BR
Reference Comp. none
Amount = K0 + K1*Area
K0 = 4.56221E-002
K1 = 7.42150E-006

Retention Time 3.09 Window Size 6.00 %

Retention Time Window Size

3.48 7.00 -

Level	Amount	Area	Height		
1 2 3 4 5	0.00000E+000 1.00000E-001 5.00000E-001 2.00000E+000 5.00000E+000	0 11606 64084 255718 654108 1349088	0 1887 9416 38607 98232 207684		

Component # 5 NO3/N
Reference Comp. none
Amount = K0 + K1*Area
K0 = 3.91089E-002
K1 = 1.21944E-006

Level	Amount	Area	Height
1 2 3 4 5	0.00000E+000 5.00000E-002 2.00000E-001 5.00000E-001 2.00000E+000 5.00000E+000	6930 28632 145080 359842 1521150 4101306	759 4328 18907 47278 194555 499858

Component # 6 PO4/P
Reference Comp. none
Amount = K0 + K1*Area
K0 = 7.40747E-002
K1 = 3.43292E-006

Retention Time 5.58 Window Size 10.00 %

Level	Amount	Area	Height		
1 2 3 4 5	0.00000E+000 2.00000E-001 5.00000E-001 2.00000E+000 5.00000E+000 1.00000E+001	7126 38072 134471 533677 1401000 2912148	695 3119 8934 38370 101226 216420		

Retention Time 7.35 Window Size 7.35

Level	Amount	Area	Height		
- i	0.00000E+000	0	0		
2	3.00000E-001	50407	3648		
3	2.00000E+000	430121	27608		
4	5.00000E+000	1102159	70612		
5	1.00000E+001	2236887	144833		
6	2.50000E+001	5971618	387587		

Timed Events File: C:\DX\METHOD\ANIONS1.TE

Step	Time	Description
Init Init Init Init Init Init Init Init	0.0 0.2 2.2 2.2 2.2 10.8	ACI INJECT OFF ACI A/O OFF ACI 10x OFF ACI PUMP ON ACI A/S OFF ACI TTL 3 OFF ACI TTL 4 OFF ACI Regen OFF ACI AC 2 OFF ACI A/S ON ACI A/S ON ACI A/S OFF ACI INJECT ON ACI A/O ON Start Sampling ACI INJECT OFF ACI A/O OFF
4	10.0	WAY WA ATT

Component: F

Fit Type: Linear

r² = 0.999447

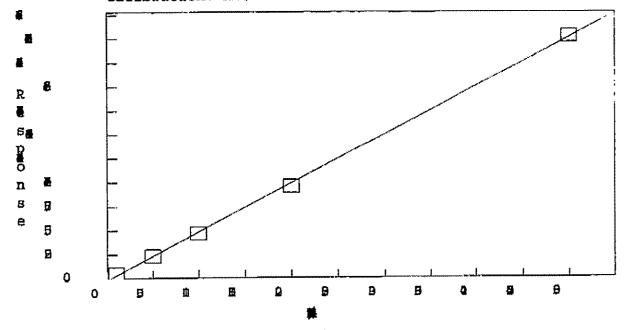
Amt = Resp * 1.974e-006 + 0.04034

Resp = Amt * 5.065e+005 + -2.043e+004

Standardization: External

Calibration: Area

Calibration: Area



Component: CL

Fit Type: Linear

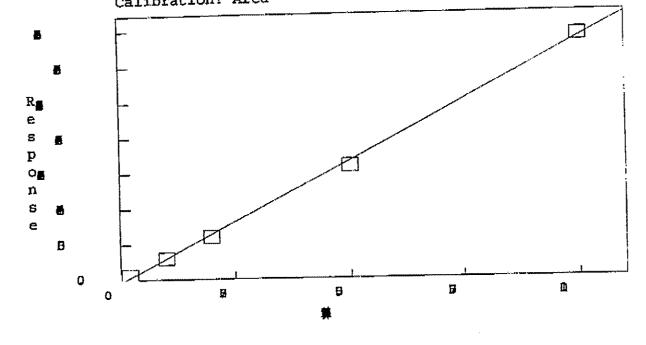
r² = 0.998751

Amt = Resp * 2.96e-006 + 0.1012

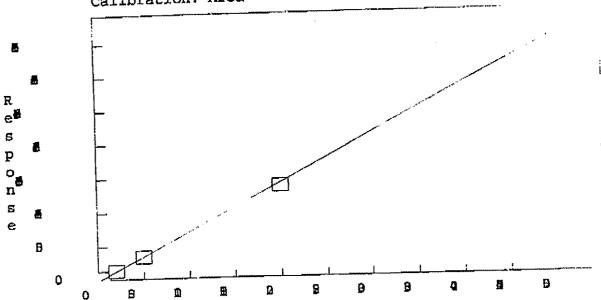
Resp = Amt * 3.378e+005 + -3.417e+004

Standardization: External

Calibration: Area



Component: NO2/N
Fit Type: Linear
r² = 0.999716
Amt = Resp * 1.4e-006 + 0.02405
Resp = Amt * 7.143e+005 + -1.718e+004
Standardization: External
Calibration: Area



政

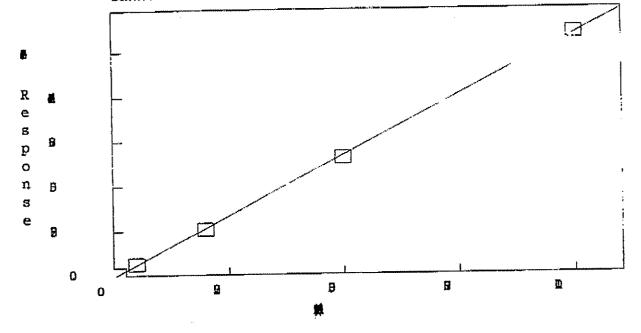
Component: BR

Fit Type: Linear

r² = 0.999741

Amt = Resp * 7.422e-006 + 0.04562

Resp = Amt * 1.347e+005 + -6147 Standardization: External Calibration: Area

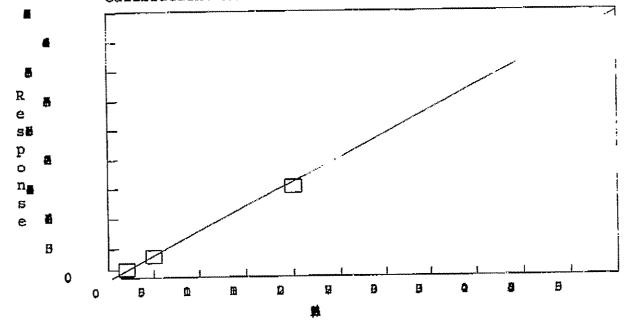


Component: NO3/N Fit Type: Linear r² = 0.999147

Amt = Resp * 1.219e-006 + 0.03911 Resp = Amt * 8.2e+005 + -3.207e+004

Standardization: External

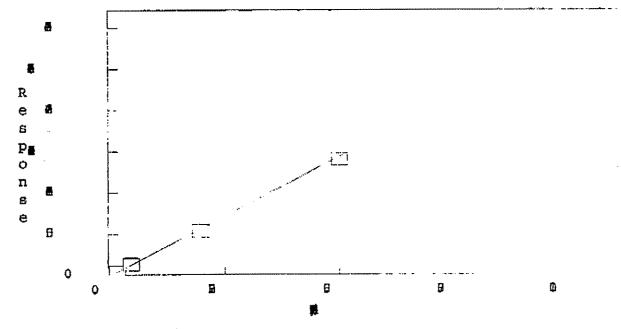
Calibration: Area



Component: PO4/P Fit Type: Linear $x^2 = 0.999501$

Amt = Resp * 3.433e-006 + 0.07407 Resp = Amt * 2.913e+005 + -2.158e+004

Standardization: External Calibration: Area



Component: S04

Fit Type: Linear

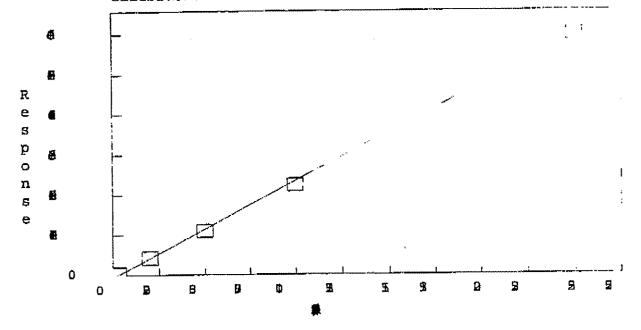
r2 = 0.999314

Amt = Resp * 4.179e-006 + 0.2308

Resp = Amt * 2.393e+005 + -5.522e+004

Standardization: External

Calibration: Area



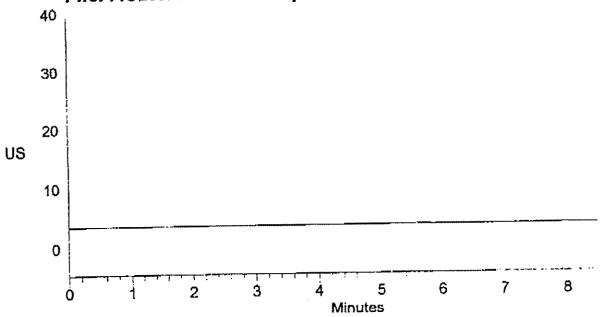
你还有你都是有可能和有有我们你没有问题我们的我们的我们们就能够有什么你就知识到对话这个关系和我们的现在分词的知识,只见不是我们不仅不见了,但是不会会会 Date: Fri May 23 09:54:32 2003 Sample Name: AUTOCAL1 Raw File : C:\DX\DATA\ACDX1141.D01 Calibration Level: 1 Method : C:\DX\METHOD\ANIONS1.MET Detector: OTHER ACI Address: 1 System: 1 Inject#: 1 。 是多地的心理和说话,只有那些的名词形式的现在时间都在这样的,我就是我们对了这种的一种的现在分词的对象的的一种,我们可以是我们们可以是是这种,我们们是我们们是我们 Adjusted Ret Time Reference Peak Name 0 1.16 0 1.78 CL0 2.13 NO2/N 3.19 BR 3.63 NO3/N 0 5.63 P04/P 0 7.43 SO4

******* FOUND IN THIS RUN

COMP COMPONENT OLD MEASURED NEW OLD MEASURED NEW
NUM NAME RET.TIME RET.TIME RESPONSE RESPONSE RESPONSE

					=======	=====	=======	:=====================================	=====
rinen File	e: AUTOCAL1 : C:\DX\DI	TA/ACDXII.	41.D0l		Date:	05/23	/2003 09:	:54:32	
ACI Addres Analyst	s: 1 Syste : A. COSTI	vm - 1 11111	ortt: i	Vl	al: C/A54A-S	C	Detector INST: DX	C:OTHE	R
x=========	========								
Calibration	Volume I	Dilution P	oints R	late	Start	Stop	Area Reje	ect 	
External	1	1		2Hz	4,44			100	
******	*****	Component	Report	: Con	nponents	Found	******	****	****
Pk. Ret Num Time	Component Name	Co	ncentra	ation MG/L	Heig	ght	Area	Bl. Code	%Delta
the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the task and the t		Totals		0.000		0	0		

File: ACDX1141.D01 Sample: AUTOCAL1



AUTOMATIC CALIBRATION UPDATE 祖代日本共和国的李明城市的新疆中央共和国共和党共和党共和党共和党共和党的李明等的政治,并由于共和国的李明等的中央共和国的共和党的中央共和国的共和党的中央共和国的 Date: Fri May 23 10:05:30 2003 Sample Name: AUTOCAL2 Raw File : C:\DX\DATA\ACDX1141.D02 Calibration Level: 2 : C:\DX\METHOD\ANIONS1.MET Detector: OTHER Inject#: 2 System : 1 ACI Address: 1 Adjusted Ret Time Reference Peak Name 3.19 BR COMPONENTS FOUND IN THIS RUN *****

COMP		OLD RET.TIME	MEASURED RET.TIME	NEW RET.TIME	OLD MEASURED RESPONSE RESPONSE	NEW RESPONSE
3 5 6	F CL NO2/N NO3/N PO4/P SO4	1.16 1.78 2.13 3.63 5.63 7.43	1.16 1.76 2.10 3.59 5.66 7.43	1.76 6.1140 2.10 4.0080 3.59 4.0570 5.66 5.1000	e+004 4.732e+004 4 e+004 6.515e+004 6 e+004 2.933e+004 2 e+004 2.863e+004 3 e+004 3.807e+004 3 e+004 5.041e+004	5.515e+004 2.933e+004 2.863e+004 3.807e+004

| Sample Name: AUTOCAL2 Date: 05/23/2003 10:05:30

Data File : C:\DX\DATA\ACDX1141.D02
Method : C:\DX\METHOD\ANIONS1.MET

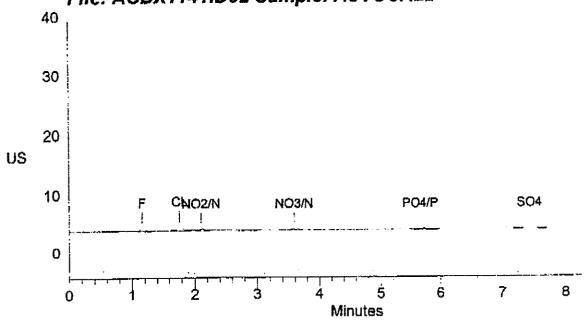
ACI Address: 1 System: 1 Inject#: 2 Vial: Detector:OTHER

Analyst : A. COSTELLO Column: AG4A-SC/AS4A-SC INST: DX100

Calibration Volume Dilution Points Rate Start Stop Area Reject External 1 1 1020 2Hz 0.00 8.49 100

Pk. Num		Component Name	Concentrati MC	on H J/L	eight	Area	Bl. Code	%Delta
1 2 3 4 5	3.59	CL NO2/N NO3/N PO4/P	0.2 0.0 0.0		10615 14181 5974 4328 3119 3648	47322 65153 29327 28632 38072 50407	1 1 1 1 1	-0.14 -1.22 -1.41 -1.06 0.50
		ŋ	Cotals 0.9	900	41864	258911		

File: ACDX1141.D02 Sample: AUTOCAL2



AUTOMATIC CALIBRATION UPDATE

Sample Name: AUTOCAL3 Date: Fri May 23 10:16:28 2003

Raw File : C:\DX\DATA\ACDX1141.D03

Method : C:\DX\METHOD\ANIONS1.MET Calibration Level: 3

ACI Address: 1 System: 1 Inject#: 3 Detector: OTHER ;

******************** COMPONENTS FOUND IN THIS RUN

COME		OLD RET.TIME	MEASURED RET.TIME	NEW RET.TIME	OLD MI RESPONSE	easured ' response	NEW RESPONSE
1	F	1.16		1.16 2.2776			
2	СL	1.76		1.76 2.934			
3	NO2/N	2.10	2.10	2.10 1.288e	+005 1.33	30e+005 1.:	330e+005
	BR	3.19	3.13	3.13 6.0396	+004 6.40)8e+004 6.4	108e+004
5	NO3/N	3.59	3.58	3.58 1.3506	+005 1.45	51e+005 1.4	451e+005
	PO4/P	5.66	5.67	5.67 1.2706	+005 1.34	15e+005 l.:	345e+005
	SO4	7.43	7.40	7.40 4.2376			

| Sample Name: AUTOCAL3 | Date: 05/23/2003 10:16:28

Data File : C:\DX\DATA\ACDX1141.D03
Method : C:\DX\METHOD\ANIONS1.MET

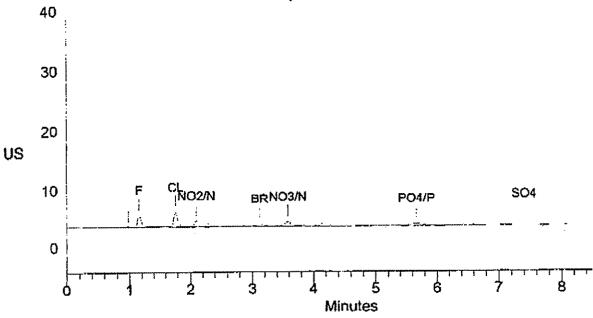
ACI Address: 1 System: 1 Inject#: 3 Vial: Detector:OTHER

Analyst : A. COSTELLO Column: AG4A-SC/AS4A-SC INST: DX100

Calibration Volume Dilution Points Rate Start Stop Area Reject
External 1 1 1020 2Hz 0.00 8.49 100

Pk. Num		Component Name	Con	centration MG/L	Height	Area	Bl. Code	†Delta
2	1.16	· F		0.500	52179	231862	1	∜.00
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	1.76	<del>-</del>		1.000	63025	297928	1	1.00
4		NO2/N		0.200	25095	133017	1	1.00
5	3.13			0.500	9416	64084	1	± , ∪4
5		NO3/N		0.200	18907	145080	1.	-0.23
7		PO4/P		0.500	8934	134471	1	0.15
8	7.40			5.000	27608	430121	1	-0.34
			Totals	4.900	205165	1436562		

# File: ACDX1141.D03 Sample: AUTOCAL3



*******

#### AUTOMATIC CALIBRATION UPDATE

Sample Name: AUTOCAL4 Date: Fri May 23 10:27:27 2003!

Raw File : C:\DX\DATA\ACDX1141.D04

Method : C:\DX\METHOD\ANIONS1.MET Calibration Level: 4

ACI Address: 1 System: 1 Inject#: 4 Detector: OTHER

#### **************** COMPONENTS FOUND IN THIS RUN

COME		OLD RET.TIME	MEASURED RET.TIME	NEW RET.TIME		MEASURED E RESPONS	NEW E RESPONSE
1 2	F CL	1.16 1.76	1.16 1.76	1.16 4.712 1.76 6.014	e+005 5.	996e+005	5.996e+005
3	NO2/N	2.10	2.10	2.10 3.282			
4	BR.	3.13	3.13	3.13 2.548			
5	NO3/N	3.58	3.57	3.57 3.580			
6	PO4/P	5.67	5.64	5.64 5.355			
7	504	7.40	7.41	7.41 1.091	.e+006 l.	102e+006	1.102 <del>e</del> +006

| Sample Name: AUTOCAL4 | Date: 05/23/2003 10:27:27

Data File : C:\DX\DATA\ACDX1141.D04
Method : C:\DX\METHOD\ANIONS1.MET

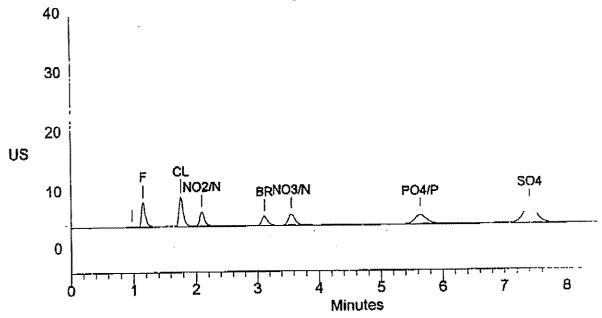
ACI Address: 1 System: 1 Inject#: 4 Vial: Detector:OTHER

Analyst : A. COSTELLO Column: AG4A-SC/AS4A-SC INST: DX100

Calibration Volume Dilution Points Rate Start Stop Area Reject External 1 1 1020 2Hz 0.00 8.49 100

Pk. Num		Component Name	Concentrati MC	on Heig	ght Area	Bl. Code	%Delta
2 3 4 5 6 7 8	3.13 3.57	CL NO2/N BR NO3/N PO4/P	0.5 2.0 0.9	000 129 500 62 000 38 500 47 000 38		1 1 1 1 1 1	0.00 0.00 0.00 0.00 -0.47 -0.44 0.11
		T	otals 13.	000 493	591 3650999	<b>,</b>	

# File: ACDX1141.D04 Sample: AUTOCAL4



#### AUTOMATIC CALIBRATION UPDATE

Date: Fri May 23 10:38:22 2003 Sample Name: AUTOCAL5

: C:\DX\DATA\ACDX1141.D05 Raw File

*****

: C:\DX\METHOD\ANIONS1.MET

Calibration Level: 5

Detector: OTHER Inject#: 5 ACI Address: l System : 1 

#### COMPONENTS FOUND IN THIS RUN

COMP		OLD RET.TIME	MEASURED RET.TIME	NEW RET.TIME	OLD RESPO	MEASURED NSE RESPONSI	NEW E RESPONSE
2 3 4 5 6	F CL NO2/N BR NO3/N PO4/P SO4	1.16 1.76 2.10 3.13 3.57 5.64 7.41	1.16 1.77 2.10 3.11 3.53 5.62 7.39	1.77 1.595 2.10 1.379 3.11 6.587 3.53 1.519 5.62 1.408	e+006 e+006 e+005 e+006 e+006	9.571e+005 ! 1.588e+006 ! 1.367e+006 ! 6.541e+005 ! 1.521e+006 ! 1.401e+006 !	1.588e+006 1.367e+006 6.54le+005 1.521e+006 1.401e+606

Sample Name: AUTOCAL5 Date: 05/23/2003 10:38:22

Data File : C:\DX\DATA\ACDX1141.D05
Method : C:\DX\METHOD\ANIONS1.MET

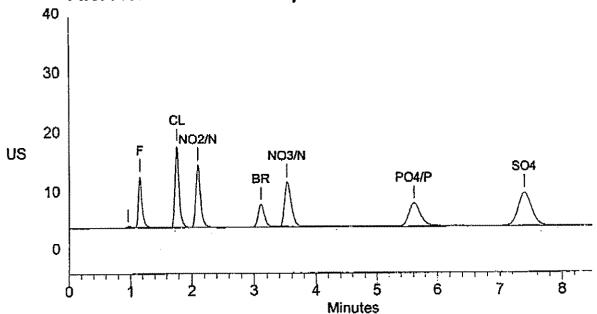
ACI Address: 1 System: 1 Inject#: 5 Vial: Detector:OTHER

Analyst : A. COSTELLO Column: AG4A-SC/AS4A-SC INST: DX100

Calibration Volume Dilution Points Rate Start Stop Area Reject
External 1 1 1020 2Hz 0.00 8.49 100

Pk. Num		Component Name	Cone	centration MG/L	Height	Area	Bl. Code	%Delta	
2 3 4 5 6 7 8	3.11 3.53	CL NO2/N BR NO3/N PO4/P		2.000 5.000 2.000 5.000 2.000 5.000	220518 348908 266405 98232 194555 101226 144833	957101 1588310 1367308 654108 1521150 1401000 2236887	1 1 1 1 1	0.00 0.47 0.00 -0.53 -1.17 -0.44	
			Totals	31.000	1374678	9725864			

# File: ACDX1141.D05 Sample: AUTOCAL5



#### AUTOMATIC CALIBRATION UPDATE

我就是我们还是我们的自己的,我就是我们的自己的,我们就是我们的,我们就是我们的,我们就是我们的自己的的。我们就是我们的的,我们就是我们的,我们就是我们的,我们就

Sample Name: AUTOCAL6

Date: Fri May 23 10:49:21 2003

: C:\DX\DATA\ACDX1141.D06 Raw File

: C:\DX\METHOD\ANIONS1.MET Method

Calibration Level: 6

ACI Address: 1 

System : 1

Inject#: 6

Detector: OTHER

****** COMPONENTS FOUND IN THIS RUN ******

COME	- · · · · · · · · · · · · · · · · · · ·	OLD RET.TIME	MEASURED RET.TIME	NEW RET.TIME	OLD RESPO	MEASURED ONSE RESPONS	new e response
3 4 5 6	F CL NO2/N BR NO3/N PO4/P SO4	1.16 1.77 2.10 3.11 3.53 5.62 7.39	1.16 1.77 2.11 3.09 3.48 5.58 7.35	1.77 3.421 2.11 3.621 3.09 1.351 3.48 4.102 5.58 2.986	e+006 e+006 e+006 e+006	2.528e+006 3.383e+006 3.572e+006 1.349e+006 4.101e+006 2.912e+006 5.972e+006	3.383e+006 3.572e+006 1.349e+006 4.101e+006 2.912e+006

Date: 05/23/2003 10:49:21 Sample Name: AUTOCAL6

Data File : C:\DX\DATA\ACDX1141.D06 : C:\DX\METHOD\ANIONS1.MET

ACI Address: 1 System: 1 Inject#: 6 Vial:

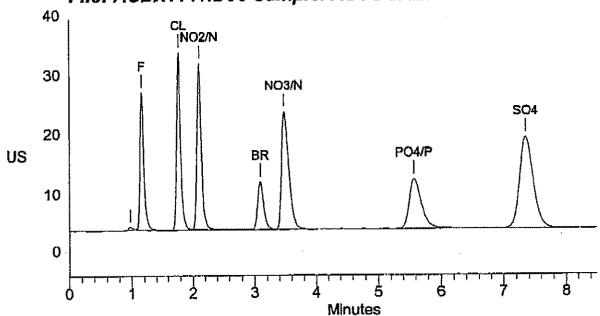
Detector:OTHER Column: AG4A-SC/AS4A-SC : A. COSTELLO

Stop Area Reject Calibration Volume Dilution Points Rate Start 1 1020 2Hz 0.00 1 External.

******** Found ****** Component Report: Components Found ******

Pk. Num		Component Name	C	oncentration MG/L	Height	Area	Bl. Code	%Delta
2	1.16	F		5.000	582775	2528338	1	0.00
3	1.77	CL		10.000	752764	3382763	1	0.00
4		NO2/N		5.000	702418	3571857	1	0.40
ร์	3.09			10.000	207684	1349088	1	-0.54
5 6		NO3/N		5.000	499858	4101306	1	-1.42
7		PO4/P		10.000	216420	2912148	1	-0.74
8	7.35			25.000	387587	5971618	1.	-0.56
			Totals	70.000	3349506	23817118		

# File: ACDX1141.D06 Sample: AUTOCAL6



# QC WORKSHEET

Date: 06/12/2003

Analyst: AC

Client: Resolution Copper Co.

·T	SVL#:	Fluoride	Chloride	Nitrite/N	Bromide	Nitrate/N	Phosphate/P	Sulfate
1	ICY	a.51	4.93	<u> </u>	5.09	, , , , , , , , , , , , , , , , , , ,		9,94
	ICV True	2.5	5,0		5.0			10,0
2	ICB	<0.1	<0,2		<0.1			<0,3
3	CCV True	ಎ.೦	ವ. ರ		5,0		, , , , , , , , , , , , , , , , , , ,	10.0
4	CCVI	1.97	1.92		5.04			9,84
5	CCB1	<0.1	<0,2		<0,/			<0.3
6	cova	1.97	1.94		ອ, //			9.96
7	CCBA	<0,1	10,2		10.1			<0.3
8	CCV3	1.96	1.89		5,00			9,78
9	CCB3	<0,1	10,2		10,1			40.3
10	CCV4	1.94	191		4,95			9.71
11	CCB4 ·	50,1	10.2	•	<0.1			50,3
12	CCV5	1.91	1,88		4.96			9,79
13	ces5	50.1	150,2		1 < 0,1			<0,3
14					<u> </u>			
15.			<u> </u>			<u> </u>		
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4	0		1				SVL	nalytical

# SVL ANALYTICAL, INC.

SDG: 106003

Single Addition Method of Standard Additions

$$C_{X} = \frac{S_B V_S C_S}{(S_A - S_B) V_X}$$

S_A = Spiked Sample Absorbance

S_B = Sample Absorbance

 $V_S = Spike Volume = 0.05 mL$ 

 $C_s$  = Spike concentration = 400 ug/L

 $V_X$  = Sample Volume = 0.95 mL

# QC SOURCES FOR SDG 106003

ICP SOURC	ES
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<u>Lab ID</u>	
19-40-7	
19-40-7	
19-37-7	
QC1975SN8	_
19-40-1	
19-40-3	
QC1975SN8	
	19-40-7 19-40-7 19-37-7 QC1975SN8 19-40-1 19-40-3

QC1975SN8	Lab ID
N5	19-11-1
SVL7	19-24-2
	Lot#
QC19	CPI 3BB133
QC7	CPI 3CB013
QCSN	CPI 1FM085
QCSC	CPI 1BS126

## **GFAA SOURCES**

As,Pb.Sb,Se,TI	<u>Lab ID</u>	
Standard stock 1	18-7-6	
Standard stock 2	18-7-7	
ICV	18-7-2	
CCV	18-7-6	
LCS	18-4-4	
Matrix Spike	18-4-4	
Analytical Spike	18-8-1	

Cd.Ag	<u>Lab ID</u>	
Standard stock	18-7-8	
ICV	18-7-5	
CCV	18-7-8	
LCS	18-4-4	
Matrix Splke	18-4-4	
Analytical Spike	18-7-9	

<u>Ha</u>	Lot#
īcv	SPEX 18-7-3
CCV	CPI 2HT082
Matrix Spike	CPI 2HT082

Classical Che	mistry Şources
ĪC	<u>Lab ID</u>
ĪCV	21-1-1
CCV	21-1-2
ALK	Lot#
LCS	NSI QC1-110-123102
Sulfide	Lot #

<u>Sulfide</u>	LOT#
LCS	ERA 02112
TDS/TSS LCS	<u>Lot#</u> ERA 020303

LAB ID's refer to LAB ID# column found on Metals Standards Prep Logbook sheets Included with this page.

Lot # refers to manufacturer's lot number for commercially prepared solutions.

ICP Standards are made from single element standards from CPI. The ICV solution is made from a multi-element standard.

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ICP

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ICA Source

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# APPENDIX E ITSI STANDARD LEGAL NOTICE

# ITSI STANDARD LEGAL NOTICE

ITSI is issuing this report at the request of the Client and based upon information furnished by Client. Further, the presence of environmental contamination can be influenced by many factors, including unknown and changing underground conditions. Therefore: 1. This report may not be relied upon by anyone for financial decision-making. 2. No one other than Client is authorized to use this report for any purpose. 3. Any conclusions or opinions included in this report are subject to reasonable revision based upon any new environmental or other data which is later developed. 4. Any results or conclusions stated are to be considered limited by the quality of the underlying sample or other data on which they are based, the budget established by the Client or otherwise for gathering and analyzing data, and by any assumptions and qualifications contained within this report.

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May 25, 2006

Dr. Casey McKeon Resolution Copper Company 47206 North Magma Shaft #9 Road Superior, Arizona 85273

RE: ITSI DATA VALIDATION REPORT RESOLUTION COPPER PURCHASE ORDER NUMBER H00414 SDG PNK0605

Dear Dr. McKeon:

Innovative Technical Solutions, Inc. (ITSI) has completed the data review for Resolution Copper Company (RCC) for its Surface Water Baseline Investigation. ITSI performed data review as described in the U.S. Environmental Protection Agency's (EPA) Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, October 2004; the Quality Assurance Plan Surface Water Baseline Resource Investigation for Resolution Copper Company, January 23, 2006; and using criteria in the referenced methods.

The acronym listing is included as Appendix A. Data review qualifiers have been marked in red directly on the analytical reports provided by the laboratory and are attached as Appendix B. A summary of all qualified data is provided in a qualified results table (QRT) as Appendix C. Laboratory communications are provided as Appendix D. The ITSI standard legal notice is provided as Appendix E.

# 1.0 CROSS REFERENCE OF SAMPLES VERIFIED

The analytical data in the laboratory Sample Delivery Group (SDG) indicated below were reviewed. This SDG contained data for the following methods and compounds.

- General Chemistry Methods
  - Ion chromatography (IC) anions by EPA Method 300.0
  - Color by Standard Method (SM)2120B
- Microbiology Methods
  - E. coli by SM9221F
  - Total coliform by SM9221B-C

The samples were analyzed by Del Mar Analytical of Phoenix, Arizona (DMAP). The color analysis was subcontracted to Del Mar Analytical of Irvine, California (DMAI). The table below provides an analytical summary and cross reference for the samples. All samples underwent a level 2 data validation.

Field Sample ID	Sample Matrix	DMAP SDG	General Chemistry	Microbiology
RESE-1 001 176	Water	PNK0605-01	X	X
RESE-1 001 176	Water	PNK0605-02	Х	X

### 2.0 LABORATORY REPORT

The laboratory used data qualifier flags, which are addressed in Section 4.0 to indicate quality control exceedences. There were no anomalies noted in the case narrative that required qualification of the data except as noted below.

 Not all holding times were met. Results were qualified where the sample analysis did not occur within method specified holding time requirements.

### 3.0 SAMPLE INTEGRITY

The chains-of-custody (COCs) were available for review, and there were no anomalies that required data qualifier flags.

### 4.0 DATA EVALUATION

### 4.1 IC ANIONS BY EPA METHOD 300.0 AND COLOR BY SM2120B

### 4.1.1 Holding Times

The samples were extracted and analyzed within the method-recommended holding time except as noted below.

The laboratory data qualifiers indicated that the samples were received and analyzed past
the holding time for color. The method recommends that the samples be analyzed as
soon as possible after collection. Since the Quality Assurance Plan has defined the
holding time as two days and the samples were analyzed within this criteria, no data
qualifiers are required.

### 4.1.2 Blank Evaluation

Method blanks were analyzed to assess laboratory contamination. There were no anomalies in the reported blanks that required qualification of the data.

2



RCC PNK0605 r.0

### 4.1.3 Initial and Continuing Calibration

The calibration data and summaries were reviewed. All initial and continuing standards were analyzed at the proper frequency and the standards met the method or Quality Assurance Plan criteria.

### 4.1.4 Second Source Calibration Verification (SSCV)

The SSCV was reviewed. There were no anomalies that required qualification of the data.

# 4.1.5 Laboratory Control Samples (LCS)/Laboratory Control Samples Duplicate (LCSD)

LCS/LCSD pairs were reported for the IC analyses. There were no anomalies that required qualification of the data.

# 4.1.6 Matrix Spike (MS), Matrix Spike Duplicate (MSD) and Duplicate Samples

A MS/MSD pair was reported for the IC analysis. A sample duplicate was reported for the color analysis. There were no anomalies that required qualification of the data.

## 4.1.7 Practical Quantitation Limits (PQLs) and Compound Quantitation

The laboratory reporting limits (RLs) and results were reviewed. There were no quantitation anomalies.

### 4.1.8 Instrument Performance

Chromatographs were reviewed for the IC analysis. There were no anomalies that required qualification of the data.

### 4.1.9 Field Duplicate Samples

Field duplicate samples were not identified.

## 4.1.10 Assessment for General Chemistry

There were no rejected general chemistry analytical results. Based on the available information, the data are considered useable for their intended purposes.



3

# 4.2 E. COLI BY SM9221F AND TOTAL COLIFORM BY SM9221B-C

### 4.2.1 Holding Times

All samples were extracted and analyzed within the method-recommended holding time except as noted below.

• The preparation holding time of six hours between collection and initiation of analysis for E, coli and total coliform was exceeded. The associated positive sample results have been flagged "J" for an estimated value and the non-detect results have been flagged "UJ" for an estimated holding time.

### 4.2.2 Incubation Temperature

The incubator temperatures were reviewed. There were no anomalies that required qualification of the data.

### 4.2.3 Quality Control

The laboratory used five tubes per dilution to calculate the five dilution most probable number index with a 95 percent confidence interval.

# 4.2.4 PQLs and Compound Quantitation

The laboratory RLs and results were reviewed. There were no quantitation anomalies.

## 4.2.5 Field Duplicate Samples

Field duplicate samples were not identified.

# 4.2.6 Assessment for Microbiology

There were no rejected microbiology analytical results. Based on the available information, the data as qualified are considered useable for their intended purposes.

# 5.0 OVERALL ASSESSMENT FOR SDG

There were no rejected analytical results in this SDG. Based on the available information, the data as qualified are considered useable for their intended purposes.



### 6.0 RECOMMENDATIONS

ITSI recommends that the temperatures of the incubator be documented in the coliform logbook in the designated space.

We thank you for the opportunity to serve you and look forward to supporting RCC with data review in the future.

Sincerely,

Innovative Technical Solutions, Inc.

Evelyn H. Dawson Project Chemist

Appendix A-List of Acronyms and Abbreviations

Appendix B - Qualified Report Pages

Appendix C - Qualified Results Table

Appendix D - Laboratory Communications

Appendix E - ITSI Standard Legal Notice

cc: John Malusa Golder Associates, Inc. 4730 North Oracle Road, Suite 210 Tucson, Arizona, 85705



# APPENDIX A LIST OF ACRONYMS AND ABBREVIATIONS

# LIST OF ACRONYMS AND ABBREVIATIONS

COC chain-of-custody

DMAI Del Mar Analytical of Irvine, California
DMAP Del Mar Analytical of Phoenix, Arizona
EPA U.S. Environmental Protection Agency

IC ion chromatography

ITSI Innovative Technical Solutions, Inc.

LCS/LCSD laboratory control spike/laboratory control spike duplicate

MS/MSD matrix spike/matrix spike duplicate

ORT qualified results table

RCC Resolution Copper Company

RL reporting limit

SDG sample delivery group SM Standard Method

# LIST OF DATA VALIDATION QUALIFIER FLAGS

J estimated value

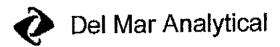
J- estimated value, low bias
J+ estimated value, high bias
R rejected, not useable

U not detected

UJ estimated reporting limit
UR rejected, unusable RL



# APPENDIX B QUALIFIED REPORT PAGES



1746 I Derien Ave., Sulte 100, Irvine, CA 92614 (949) 251-1022 FAX (949) 260-3297 1014 E. Cooley Dr., Sulte A, Colton, CA 92324 (909) 370-4657 FAX (949) 370-1046 9464 Chesapeake Dr., Sulte 805, San Diego: CA 92123 (858) 505-8596 FAX (858) 505-9689 9830 South 51st St., Sulte 8-120, Phoenix, AZ 65044 (480) 785-0043 FAX (480) 785-0851 2520 E. Sunset Rd #3, Las Veges, NV 89120 (702) 796-3620 FAX (702) 798-3621

Resolution Copper

Project ID: [none]

PO Box 1944, 102 Magma Heights

Report Number: PNK0605

Sampled: 11/18/04

Superior, AZ 85273 Attention: Mimi Hart Received: 11/19/04

	M	MICROBI	OLOGICA	ALS				
Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PNK0605-01 (RESE-I 001) Reporting Units: MPN/100 ml	176 - Water)							
E. Coli	SM9221F	P4K1925	2.0	ND	1		11/21/2004	ні Э
Total Coliform	SM9221B-C	P4K 1925	2.0	23	1	11/19/2004	11/22/2004	ні У
Sample ID: PNK0605-02 (RESE-I 001	177 - Water)							
Reporting Units: MPN/100 ml	SM9221F	P4K1925	2.0	ND	1	11/19/2004	11/21/2004	HI J
E. Coli Total Coliform	SM9221B-C	P4K1925	2.0	ND	1	11/19/2004	11/22/2004	ні 🗊
rotal Comonn	D1-1744 1-17 W							

# APPENDIX C QUALIFIED RESULTS TABLE

# Qualified Results Table for Resolution Copper SDG PNK0605 November 2004

Sample	DMAPID	Parameter	Original Value	Original Onalifier	Added	New Value	Units	Reason	Туре	Method	Validator
RESE-1 001 176 PNK0605-01	PNK0605-01	E. coli	<2.0			2.0 UJ	MPN/100mL	Holding Time	Water	SM9221F	ESL
RESE-1 001 176 PNK0605-01	PNK0605-01	Total coliform	23	Ŧ	_	23.1	MPN/100mL	Holding Time	Water	SM922B-C	ITSI
RESE-1 001 177 PNK0605-02	PNK0605-02	E. coli	<2.0	HI	-	2.0 UJ	MPN/100mL	Holding Time	Water	SM9221F	ITSI
RESE-1 001 177 PNK0605-02 Total coliform	PNK0605-02	Total coliform	0.25	Ħ	_	2.0 UI	MPN/100mL	Holding Time	Water	SM922B-C	ITSI

# Abbreviations

SDG = sample delivery group

MPN/100mL = most probable number per 100 milliliters

dnous A

UJ = estimated reporting limit

11

Data Qualifier Flags estimated value

# APPENDIX D LABORATORY COMMUNICATIONS

# Laboratory Questions for Resolution Copper Company

Lab	Date	No.	SDG	Method	Question/Concern
DMA	05/10/06	1	PNK0605	Color	Please provide the COC, sample temperature and shipping documentation for shipment of samples to DMA, Irvine.
DMA	05/10/06	2	PNK0605	E. Coli Total coliform	The incubation temperatures for E. Coli and total coliform were not documented on the analysis worksheet. Please provide documentation that the incubation temperatures were in control for the time period of the analysis (such as daily temperature log).

### Peggy Cota

From:

Ken Baker [kbaker@dmalabs.com]

Sent:

Thursday, May 11, 2006 4:38 PM

To:

Peggy Cota

Subject:

RE: RCC Lab Questions

Attachments: PNK0605-INK1550coc.pdf

### Peggy,

Hi there! I received your email. I'll get this in motion. Here is the coc. I will be out until next Wednesday. I will touch base with you then.

Ken

From: Peggy Cota [mailto:pcota@ltsi.com] Sent: Thursday, May 11, 2006 4:31 PM

To: Ken Baker

Subject: RCC Lab Questions

Hi Ken,

Please find attached the questions for Resolution Copper Company for SDG PNK0605.

Thank you for your help. Please call if you have any questions.

Peggy Cota **Project Chemist** Innovative Technical Solutions, Inc. 1501 W. Fountainhead Parkway, Suite 360 Tempe, Arizona 85282 (480)-706-6488 ext. 3397 (480)-704-2952 fax pcota@itsi.com

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17461 Denen Ave. Suite 100, Irvine, CA 92614 Ph (949) 261-1022 Fex (949) 261-1228 1014 E. Cooley Cr., Suito A, Colton, CA 92324 Ph (909) 370-4667 Fax (909) 370-1046 9484 Chosapesike Driva, Susta 805, San Diego. CA 92123 Pri (619) 808-9596 Fax (619) 505-9689

9630 South 51 at Street, Bulle B-120, Phowrist, AZ 85044 Ph (480) 785-0043 Fax (480) 786-0851

Ph (702) 708-3620 Pac (702) 700-3521

# SUBCONTRACT ORDER - PROJECT # PNK0605

### SENDING LABORATORY:

Dei Mar Analytical - Phoenix 9830 South 51st Street, Suite B-120

Phoenix, AZ 85044 Phone: (480) 785-0043 Fax: (480) 785-0851 Project Manager: Ken Baker RECEIVING LABORATORY:

Del Mar Analytical - Irvine 17461 Derian Ave. Suite 100 Irvine, CA 92614

Phone: (949) 261-1022 Fax: (949) 261-1228

INK1550

Analysis	Expiration	Due	Comments	
Sample ID: PNK0605-01 Wa	ster Sampled 11/20/04 08:50	1: 11/18/04 08:50 12/01/04 15:00	Okay to run past hold	
Containers Supplied: 250 ml Poly (PNK0605-01D	)			······\
Sample ID: PNK0605-02 Wi	ster Sampled 11/20/04 10:45	1: <b>11/18/04 10:45</b> 12/01/04 15:00	Okay to run past hold	
Containers Supplied: 250 ml Poly (PNK0605-02D	)			



All containers intact: Yes No Custody Seals Present: Yes No	SAMPLE Sample labels/COC agree: Samples Preserved Property;		Samples Received On Ice:: Samples Received at (temp);	Yes □ No
Released By		Received By  Received By  Received By	Date 11-20-0	Time Time
Released by				Page 1 of 1

### **Peggy Cota**

From:

Ken Baker [kbaker@dmalabs.com]

Sent:

Friday, May 19, 2006 3:16 PM

To:

Peggy Cota

Subject:

RE: RCC data

Attachments: pnk0605-bacti-raw.PDF

Peggy,

Hope this is what you need. Let me know if it is not.

Ken

From: Peggy Cota [mailto:pcota@itsi.com] Sent: Friday, May 19, 2006 2:09 PM

To: Ken Baker Subject: RCC data

Hi Ken,

I'm following up on the lab questions for Resolution Copper Company (RCC) that I sent you last week. I received the COC, but not the temperature verifications for the incubator. We need the data to complete our validation report for RCC. Can you please provide the responses by early next week?

Please contact me if you have any questions.

Thank you for your help.

Peggy

Peggy Cota
Project Chemist
Innovative Technical Solutions, Inc.
1501 W. Fountainhead Parkway, Suite 360
Tempe, Arizona 85282
(480)-706-6488 ext. 3397
(480)-704-2952 fax
pcota@itsi.com

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### **DMAP INCUBATOR TEMPERATURE LOG**

The temperature must be 35°C ± 0.5°C

Please indicate Incubator # 's & Shelf using the following designators (Incubators: I - 2 or I - 3 & US = Upper Shelf or LS = Lower Shelf)

Date	1	ator No. Shelf	Time (AM)	Temperature AM	Time PM	Temperature PM	Analyst Initials & Comments
4.18.04	I-6	5	7:18	35-0	12:59	35.0	Xo
1	4	<u> </u>	1	34.9		35.2	
	L-3	us		35.4		35.1	
	<u> </u>	<u> 15</u>		34.7		34.8	
	I-4	us		35.4		35.3	100000000000000000000000000000000000000
4	4	LS	<u> </u>	35.1	4	34.8	<b>1</b>
11.19.04	T-6	ı	8:04	35.0	12:04	35.0	80
<u> </u>		2_		35.2		35.1	
		3		35,4		35.3	
		Ч		34.9		34.9	
	<u> </u>	S		35.2		35 J	
	<u> </u>	<u> </u>		35.2		35.	
	F-3	us		<i>3</i> 5.2		<u> 35.4</u>	
	4	<u> </u>		34-7		34.7	
	T-4	us		35.4		3 <i>5.</i> 2	
	<u> </u>	LS	100000	35.0	4	<i>3</i> 5. <u>)</u>	4
11.20.04	T-6		8 14:04	34.9	4/20/04/14:49	35.0	Ko
				35.0		35.2	
		3		35.3		35.3	
		<u>4</u>	,,	34.9		34. A	
		S		35.0		35.0	7/4
		þ		35.0		35.1	
	r.3	us		35.4		35,4	
,	7	LS		35.0		34. <b>%</b>	
	T.4	us		35.4		39.4	
_4	\	LS	<u> </u>	35.0	<b>V V</b>	34.8	
11.22.04	F. le		7:58	35.0	15:03	34.9	20
	1	2		35.1		35.0	
		5		35.3		3S 2	
	_	<u> </u>		35_D		34.9	
		2		35.1		35.0	
	4	Ÿ		35.3		35.)	
	<u> [~3 </u>	145		35.4		35.4	
<u> </u>	<u> </u>	LS	<u> </u>	35.0	$\Psi$	35.0	V

Reviewed	hy Date:	
I/CAIRMEN	UV LJAHE.	

# DMAP COLIFORM MPN LOGBOOK

E Coll SM 9221F賞 Total collform SM 9221B 纂 Fecal Collform SM 9221E 器 (Please check one or more)

Result MPN / 100mL Analyst Initials/Date/Time Setup: 11.11.64 29 14.10 んしん 7.69 K. Pneumoniae 4010235 Controls Res. Chlorine_ 4 ΧŽ ž ۲ ı í ŧ ö ٥ O + E. Aerogenes Combi Tip Lot: \$113.284/3244 Received 13:15 ダラ 1 4 4 + + \$22040n 1+1+ 03 0 E. Faecalis ۵ ï Ŧ + + ŧ 1 + + 4090232 ++++ ŧ + 0.0) 4 Batch ID: PHY 1925 4 ١ 1 Q + O +/- Controls |E. Coll 1 + 4 ٢ Number of Positive Tubes Number of Positive Tubes Number of Positive Tubes # LO1 Growth Growth Growth Growth Growth Growth Growth Growth Gas Gas Gas Gas Gas Gas Gas Gas Pluoresence 111504 ECB-MUG 15:08 ふっ Maxi Tip Lot: <u>O1107 99 2 253</u>4 14:44 15:10 15:14 51:5 5:18 Sample ID: PAUD 605.01 & B Ş 42 \$ S S ECB 11.20.04 11.10.04 11.22.04 24Hr Initials/Date\Time Read: 1(1. U.o U mLs of Sample; 1.20 pu 1(-24.04 11. Way HONO! BGBB 49Hr Initials\Date\Time Read: 48Hr Initials\Date\Time Read: 72Hr Inklais\Date\Time Read; Initials/Date/Time Read: Initials\Date\Time Read; 4137 Initials\Date\Time Read: Initiais\Date\Time Read; Initlais\Date\Time Read: LSB_{x2} 24 Hour Incubation* Presumptive 48 Hour Incubation 24 Hour Incubation 24 Hour Incubation* Confirmation 48 Hour Incubation 48 Hour incubation Incubator Location: エーレ もん 24 Hour Transfer* Confirmation 48 Hour Transfer* Date\Time Read; ± 2. Reincubate Reincubate 274 LSB Dilution Water Lot: Confirmation MEDIA Coliform Chiforn F Coll LOT# otal Otal 縣 Fecal Notes:

* Record the Transfer Time / Temperature *C / Initials
G: DMAP/Forms/Logbooks/coliformMPNlog.xts

::

Reviewed by Date: (2) 11/3-9/2y

# DMAP COLIFORM MPN LOGBOOK

E Coli SM 9221F 🔰 Total coliform SM 92218

Incubator Location: I-C #6

Fecal Coliform SM 9221E 爨 (Please check one or more)

Result MPN / 100mL Analyst Initials/Date/Time Setup: 11.19.04 Po M:64 Res. Chlorine Net K. Pneumoniae Controls + 2090236 ۲ ک Š Š 4 1 ١ 1 + I 4090233 0 0 E. Aerogenes 4. Ī Combi Tip Lot: 51/3/284/52214 Received 13:15 ١ 1 4-+ ( ١ <u>+</u> <u>ن</u> د 1 τ 4090232 4090233 0 E. Faecalls 4 + Į 7 ٠, + 1 ţ .j. + +t 1 0.0 4 4 7 ŧ 4 ŧ Batch ID: PUKIA 25 +/- Controls E. Coll + + + 4 Number of Positive Tubes Number of Positive Tubes Number of Positive Tubes LOT# Growth Growth Growth Growth Growth Growth Growth Growth Gas Gas Gas Gass Gas Gas Gas Gas Sas Fluoresence ECB-MUG 111564 10:51 10:51 ながか 14:55 Maxi Tip Lot: 01107992,536 15:12 14: 58 Sample ID: P. VIC66.05.01 48 412 \$ \$ 2 ECB 8 #.22.04 11.20 ou il. 20.04 mLs of Sample: 11.21.94 11.21.04 11.20.04 HONO! BGBB 24Hr Initials\Date\Time Read: 48Hr Initials\Date\Time Read: 48Hr Initials\Date\Time.Read: 72Hr Initials\Date\Time Read: Initials\Date\Time Read: Initials\Date\Time Read: Initials\Date\Time Read: Initials\Date\Time Read: Initials\Date\Time Read: L237 LSB_x2 24 Hour incubation* 24 Hour Incubation* 24 Hour Incubation 48 Hour Incubation Confirmation 48 Hour Incubation Confirmation 48 Hour Incubation 24 Hour Transfer* Confirmation 48 Hour Transfer* Dale\Time Read: <u>د</u> ح Reincubate ReIncubate 1820 Dilution Water Lot: Presumptive | NE-Col Coliform Coliform Fecal LOT # MEDIA otal Notes:

Record the Transfer Time / Temperature °C / Initials

S: DMAP/Forms/Lagbooks/coliformMPNlog.xls

Reviewed by Date: 62

# DMAP COLIFORM MPN LOGBOOK

Fecal Collform SM 9221E 🊆 (Please check one or more) E Coli SM 9221F 資 Total collform SM 9221B 選

Analyst Initials/Date/Time Setup: 11 . 1 1 . 4 . 4 . 4 . 12 . 13 . 13 7 8 Result MPN / 100mL Res. Chlorine Next Controls К. Рпеитопіае Ž ξZ ž ₹ 2 E. Aerogenes 10:15 W090233 + ¥ エデ 4 4 ¥ Received <u>-</u> + 4 4000233 E. Faecalls ナーナーナー 4 Combi Tip Lot: 5113284132214 ++++ 0.0 <u>۲</u> 4090232 4 Batch ID: PHKIR 25 +f- Controls | E. Coll Number of Positive Tubes Number of Positive Tubes Number of Positive Tubes LOT# Growth Growth Growth Growth Growth Growth Growth Growth Gas Ges Gas Gas Gas Gas Gas Gas Fluoresence ECB-MUG ≾. ∢! ∢ Maxi Tlp Lot: 01107 992 2530 14:01 Sample ID: Pux 0592 - 61 こどが וונוסא 3 ECB mLs of Sample: 11.20.0L W. 21.04 ₹ ₹ 11.20.04 BGBB 48Hr Initials\Date\Time Read: 24Hr Initials\Date\Time Read: 48Hr Initials\Date\Time Read: 72Hr Initials\Date\Time Read: Initials\Date\Time Read: Initials\Date\Time Read: Initials\Date\Time Read: Initials\Date\Time Read: Initials\Date\Time Read: 4237 LSB_X2 24 Hour Incubation* 24 Hour Incubation* Presumptive 48 Hour incubation Confirmation 48 Hour Incubation Confirmation 48 Hour Incubation 24 Hour Incubation 24 Hour Transfer* Confirmation 48 Hour Transfer* Date\Time Read: <u>د</u> Incubator Location: I-L Reincubate Reincubate 1824 LSB Dilution Water Lot: E-Coll Collform Collform Fecal Fecal LOT * MEDIA 劉otal Notes:

* Record the Transfer Time / Temperature *C / Initials

G: DMAP/Forms/Logbooks/collformMPNlog.xls

Reviewed by Date: Fire 11/20/84

# APPENDIX E ITSI STANDARD LEGAL NOTICE

### ITSI STANDARD LEGAL NOTICE

ITSI is issuing this report at the request of the Client and based upon information furnished by Client. Further, the presence of environmental contamination can be influenced by many factors, including unknown and changing underground conditions. Therefore: 1. This report may not be relied upon by anyone for financial decision-making. 2. No one other than Client is authorized to use this report for any purpose. 3. Any conclusions or opinions included in this report are subject to reasonable revision based upon any new environmental or other data which is later developed. 4. Any results or conclusions stated are to be considered limited by the quality of the underlying sample or other data on which they are based, the budget established by the Client or otherwise for gathering and analyzing data, and by any assumptions and qualifications contained within this report.





June 28, 2006

Dr. Casey McKeon Resolution Copper Company 47206 North Magma Shaft #9 Road Superior, Arizona 85273

RE: ITSI DATA VALIDATION REPORT RESOLUTION COPPER PURCHASE ORDER NO. H00414 SDG 118381

Dear Dr. McKeon:

Innovative Technical Solutions, Inc. (ITSI) has completed the data review for Resolution Copper Company (RCC) for its surface water baseline resource investigation. ITSI performed data review as described in the U.S. Environmental Protection Agency's (EPA) Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, October 2004; the Quality Assurance Plan Surface Water Baseline Resource Investigation for Resolution Copper Company, January 23, 2006; and using criteria in the referenced methods.

The list of acronyms and abbreviations is included as Appendix A. Data review qualifiers have been marked in red directly on the analytical reports provided by the laboratory and are attached as Appendix B. A summary of all qualified data is provided in a qualified results table (QRT) as Appendix C. Laboratory communications are provided as Appendix D. The ITSI standard legal notice is provided as Appendix E.

### 1.0 CROSS REFERENCE OF SAMPLES VERIFIED

The analytical data in the laboratory Sample Delivery Group (SDG) indicated below were reviewed. This SDG contained data for the following methods and compounds.

### Metals

- Inductively coupled plasma/atomic emission spectroscopy (ICP/AES) metals by EPA Method 200.7
- ICP/mass spectrometry (MS) metals by EPA Method 200.8
- Cold vapor atomic absorption (CVAA) mercury by EPA Method 245.1
- Atomic absorption (AA), furnace technique for cadmium (EPA Method 213.2) and silver (EPA Method 272.2)

- General Chemistry Methods
  - Alkalinity, CaCO₃ by Standard Method (SM) 2320B
  - Ion chromatography (IC) anions by EPA Method 300.0
  - Sulfide by EPA 376.1
  - Total dissolved solids (TDS) by EPA Method 160.1
  - Total Settable Solids (TSS) by EPA Method 160.2

The samples were analyzed by SVL Analytical (SVL) of Kellogg, Idaho. The table below provides an analytical summary and cross reference for the sample(s). All samples underwent a level 2 data validation.

Field Sample ID	SVL SDG	Collection Date	Туре	Sample Matrix	Metals	General Chemistry
RESE-1 001 222	W463497	08/08/05	Total	Water	X	X
RESE-1 001 223	W463498	08/08/05	Total	Water	X	X
RESE-1 001 224	W463499	08/10/05	Total	Water	X	X
RESE-1 001 225	W463500	08/10/05	Total	Water	X	X
RESE-1 001 226	W463501	08/10/05	Total	Water	X	X
RESE-1 001 222	W463502	08/08/05	Dissolved	Water	X	
RESE-1 001 223	W463503	08/08/05	Dissolved	Water	X	
RESE-1 001 224	W463504	08/10/05	Dissolved	Water	X	
RESE-1 001 225	W463505	08/10/05	Dissolved	Water	X	
RESE-1 001 226	W463506	08/10/05	Dissolved	Water	X	
RESE-1 001 222	W463523	08/08/05	Total Recoverable	Water	X	
RESE-1 001 223	W463524	08/08/05	Total Recoverable	Water	X	
RESE-1 001 224	W463525	08/10/05	Total Recoverable	Water	X	
RESE-1 001 225	W463526	08/10/05	Total Recoverable	Water	X	
RESE-1 001 226	W463527	08/10/05	Total Recoverable	Water	Х	

### 2.0 LABORATORY REPORT

The laboratory used data qualifier flags that are addressed in Section 4.0 to indicate quality control (OC) exceedences. There were no anomalies in the case narrative except as noted below.

- Note the there are dilutions on the blank and laboratory control samples for Total Metals analysis by ICP-MS. The dilutions are due to the need to reduce the amount of chloride in the samples prior to analysis. The chloride is from the HCl added according to the method digestion.
- For all samples in this job, the (C/A) Balance exceeds the expected range with an apparent deficit of anions. Nitrates are present in these samples; the amounts were not determined or reported but would contribute to the anion sums, providing more acceptable balances.



RCC SDG118381 DVR t.0 2

• Sample RESE-1 001 225 has a poor TDS ratio. The measured TDS was 30 mg/L, and the calculated TDS was 56 mg/L. The expected TDS would be in the range of 45-57 mg/L. Although the sample was well out of holding time for TDS, it was reanalyzed with a result of 101 mg/L. The sample apparently contains something that does not allow an accurate measurement of TDS.

### 3.0 SAMPLE INTEGRITY

The chains-of-custody (COCs) were available for review. There were no anomalies that required qualification of the data except as noted below.

 The laboratory noted that the dates and times on the COC and sample containers were different. For data validation purposes, the dates and times on the samples containers were used by ITSI for evaluation of holding times.

### 4.0 DATA EVALUATION

### 4.1 METALS BY EPA METHODS 200.7, 200.8 245.1, 213.2 AND 272.2

### 4.1.1 Sample Receipt and Holding Times

The samples were extracted and analyzed within the method-recommended holding time. There were no anomalies concerning the receipt of the samples that required qualification of the data.

### 4.1.2 Blank Evaluation

Preparation and calibration blanks were analyzed to assess laboratory contamination. There were no anomalies in the reported blanks that required qualification of the data except as noted below.

Several metals were detected in the initial, continuing and preparation blanks associated
with all the metal analysis. The sample results that were less than ten times (10X) the
highest blank contamination have been raised to the observed value. No data qualifiers
are required for the results that are greater than 10X the highest blank contamination or
are non-detect.

### 4.1.3 Initial and Continuing Calibration

The initial and continuing calibration data and summaries were reviewed. All calibration standards were analyzed at the proper frequency and met the method or Quality Assurance Project Plan (QAPP) criteria.



### 4.1.4 Second Source Calibration Verification (SSCV)

The SSCVs were reviewed. There were no anomalies that required qualification of the data.

### 4.1.5 Laboratory Control Samples (LCS)/Laboratory Control Samples Duplicate (LCSD)

A single LCS was analyzed for all of the total, dissolved and total recoverable metal samples. There were no anomalies that required qualification of the data.

### 4.1.6 Matrix Spike (MS)/Matrix Spike Duplicate (MSD) and Duplicate Samples

An MS and sample duplicate were analyzed for each metal analysis. There were no anomalies that required qualification of the data except as noted below.

- The relative percent difference (RPD) for cadmium was out of the QAPP criteria of less than 20 at 66.7 percent in the sample duplicate associated with the EPA Method 213.2 total metal analysis. The associated positive results in samples RESE-01 001 222, RESE-01 001 224, RESE-01 001 225 and RESE-01 001 226 have been flagged "J" for an estimated value. No data qualifiers are required for the non-detect results.
- The percent recovery for cadmium was out of the QAPP criteria or 85 to 115 percent in the MS associated with the EPA Method 213.2 total metal analysis. Since the LCS recovery was acceptable, only the result in spiked sample RESE-01 001 225 has been flagged "J" for an estimated value.

### 4.1.7 Detection Limit Check Standard (CRDL)

A CRDL check standard was analyzed prior to the ICP/AES sample analysis. There were no anomalies that required qualification of the data. The following anomaly required qualification of the data for the ICP/MS analysis.

A CRDL check standard was not analyzed for the metals analyzed by ICP/MS. Since the
laboratory did not verify the linearity of the curve near the QAPP RLs, the associated
non-detect results have been flagged "UJ" for an estimated reporting limit. No data
qualifiers are recommended for the positive results.

### 4.1.8 Serial Dilution

A serial dilution for the ICP/AES analysis was previously performed on a project matrix sample from SDG 106003 to check for physical or chemical interferences in the sample matrix. A serial dilution was not required for the ICP/MS analysis. There were no anomalies that required qualification of the data except as noted below.

4



• The percent difference for silica was out of the criteria of less than 10 percent at 11 percent in the serial dilution associated with ICP/AES total metal analysis. The associated results, which were all positive, have been flagged "J" for an estimated value. No qualifier flags are required for the non-detect results.

### 4.1.9 Practical Quantitation Limits (PQLs) and Compound Quantitation

The laboratory PQLs and results were reviewed. There were no quantitation anomalies.

### 4.1.10 Instrument Performance

The interference check samples were reviewed for the ICP analyses. There were no anomalies that required qualification of the data.

### 4.1.11 Field Duplicate Samples

Field duplicate samples were not identified.

### 4.1.12 Assessment for Metals

There were no rejected metal analytical results. Based on the available information, the data as qualified are considered useable for their intended purposes.

### 4.2 GENERAL CHEMISTRY METHODS

### 4.2.1 Sample Receipt and Holding Times

There were no anomalies concerning the receipt of the samples or holding time that required qualification of the data except as noted below.

• Samples RESE-1 001 222 and RESE-1 001 223 were analyzed two days past the holding time of seven days for TDS and TSS and one day past the holding time of seven days for sulfide. The associated positive results have been flagged "J" for an estimated value, and the non-detect results have been flagged "UJ" for an estimated RL.

### 4.2.2 Blank Evaluation

Method blanks were analyzed to assess laboratory contamination. There were no anomalies in the reported blanks that required qualification of the data.

### 4.2.3 Initial and Continuing Calibration Evaluation

The initial and continuing calibration data and summaries were reviewed. All calibration standards were analyzed at the proper frequency and met the method or QAPP criteria.



RCC SDG118381 DVR r 0 5

### 4.2.4 SSCV

The SSCVs were reviewed. There were no anomalies that required qualification of the data.

### 4.2.5 LCS/LCSD

A single LCS was reported for each analysis. There were no anomalies that required qualification of the data.

### 4.2.6 MS/MSD and Duplicate Samples

MS and/or sample duplicates were analyzed for each analysis except sulfide. There were no anomalies that required qualification of the data except as noted below.

• The percent recovery for bromide was out of the QAPP criteria of 90 to 110 percent at 87.8 percent in the MS. Since the LCS recovery was acceptable, only the positive result in spiked sample RESE-1 001 222 has been flagged "J" for an estimated value.

### 4.2.7 PQLs and Compound Quantitation

The laboratory PQLs and results were reviewed. There were no quantitation anomalies that required qualification of the data except as noted below.

• The method for TSS requires that a sample be dried and weighed until the sample weights are constant or the difference is less than 0.5 milligrams (mg). The laboratory only produced a constant weight difference for the method blank and LCS. Since the project samples were dried and weighed once and the difference between the last two weights for the associated LCS was 0.8 mg, the associated positive sample results have been flagged "J" for an estimated value. No data qualifier flags are required for the non-detect results.

### 4.2.8 Field Duplicate Samples

Field duplicate samples were not identified.

### 4.2.9 Assessment for General Chemistry

There were no rejected general chemistry analytical results. Based on the available information, the data as qualified are considered useable for their intended purposes.



RCC SDG118381 DVR+0

### 5.0 OVERALL ASSESSMENT FOR SDG

There were no rejected analytical results in this SDG. Based on the available information, the data as qualified are considered useable for their intended purposes.

### 6.0 RECOMMENDATIONS

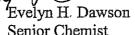
ITSI has the following recommendations.

- The laboratory should analyze an MSD or LCSD with each method to ensure that the analytical batch has precision in the event that the sample duplicate fails or the results of the original sample and the sample duplicate are non-detect.
- The laboratory should analyze a CRDL check standard and serial dilution for the ICP/MS, graphite furnace atomic absorption (GFAA), and CVAA analyses.
- The laboratory should provide measurement of precision for the sulfide analysis.
- The laboratory should dry and weigh all samples for TDS and TSS until a constant weight is obtained or the weight loss is less than 0.5 mg.
- The laboratory follow-up on discrepancies observed in the receipt of the samples.
- The laboratory should analyze a CRDL after the interference check sample ICS and before the, at the beginning and end of each analytical run, and after every 20 analytical samples as outlined in the 2004 EPA Inorganic National Function Guidelines.

We thank you for the opportunity to serve you and look forward to supporting RCC with data review in the future.

Sincerely,

Innovative Technical Solutions, Inc.





#### Enclosures:

Appendix A – List of Acronyms and Abbreviations

Appendix B – Qualified Report Pages

Appendix C - Qualified Results Table

Appendix D – Laboratory Communications

Appendix E – ITSI Standard Legal Notice

cc: John MalusaGolder Associates, Inc.4730 North Oracle Road, Suite 210Tucson, Arizona, 85705



# APPENDIX A LIST OF ACRONYMS AND ABBREVIATIONS

#### LIST OF ACRONYMS AND ABBREVIATIONS

cation/anion C/A COC chain-of-custody

Detection Limit Check Standard CRDL

atomic absorption AA

atomic emission spectroscopy AES cold vapor atomic absorption CVAA

U.S. Environmental Protection Agency EPA graphite furnace atomic absorption **GFAA** 

HCl hydrochloric acid IC ion chromatography

**ICP** inductively coupled plasma interference check sample ICS

Innovative Technical Solutions, Inc. ITSI

laboratory control samples/laboratory control samples duplicate LCS/LCSD

milligram mg

milligrams per liter mg/Lmass spectrometry MS

matrix spike/matrix spike duplicate MS/MSD

practical quantitation limit POL Quality Assurance Project Plan **QAPP** 

QC quality control qualified results table ORT

**RCC** Resolution Copper Company

RLreporting limit

relative percent difference RPD Sample Delivery Group SDG SM Standard Method

Second Source Calibration Verification SSCV

SVL Analytical SVL

Total Dissolved Solids TDS Total Settable Solids TSS

#### LIST OF VALUE FLAGS

estimated value J

estimated value, low bias J-**J**+ estimated value, high bias rejected, not useable R

not detected IJ

UJ estimated reporting limit rejected, unusable RL UR



# APPENDIX B QUALIFIED REPORT PAGES

One Government Gulch P.O. Box 929 Kellogg, Idaho 83837-0929

Phone: (208)784-1258

Fax: (208)783-0891

CLIENT: Resolution Copper Company

PROJECT:

CLIENT SAMPLE ID: RESE-1 001 222

Sample Collected: 8/11/05 8:05

Sample Receipt : 8/12/05 Date of Report : 9/13/05 SVL JOB: 118381

SAMPLE: 463497 T/D/TR

Matrix: WATERS

·····		771	TT 1 4.				
<u></u>	Determination	Result	Units	Dilution	Method	Analyzed	_
T	ALKALINITY	286	mg CaCO3/L		2320B	8/16/05	
T	CO3, CaCO3	<1.0	mg CaCO3/L		2320B	8/16/05	
T	HCO3, CaCO3	286	mg CaCO3/L		2320B	8/16/05	
T	TDS	541	mg/L		160.1	8/17/05	丁
T	TSS	<5.0	mg/L		160.2	8/17/05	15
T	Bromide	0.22	mg/L		300.0	8/23/05	15
T	Calcium	114	mg/L		200.7	8/26/05	
T	Chloride	17.7	mg/L	5	300.0	8/23/05	
T	Fluoride	0.28	mg/L		300.0	8/23/05	***
T	Hardness	435	mg CaCO3/L		2340B	8/26/05	
T	Potassium	2.67	mg/L		200.7	8/26/05	
T	Magnesium	36.2	mg/L		200.7	8/26/05	
T	Sodium	11.4	mg/L		200.7	8/26/05	
T	Sulfide	<1.0	mg/L		376.1	8/16/05	J
T	Sulfate, SO4	82.4	mg/L	5	300.0	8/23/05	
T	Silver	<0.00010			272.2	9/02/05	
T	Aluminum	<0.030	mg/L	_	200.7	8/26/05	
T	Arsenic	0.00380		8	200.8	9/01/05	;
T	Boron	<0.040	mg/L		200.7	8/26/05	:
T	Beryllium	<0.0020			200.7	8/26/05	
T	Cadmium Cobalt	0.00500 <0.0060	mg/L	r	213.2	9/07/05	丁
T	Copper	<0.0000	-		200.7	8/26/05	
T	Iron	<0.010	mg/L		200.7	8/26/05	
T	Mercury	<0.000	mg/L		200.7	8/26/05	
T	Molybdenum	0.0262	mg/L		245.1 200.7	8/16/05 8/26/05	
T	Lead	<0.0030	mg/L	8	200.7	9/01/05	15
T	Antimony	-0:0030		8	200.8	9/01/05	0.00390UJ
T	Selenium	<0.0030	mg/L	8	200.8	9/01/05	7
T	Silica	66.5	mg/L	O	200.7	8/26/05	7
T	Thallium	<0.0020	mg/L	8	200.8	9/01/05	5
T	Zinc	<0.00	mg/L	J	200.7	8/26/05	3
			7	-			7.0.
D	Silver	<0.00010	mg/L		200.8	8/27/05	5
D	Arsenic	0.0033	mg/L		200.8	8/27/05	
D	Barium	0.0255	mg/L		200.7	8/26/05	
D	Beryllium	<0.0020	mg/L		200:7	8/26/05	
D	Cadmium	<0.00020	mg/L		200.8	8/27/05	J
D	Chromium		mg/L		200.7	8/26/05	
D	Copper	<0.010	mg/L		200.7	8/26/05	
D	Mercury	<0.00020			245.1	8/16/05	
D	Nickel	<0.010	mg/L		200.7	8/26/05	
D	Lead		mg/L		200.8	8/27/05	丁
D	Antimony	0.0032	mg/L		200.8	8/27/05	

Continued on next page...

bc Ini 4)28/04

Phone: (208)784-1258

Certificate: AZ AZ0538 ■ Fax: (208)783-0891

CLIENT: Resolution Copper Company

PROJECT:

CLIENT SAMPLE ID: RESE-1 001 222

Sample Collected: 8/11/05 Sample Receipt : 8/12/05

Date of Report: 9/13/05

SVL JOB: 118381 SAMPLE: 463497

T/D/TR

Matrix: WATERS

	Determination	n i	Result	Units	Dilution		Method	Analyzed	
D	Thallium		<0.0020	mg/L		······	200.8	8/27/05	5
D	Zinc		<0.010	mg/L			200.7	8/26/05	
TR	Silver		<0.00010	mg/L	1	***************************************	200.8	8/27/05	」
TR	Arsenic		0.0033	mg/L			200.8	8/27/05	
TR	Beryllium		<0.0020	mg/L			200.7	8/26/05	
	Cadmium		<0.00020	mg/L			200.8	8/27/05	J
TR	Chromium		<0.0060	mg/L			200.7	8/26/05	L L
TR	Copper		<0.010	mg/L			200.7	8/26/05	
TR	Manganese		<0.0040	mg/L			200.7	8/26/05	
TR	Nickel		<0.010	mg/L			200.7	8/26/05	
TR	Lead		<0.0030	mg/L			200.8	8/27/05	して
TR	Antimony		0.0031	mg/L			200.8	8/27/05	'
TR	Selenium		0.0031	mg/L			200.8	8/27/05	
TR	Zinc		<0.010	mg/L			200.7	8/26/05	
	CalcTDS:	520	TDS/Cond	d:	CATION S	30M: 9.	.24meg/I	BALANCE	
TDS	/CalcTDS:	1.0	CalcTDS/Cond	d:	ANION S	SUM: 7.	.94meq/L	7.57%	

Kellogg, Idaho 83837-0929

Filtered fraction: 463502 Tot.Rec. fraction: 463523

SAMPLE READS 08/08/05 10:35

TOTAL- M5:CD M3:CA, SIO2 Q9:SULFIDE

D2:CL,SO4

D1:AS, PB, SB, SE, TL

Reviewed By:_

Date 9/13/05

AZ: AZ0538 CA: NO. 2080 CO: 8/18/04 ID: ID00019 NV: 7/31/04 WA: C1268

PC ITSI 6/24/04

T/D/TR

SVL ANALYTICAL, INC.

Certificate: AZ AZO532 Kellogg, Idaho 83837-0929 Phone: (208)784-1258 • Fax: (208)783-085 One Government Gulch . P.O. Box 929

CLIENT : Resolution Copper Company SVL JOB: 118381 SAMPLE: 463498

PROJECT: CLIENT SAMPLE ID: RESE-1 001 223 Sample Collected: 8/11/05 10:00

8/12/05 9/13/05 Sample Receipt : Date of Report

Matrix: WATERS

	Determination	Result	Units	Dilution	Method	Analyzed	_
T	ALKALINITY	288	mg CaCO3/L		2320B	8/16/05	
T	CO3, CaCO3	<1.0	mg CaCO3/L		2320B	8/16/05	
T	HCO3, CaCO3	288	mg CaCO3/L		2320B	8/16/05	
T	TDS	540	mg/L		160.1	8/17/05	7
T	TSS	<5.0	mg/L		160.2	8/17/05	丁
T	Bromide	0.21	mg/L		300.0	8/23/05	
T	Calcium	109	mg/L		200.7	8/26/05	
T	Chloride	17.9	mg/L	5	300.0	8/23/05	
T	Fluoride	0.27	mg/L		300.0	8/23/05	
T	Hardness	414	mg CaCO3/L	1	2340B	8/26/05	
T	Potassium	2.57	mg/L		200.7	8/26/05	
T	Magnesium	34.8	mg/L		200.7	8/26/05	
T	Sodium	10.8	mg/L		200.7	8/26/05	
T	Sulfide	<1.0	mg/L		376.1	8/16/05	ゴ
T	Sulfate, SO4	82.5	mg/L	5	300.0	8/23/05	
T	Silver	<0.00010	mg/L		272.2	9/02/05	
T	Aluminum	<0.030	mg/L		200.7	8/26/05	
T	Arsenic	0.00330		8	200.8	9/01/05	
T	Boron	<0.040	mg/L		200.7	8/26/05	
T	Beryllium	<0.0020	mg/L		200.7	8/26/05	
T	Cadmium	<0.0010	mg/L		213.2	9/07/05	
T	Cobalt	<0.0060	mg/L		200.7	8/26/05	
T	Copper	<0.010	mg/L		200.7	8/26/05	
T		<0.060	mg/L		200.7	8/26/05	
T	Mercury	<0.00020			245.1	8/16/05	
T	Molybdenum	0.0248	mg/L		200.7	8/26/05	
T	Lead	<0.0030	mg/L	8	200.8	9/01/05	丁
T	Antimony	0.00360		8	200.B	9/01/05	O. 00360 UJ
T	Selenium	<0.0030	mg/L	8	200.8	9/01/05	ゴ
T	Silica	63.5	mg/L		200.7	8/26/05	J
T		<0.0020	mg/L	8	200.8	9/01/05	5
T		<0.010	mg/L		200.7	8/26/05	
D	Silver	<0.00010	ma/L	_	200.8	8/27/05	J
D		0.0033	mg/L		200.8	8/27/05	
D		0.0259	mg/L		200.7	8/26/05	
D	- · ·	<0.0020	mg/L		200.7	8/26/05	1
D		<0.00020			200.8	8/27/05	ゴ
D		<0.0060	mg/L		200.7	8/26/05	
D	;	<0.010	mg/L		200.7	8/26/05	
D	•	<0.00020			245.1	8/16/05	1
D		<0.010	mg/L		200.7	8/26/05	1 _
D		<0.0030	mg/L		200.8	8/27/05	J
D		0.0030	mg/L		200.8	8/27/05	
	Transfer of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the st				*	-	J

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Phone: (208)784-1258 • Fax: (208)783-0891 Kellogg, Idaho 83837-0929 One Government Gulch P.O. Box 929

CLIENT: Resolution Copper Company

PROJECT: CLIENT SAMPLE ID: RESE-1 001 223

8/11/05 10:00 Sample Collected:

8/12/05 Sample Receipt : Date of Report : 9/13/05 SVL JOB: 118381

SAMPLE: 463498

T/D/TR

Certificate: AZ AZ0538

Matrix: WATERS

	Determination	ı	Result	Units	Dilution	Method	Analyzed	
D D	Thallium Zinc		<0.0020 <0.010	mg/L mg/L		200.8 200.7	8/27/05 8/26/05	J
TR	Silver Arsenic	<del></del>	<0.00010 0.0035			200.8	8/27/05 8/27/05	丁
TR TR	Beryllium Cadmium Chromium		<0.0020 <0.00020 <0.0060	mg/L		200.7 200.8 200.7	8/26/05 8/27/05 8/26/05	J
TR TR	Copper		<0.010 <0.0040 <0.010	mg/L mg/L mg/L		200.7 200.7 200.7	8/26/05 8/26/05 8/26/05	
TR TR	Lead Antimony		<0.0030 0.0034	mg/L mg/L		200.8 200.8 200.8	8/27/05 8/27/05 8/27/05	<b>プ</b>
	Selenium Zinc		<0.0030 <0.010	mg/L mg/L		200.8	8/26/05	
TDS	CalcTDS: /CalcTDS:	511 1.1	TDS/Con CalcTDS/Con		CATION SUM: ANION SUM:	8.84meq/I 7.98meq/I		1

Filtered fraction: 463503 Tot.Rec. fraction: 463524

SAMPLE READS 08/08/05-11:00.

TOTAL- D1:AS, PB, SB, SE, TL

M5:CD

D2:CL,504

M3:CA, SIO2 Q9:SULFIDE

Reviewed By:

Date

AZ: AZ0538 CA: NO. 2080 CO: 8/18/04 ID: ID00019 NV: 7/31/04 WA: C1268

6/26/06

Certificate: AZ AZ0538

Kellogg, Idaho 83837-0929 One Government Gulch . P.O. Box 929

SVL JOB: 118381 CLIENT: Resolution Copper Company SAMPLE: 463499

PROJECT:

CLIENT SAMPLE ID: RESE-1 001 224

Sample Collected: 8/11/05 Sample Receipt : 8/12/05 Date of Report : 9/13/05 T/D/TR

Matrix: WATERS

	Determination	Result	Units .	Dilution	Method	Analyzed	<b>1</b>
T	ALKALINITY	21.9	mg CaCO3/L		2320B	8/16/05	
T	CO3, CaCO3	<1.0	mg CaCO3/L		2320B	8/16/05	
T	HCO3, CaCO3	21.9	mg CaCO3/L		2320B	8/16/05	
T	TDS	93	mg/L		160.1	8/17/05	
T	TSS	5.0	mg/L		160.2	8/17/05	プ
T	Bromide	0.10	mg/L		300.0	8/23/05	
T	Calcium	9.44	mg/L		200.7	8/26/05	
T	Chloride	9.38	mg/L		300.0	8/23/05	
T	Fluoride	<0.10	mg/L		300.0	8/23/05	
T	Hardness	34.2	mg CaCO3/L		2340B	8/26/05	
T	Potassium	2.54	mg/L		200.7	8/26/05	
	Magnesium	2.58	mg/L		200.7	8/26/05	1
T	Magnesium Sodium	6.63	mg/L		200.7	8/26/05	
T	Sulfide	<1.0	mg/L		376.1	8/16/05	
T		10.4	mg/L		300.0	8/23/05	
T	Sulfate, SO4	<0.00010			272.2	9/02/05	
T	Silver	0.407	mg/L		200.7	8/26/05	
T	Aluminum	0.00760		8 .	200.8	9/01/05	
T	Arsenic	<0.040	mg/L		200.7	8/26/05	
T	Boron	<0.0020	mg/L		200.7	8/26/05	
T	Beryllium	0.00100			213.2	9/07/05	ゴ
T	Cadmium	<0.0060	mg/L		200.7	8/26/05	
T	Cobalit	<del>0.017</del>	mg/L		200.7	8/26/05	0.0174
T	Copper	1.42	mg/L		200.7	8/26/05	
T	Iron	<0.00020			245.1	8/16/05	L
T	Mercury	<0.0080	mg/L		200.7	8/26/05	
T	Molybdenum	<0.0030	mg/L	8	200.8	9/01/05	J
Т	Lead	<0.0030	mg/L	8	200.8	9/01/05	77
T	Antimony		mg/L	8	200.8	9/01/05	17
T	Selenium	<0.0030	mg/L	J	200.7	8/26/05	して
T	Silica	27.7	mg/L	8	200.8	9/01/05	5
T	Thallium	<0.0020		· ·	200.7	8/26/05	
T	Zinc	<0.010	mg/L				
		<0.00010	/T		200.8	8/27/05	丁
D					200.8	8/27/05	
D	Arsenic	0.0053	mg/L		200.7	8/26/05	
D	Barium	0.0250	mg/L		200.7	8/26/05	
D	Beryllium	<0.0020	mg/L		200.8	8/27/05	7
D	Cadmium	<0.00020	- ·		200.7	8/26/05	
D	Chromium	<0.0060	mg/L		200.7	8/26/05	
D		<0.010	mg/L		245.1	8/16/05	
D	Mercury	<0.00020			200.7	8/26/05	
D	Nickel	<0.010	mg/L		200.8	8/27/05	5
D		<0.0030	mg/L		200.8	8/27/05	7
D	Antimony	<0.0030	mg/L		200.0	-, -, -, -, -	
L							

Continued on next page...

One Government Gulch P.O. Box 929 ■ Phone: (208)784-1258 ■ Fax: (208)783-CEST Kellogg, Idaho 83837-0929

SVL JOB: 118381 CLIENT: Resolution Copper Company SAMPLE: 463499 PROJECT:

CLIENT SAMPLE ID: RESE-1 001 224

Sample Collected: 8/11/05 Sample Receipt : 8/12/05 Date of Report : 9/13/05 T/D/TR

Matrix: WATERS

	Determinatio	n	Result	Units	Dilution	Method	Analyzed	
D	Thallium		<0.0020	mg/L		200.8	8/27/05	5
D	Zinc		<0.010	mg/L		200.7	8/26/05	at the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the
ਸ਼ਾ	Silver		<0.00010	mg/L		200.8	8/27/05	J
TR			0.0073	mg/L		200.8	8/27/05	
	Beryllium		<0.0020	mg/L		200.7	8/26/05	
TR			<0.00020	-		200.8	8/27/05	J
TR			<0.0060	mg/L		200.7	8/26/05	
TR	Copper		0.017	mg/L		200.7	8/26/05	D.017 4
TR			0.225	mg/L		200.7	8/26/05	
TR	Nickel		<0.010	mg/L		200.7	8/26/05	_
TR	Lead		<0.0030	mg/L		200.8	8/27/05	丁
TR	Antimony		<0.0030	mg/L		200.8	8/27/05	J
TR	Selenium		<0.0030	mg/L		200.8	8/27/05	J
TR	Zinc		<0.010	mg/L		200.7	8/26/05	
	CalcTDS:	91.1	TDS/Cone	d:	CATION SUM:	1.14meg/L	BALANCE	
TDS	/CalcTDS:	1.0	CalcTDS/Cone		ANION SUM:	0.92meq/L	ł	Ī

Filtered fraction: 463504 Tot.Rec. fraction: 463525

SAMPLE READS 08/10/05 7:30AM

TOTAL- D1:AS,PB,SB,SE,TL M5:CD

M3:CA,SIO2

Q9:SULFIDE

Date 9/13/05 Reviewed By:_____ 9/13/05 14:42

AZ: AZ0538 CA: NO. 2080 CO: 8/18/04 ID: ID00019 NV: 7/31/04 WA: C1268

Certificate: AZ AZ0538

T/D/TR

Kellogg, Idaho 83837-0929 Phone: (208)784-1258 Fax: (208)783-0891 P.O. Box 929 One Government Gulch

SVL JOB: 118381 CLIENT: Resolution Copper Company SAMPLE: 463500

PROJECT:

CLIENT SAMPLE ID: RESE-1 001 225

8/11/05 Sample Collected: 8/12/05 Sample Receipt 9/13/05 Date of Report

Matrix: WATERS

Dilution Method Analyzed Result Units Determination 8/16/05 2320B mg CaCO3/L 15.4 ALKALINITY 2320B 8/16/05 mg CaCO3/L <1.0 CO3, CaCO3 Ψ 2320B 8/16/05 mg CaCO3/L HCO3, CaCO3 15.4 T 160.1 8/17/05 30 mg/L T TDS 8/17/05 J 160.2 8.0 mg/L TSS 300.0 8/23/05 < 0.10 mg/L Bromide 200.7 8/26/05 7.54 Calcium mg/L 8/23/05 300.0 mg/L Chloride 7.65 Ţ 300.0 8/23/05 < 0.10 mg/L Fluoride Т 8/26/05 2340B mg CaCO3/L 27.0 Т Hardness 200.7 8/26/05 mq/L 1.75 Potassium 200.7 8/26/05 1.99 mg/L T Magnesium 200.7 8/26/05 4.10 mg/L T Sodium 376.1 8/16/05 <1.0 mg/L Sulfide T 300.0 8/23/05 mq/L 6.78 Sulfate, SO4  $\mathbf{T}$ 272.2 9/02/05 <0.00010 mg/L T Silver 200.7 8/26/05 0.154 mg/L T Aluminum 0.00880 mg/L 8 200.8 9/01/05 T Arsenic 200.7 8/26/05 <0.040 mq/L T Boron 200.7 8/26/05 <0.0020 ma/L  $\mathbf{T}$ Beryllium J 213.2 9/07/05 0.00020 mg/L T Cadmium 200.7 8/26/05 <0.0060 mg/L Τ Cobalt 0,013 U 8/26/05 200.7 0:013 mq/L T Copper 200.7 8/26/05 0.211 mq/L T Iron 8/16/05 245.1 <0.00020 mg/L T Mercury 200.7 8/26/05 <0.0080 ma/L Molybdenum J 8 200.8 9/01/05 <0.0030 mg/L J 9/01/05 8 200.8  $\mathbf{T}$ Antimony <0.0030 mg/L J 200.8 9/01/05 8 Selenium  $\mathbf{T}$ <0.0030 mg/L 8/26/05 J 200.7 12.9  $\mathbf{T}$ Silica ma/L 200.8 9/01/05 8 <0.0020 Τ Thallium mg/L J 200.7 8/26/05 Т Zinc <0.010 mg/L J 200.8 8/27/05 D Silver <0.00010 mg/L 200.8 8/27/05 0.0084 ma/L D Arsenic 200.7 8/26/05 0.0158 mq/L D Barium 200.7 8/26/05 mg/L <0.0020 D Beryllium 200.8 8/27/05 < 0.00020 mg/LD Cadmium 200.7 8/26/05 <0.0060 mg/L D Chromium 8/26/05 200.7 <0.010 mg/L D Copper 245.1 8/16/05 <0.00020 mg/L Mercury 200.7 8/26/05 <0.010 mg/L Nickel D J 8/27/05 200.8 <0.0030 mg/L D Lead T 200.8 8/27/05 <0.0030 mg/L Antimony

Continued on next page...

Certificate: AZ AZ053&

One Government Gulch * P.O. Box 929 * Kellogg, Idaho 83B37-0929

Phone: (208)784-1258 Fax: (208)783-089

CLIENT: Resolution Copper Company

PROJECT:

CLIENT SAMPLE ID: RESE-1 001 225

Sample Collected: 8/11/05 Sample Receipt: 8/12/05 Date of Report: 9/13/05

SVL JOB: 118381 SAMPLE: 463500

T/D/TR

Matrix: WATERS

	Determinatio	n	Result	Units	Dilution	Method	Analyzed	
D	Thallium		<0.0020	mg/L		200.8	8/27/05	J
	Zinc		<0.010	mg/L		200.7	8/26/05	
ਸ਼ਾ	Silver		<0.00010	mg/L		200.8	8/27/05	ず
	Arsenic		0.0078	mg/L		200.8	8/27/05	
	Bervllium		<0.0020	mg/L		200.7	8/26/05	
	Cadmium		<0.00020			200.8	8/27/05	ゴ
	Chromium		<0.0060	mg/L		200.7	8/26/05	
	Copper		<del>-0.013</del>	mg/L		200.7	8/26/05	0.0134
	Manganese		0.142	mg/L		200.7	8/26/05	
	Nickel		<0.010	mg/L		200.7	8/26/05	_
	Lead		<0.0030	mg/L		200.8	8/27/05	ゴ
	Antimony		<0.0030	mg/L		200.8	8/27/05	ゴ
	Selenium		<0.0030	mcg/L		200.8	8/27/05	丁
	Zinc		<0.010	mg/L		200.7	8/26/05	
	CalcTDS:	55,8	TDS/Con	d:	CATION SUM:	0.80meq/L	BALANCE	
TD5/	/CalcTDS:	0.5	CalcTDS/Con		ANION SUM:	0.67meq/L	1	

Filtered fraction: 463505 Tot.Rec. fraction: 463526

SAMPLE READS 08/10/05 10:30

D1:AS,PB,SB,SE,TL

M3:CA,SIO2

09:SULFIDE

Reviewed By:

Date_

AZ: AZ0538 CA: NO. 2080 CO: 8/18/04 ID: ID00019 NV: 7/31/04 WA: C1268

PC ITII

SVL ANALYTICAL, INC.

One Government Gulich * P.O. Box 929

Kellogg, Idaho 83837-0929

Phone: (208)784-1258 * Fax: (208)783-0891

Certificate: AZ AZ0538

CLIENT : Resolution Copper Company

PROJECT:

CLIENT SAMPLE ID: RESE-1 001 226

Sample Collected: 8/11/05 Sample Receipt : Date of Report : 8/12/05 9/13/05

SVL JOB: 118381 SAMPLE: 463501

T/D/TR

Matrix: WATERS

		Determination	Result	Units	Dilution	Method	Analyzed	
Γ	T	ALKALINITY	11.0	mg CaCO3/L		2320B	8/16/05	
-	$\overset{\div}{\mathbf{T}}$	CO3, CaCO3	<1.0	mg CaCO3/L		2320B	8/16/05	
	T	HCO3, CaCO3	11.0	mg CaCO3/L		2320B	8/16/05	
	Ţ	TDS	156	mg/L		160.1	8/17/05	
1	T	TSS	<5.0	mg/L		160.2	8/17/05	
	$\dot{\mathbf{T}}$	Bromide	0.13	mg/L		300.0	8/23/05	
	T	Calcium	21.3	mg/L		200.7	8/26/05	
	T	Chloride	14.5	mg/L	2	0.006	8/23/05	
-	Ť	Fluoride	<0.10	mg/L		300.0	8/23/05	
-	Ĩ	Hardness	76.8	mg CaCO3/L		2340B	8/26/05	1
1	T	Potassium	4.11	mg/L		200.7	8/26/05	
1	T	Magnesium	5.74	mg/L		200.7	8/26/05	
	T	Sodium	9.93	mg/L		200.7	8/26/05	
	T	Sulfide	<1.0	mg/L		376.1	8/16/05	]
	T	Sulfate, SO4	58.0	mg/L	5	300.0	8/23/05	
	Ī	Silver	<0.00010	mg/L		272.2	9/02/05	
	T	Aluminum	0.533	mg/L		200.7	8/26/05	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s
1	$\overset{ au}{ ext{T}}$	Arsenic	0.00370	mg/L	8 -	200.8	9/01/05	
	T	Boron	<0.040	mg/L		200.7	8/26/05	
	T	Beryllium	<0.0020	mg/L		200.7	8/26/05	
İ	T	Cadmium	0.00200	mg/L		213.2	9/07/05	J
	${f T}$	Cobalt	<0.0060	mg/L		200.7	8/26/05	0.011 U
1	T	Copper	<del>-0-01-1</del>	mg/L		200.7	8/26/05	0.011
	T	Iron	0.466	mg/L		200.7	8/26/05	
	$\overline{\mathbf{T}}$	Mercury	<0.00020	mg/L		245.1	8/16/05	0.00834
	T	Molybdenum	<del>-0.008</del> 3	mg/L		200.7	8/26/05	
1	T	Lead	<0.0030	mg/L	8	200.8	9/01/05	」
-	$\mathbf{T}$	Antimony	<0.0030	mg/L	8	200.8	9/01/05	7
	$\mathbf{T}$	Selenium	<0.0030	mg/L	8	200.8	9/01/05	17
1	${f T}$	Silica	28.9	mg/L	_	200.7	8/26/05	
	T	Thallium	<0.0020	mg/L	8	200.8	9/01/05	5
	T	Zinc	0.016	mg/L		200.7	8/26/05	
ľ		Silver	<0.00010	mg/L	•	200.8	8/27/05	ココ
	D	Arsenic	<0.0030	mg/L		200.8	8/27/05	J
- 1	D	Barium	0.0539	mg/L		200.7	8/26/05	-
	D	Beryllium	<0.0020	mg/L		200.7	8/26/05	1
	D	Cadmium	<0.00020			200.8	8/27/05	1
į	D	Chromium	<0.0060	mg/L		200.7	8/26/05	
	D	Copper	<0.010	mg/L		200.7	8/26/05	
-	D	Mercury	<0.00020			245.1	8/16/05	***************************************
ļ	D	Nickel	<0.010	mg/L		200.7	8/26/05	<b> </b>
	D	Lead	<0.0030	mg/L		200.8	8/27/05	<u>「</u> 」
- 1	D	Antimony	<0.0030	mg/L		200.8	8/27/05	丁
L		45.	······································					

Continued on next page...

One Government Gulch . P.O. Box 929

Kellogg, Idaho 83837-0929

Phone: (208)784-1258

Fax: (208)783-0891

CLIENT: Resolution Copper Company

CLIENT SAMPLE ID: RESE-1 001 226

Sample Collected: 8/11/05 8/12/05 Sample Receipt :

Date of Report: 9/13/05

SVL JOB: 118381 SAMPLE: 463501

T/D/TR

Matrix: WATERS

	Determinatio	n	Result	Units	Dilution	Method	Analyzed	
D	Thallium		<0.0020	mg/L		200.8	8/27/05	J
D	Zinc		0.010	mg/L		200.7	8/26/05	
TR	Silver		<0.00010	mg/L	WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIAM WILLIA	200.8	8/27/05	J
TR	Arsenic		<0.0030	mg/L		200.8	8/27/05	ゴ
TR	Beryllium		<0.0020	mg/L		200.7	8/26/05	
TR	Cadmium		<0.00020	mg/L		200.8	8/27/05	J
TR	Chromium		<0.0060	mg/L		200.7	8/26/05	•
TR	Copper		<0.010	mg/L		200.7	8/26/05	
TR	Manganese		0.103	mg/L		200.7	8/26/05	Ì
TR	Nickel		<0.010	mg/L		200.7	8/26/05	[
TR	Lead		<0.0030	mg/L		200.8	8/27/05	J
TR	Antimony		<0.0030	mg/L		200.8	8/27/05	J
TR	Selenium		<0.0030	mg/L		200.8	8/27/05	5
TR	Zinc		0.016	mg/L		200.7	8/26/05	-
	CalcTDS:	158	TDS/Cond	1:	CATION SUM:	2.15meq/L	BALANCE	
TDS	/CalcTDS:	1,0	CalcTDS/Cond	<b>1:</b>	ANION SUM:	1.84meq/L	I .	

Filtered fraction: 463506 Tot.Rec. fraction: 463527

SAMPLE READS 08/10/05 12:33

D1:AS,PB,SB,SE,TL TOTAL-

M5:CD D2:CL,SO4

M3:CA,SIO2

Q9:SULFIDE

Reviewed By:___

Date 9/13/05

AZ: AZ0538 CA: NO. 2080 CO: 8/18/04 ID: ID00019 NV: 7/31/04 WA: C1268

PC III)

# APPENDIX C QUALIFIED RESULTS TABLE

## Qualified Results Table for Resolution Copper SDG 118381 August 2005

Parameter TDS
SIL
Silica
Antimony
Сафтит
Cadmium
Lead
Lead
Lead
Selenium
Silver
Silver
Thallium
Thallium
Cadmium
Bromide
Sulfide
TDS
TSS
Silica
Antimony
Cadmium
Cadmium
Lead
Lead
Lead
Selenium
Selenium
Silver
Silver
Thallium
Thallium
Sulfide
TSS
Copper
Copper
Silica
Antimony
Antimony
Antimony

## Qualified Results Table for Resolution Copper SDG 118381 August 2005

r				F			_													_							T					- 1		7	Т							
Validator	ITSI	ITSI	ITSI	ITSI	ITSI	ITSI	ITSI	ITSI	ISII	ITSI	ITSI	ITSI	ITSI	ITSI	ITSI	ITSI	ITSI	ITSI	ISLI	ITSI	ITSI	ILSI	ITSI	ITSI	ITSI	ITSI	ITSI	ILSI	ITSI	ITSI	ITSI	IISII	ILSI	ITSI	ILSI	ILSI	ITSI	ITSI	ITSI	ITSI	ITSI	ILSI
Method	200.8	200.8	200.8	200.8	200.8	200.8	200.8	200.8	200.8	200.8	200.8	213.2	160.2	200.7	200.7	200.7	200.8	200.8	200.8	200.8	200.8	200.8	200.8	200.8	200.8	200.8	200.8	200.8	200.8	200.8	213.2	200.7	200.7	200.7	200.8	200.8	200.8	200.8	200.8	200.8	200.8	200.8
Туре	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water			Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water
Reason	No CRDL	No CRDL	No CRDL	No CRDL	No CRDL	No CRDL	No CRDL	No CRDL	No CRDL	No CRDL	No CRDL	RPD Spl Dup	Unconfirmed weight	PB	PB	%R SD	No CRDL	No CRDL	No CRUL	No CRDL	No CRDL	No CRDL	No CRDL	No CRDL	No CRDL	No CRDL	No CRDL	No CRDL	No CRDL	No CRDL	RPD Spl Dup; MS %R	РВ	CB	%R SD	No CRDL	No CRDL	No CRDL	No CRDL	No CRDL	No CRDL	No CRDL	No CRDL
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	шg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	пв/Г	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	тв/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
New Value	0.00020 UJ	0.00020 UJ	0.0030 UJ	0.0030 UJ	0.0030 UJ	0:0030 UJ	0.0030 UJ	0.00010 UJ	0.00010 UJ	0.0020 UJ	0.0020 UJ	0.00100 J	8.0 J	0.013 U	0.013 U	12.9 J	0.0030 UJ	0.0030 UJ	0.0030 UJ	0.00020 UJ	0.00020 UJ	0.0030 UJ	0.0030 UJ	U 0.000 UJ	0.0030 UJ	0.0030 UJ	0.00010 UJ	0.00010 UJ	0.0020 UJ	0.0020 UJ	0.00020 J	0.011 U	0.0083 U	28.9 J	0.0030 UJ	0.0030 UJ	0.0030 UJ	0.0030 UJ	0.0030 UJ	0.00020 UJ	0.00020 UJ	0.0030 UJ
Added Qualifier	1	J	<b>.</b>	ĵ	Ţ	ſ		Ĩ	ī	J	ľ	J	J	n	n	ſ	F	ſ	1		<b>-</b> 1	<b></b> 3		J	ſ		-	,	ſ	٦,	ъ,	ם	כ	-	ſ	ъ,	ĵ	ĵ		'n	-	·-
Original Qualifier			DI			ΙΩ				DI		MS				M3	DI					ū			DI				ΙΩ		M5			M3	ΩĪ							DI
Original Value	< 0.00020	< 0.00020	< 0.0030	< 0.0030	< 0.0030	< 0.0030	< 0.0030	< 0.00010	< 0.00010	< 0.0020	< 0.0020	0.00100	8.0	0.013	0.013	12.9	< 0.0030	< 0.0030	< 0.0030	< 0.00020	< 0.00020	< 0.0030	< 0.0030	< 0.0030	< 0.0030	< 0.0030	< 0.00010	< 0.00010	< 0.0020	< 0.0020	0.00020	0.011	0.0083	28.9	< 0.0030	< 0.0030	< 0.0030	< 0.0030	< 0.0030	< 0.00020	< 0.00020	< 0.0030
Parameter	Cadmium	Cadmium	Lead	Lead	Lead	Scienium	Selenium	Silver	Silver	Thallium	Thallium	Cadmium	TSS	Copper	Copper	Silica	Antimony	Antimony	Antimony	Сафини	Садтит	Lead	Lead	Lead	Sefentum	Selenium	Silver	Silver	Thallium	Thallium	Cadmium	Copper	Molybdenum	Silica	Antimony	Antimony	Antimony	Arsenic	Arsenic	Сафтит	Сабтит	Lead
Type	Dissolved	Total Recoverable	Total	Dissolved	Total Recoverable	Total	Total Recoverable	Dissolved	Total Recoverable	Total	Dissolved	Totai	Totai	Total	Total Recoverable	Total	Total	Dissolved	Total Recoverable	Dissolved	Total Recoverable	Total	Dissolved	Total Recoverable	Totai	Total Recoverable	Dissolved	Total Recoverable	Total	Dissolved	Totai	Total	Total	Total	Totai	Dissolved	Total Recoverable	Dissolved	Total Recoverable	Dissolved	Total Recoverable	Total
Lab ID	W463504	W463525	W463499	W463504	W463525	W463499	W463525	W463504	W463525	W463499	W463504	W463499	W463500	W463500	W463526	W463500	W463500	W463505	W463526	W463505	W463526	W463500	W463505	W463526	W463500	W463526	W463505	W463526	W463500	W463505	W463500	W463501	W463501	W463501	W463501	W463506	W463527	W463506	W463527	W463506	W463527	W463501
Sample	RESE-1-001 224	RESE-1-001 224	RESE-1-001 224	RESE-1-001 224	RESE-1-001 224	RESE-1-001 224	RESE-1-001 224	RESE-1-001 224	RESE-1-001 224	RESE-1-001 224	RESE-1-001 224	RESE-1-001 224	RESE-1-001 225	RESE-(-001 225	RESE-1-001 225	RESE-i-001 225	RESE-1-001 225	RESE-1-001 225	RESE-i-001 225	RESE-1-001 225	RESE-1-001 225	RESE-1-001 225	RESE-1-001 225	RESE-1-001 225	RESE-(-001 225	RESE-1-001 225	RESE-1-001 225	RESE-1-001 225	RESE-1-001 225	RESE-1-001 225	RESE-1-001 225	RESE-1-001 226	RESE-1-001 226	RESE-1-001 226	RESE-i-001 226	RESE-1-001 226	RESE-1-001 226	RESE-1-001 226	RESE-1-001 226	RESE-1-001 226	RESE-1-001 226	RESE-1-001 226

# Qualified Results Table for Resolution Copper SDG 118381 August 2005

Parameter         Original Value         Qualifier         Qualifier           Lead         < 0.0030         J           Lead         < 0.0030         J           Selenium         < 0.0030         J           Selenium         < 0.0030         J
Silver
Silver
Thallium
Thallium
Cadmin

Abbreviations
SDG == sample delivery group
mg/L == milligrams per liter
CB == calibration blank
CRDL == detection limit check standard
MS == matrix spike
PB == preparation blank
%R == preparation blank
%R == percent recovery
RPD == relative percent difference
SD == serial dilution
SPK == spike
Spl Dup == sample duplicate

Data Qualifier Flags

J = estimated value

U = not detected

U = estimated reporting limit

# APPENDIX D LABORATORY COMMUNICATIONS



#### Laboratory Questions for Resolution Copper Company

No.	Lab	Date	SDG	Method	Question/Concern
1	SVL	06/26/06	118381	GFAA	Please provide the volume of the standard analyte solution $V(s)$ and sample volume $V(x)$ used in the single addition method for Ag and Cd.
2	SVL	06/26/06	118381	300.0	Please provide the ICAL raw data and summary evaluation for all anions and the raw data for the LCS and preparation blank.
3	SVL	06/26/06	118381	200.8	Please provide the results of any serial dilutions performed on project samples.

#### **Peggy Cota**

From: Peggy Cota [pcota@itsi.com]

**Sent:** Monday, June 26, 2006 11:55 AM

To: 'Kirby Gray'

Cc: 'Casey.Mckeon@resolutioncopper.com'

Subject: RCC 118381 Lab Questions

Attachments: RCC SVL Questions 062606.pdf

#### Hi Kirby,

Here are the laboratory questions for the last set of data validation for SDG 118381. Sorry for the short notice, but can you please respond to the questions as soon as possible? Golder would like to get their report out this Thursday.

Thank you for your help. Please contact me if you have any questions

Peggy Cota
Project Chemist
Innovative Technical Solutions, Inc.
1501 W. Fountainhead Parkway, Suite 360
Tempe, Arizona 85282
(480)-706-6488 ext. 3397
(480)-704-2952 fax
pcota@itsi.com

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#### **Peggy Cota**

From:

Melba Bencich [melba@svl.net]

Sent:

Tuesday, June 27, 2006 10:46 AM

To:

Casey McKeon

Cc:

Peggy Cote 6-27-06.pdf

**Subject:** 6-27-06.pdf **Attachments:** 6-27-06.pdf

addendum follows

thanks Melba



June 27, 2006

Resolution Copper Company

Attn: Casey McKeon

Ref.: Resolution Copper Company

SVL/SDG: 118381

Addendum as requested by Peggy Cote, ITSI.

Please call if there are any questions.

Thank you.

Melba Bencich

**Document Control Officer** 

Cc: Innovative Technical Solutions, Inc. Attn.: Peggy Cote





### Laboratory Questions for Resolution Copper Company

No.	Lab	Date	SDG	Method	Question/Concern
1	SVL	06/26/06	118381	GFAA	Please provide the volume of the standard analyte solution V(s) and sample volume V(x) used in the single addition method for Ag and Cd.
2	SVL	06/26/06	118381	300.0	Please provide the ICAL raw data and summary evaluation for all anions and the raw data for the LCS and preparation blank.
3	SVL	06/26/06	118381	200.8	Please provide the results of any serial dilutions performed on project samples.

## Laboratory Questions for Resolution Copper Company SDG 118381

No. 1 Single addition method of standard additions was not done on silver and cadmium. A post digestion spike of 1 ppb was analyzed with each sample to see if method of standard addition (MSA) was needed. No samples for silver required MSA. All cadmium samples required MSA. A three addition MSA was done for cadmium. The additions were 1, 2, and 3 ug/L spikes.

The volume of sample used for all silver and cadmium analyses was 20 uL.

The volume of the 5 ug/L analytical spike for both silver and cadmium was 4 uL.

Volumes for the Cd MSA spikes were: 4 uL Cd for the 1 ug/L addition

8 uL Cd for the 2 ug/L addition 12 uL Cd for the 3 ug/L addition

No. 2 The ICAL raw data and summary evaluation for all anions has been added. The raw data for the LCS and preparation blank are already in the data package that you have. SVL reports the ICV as the LCS and reports the ICB as the preparation blank. Both the ICV and the ICB are prepared fresh daily.

No. 3 No serial dilutions were performed for Method 200.8. Method 200.8 does not require a serial dilution to be performed.

Kirby Gray

Technical Director

SVL Analytical, Inc.

## DIONEX METHOD PARAMETERS - ANIONS1.MET

DIONEX METHOD PARAMETERS - ANIONS1.ME	ET
Method Comment: ACDX1771 Column ID: AG4A-SC/AS4A-SC INST: DX100 Analyst ID: D. Gardner	8/17
System Parameters System Name: DX 100 Number of Detectors	•
Run Time (minutes)	
Detector 1 Type Detector 1 real time plot scale maximum (US )	35 AA
minimum  Detector 1 Output Equivalent to 1 Volt (in US)  Detector 1 ACI Analog Input Connection	40.00
Save Data FileDX\DATA\RT111261.D01	Yes
DETECTOR 1 PARAMETERS	
Report Options	
Print Report	No
TIME ALL COMPONENTS.	Yes No
Print Components Found	Yes
THE ALL FERRS,	No
rinc unknown Peaks,	No No
Print Chromatogram	Yes
ucoscare chromatodram Minimim	No No
TIT PEAKS WITH COLOR	No No
raw diid bines on thromatodram	No
how Component Fraction Numbers abel with Peak Number	No No
aber with Retention Times on Chromatogram	No No
abel with Component Name. ormat File Name: C:\DX\METHOD\DEFAULT.PRF	Yes
Integration Parameters	m .a
ear intesnoid	5.0 10.000
eak Area Reject	100
rea Reject for Reference Peaks	1000
Data Events Time Description	
0.00 Stop peak detection	
0.70 Enable end of peak detection	
0.70 Force baseline at start of all peaks 0.70 Start peak detection	
1.09 Void volume treatment for this peak	
4.24 Double peak threshold	
4.29 Double bunching factor	

#### Number Of Levels for Calibration..... Force Calibration Curve Through Origin...... Calibration Fit Type...... Linear Replace Or Average Calibrations..... Replace External or Internal Calibration.... External Calculate Unknowns by Area or Height..... Default Sample Volume..... Default Dilution Factor..... 1.0

Calibration Parameters

Default Response Factor for Unknown Peaks..... 0.0 Calibration Standard Volume 1.0 

Component # 1 F Retention Time 1.11
Reference Comp. none Window Size 6.00 %
Amount = K0 + K1*Area

K0 = 4.17895E-002K1 = 1.73166E-006

Level	Amount	Area	Height
1 2	0.00000E+000 1.00000E-001	0 55071	0
3	5.00000E-001	265266	52431
4	1.00000E+000	530067	105708
5	2.00000E+000	1087828	220583
6	5.00000E+000		576067

Component # 2 CL Retention Time 1.67
Reference Comp. none Window Size 10.00 %

Amount = K0 + K1*Area K0 = 1.45339E-001 K1 = 2.55056E-006

Level	Amount	Area	Height
1	0.00000E+000	0	0
2	2.00000E-001	72180	13276
3	1.00000E+000	332345	61874
4	2.00000E+000	681318	128102
5	5.00000E+000	1781795	346586
6	1.00000E+001	3926156	765873

Component # 3 NO2/N Retention Time 1.98 Reference Comp. none Window Size 6.00 %

Amount = K0 + K1*Area K0 = 3.04372E-002 K1 = 1.21508E-006

Level	Amount	Area	Height
1.	0.00000E+000		0
2	5.00000E-002	38339	6488
3	2.00000E-001	146024	24677
4	5.00000E-001	370309	63284
5	2.00000E+000	1558721	270612
6	5.00000E+000	4114481	725796

Component # 4 BR Retention Time 2.88 Reference Comp. none Window Size 6.00 %

Amount = K0 + K1*Area K0 = 5.71106E-002 K1 = 6.51720E-006

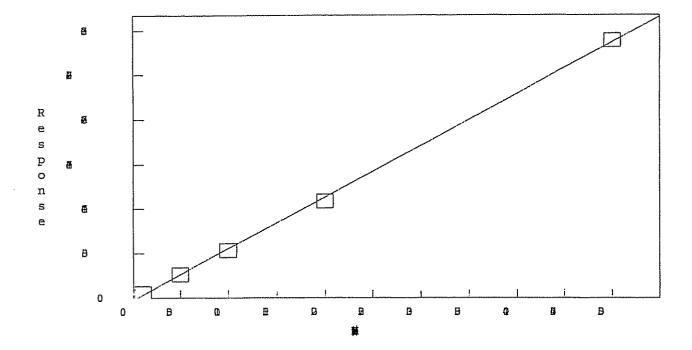
Level	Amount	Area	Height
1	0.0000E+000	0	0
2	1.00000E-001	11551	1803
3	5.00000E-001	71156	9754
4	2.00000E+000	290985	39902
5	5.00000E+000	737362	103051
6	1.00000E+001	1536914	220106

Component # 5 NO3/N Retention Time 3.24
Reference Comp. none Window Size 7.00 % Amount = K0 + K1*Area  $\begin{array}{rcl} K0 & = & 4.15765E-002 \\ K1 & = & 1.06449E-006 \end{array}$ Level Amount Area Height 1 0.00000E+000 0 0
2 5.00000E-002 43387 5534
3 2.00000E-001 161911 19617
4 5.00000E-001 410360 49944
5 2.00000E+000 1731590 204711
6 5.00000E+000 4698888 525221 Component # 6 PO4/P Reference Comp. none Retention Time 5.03 Window Size 10.00 % Amount = K0 + K1*Area K0 = 1.38753E-001 K1 = 3.05529E-006Level Amount Area Height 1 0.00000E+000 0 0
2 2.00000E-001 45182 3791
3 5.00000E-001 121594 9304
4 2.00000E+000 561496 41714
5 5.00000E+000 1527320 113548
6 1.00000E+001 3265160 246282 Retention Time 6.59 Window Size 10.00 % Component # 7 SO4
Reference Comp. none Amount = K0 + K1*Area K0 = 2.90394E-001 K1 = 3.61113E-006Area Height Level Amount 1 0.00000E+000 0 0
2 3.00000E-001 67253 4749
3 2.00000E+000 478243 30881
4 5.00000E+000 1224537 79519
5 1.00000E+001 2556468 167424
6 2.50000E+001 6904778 451728 Timed Events File: C:\DX\METHOD\ANIONS1.TE Step Time Description Init ACI INJECT OFF
Init ACI A/O OFF
Init ACI 10x OFF
Init ACI 10x OFF
Init ACI PUMP ON
Init ACI A/S OFF
Init ACI TTL 3 OFF
Init ACI TTL 4 OFF
Init ACI Regen OFF
Init ACI AC 2 OFF
1 0.0 ACI A/S ON
2 0.2 ACI A/S OFF
3 2.2 ACI INJECT ON
3 2.2 ACI INJECT ON
3 2.2 Start Sampling
4 9.9 ACI INJECT OFF
4 9.9 ACI A/O OFF

Component: F Fit Type: Linear r2 = 0.999359

Amt = Resp * 1.732e-006 + 0.04179 Resp = Amt * 5.775e+005 + -2.413e+004

Standardization: External Calibration: Area

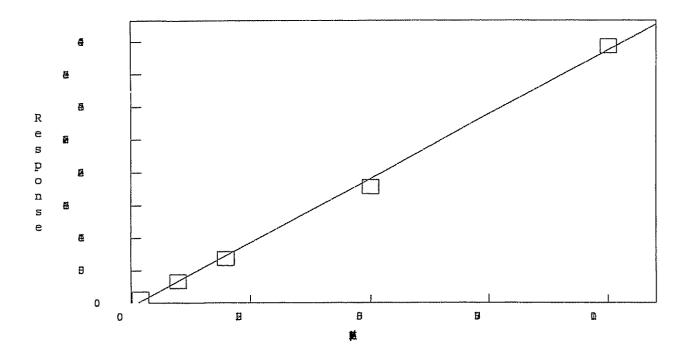


-Method Updated: 10:44 on Wed, 17 Aug 2005

Component: CL Fit Type: Linear r2 = 0.997687

Amt = Resp * 2.551e-006 + 0.1453 Resp = Amt * 3.921e+005 + -5.698e+004

Standardization: External

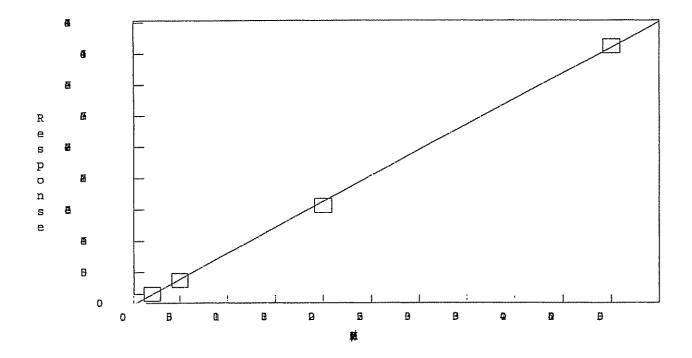


-Method Updated: 10:44 on Wed, 17 Aug 2005

Component: NO2/N Fit Type: Linear r² = 0.999548

Amt = Resp * 1.215e-006 + 0.03044 Resp = Amt * 8.23e+005 + -2.505e+004

Standardization: External



-Method Updated: 10:44 on Wed, 17 Aug 2005

Component: BR

Fit Type: Linear

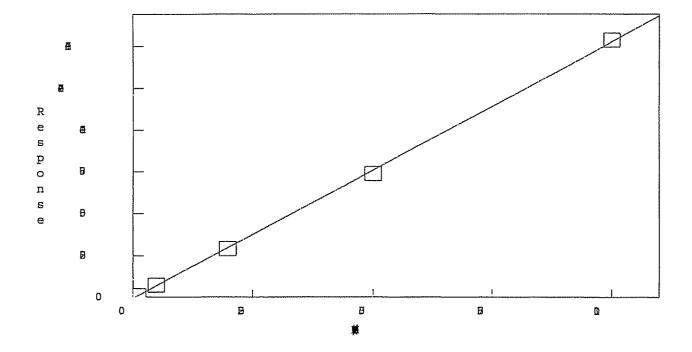
r² = 0.999598

Amt = Resp * 6.517e-006 + 0.05711

Resp = Amt * 1.534e+005 + -8763

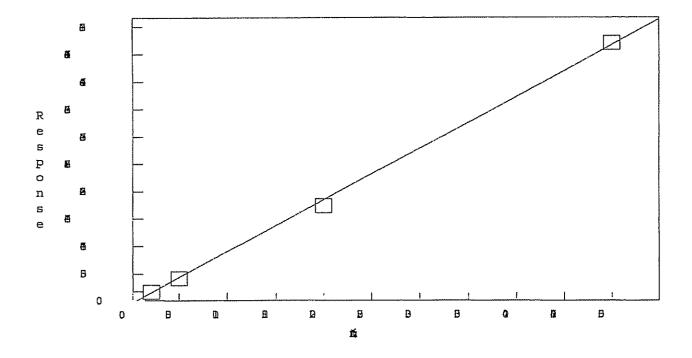
Standardization: External

Calibration: Area



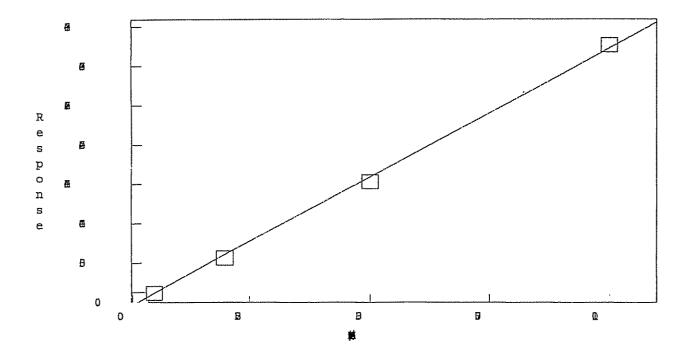
Component: NO3/N
Fit Type: Linear
r² = 0.999016
Amt = Resp * 1.064e-006 + 0.04158
Resp = Amt * 9.394e+005 + -3.906e+004

Standardization: External Calibration: Area



Component: PO4/P Fit Type: Linear

r² = 0.998733 Amt = Resp * 3.055e-006 + 0.1388 Resp = Amt * 3.273e+005 + -4.541e+004 Standardization: External Calibration: Area



Component: SO4

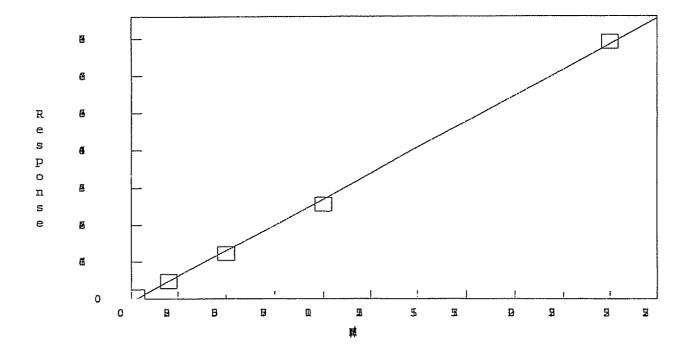
Fit Type: Linear

r² = 0.998902

Amt = Resp * 3.611e-006 + 0.2904

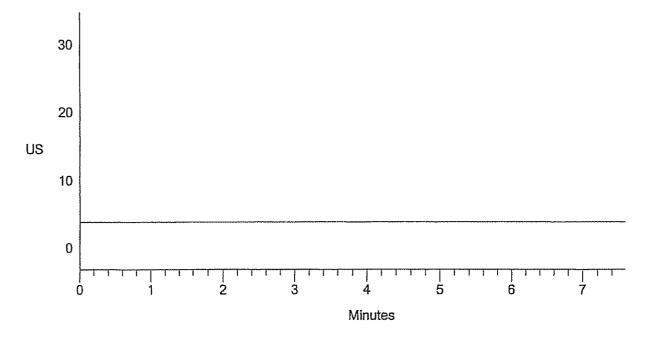
Resp = Amt * 2.769e+005 + -8.042e+004

Standardization: External



Date: 08/17/2005 09:54:18 Sample Name: AUTOCAL1 Data File : C:\DX\DATA\ACDX1771.D01 Method : C:\DX\METHOD\ANIONS1.MET ACI Address: 1 System: 1 Inject#: 1 Vial: Detector:07
Analyst : D. Gardner Column: AG4A-SC/AS4A-SC INST: DX100 Detector:OTHER Calibration Volume Dilution Points Rate Start Stop Area Reject External 1 1 912 2Hz 0.00 7.59 100 ******************* Component Report: Components Found ****************** Ret Component Concentration Height Area Bl. %Delta Num Time Name MG/L Totals 0.000 0

## File: ACDX1771.D01 Sample: AUTOCAL1



Sample Name: AUTOCAL2 Date: 08/17/2005 10:04:22

Data File : C:\DX\DATA\ACDX1771.D02

Method : C:\DX\METHOD\ANIONS1.MET

ACI Address: 1 System: 1 Inject#: 2 Vial: Detector:OTHER

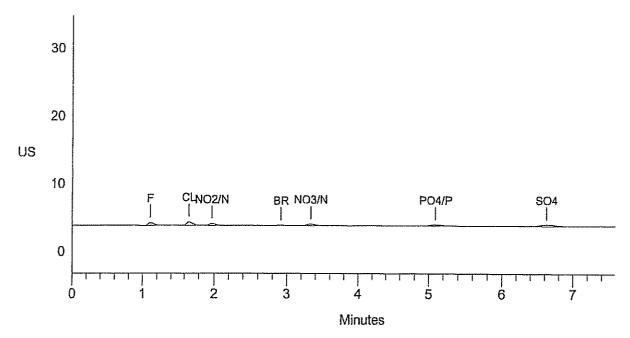
| Analyst : D. Gardner Column: AG4A-SC/AS4A-SC INST: DX100 |

Calibration Volume Dilution Points Rate Start Stop Area Reject
External 1 1 912 2Hz 0.00 7.59 100

****************** Component Report: Components Found *******************

Pk. Num		Component Name	Co:	ncentration MG/I		.ght A	Area Bl. Code	
1	1.11	F		0.100	10	465 55	5071 1	0.00
2	1.65	CL		0.200	13	276 72	2180 1	0.51
3	1.97	NO2/N		0 . 050	) 6	488 38	3339 1	1.29
4	2.92	BR		0.100	) 1	.803 11	L551 1	3.24
5	3.33	NO3/N		0.050	) 5	534 43	3387 1	3,90
6	5.09	PO4/P		0.200	) 3	791 45	5182 1	0.66
7	663	SO4		0.300	4	749 67	7253 1	-0.50
			Totals	1.000	46	105 332	2962	

# File: ACDX1771.D02 Sample: AUTOCAL2



_______

Sample Name: AUTOCAL3 Date: 08/17/2005 10:14:22

Data File : C:\DX\DATA\ACDX1771.D03

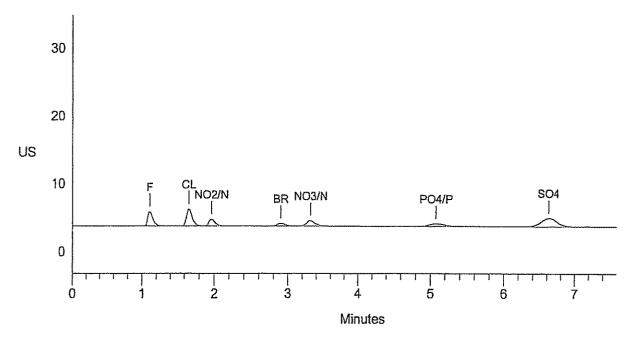
Method : C:\DX\METHOD\ANIONS1.MET

ACI Address: 1 System: 1 Inject#: 3 Vial: Detector:OTHER Analyst : D. Gardner Column: AG4A-SC/AS4A-SC INST: DX100

Calibration Volume Dilution Points Rate Start Stop Area Reject External 1 1 912 2Hz 0.00 7.59 100

Pk. Num		Component Name	Cone	centration MG/L	Height	Area	Bl. Code	%Delta
1	1.11	F		0,500	52431	265266	1	0.00
2	1.65	CL		1.000	61874	332345	1	0.00
3	1.96	NO2/N		0.200	24677	146024	1	-0.42
4	2.90	BR		0.500	9754	71156	1	-0.57
5	3.32	NO3/N		0.200	19617	161911	1	-0.50
б		PO4/P		0.500	9304	121594	1	-0.33
7	6.63	S04		2.000	30881	478243	1	0.00
		Ţ	otals	4,900	208538	1576538		

## File: ACDX1771.D03 Sample: AUTOCAL3



Date: 08/17/2005 10:24:22

Sample Name: AUTOCAL4 Data File : C:\DX\DATA\ACDX1771.D04

: C:\DX\METHOD\ANIONS1.MET

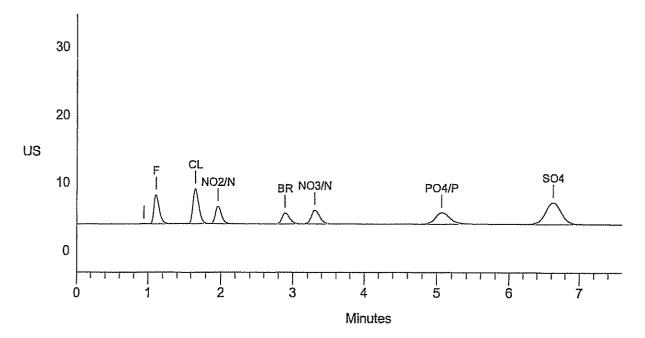
ACI Address: 1 System: 1 Inject#: 4 Vial: Detector:OTHER INST: DX100

Analyst : D. Gardner Column: AG4A-SC/AS4A-SC

Calibration Volume Dilution Points Rate Start Stop Area Reject 1 912 2Hz 0.00 7.59 External 100

Pk. Num		Component Name	Cor	ncentration MG/L	Height	Area	Bl. Code	%Delta
2	1.11	F		1.000	105708	530067	1	0.00
3	1.65	CL		2.000	128102	681318	1	0.00
4	1.96	NO2/N		0.500	63284	370309	1	0.00
5	2.89	BR		2.000	39902	290985	1	-0.29
6	3.30	NO3/N		0.500	49944	410360	1	-0.50
7	5.06	PO4/P		2.000	41714	561496	1	-0.33
8	6.63	SO4		5.000	79519	1224537	1	0.00
			Totals	13.000	508173	4069070		

## File: ACDX1771.D04 Sample: AUTOCAL4



Sample Name: AUTOCAL5 Date: 08/17/2005 10:34:38

Data File : C:\DX\DATA\ACDX1771.D05

Method : C:\DX\METHOD\ANIONS1.MET

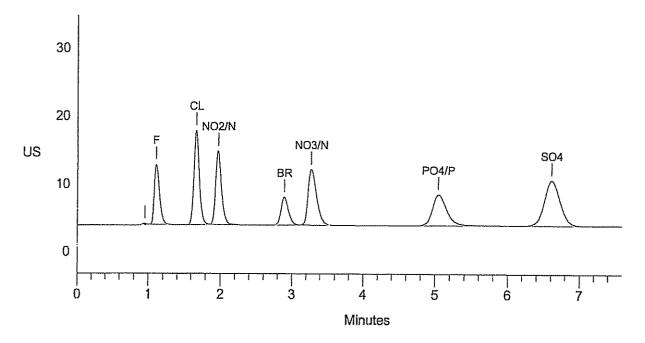
ACI Address: 1 System: 1 Inject#: 5 Vial: Detector:OTHER Analyst : D. Gardner Column: AG4A-SC/AS4A-SC INST: DX100

Calibration Volume Dilution Points Rate Start Stop Area Reject External 1 1 912 2Hz 0.00 7.59 100

********************* Component Report: Components Found ****************

Pk. Num		Component Name	Cor	ncentration MG/L	Height	Area	Bl. Code	%Delta
2	1.11	F		2.000	220583	1087828	1	0.00
3	1.66	CL		5.000	346586	1781795	ī	0.51
4	1.97	NO2/N		2.000	270612	1558721	ī	0.43
5	2.89	BR		5.000	103051	737362	1	0.00
6	3.27	NO3/N		2.000	204711	1731590	1	-1.01
7	5.04	PO4/P		5.000	113548	1527320	1	-0.33
8	6.61	SO4		10.000	167424	2556468	1	-0.25
			Totals	31.000	1426517	10981081		

## File: ACDX1771.D05 Sample: AUTOCAL5



Sample Name: AUTOCAL6 Date: 08/17/2005 10:44:44

Data File : C:\DX\DATA\ACDX1771.D06

: C:\DX\METHOD\ANIONS1.MET

ACI Address: 1 System: 1 Inject#: 6 Analyst : D. Gardner Column: AC Vial:

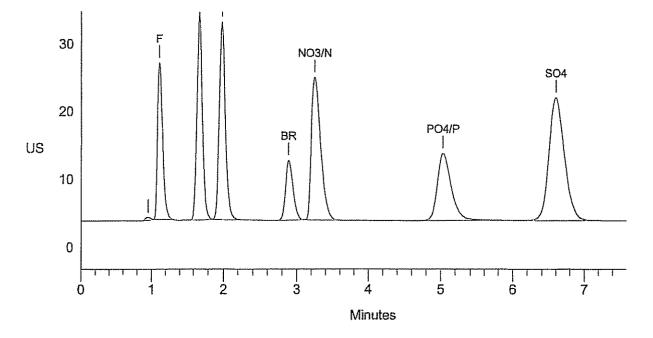
Column: AG4A-SC/AS4A-SC 

Calibration Volume Dilution Points Rate Start Stop Area Reject 1 912 2Hz 0.00 7.59 External

******** Found ****** Component Report: Components Found ****************

Pk. Num		Component Name	Cor	ncentration MG/I		ight	Area	Bl. Code	%Delta
2	1.11	F		5.000	57	6067	2883299	1	0.00
3	1.67	CL		10.000	76	5873	3926156	1	0.50
4	1.98	NO2/N		5.000	72	5796	4114481	1	0.42
5	2.88	BR		10.000	22	0106	1536914	1	-0.29
6	3.24	NO3/N		5,000	52	5221	4698888	1	-0.77
7		PO4/P		10.000	24	6282	3265160	1.	-0.33
8	6.59	SO4		25.000	45	1728	6904778	1	-0.25
			Totals	70.000	351	1074 2	7329675		

## File: ACDX1771.D06 Sample: AUTOCAL6



Sample Name: ICV -1042 161-9-3 Date: 08/17/2005 10:56:13

Data File : C:\DX\DATA\05229A01.D01

Method : C:\DX\METHOD\ANIONS1.MET

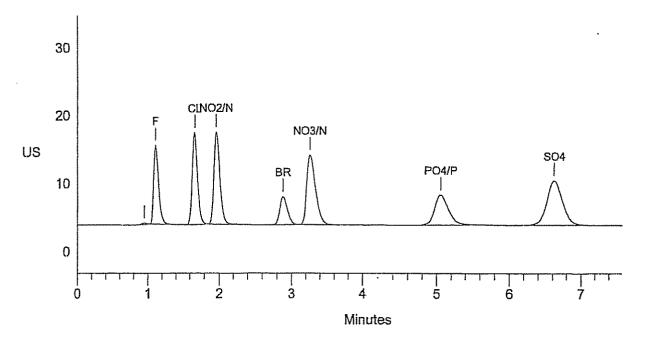
ACI Address: 1 System: 1 Inject#: 1 Vial: Detector:OTHER Analyst : D. Gardner Column: AG4A-SC/AS4A-SC INST: DX100

Calibration Volume Dilution Points Rate Start Stop Area Reject
External 1 1 912 2Hz 0.00 7.59 100

******************* Component Report: Components Found *****************

Pk. Num		Component Name	Cone	centration MG/L	Height	Area	Bl. Code	%Delta
2	1.11	F		2.496	288512	1417299	1	0.00
3	1.66	CL		4.621	337402	1754715	1	-0.50
4	1.96	NO2/N		2.391	338669	1942663	1	-0.84
5	2.88	BR		4.805	103036	728486	1	0.00
6	3.26	NO3/N		2.365	255952	2183093	1	0.51
7	5.06	PO4/P		4.675	110738	1484718	1,	0.66
8	6,63	SO4		9.404	164000	2523684	1	0.51
			Totals	30.757	1598309	12034658		

# File: 05229A01.D01 Sample: ICV -1042 161-9-3

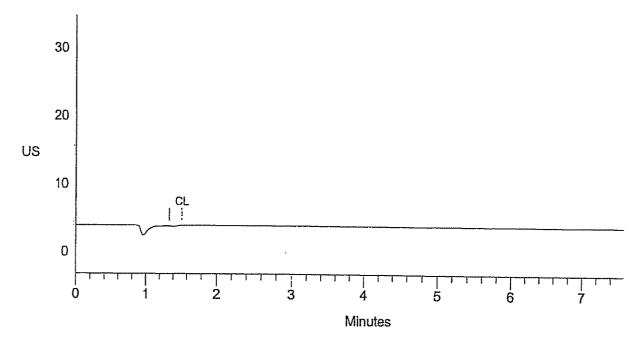


| Sample Name: ICB Date: 08/17/2005 11:06:16 |
| Data File : C:\DX\DATA\05229A01.D02 |
| Method : C:\DX\METHOD\ANIONS1.MET |
| ACI Address: 1 System: 1 Inject#: 2 Vial: Detector:OTHER |
| Analyst : D. Gardner Column: AG4A-SC/AS4A-SC INST: DX100

Calibration Volume Dilution Points Rate Start Stop Area Reject
External 1 912 2Hz 0.00 7.58 100

Pk. Num	Ret Time	Component Name	Concent	ration MG/L	Height	Area	Bl. Code	%Delta
2	1.52	CL		0.168	1354	8860	1	-9.00
		ŋ	Cotals	0.168	1354	8860		

# File: 05229A01.D02 Sample: ICB

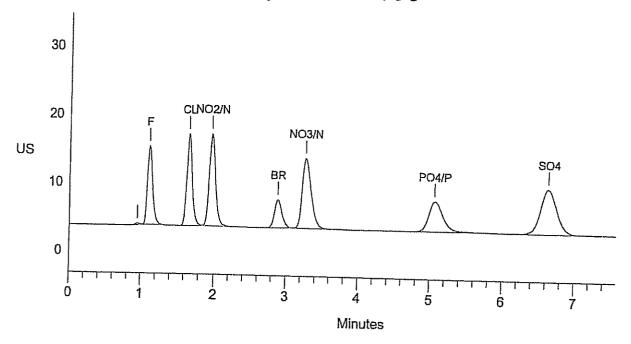


Sample Name: CCV 161-9-3 Date: 08/17/2005 11:16:20
Data File : C:\DX\DATA\05229A01.D03
Method : C:\DX\METHOD\ANIONS1.MET
ACI Address: 1 System: 1 Inject#: 3 Vial: Detector:OTHER
Analyst : D. Gardner Column: AG4A-SC/AS4A-SC INST: DX100

Calibration Volume Dilution Points Rate Start Stop Area Reject External 1 1 912 2Hz 0.00 7.59 100

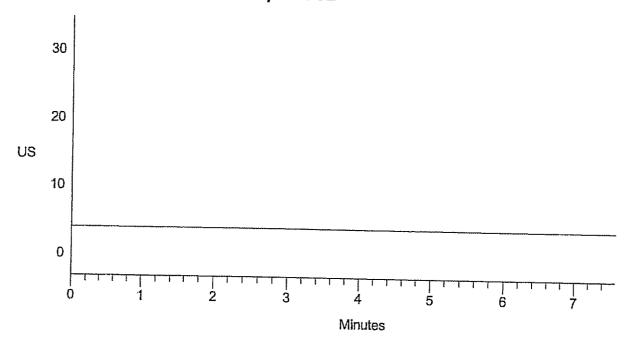
Pk. Num	Ret Time	Component Name	C	oncentration MG/L	Height	Area	Bl. Code	<b>%Delta</b>
2 3 4 5 6 7 8	2.88 3.26	CL NO2/N BR NO3/N PO4/P		2.507 4.629 2.396 4.865 2.379 4.671 9.417	288024 336842 338562 103397 256749 110083 164094	1423472 1757839 1947089 737663 2195866 1483432 2527229	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.00 -1.00 -0.84 0.00 0.51 0.66 0.76
			Totals	30.863	1597751	12072589		

# File: 05229A01.D03 Sample: CCV 161-9-3



Sample Name: CCB Date: 08/17/2005 11:26:21 Data File : C:\DX\DATA\05229A01.D04 Method : C:\DX\METHOD\ANIONS1.MET ACI Address: 1 System: 1 Inject#: 4 Vial: Analyst : D. Gardner Column: AG4A-SC/AS4A-SC INST: DX100 Detector:OTHER Calibration Volume Dilution Points Rate Start Stop Area Reject External 1 1 912 2Hz 0.00 7.59 Ret Component Concentration Height Num Time Name MG/L Totals 0.000

# File: 05229A01.D04 Sample: CCB



# QC WORKSHEET

A 2 つ Date:<u>08月3月2005</u> Analyst: <u>QC</u>

Client: Resolution	Copper	<u>C</u> o.
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2	SVL#: ICV ICV True ICB CCV True CCV I CCBI CCV Z CCB Z CCV Z CCB Z CCV Z CCCB Z CCV Z CCCB Z CCV Z CCCB Z CCV Z CCCB Z	Fluoride  2.47  3.50  <0.10  2.50  2.45  <0.1  3.48  <0.1  3.45  <0.1  3.45  <0.1  3.45	Chloride' 4.83 4.96 <0.20 4.79 <0.2 4.80 <0.2 4.79 <0.2 4.79 <0.2	Nitrite/N	Bromide' 5.02 4.96 <0.10 4.96 5.02 <0.1 4.97 <0.1	Nitrate/N	Phosphate/P	Sulfate 9,83 9,97 <0.3 9,97 9,79 <0.3
2 3 4 5 6 7 8 9 10 11 12	ICV True ICB CCV True CCV 1 CCBI CCV3 CCBA CCV3 CCBA CCV4 CCBC CCCBC CCV4 CCCCCCCCCCCCCCCCCC	3.50 2.50 2.45 2.45 40.1 3.48 40.1 3.45 40.1 3.45	4.96 <0.20 4.96 4.79 <0.2 4.80 <0.3 4.79 <0.3		4.96 <0.10 4.96 5.02 <0.1 4.97		,	9,83 9,97 <0.3 9,97 9,79
2 3 4 5 6 7 8 9 10 11 12	ICB CCV True CCV 1 CCBI CCV 3 CCB 3 CCV 3 CCB 3 CCV 4 CCB 4 CCB 4 CCV 5	\$\langle 0.10 \$\langle 2.46 \$\langle 0.1 \$\langle 48 \$\langle 0.1 \$\langle 45 \$\langle 0.1 \$\langle 9.1 \$\langle 9.1 \$\langle 9.1 \$\langle 9.1 \$\langle 9.1 \$\langle 9.1 \$\langle 9.1 \$\langle 9.1 \$\langle 9.1 \$\langle 9.1 \$\langle 9.1 \$\langle 9.1 \$\langle 9.1 \$\langle 9.1 \$\langle 9.1 \$\langle 9.1 \$\langle 9.1 \$\langle 9.1 \$\langle 9.1 \$\langle 9.1 \$\langle 9.1 \$\langle 9.1 \$\langle 9.1 \$\langle 9.1 \$\langle 9.1 \$\langle 9.1 \$\langle 9.1 \$\langle 9.1 \$\langle 9.1 \$\langle 9.1 \$\langle 9.1 \$\langle 9.1 \$\langle 9.1 \$\langle 9.1 \$\langle 9.1 \$\langle 9.1 \$\langle 9.1 \$\langle 9.1 \$\langle 9.1 \$\langle 9.1 \$\langle 9.1 \$\langle 9.1 \$\langle 9.1 \$\langle 9.1 \$\langle 9.1 \$\langle 9.1 \$\langle 9.1 \$\langle 9.1 \$\langle 9.1 \$\langle 9.1 \$\langle 9.1 \$\langle 9.1 \$\langle 9.1 \$\langle 9.1 \$\langle 9.1 \$\langle 9.1 \$\langle 9.1 \$\langle 9.1 \$\langle 9.1 \$\langle 9.1 \$\langle 9.1 \$\langle 9.1 \$\langle 9.1 \$\langle 9.1 \$\langle 9.1 \$\langle 9.1 \$\langle 9.1 \$\langle 9.1 \$\langle 9.1 \$\langle 9.1 \$\langle 9.1 \$\langle 9.1 \$\langle 9.1 \$\langle 9.1 \$\langle 9.1 \$\langle 9.1 \$\langle 9.1 \$\langle 9.1 \$\langle 9.1 \$\langle 9.1 \$\langle 9.1 \$\langle 9.1 \$\langle 9.1 \$\langle 9.1 \$\langle 9.1 \$\langle 9.1 \$\langle 9.1 \$\langle 9.1 \$\langle 9.1 \$\langle 9.1 \$\langle 9.1 \$\langle 9.1 \$\langle 9.1 \$\langle 9.1 \$\langle 9.1 \$\l	<0.20 4.96 4.79 <0.2 4.80 <0.2 4.79 <0.3		<0.10 4.96 5.02 <0.1 4.97			9.97 <0.3 9.97 9.79
3 6 4 5 6 7 8 9 10 11 12	CCV True  CCV 1  CCB 1  CCV 3  CC	2.50 2.46 40.1 3.48 40.1 3.45 60.1 3.45	4.96 4.79 <0.2 4.80 <0.2 4.79 <0.3		4.96 5.02 <0.1 4.97			<0.3 9.47 9.79
4 5 6 7 8 9 10 11 12	CCV1 CCB1 CCV3 CCB3 CCV3 CCV4 CCV4 CCB4	2.45 <0.1 3.48 <0.1 3.45 <0.1 3.45	4.79 <0.2 4.80 <0.2 4.79 <0.2		5.02 <0.1 4.97			9,97
5 6 7 8 9 10 11	CCBI CCV3 CCB3 CCV4 CCB4 CCB4 CQV5	₹0.1 5.48 ₹0.1 3.45 ₹0.1 2.45	<0.2 4.80 <0.2 4.79 <0.2		<0.1 4.97			9,79
6 7 8 9 10 11 12	CCV3 CCV3 CCB3 CCV4 CCB4 CCV5	3.48 <0.1 3.45 <0.1 3.45	4.80 <0.2 4.79 <0.2		4.97			ζ <u>Λ.</u> 2
7 8 9 10 11 12	CCBA CCV3 CCB3 CCV4 CCB4 CCV5	<0.1 3.45 <0.1 2.45	<0.2 4:79 <0.2	V				
8 9 10 11 12	CC V 3 CC B 3 CC V Y CC B Y CO V 5	3.45 50.1 2.45	4.79 <0.2		1 くか / 「			9.72
9 10 11 12	CCB3 CCV4 CCB4 - CQV5	50.1 2.45	<0.2					50,3
11 12	CC V Y CC B Y CC V 5	<i>2,45</i>	70.0		5.03			9.81
12	CCB4 - COV5		4.79		<0.1			<0.3
12	COV5		<0.a		5.01			9,80
		50.1 2.44	4.78	-	<u> </u>			<0.3
7.0	CCBS	<0.1			5.03			9.81
14		<u> </u>	<0.2	· · · · · · · · · · · · · · · · · · ·	10,1			10.3
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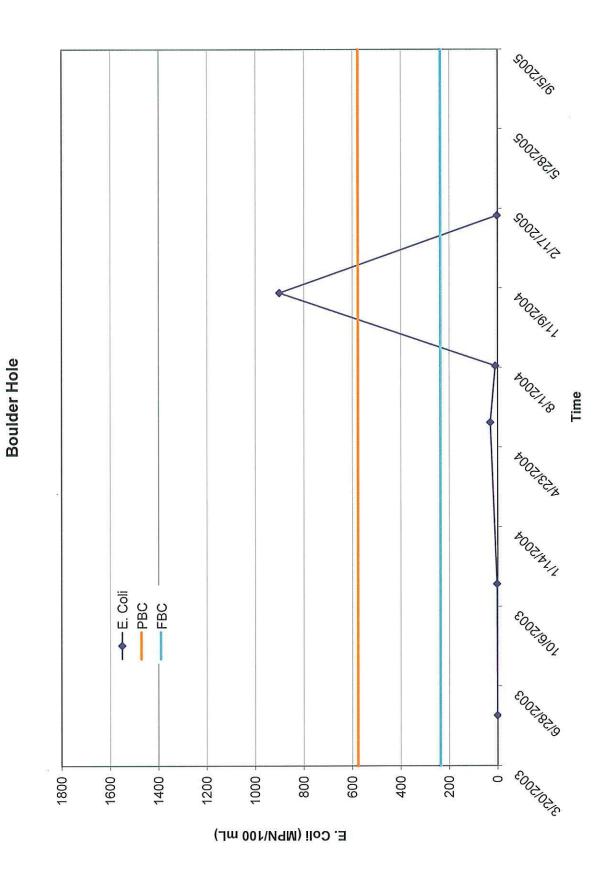
SVL Analytical

# APPENDIX E ITSI STANDARD LEGAL NOTICE

## ITSI STANDARD LEGAL NOTICE

ITSI is issuing this report at the request of the Client and based upon information furnished by Client. Further, the presence of environmental contamination can be influenced by many factors, including unknown and changing underground conditions. Therefore: 1. This report may not be relied upon by anyone for financial decision-making. 2. No one other than Client is authorized to use this report for any purpose. 3. Any conclusions or opinions included in this report are subject to reasonable revision based upon any new environmental or other data which is later developed. 4. Any results or conclusions stated are to be considered limited by the quality of the underlying sample or other data on which they are based, the budget established by the Client or otherwise for gathering and analyzing data, and by any assumptions and qualifications contained within this report.

Kane Spring



PBC FBC FBC + cochock 1800 -E. Coli

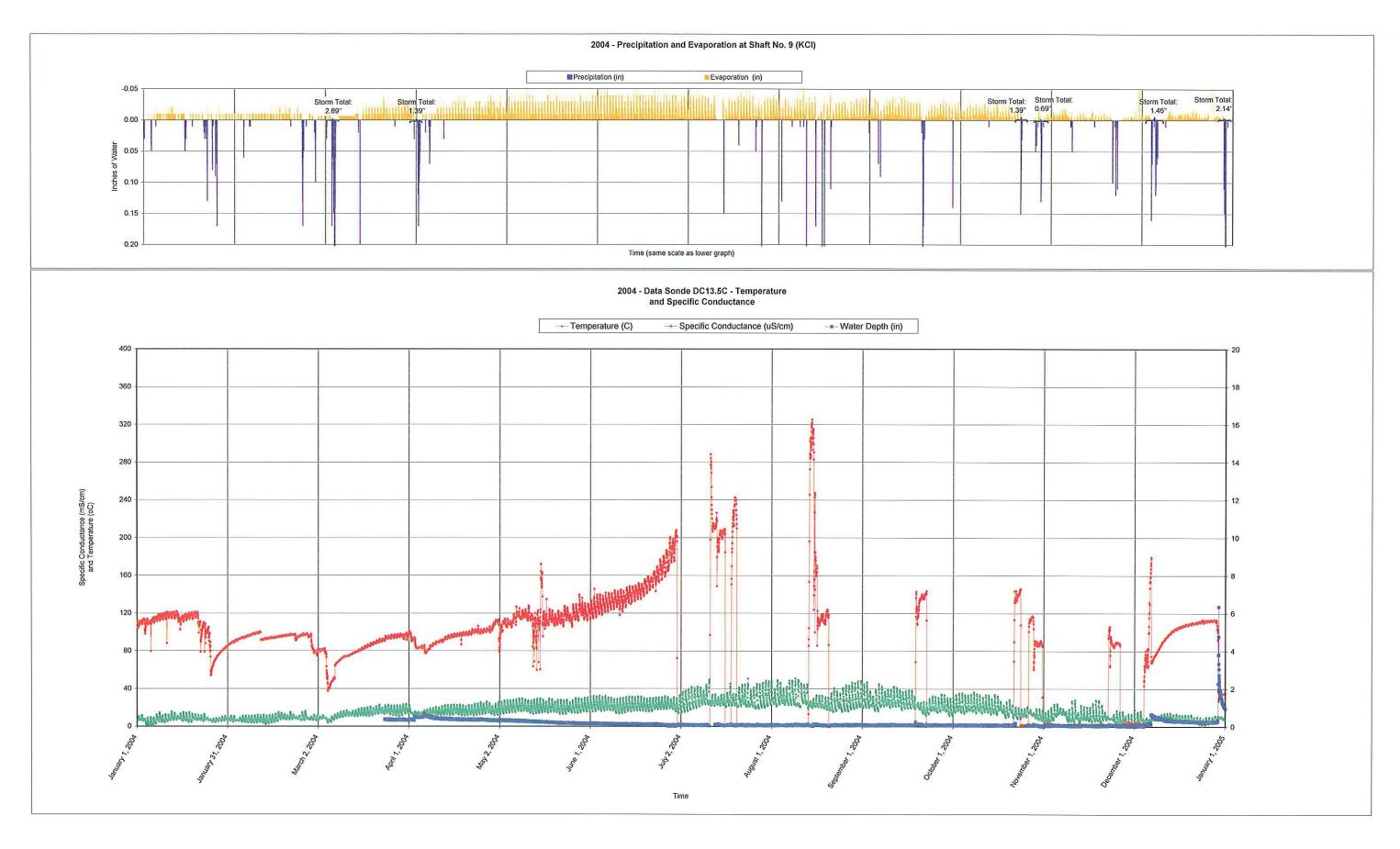
**Bored Spring** 

Blue Spring

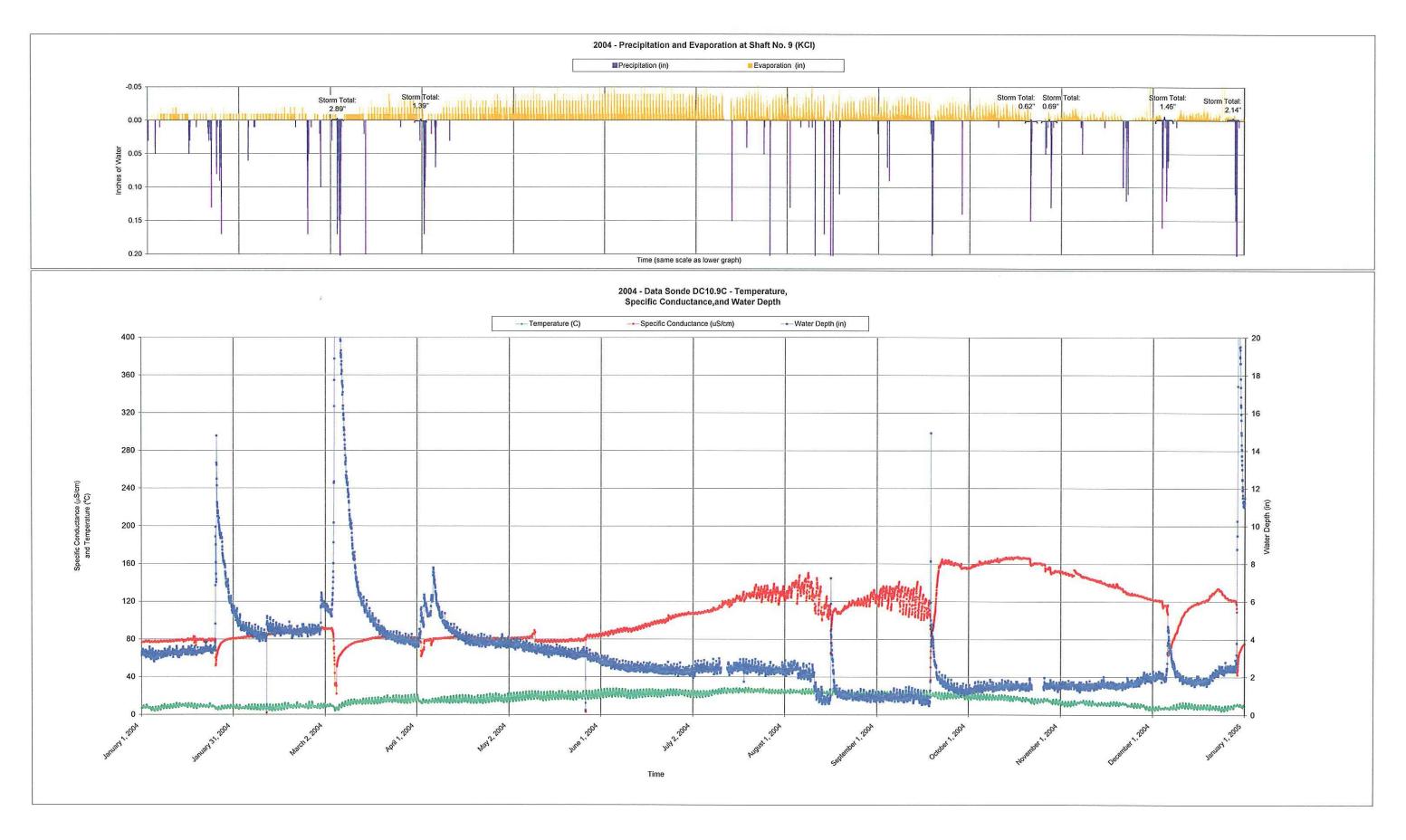
Hidden Spring

2004 ANNUAL GRAPHS

June 2006 Data Sonde DC13.5C 063-2565.1

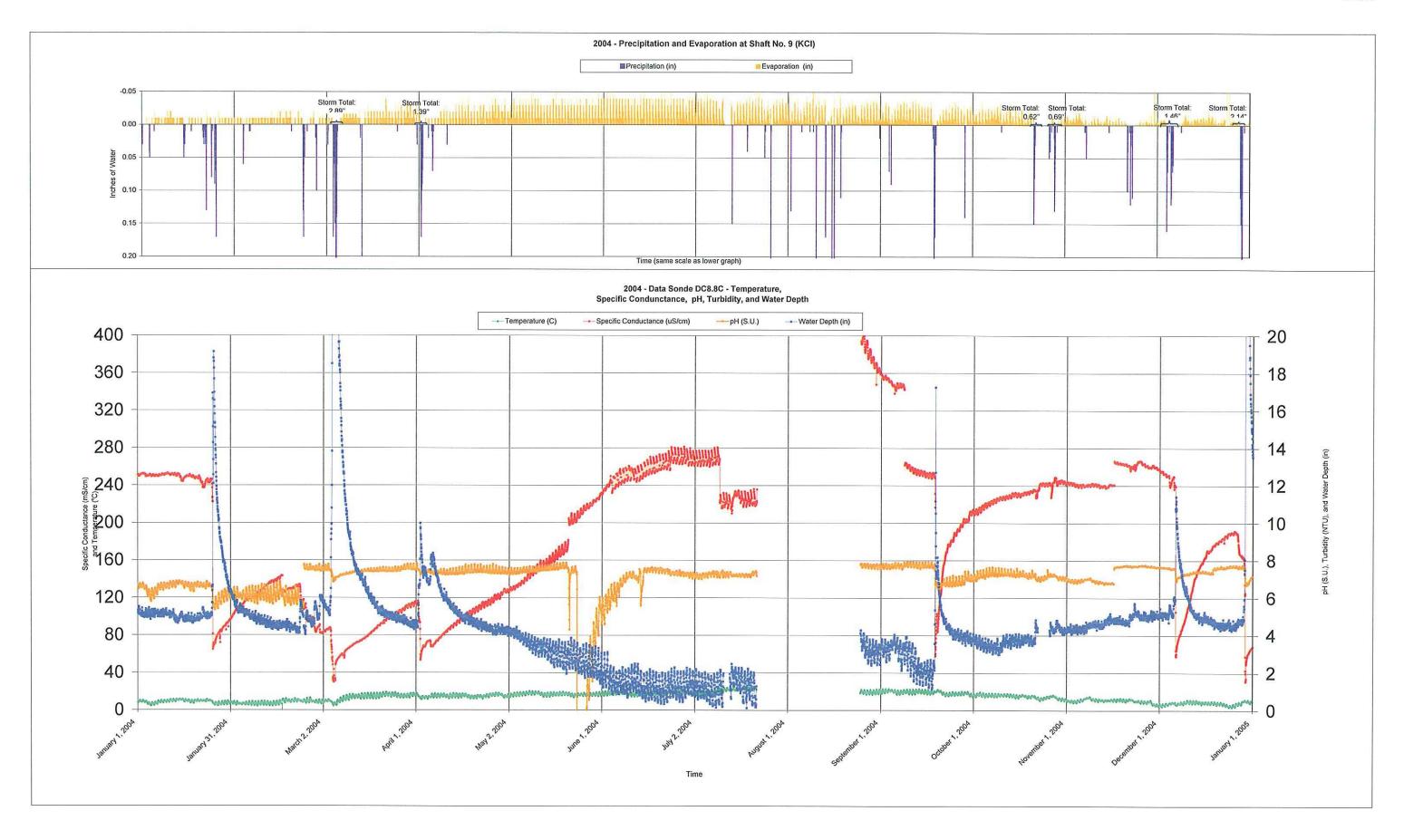


Data Sonde DC10.9C



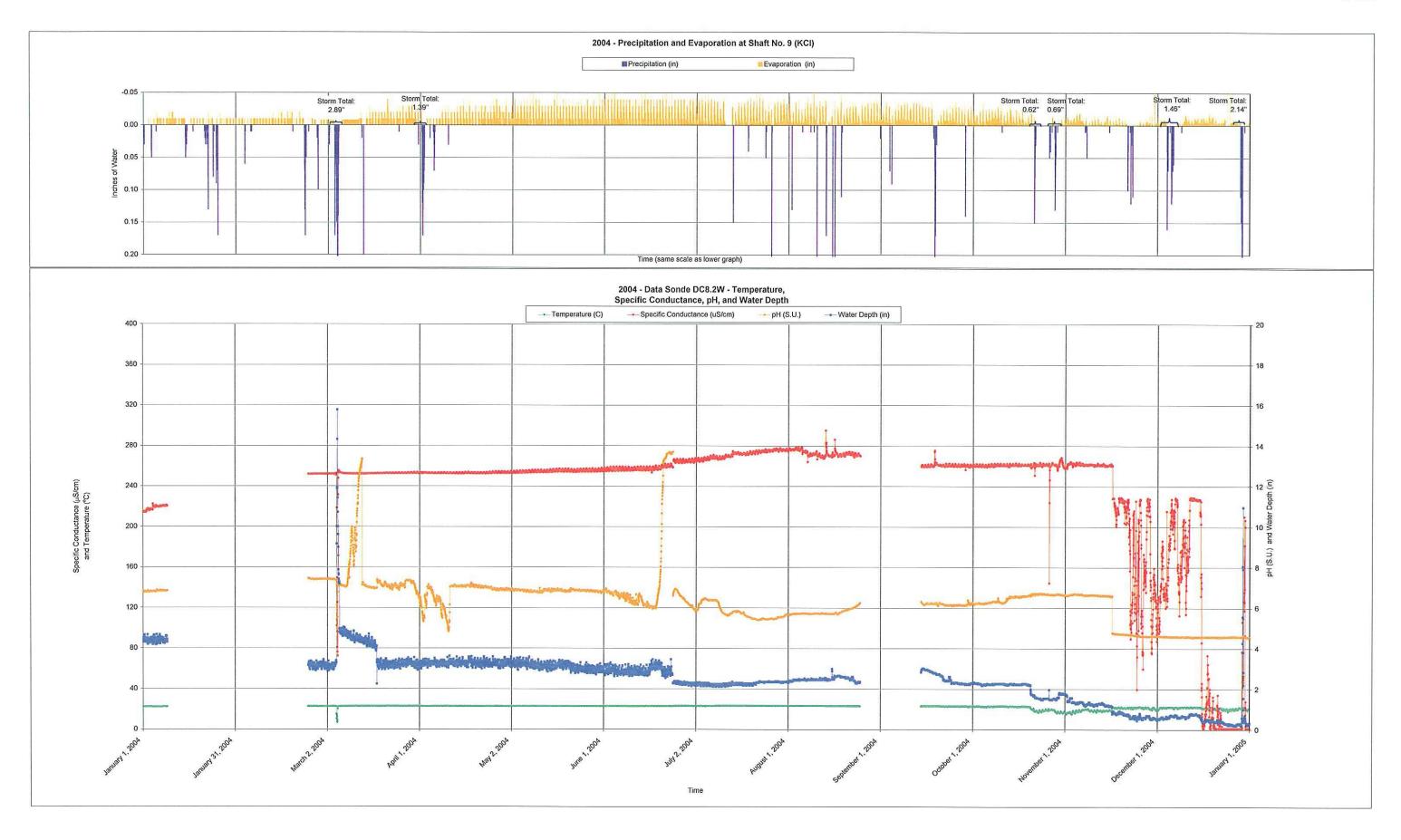
June 2006

O63-2565.1

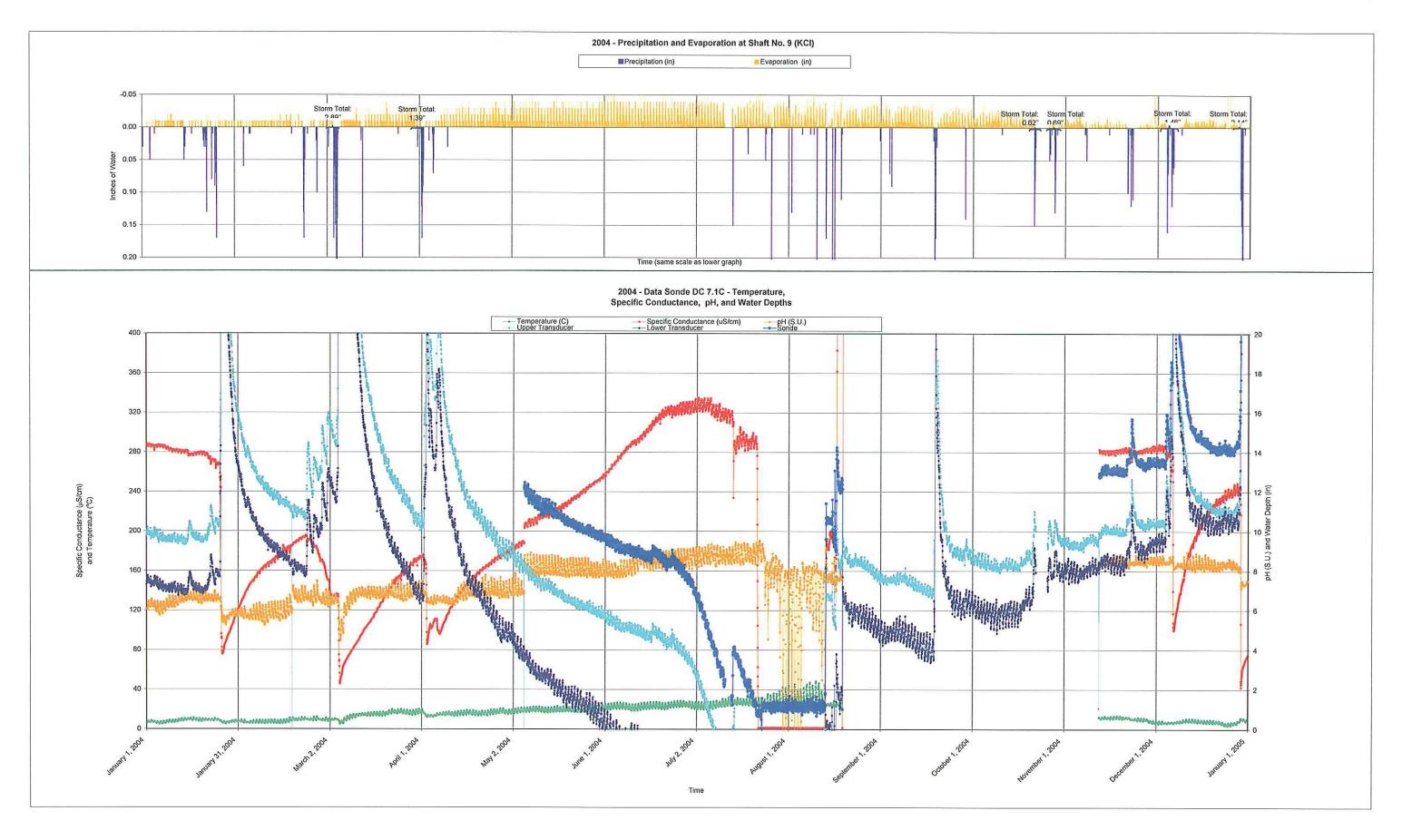


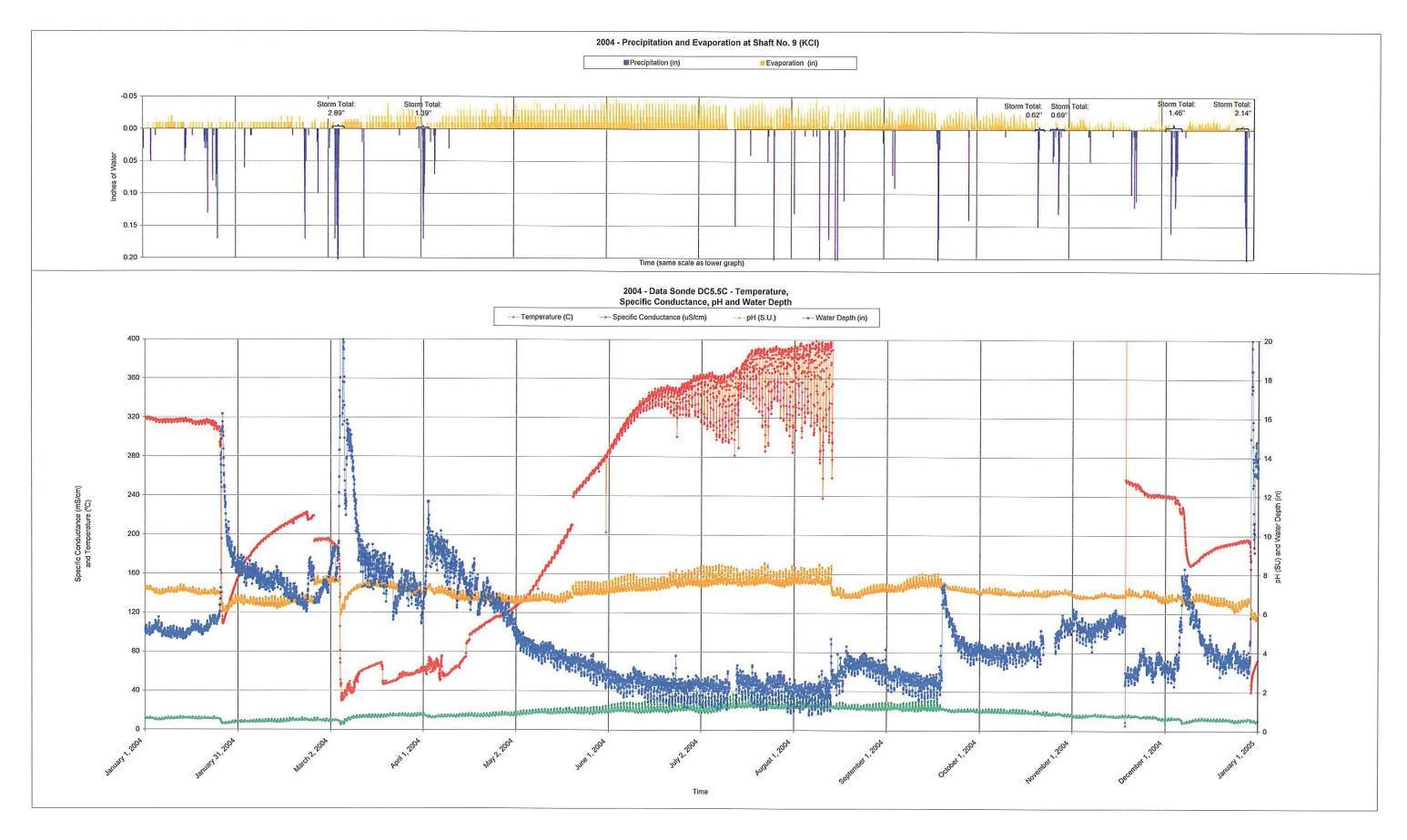
June 2006

Data Sonde DC8.2W



June 2006 Data Sonde DC7.1C





Appendix F

June 2006 063-2565

## **DATA SONDE SUMMARIES**

#### Data Sonde DC13.5C

The data sonde at sample station DC13.5C was deployed on May 8, 2003. The sensor array on this sonde includes a pressure transducer, conductivity, and temperature. Depth data obtained from the sonde indicated a maximum stage of 107 inches on February 12, 2005 at 10:00 AM. A minimum stage of approximately 0 inches was periodically recorded during summer and early fall months, suggesting no discharge. This lack of discharge is substantiated by specific conductance readings. The conductivity sensor at this location was installed such that the sensor was pointing downward (sensor is very near bedrock thalweg) and stops recording conductivity when the sensor goes dry. When the sensor goes dry, it suggests that discharge has ceased or flow was extremely low.

During flow events, specific conductance ranged from approximately 20 to 400 microSiemens per centimeters ( $\mu$ s/cm). Typically, specific conductance varied between approximately 80 (during moderate flows) and 250  $\mu$ s/cm (during low flow drought conditions – likely due to evapoconcentration). Low specific conductance readings occurred during high flow conditions (very little dissolved constituents) and the high readings occurred during first-flush events following long dry periods. Diurnal fluctuations in specific conductance ranged between approximately 5 (typically during the winter months) and 40  $\mu$ s/cm (typically during the summer months).

## **Data Sonde DC10.9C**

The data sonde at sample station DC10.9C was deployed on September 18, 2003. The sensor array on this sonde includes a pressure transducer, conductivity, and temperature. Depth data obtained from the sonde indicated a maximum stage of 115 inches on February 12, 2005 at 11:00 AM. A minimum stage of approximately 1 inch annually occurred during August and September. This site has had continuous flow since the installation of the sonde.

Specific conductance ranged from approximately 20 to 280 µs/cm. Typically, the specific conductance varied between approximately 120 (during moderate flows) and 150 µs/cm (during low flow drought conditions – likely due to evapoconcentration). Low specific conductance readings (i.e., 20 µs/cm) occurred during high flow conditions (very little dissolved constituents). Diurnal fluctuations in specific conductance ranged between approximately 5 (typically during the winter months) and 40 µs/cm (typically during the summer months).

#### **Data Sonde DC8.8C**

The data sonde at sample station DC8.8C was deployed on September 18, 2003. The sensor array on this sonde includes a pressure transducer, conductivity, pH, turbidity, and temperature. Depth data obtained from the sonde indicated a maximum stage of 117 inches on February 12, 2005 at 11:00 AM. A minimum stage of approximately 1 inch annually occurred during July and August. This site has had continuous flow since the installation of the sonde.

Specific conductance ranged from approximately 20 to 450  $\mu$ s/cm. Typically, the specific conductance varied between approximately 180 (during baseflow conditions) and 100  $\mu$ s/cm (during moderate flow conditions). High readings (i.e., 450  $\mu$ s/cm during September 12, 2003) occurred during late summer high flow events. The majority of high flow events resulted in depressed specific conductance readings; however, the late summer flows typically resulted in elevated conductivity. The low specific conductance readings (i.e., 20  $\mu$ s/cm) occurred during high flow conditions (very little dissolved constituents). Diurnal fluctuations in specific conductance ranged between approximately 3 (typically during the winter months) and 20  $\mu$ s/cm (typically during the summer months).

pH at this site generally ranged between 7 and 8. Diurnal fluctuations in pH varied between approximately 0.1 and 0.8 pH units and were typically diminished during high flow events. Unlike the specific conductance measurements, a clear seasonal trend of larger diurnal fluctuations during warmer months was not evident as this station. Because this site is dominated by baseflow and is very close to the point where water surfaces, it is likely that residence time of the water is not sufficient for biochemical activity to have an effect on water chemistry. DC8.8C is also located under a canopy of deciduous trees, which may allow more sunlight to reach the water during winter months, thereby promoting elevated algal photosynthetic activity. This would result in an inverse seasonal relationship of increased diurnal changes in winter. This was noted during one winter but was not consistent (potentially flow conditions are also effecting this).

Turbidity readings were collected during the first 2 months of sonde deployment. Readings typically varied between 1 and 10 nephelometric turbidity units. Comparison to the rainfall events indicate that spikes in turbidity readings do correlate with rainfall events. Of particular interest are the late August 2003 rainfall events that indicate turbidity spikes that correlate with rainfall events and a short-term reduction of specific conductance.

#### Data Sonde DC8.2W

The data sonde at sample station DC8.2W was deployed on July 17, 2003. This station consisted of a cutthroat flume with the data sonde set in the stilling pool immediately upstream of the flume. The sensor array on this sonde includes a pressure transducer, conductivity, pH, and temperature. The sonde and flume were installed to monitor the single largest and most consistent discrete source of spring water entering Devils Canyon. The primary objective of this monitoring location was to collect a long record of spring discharge in attempt to assess discharge response to climate/precipitation records. Numerous technical difficulties were encountered for the duration of the study at this site, and monitoring was permanently discontinued on February 26, 2005. The primary problems included muck (i.e., organic and mineral debris) filling up the upstream stilling pool and submerging the sensors and spring discharge infiltrating prior to entering the flume (e.g., subflow). By September 14, 2004, a significant portion of the spring water was infiltrating prior to flowing through the flume. By late January 2005, all of the flow was bypassing the flume in this way. As a result, data collected after September 2004 are not assessed in this subsection. In addition, because the sonde was readjusted (lifted approximately 1 to 1.5 inches) in an attempt to minimize the sensors being covered with muck, water levels collected after February 23, 2004 require the addition of approximately 1.5 inches for comparison to water levels collected prior to sonde sensor level adjustment.

Depth data obtained from the sonde indicated a maximum stage of approximately 18 inches on February 12, 2005 at 11:00 AM. This relatively elevated water depth was due to creek flow impinging on the flume/sonde station (as made evident by flood debris), and not to elevated flows from the spring. Flow at this location was fairly consistent, with depth readings varying between 4.5 and 5 inches. This site has had continuous flow since the installation of the flume/sonde. Only the path of the water has changed and left the flume/sonde dry.

Specific conductance typically ranged from 250 to 280  $\mu$ s/cm. High readings associated with small rainfall events were as large as approximately 350  $\mu$ s/cm. Large rainfall events that result in high creek flows tended to inundate the monitoring system (i.e., March 5, 2004) resulting in specific conductance readings as low as approximately 75  $\mu$ s/cm. Diurnal fluctuations ranged from 1 to 5  $\mu$ s/cm.

pH at this site generally ranged between 6 and 7.4. Following calibration, pH would slowly decrease until the next recalibration, averaging between 7.2 and 7.4. This decrease was believed to be a result

of mineral deposits on the pH sensor (physically observed on sensor bulb following deployment), and was not due to water quality trends. Diurnal fluctuations in pH were extremely small (generally less than 0.1). This indicates little biochemical activity affecting the water, which was consistent with specific conductance observations.

### **Data Sonde DC7.1C**

The sample station at DC7.1C has two pressure transducers in addition to the data sonde. Data collection at this site started on July 24, 2003. The additional transducers were installed to collect data to calculate the magnitude of flood flow events (using a stage/slope relationship). The sensor array on this sonde includes a pressure transducer, conductivity, pH, and temperature. Depth data obtained from this station indicated a maximum stage of 145 inches on February 12, 2005 at 11:00 AM at the upper transducer (the maximum stage measured at any location thus far in the canyon). This site does not have flowing water for short to moderate durations (few days to approximately 1 month) during the summer months, before monsoons.

Specific conductance ranged from approximately 20 to 600 µs/cm. Typically, the specific conductance averaged approximately 300 µs/cm. High readings (i.e., 600 µs/cm on September 12, 2003) occurred during late summer high flow events. The late summer flows typically resulted in elevated specific conductance. The low specific conductance readings (i.e., 20 µs/cm) occurred during high flow conditions (very little dissolved constituents). Diurnal fluctuations in specific conductance ranged between approximately 5 (during the winter months) and 20 µs/cm (during the summer months).

pH at DC7.1C generally ranged between 6 and 9. During low- to no-flow conditions (the sonde was installed approximately 1 foot below the level at which the pool at this site begins flowing) pH varied from 7.5 to 9. During moderate to high flow conditions, pH typically ranged between 6 and 7.5. High pH values during low- to no-flow conditions are likely due to photosynthetic uptake of CO₂ and evapoconcentration of the dissolved constituents, resulting in high alkalinity and pH. Diurnal fluctuations in pH varied from less than 0.1 to 1.3 pH units and were typically diminished during high flow events. A clear trend of large diurnal fluctuations during the summer months and diminished diurnal pH fluctuations during winter months exist at this site.

#### Data Sonde DC5.5C

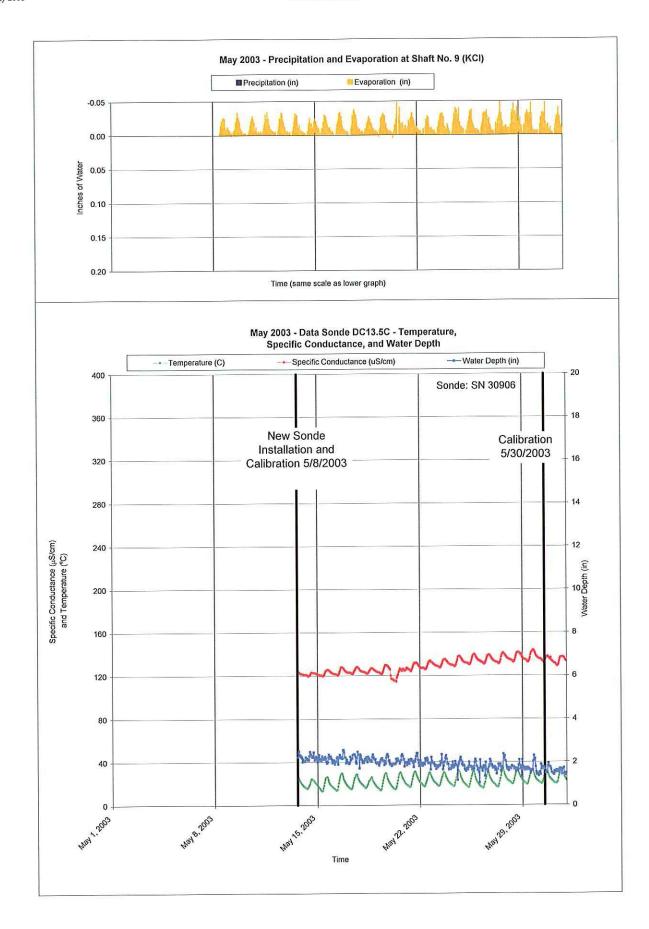
The sonde at DC5.5C was deployed on October 22, 2003. The sensor array on this sonde includes a pressure transducer, conductivity, pH, and temperature. Depth data obtained from this station indicated a maximum stage of 91 inches on February 12, 2005 at 10:00 AM. Prior to the summer rains, a minimum stage reading of approximately 0.5 inch was recorded.

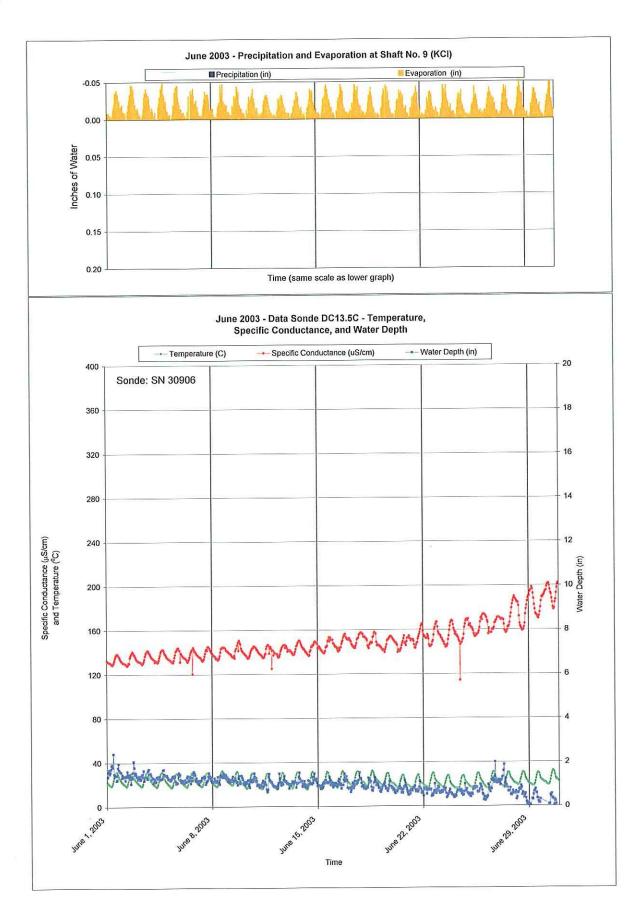
Specific conductance ranged from approximately 20 to 750  $\mu$ s/cm. The high readings (i.e., 750  $\mu$ s/cm on August 14, 2004) occurred during late summer high flow events. The low specific conductance readings (i.e., 20  $\mu$ s/cm) occurred during high flow conditions (very little dissolved constituents). Diurnal fluctuations in specific conductance ranged between approximately 0 and 1 (during the winter months) and up to approximately 100  $\mu$ s/cm (during the summer months). The very large summer variations in specific conductance are potentially a result of the conductivity sensor going partially dry due to diurnal fluctuations of discharge (suggesting an evapotranspiration driver).

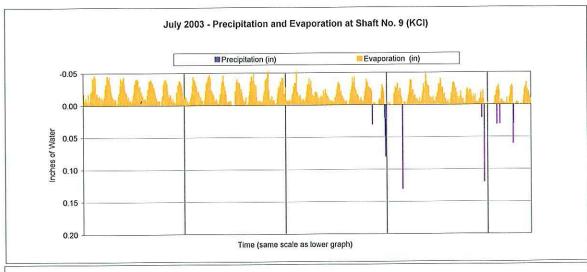
pH at this site generally ranged between 6 and 8.5. During low-flow conditions pH typically ranged from 7 to 8.5. During moderate to high flow conditions, pH typically ranged between 6 and 7. pH readings taken between January and late May 2005 are likely incorrect because subsequent data indicated that pH was approximately 3.5 units less than the actual. This malfunction appeared to happen following a series of high flow events that began in late January 2005. Diurnal fluctuations in pH varied from approximately 0.2 during the winter months and 1.0 during the summer months. A clear trend of large diurnal fluctuations during the summer months and diminished diurnal pH fluctuations during winter months exist at this site.

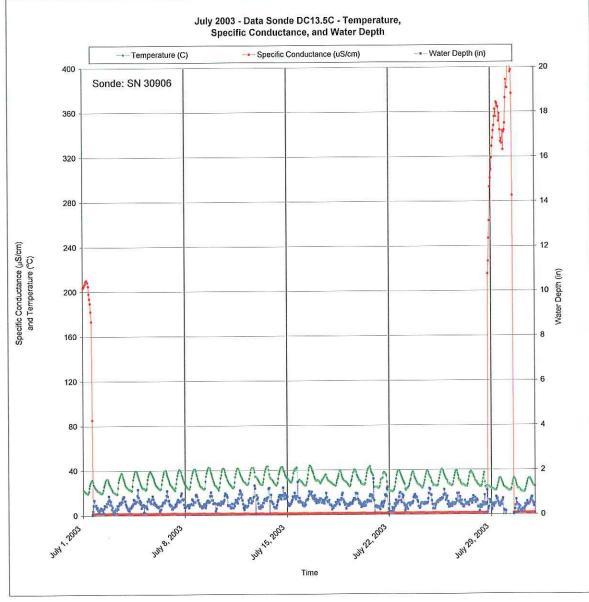
MONTHLY GRAPHS

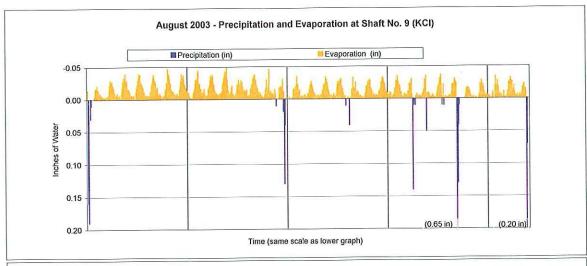
DC 13.5C

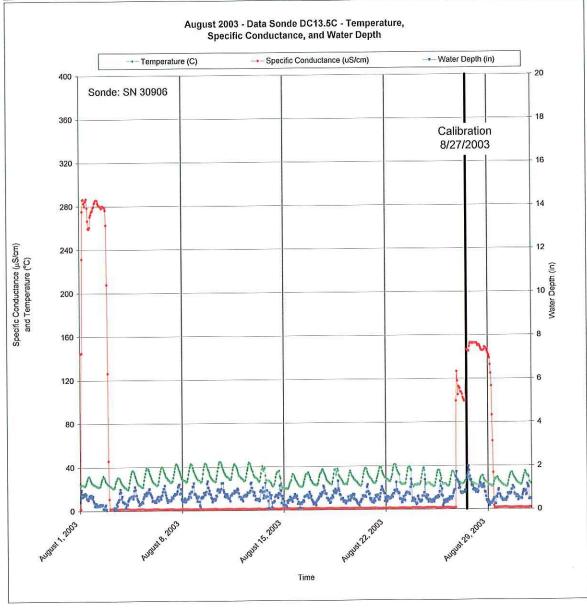


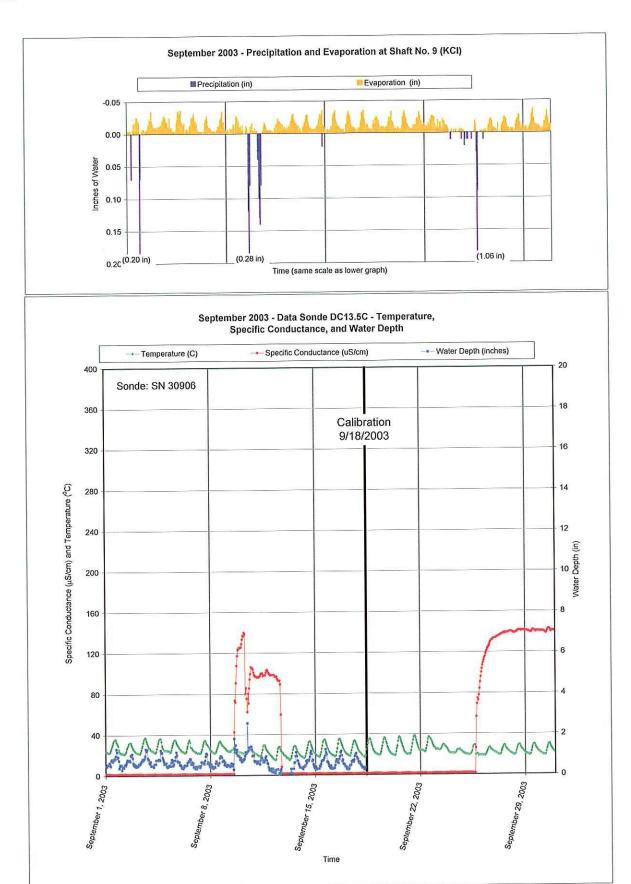


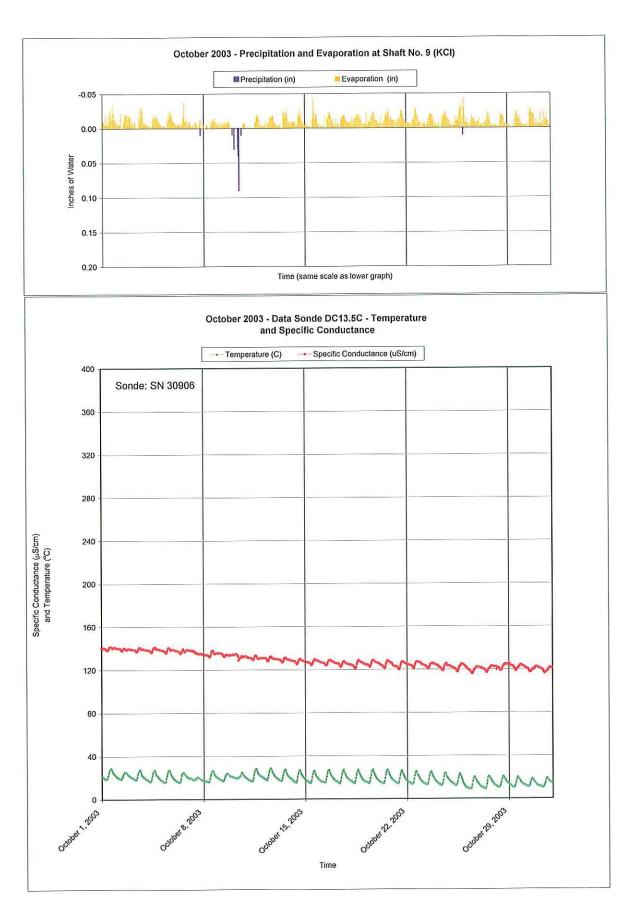




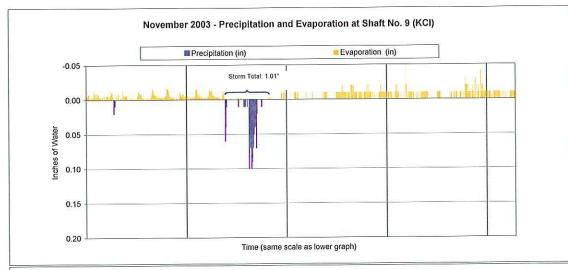


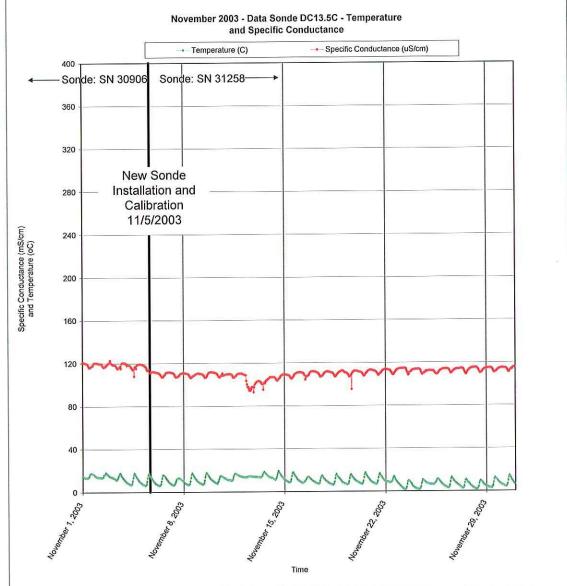


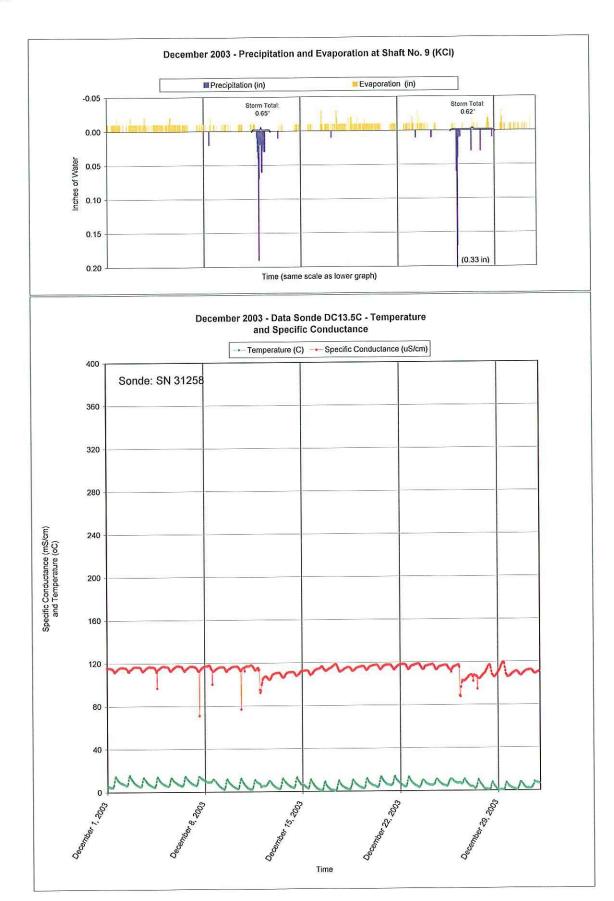


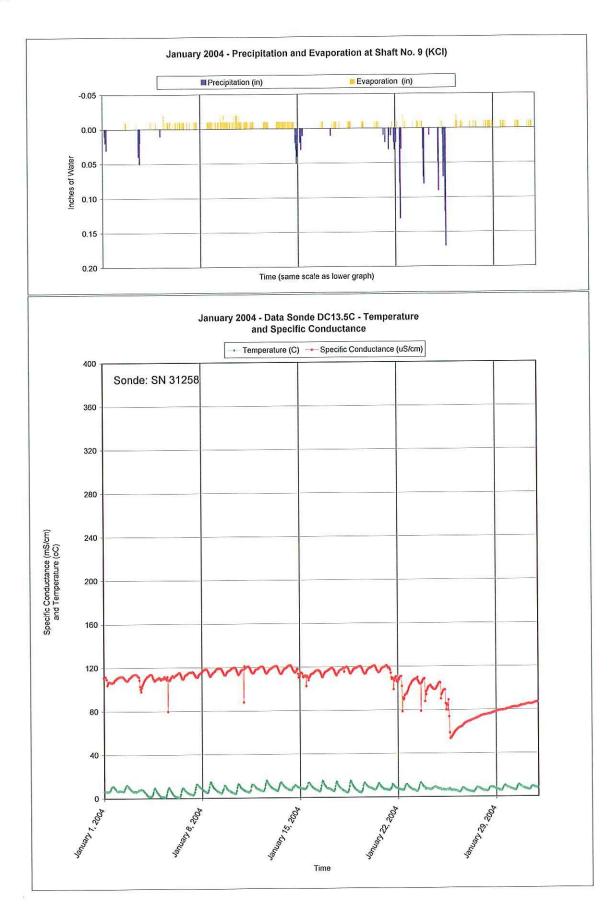


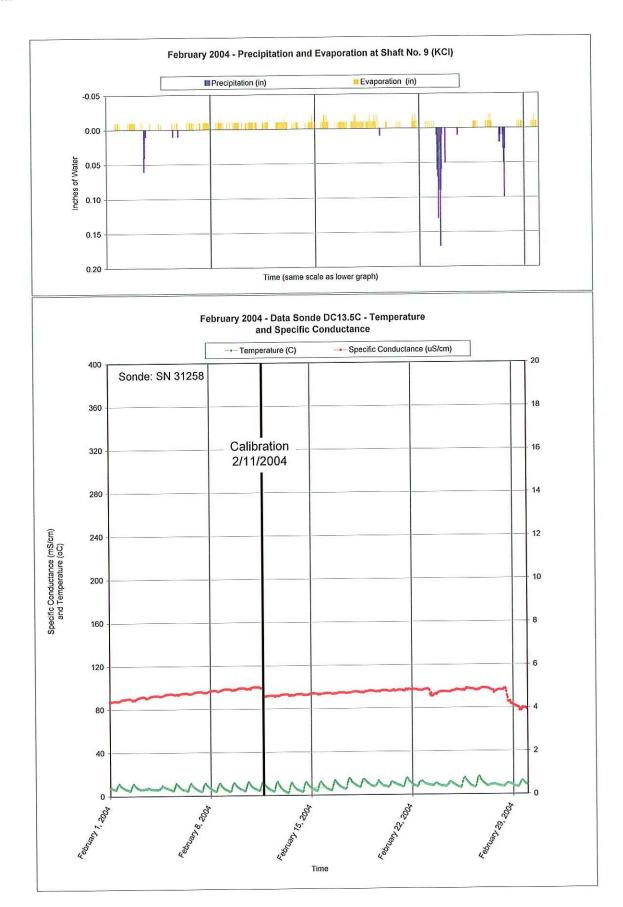
May 2006

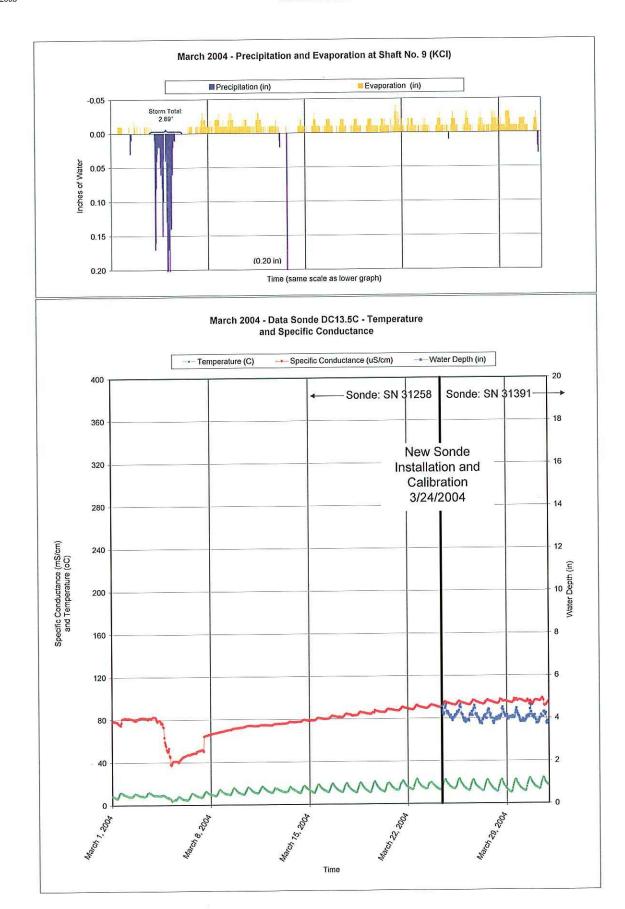


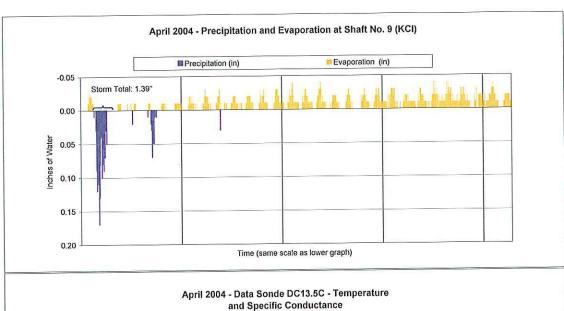


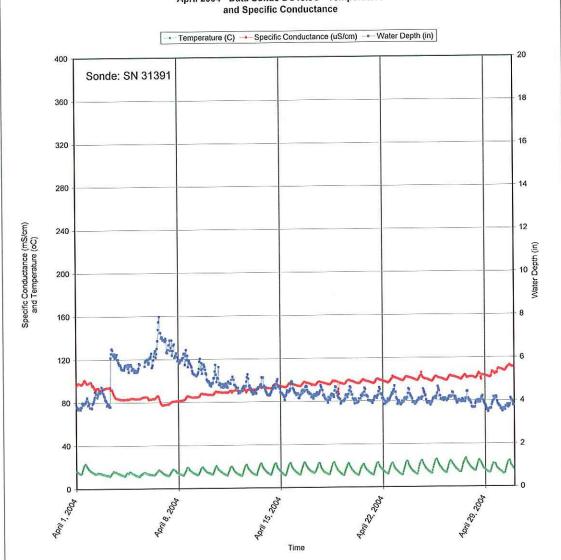




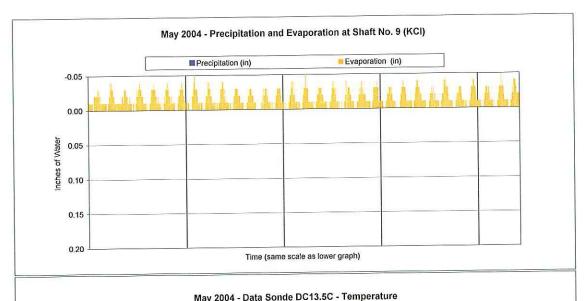


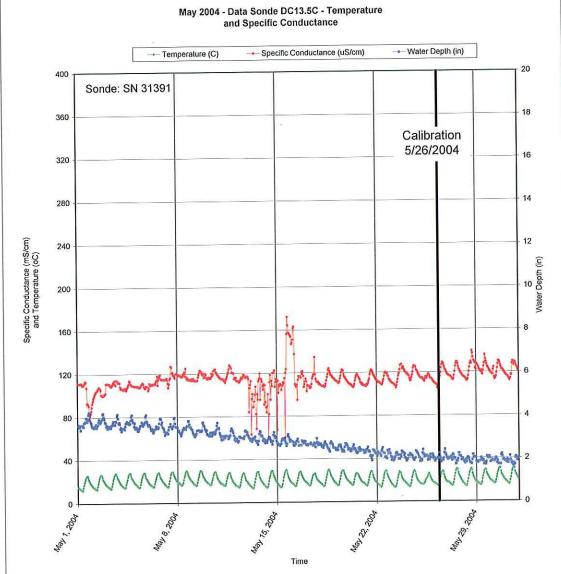


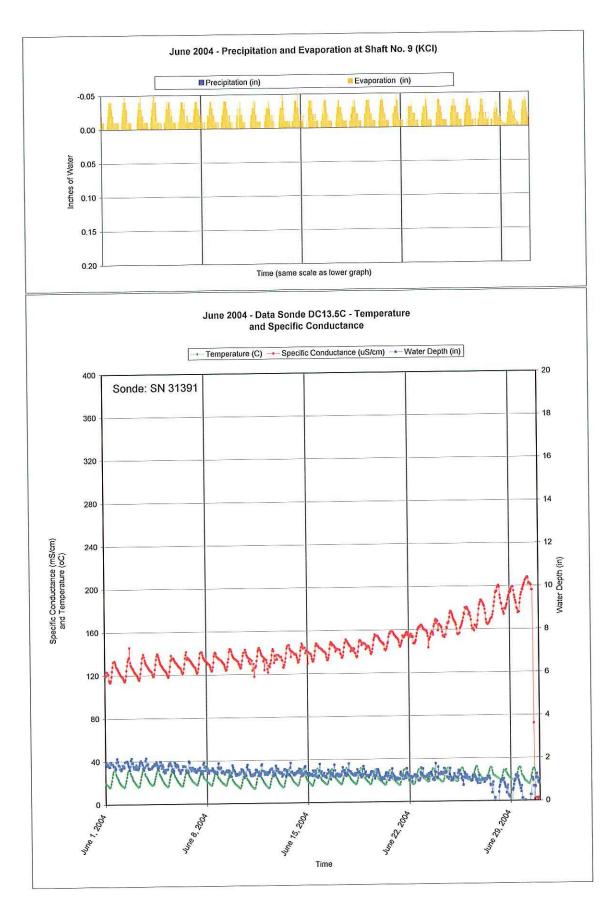


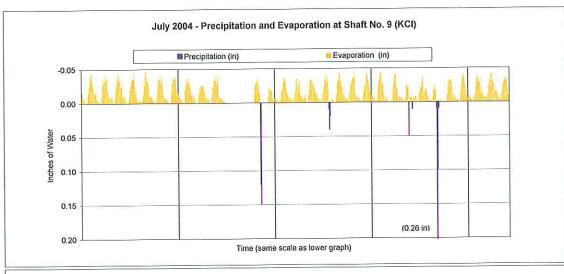


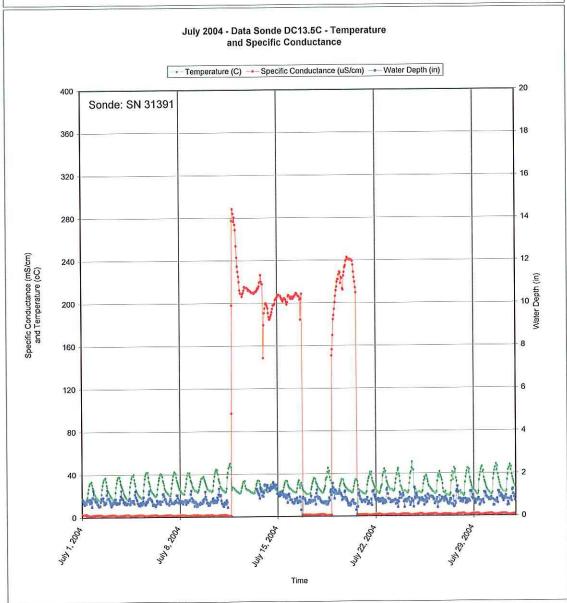
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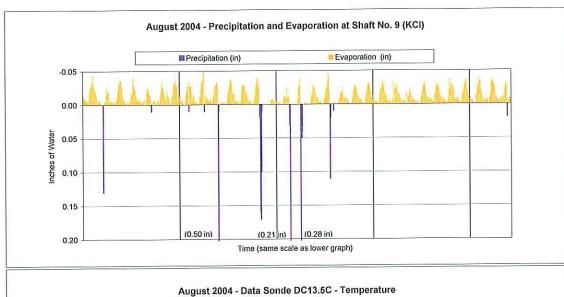


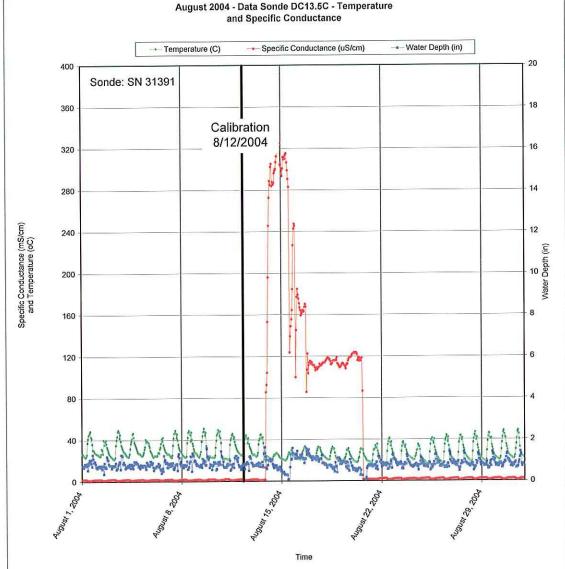


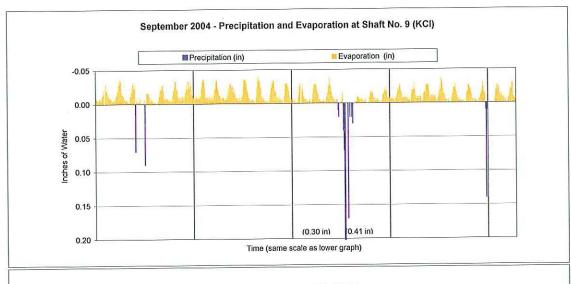


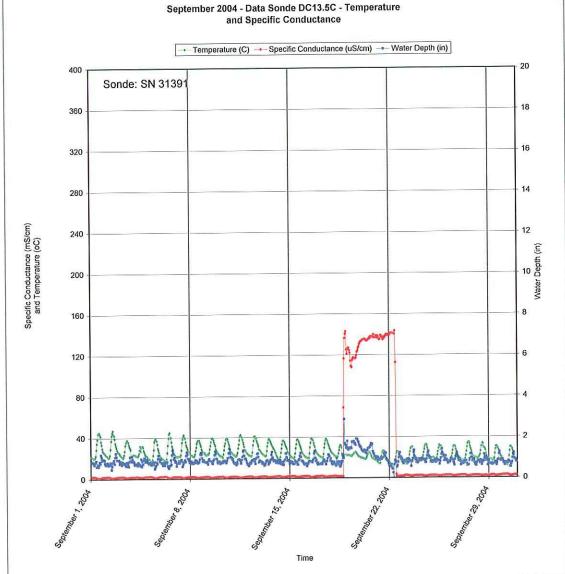


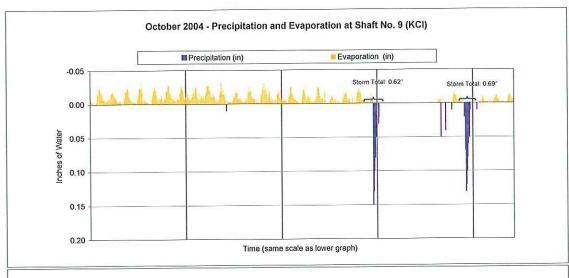


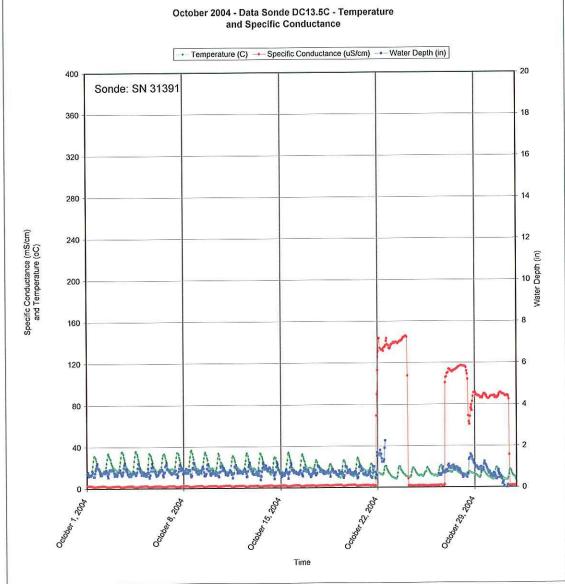


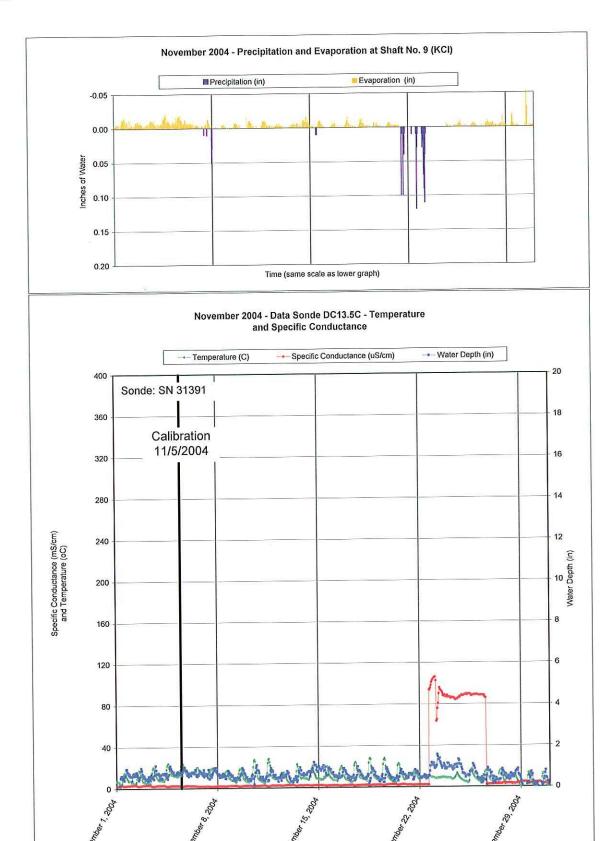




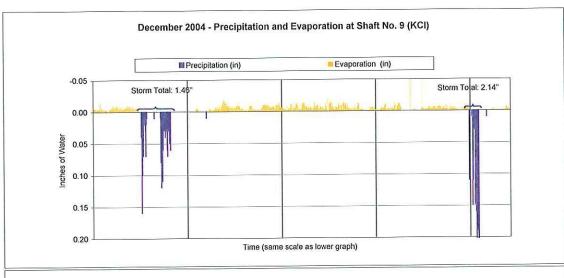


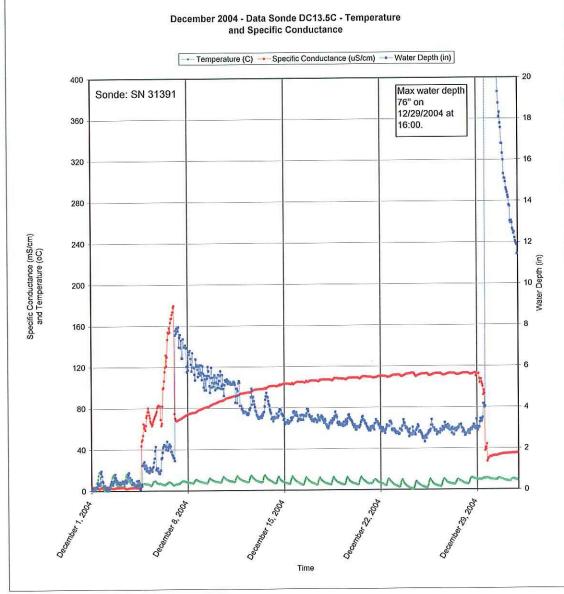


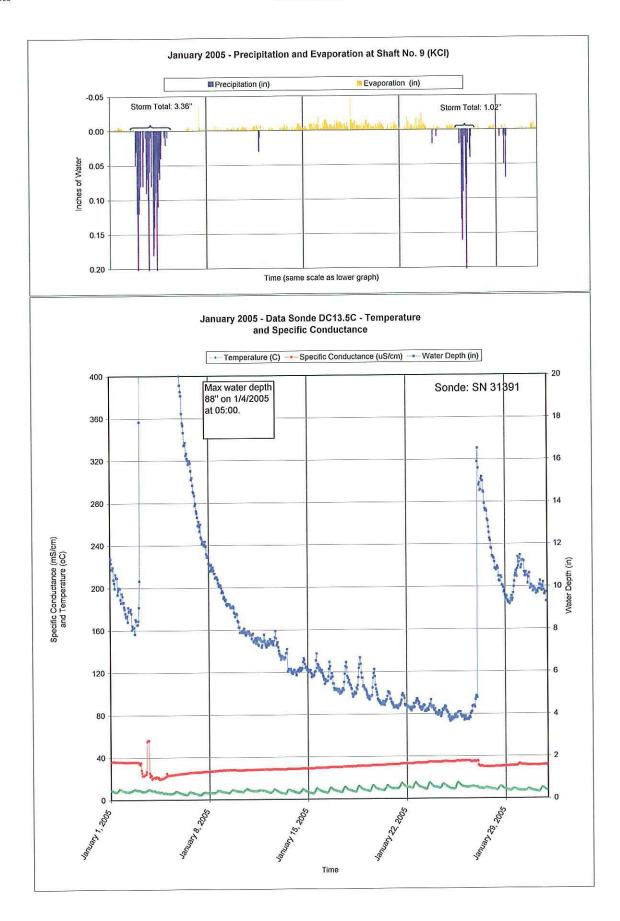


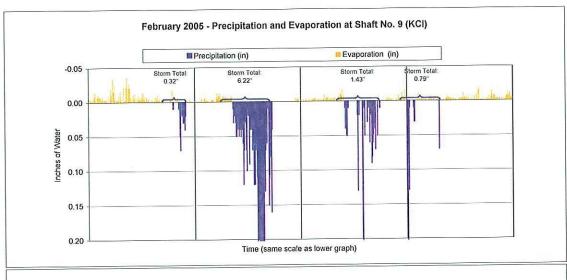


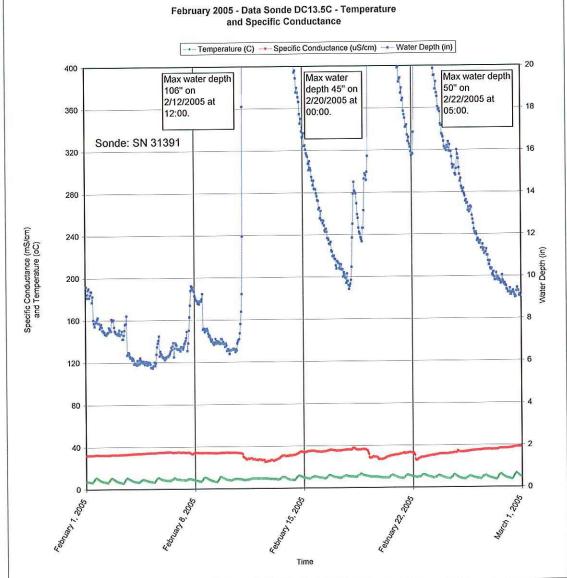
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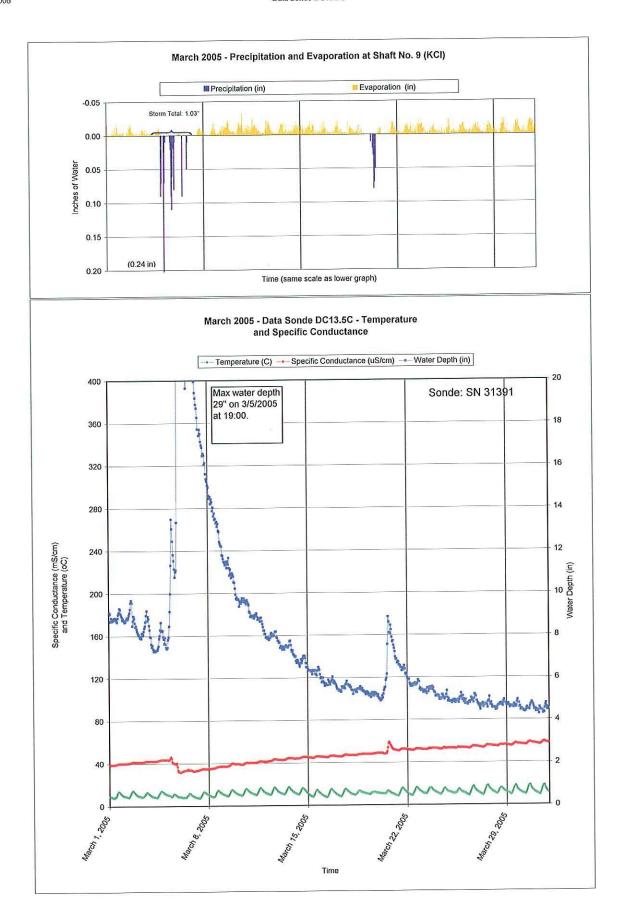


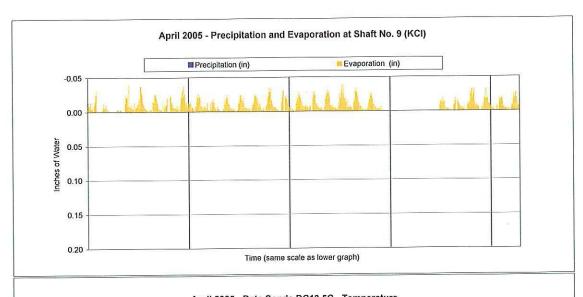


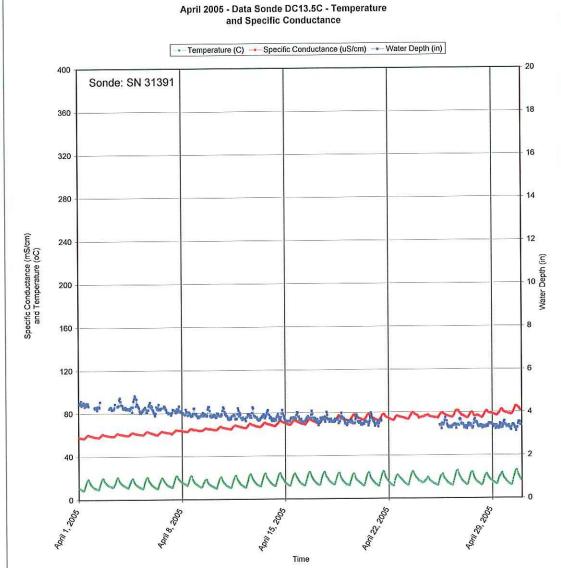


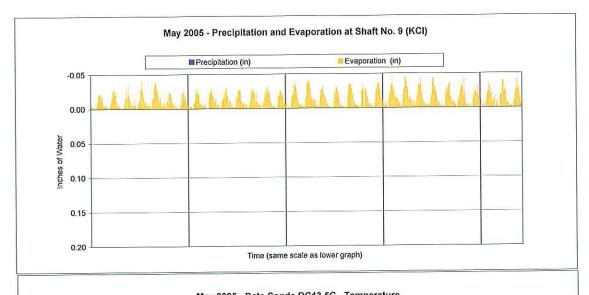


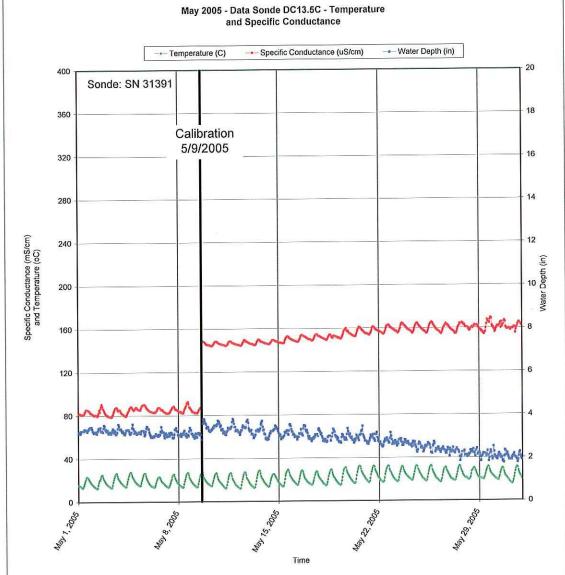


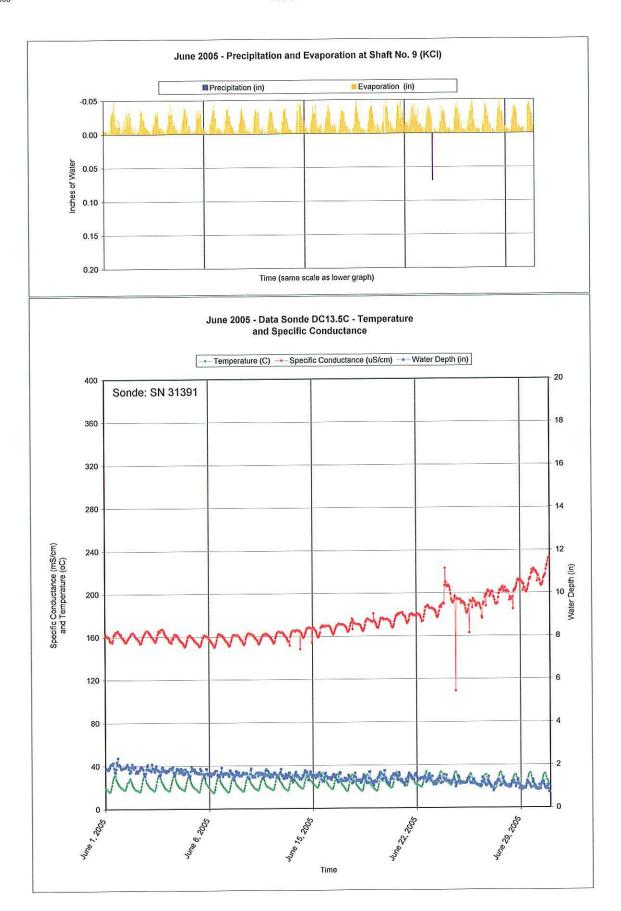


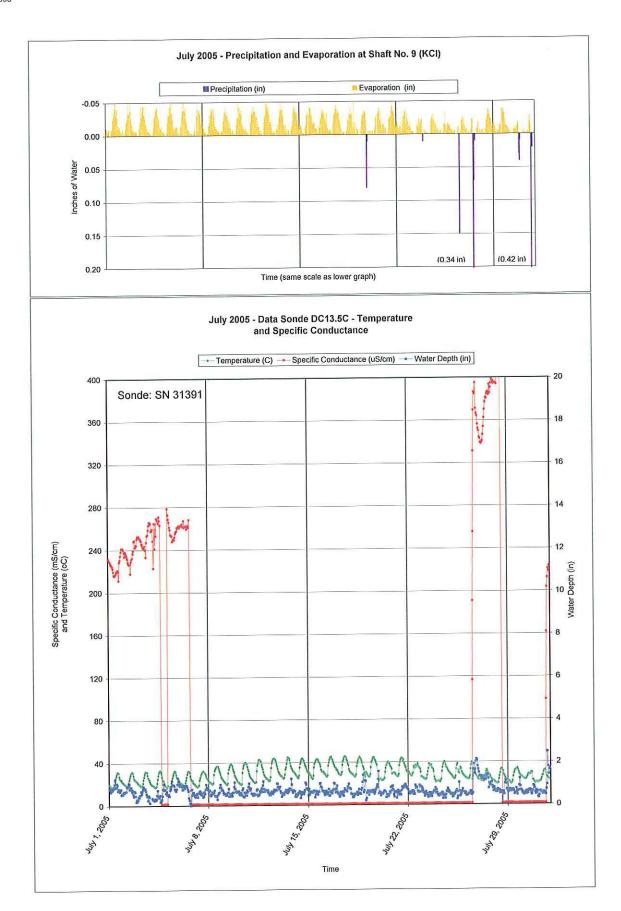


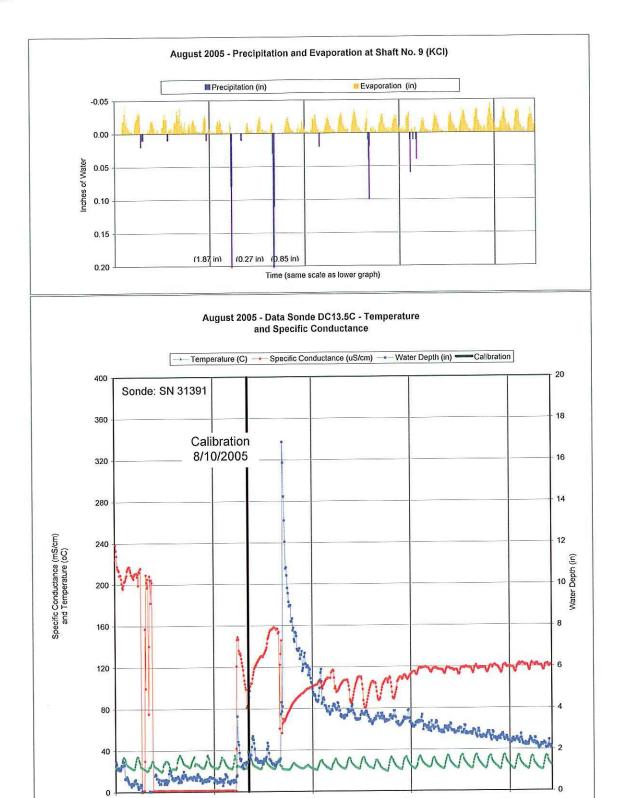




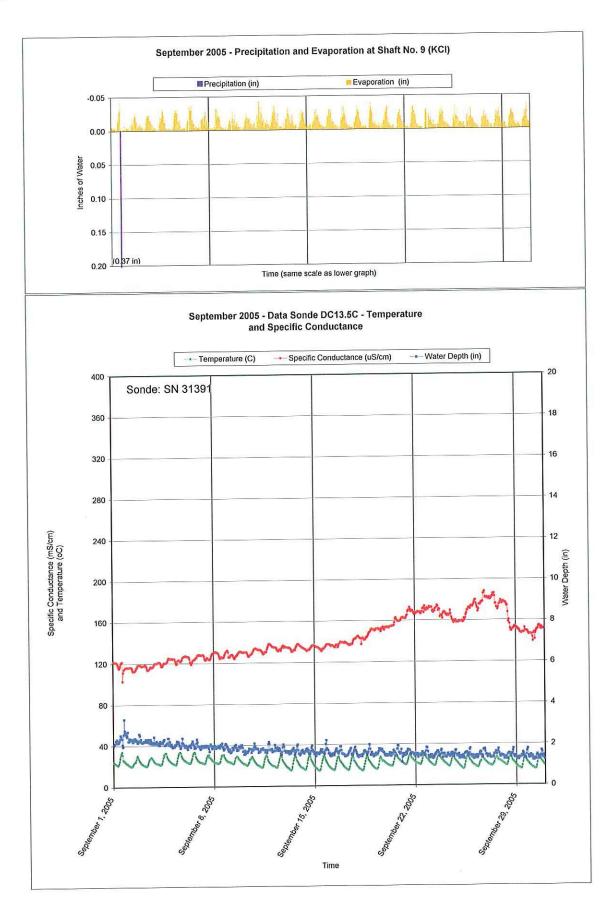


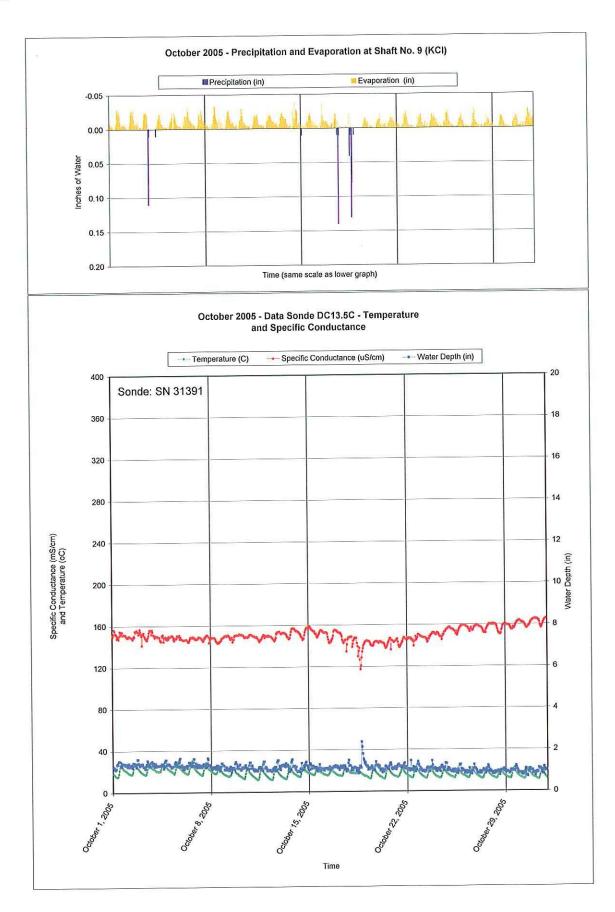


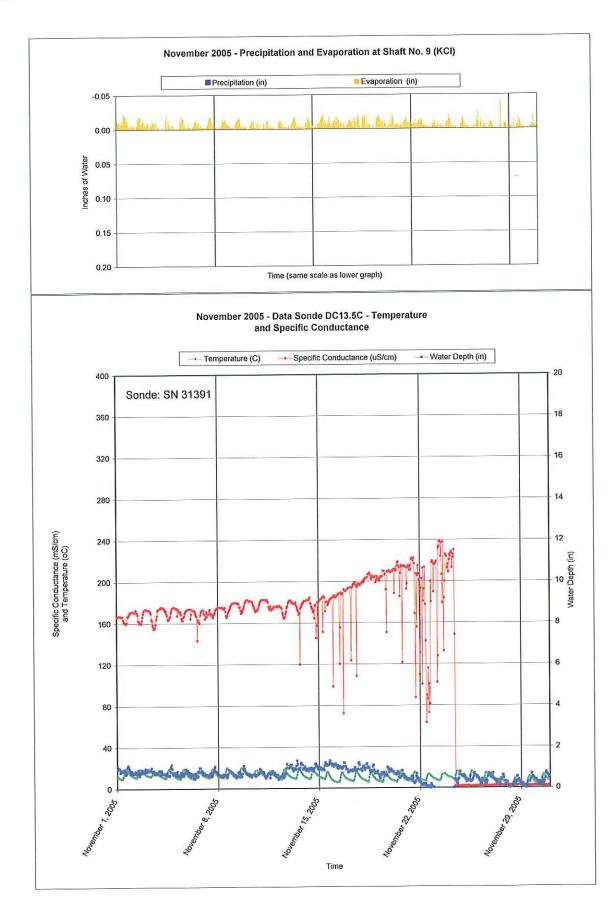


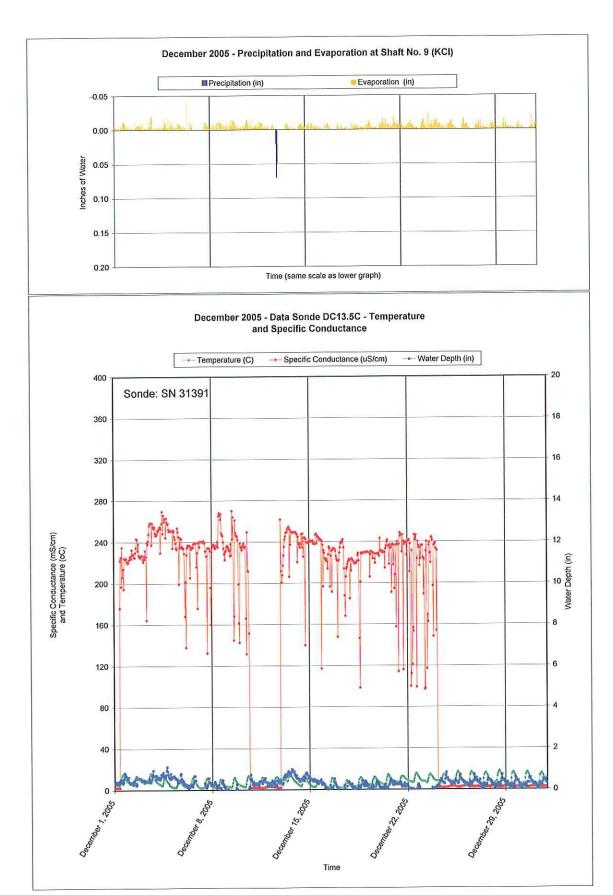


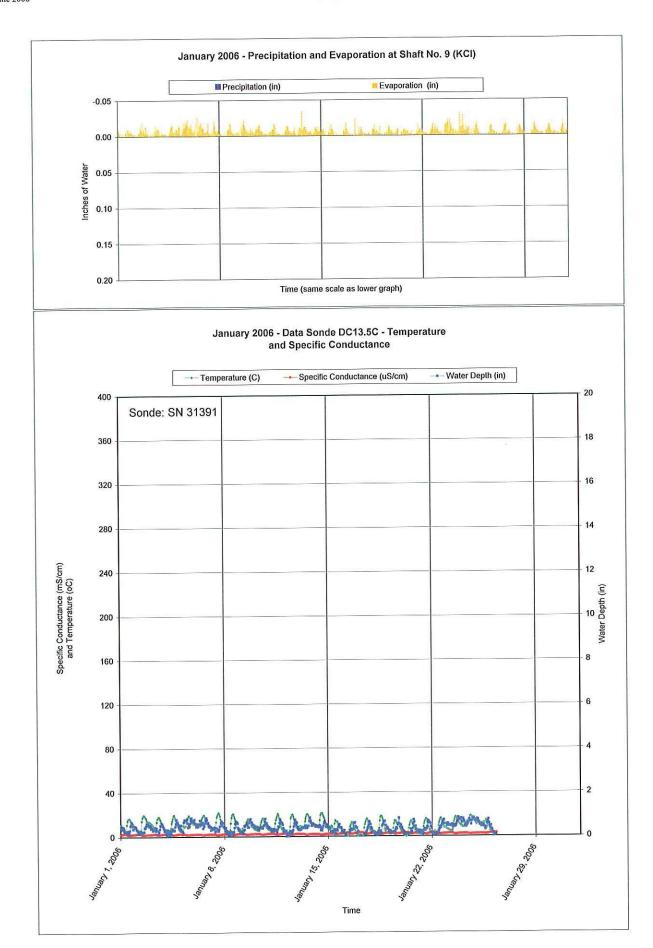
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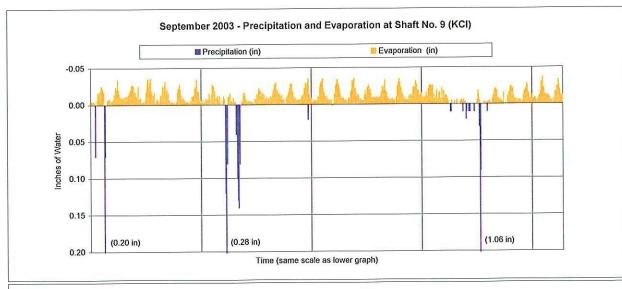


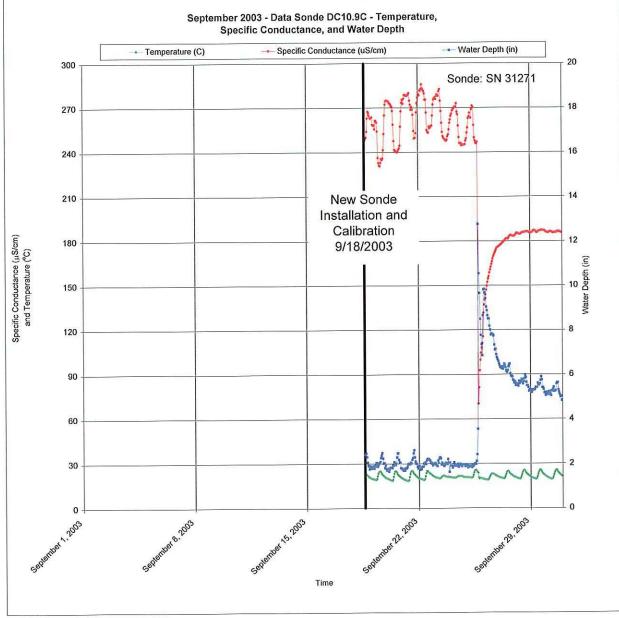


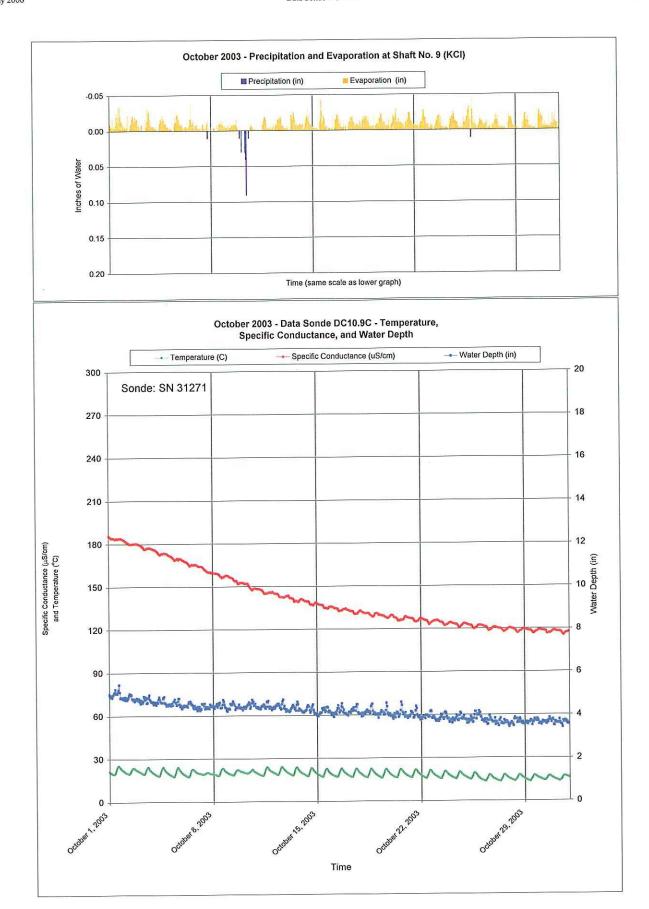


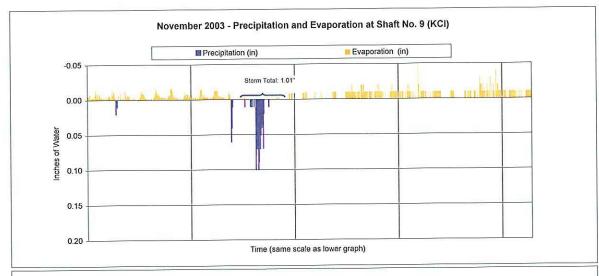


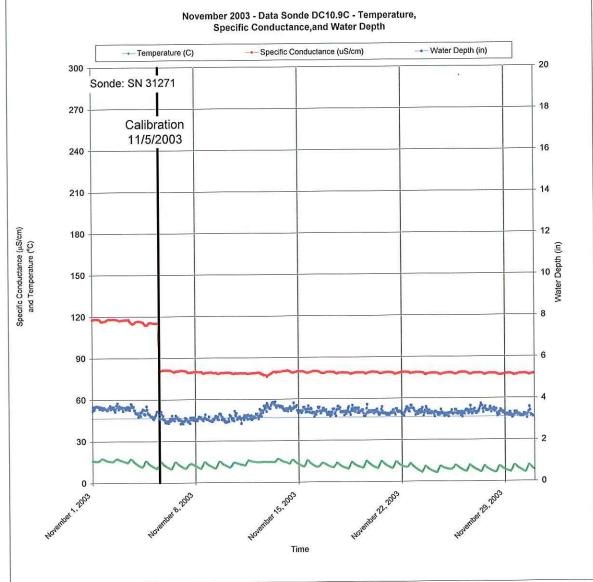
DC 10.9C



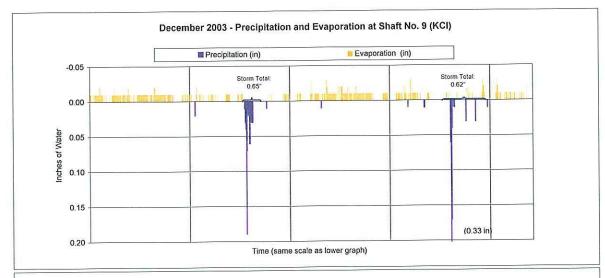


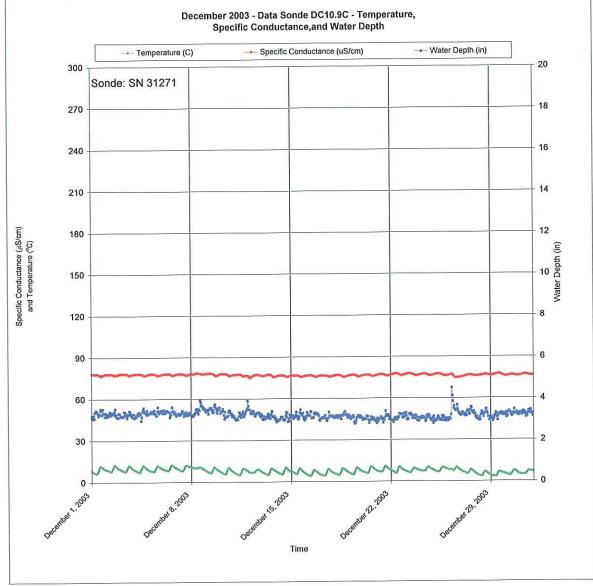


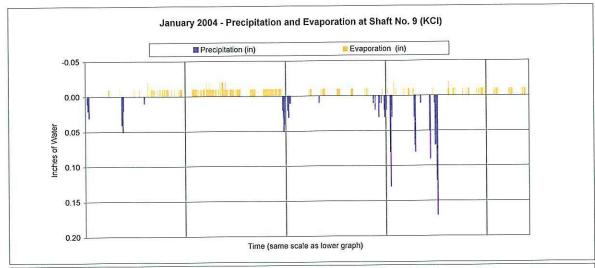


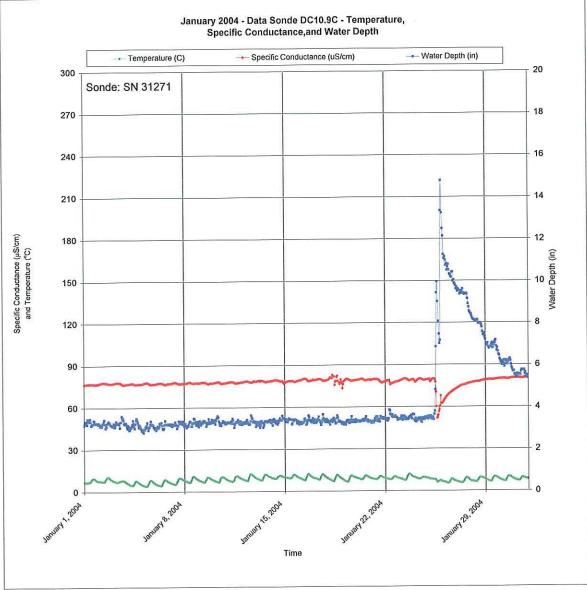


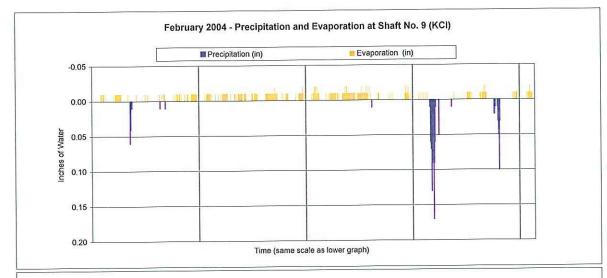
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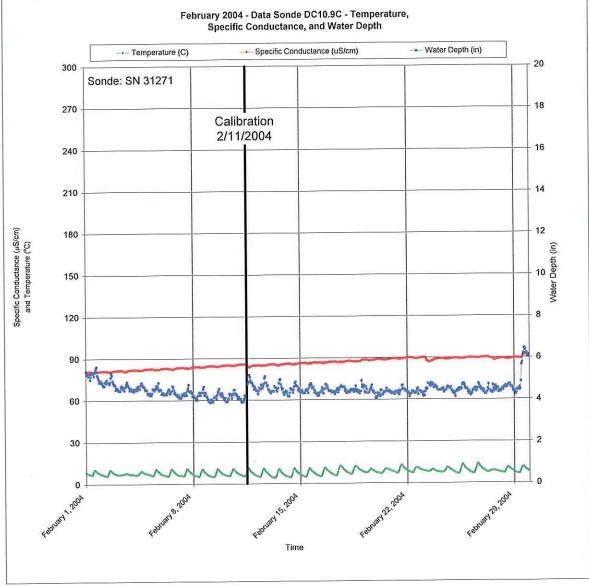


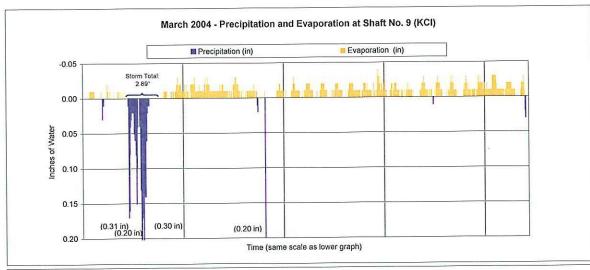


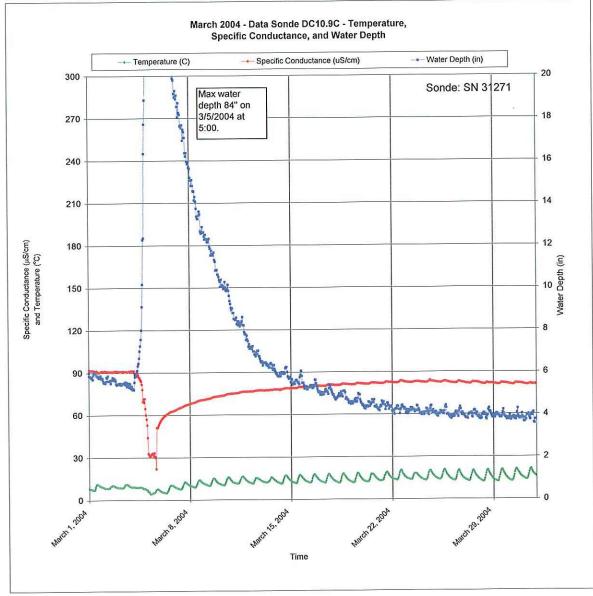


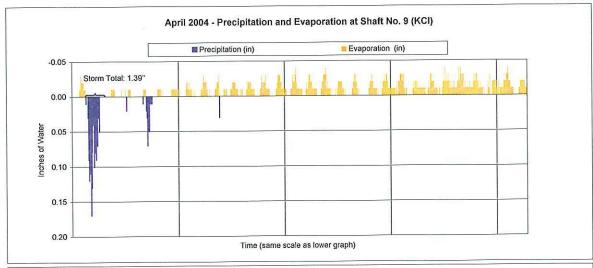


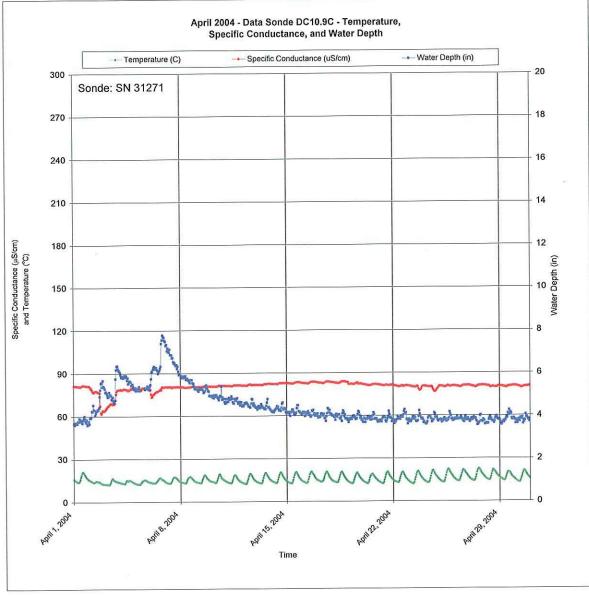


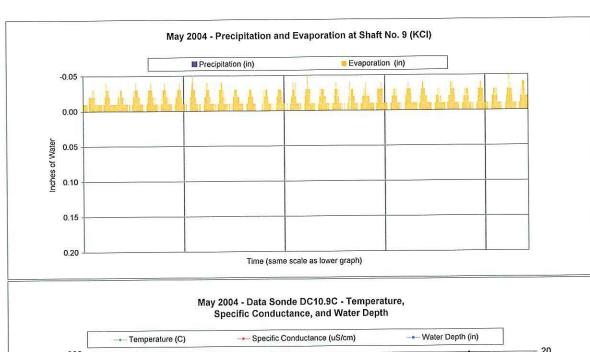


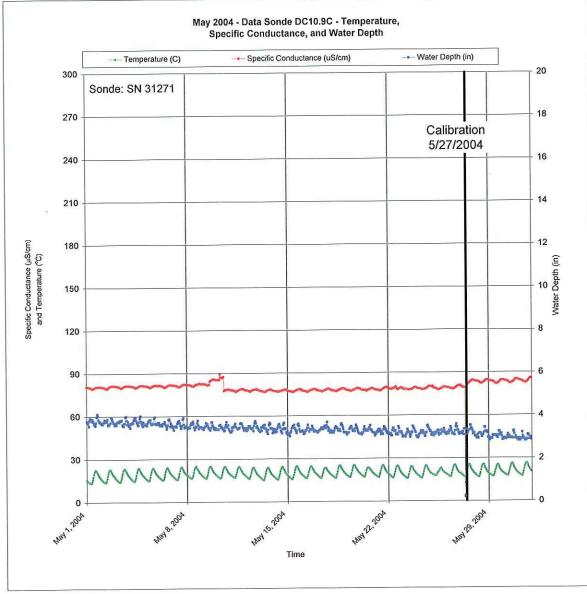


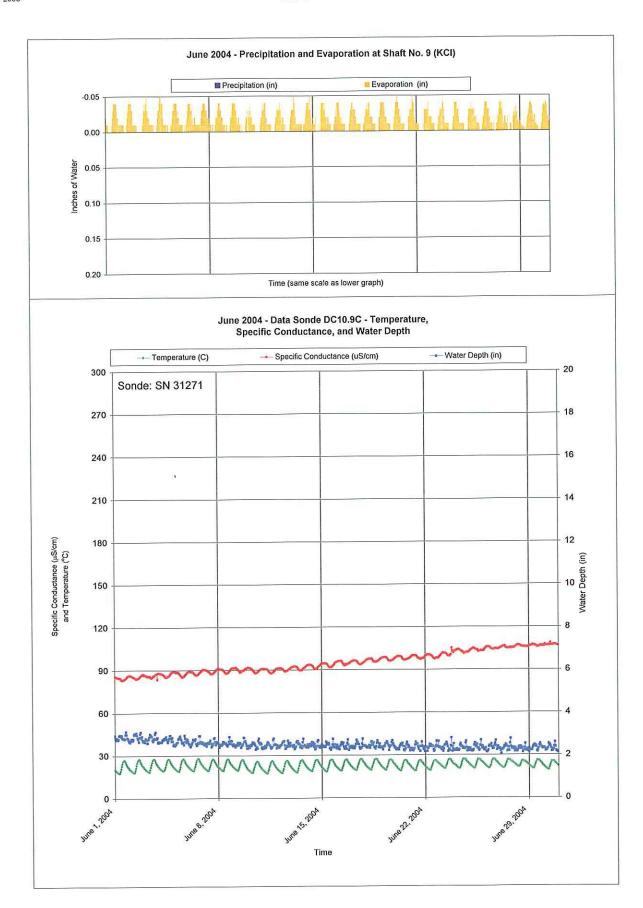


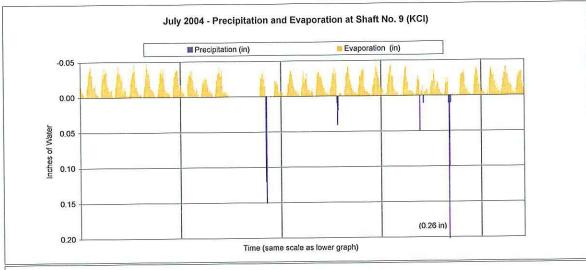


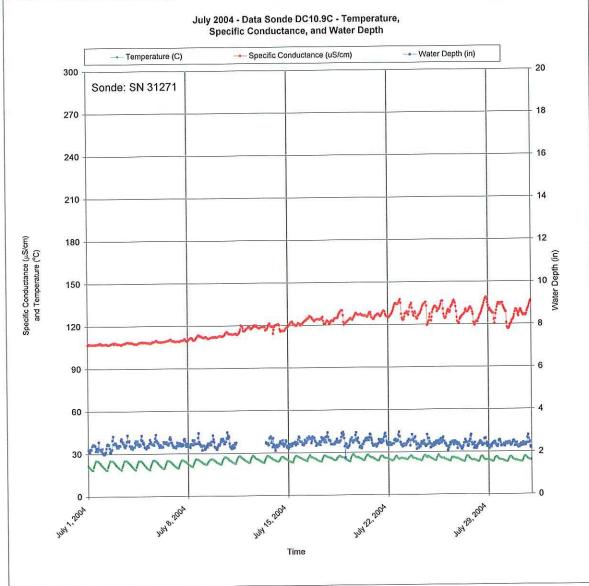


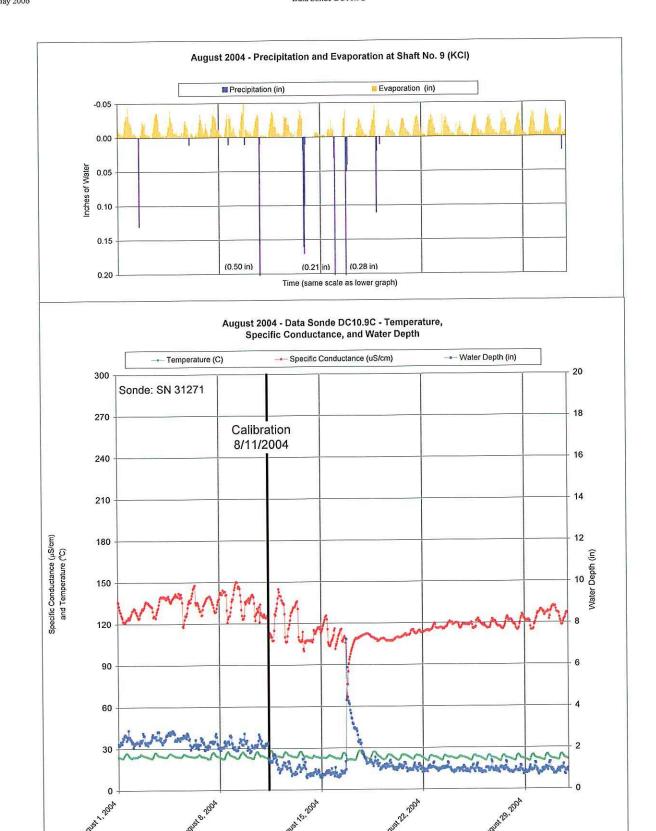




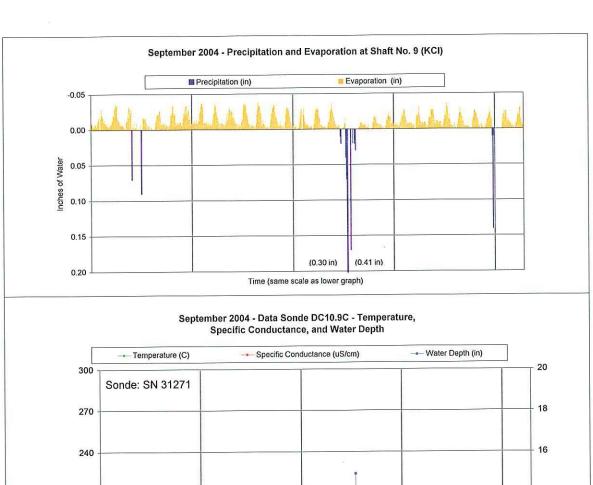


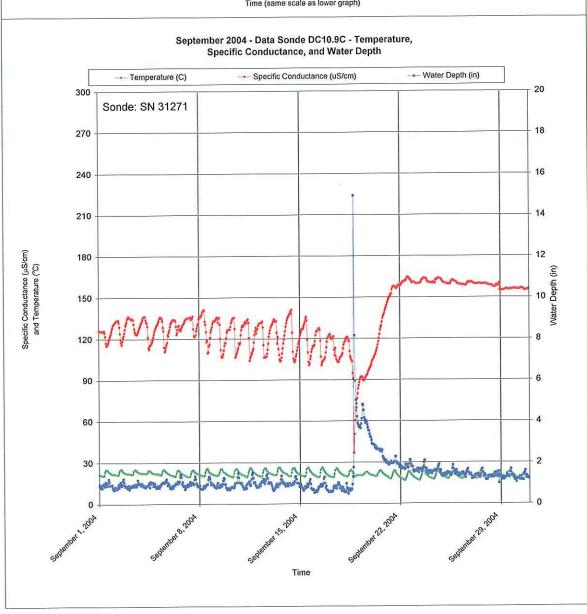


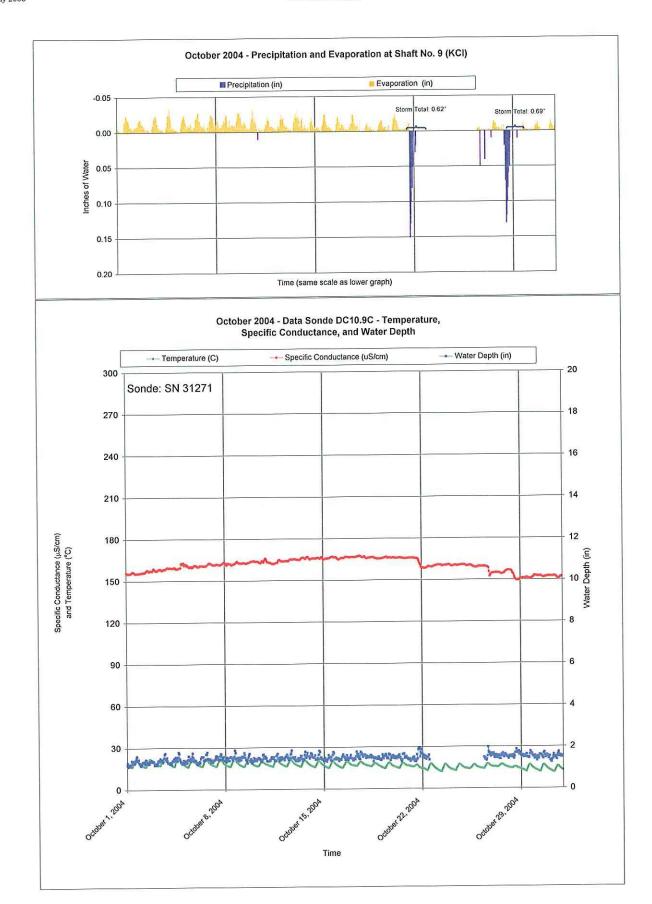


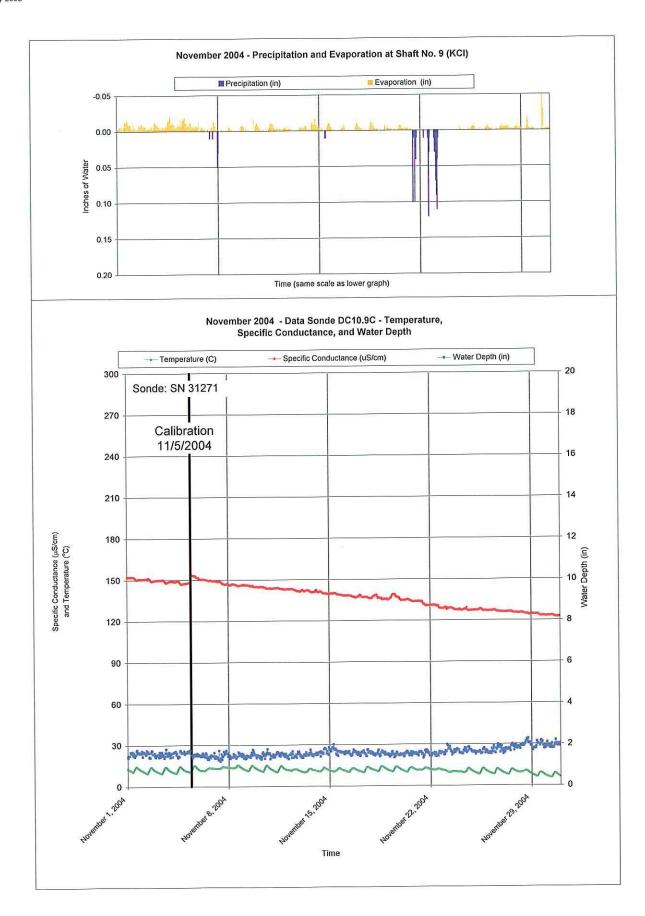


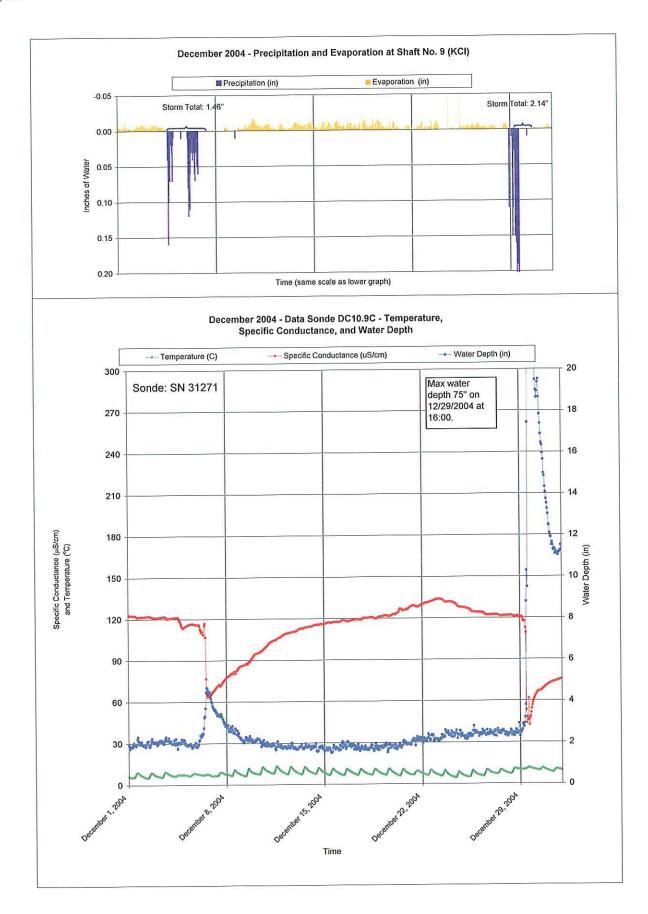
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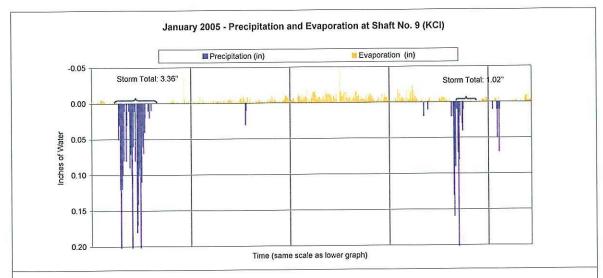


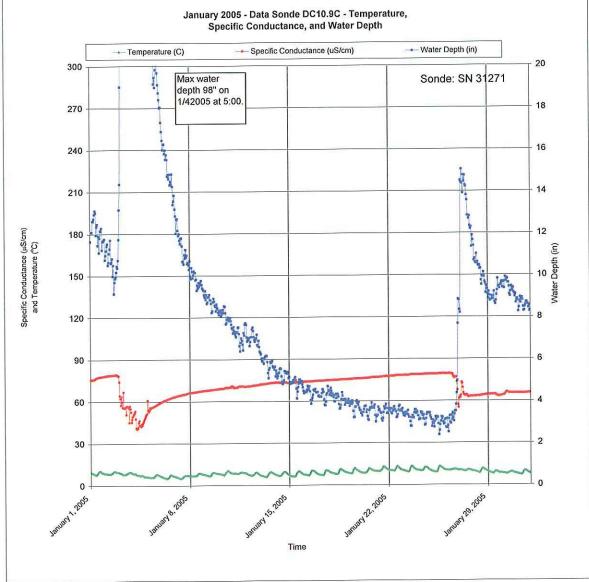


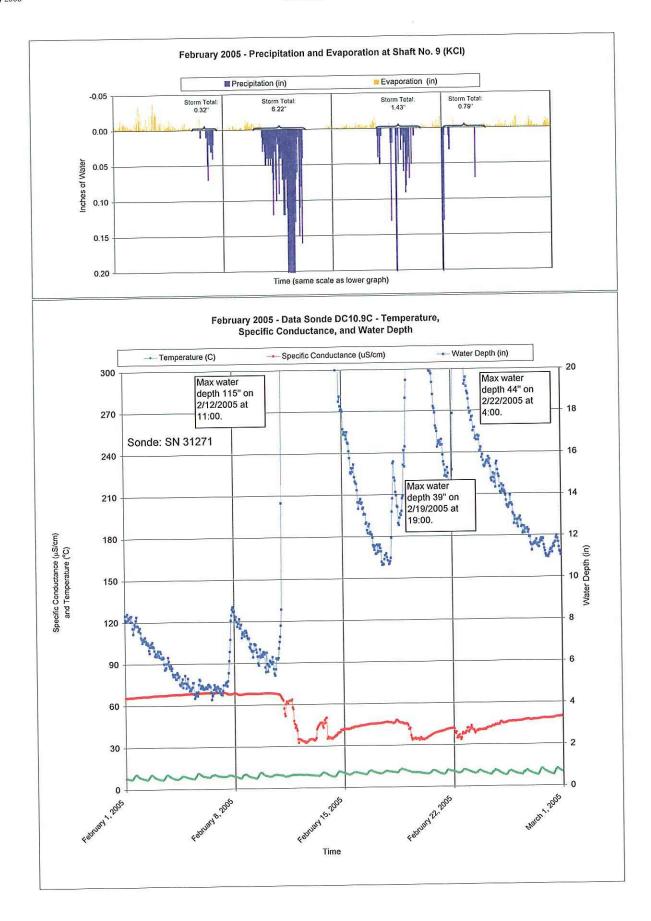


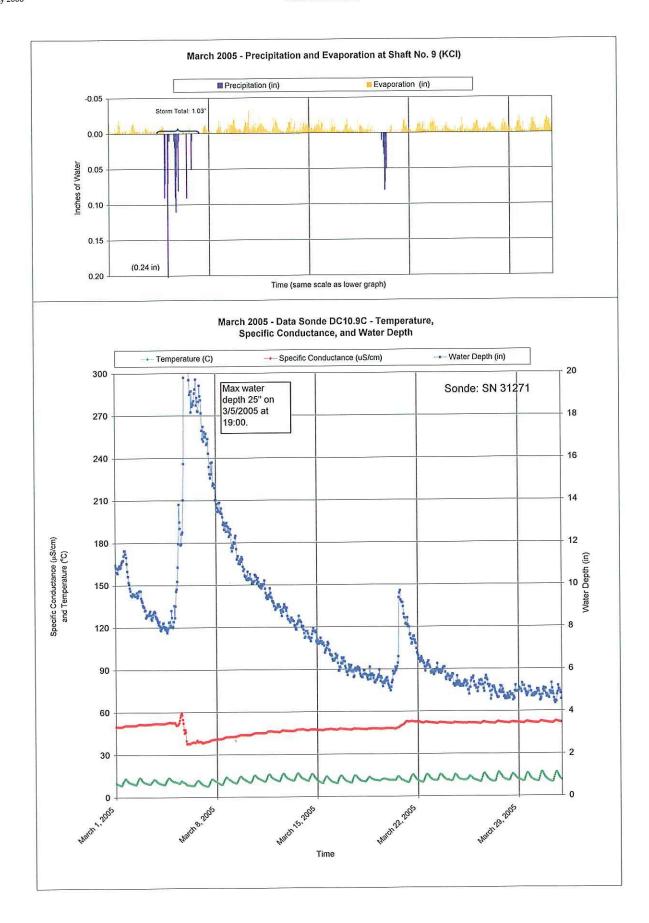




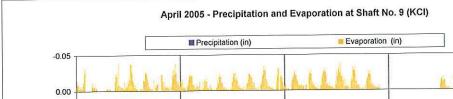


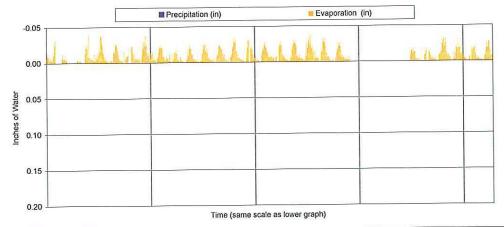




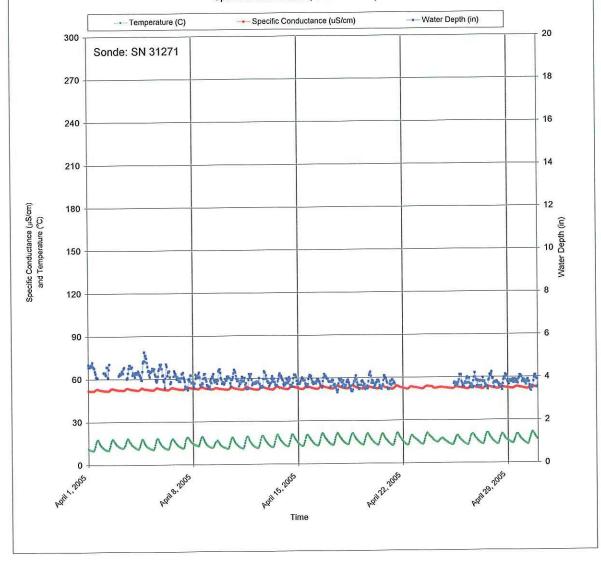


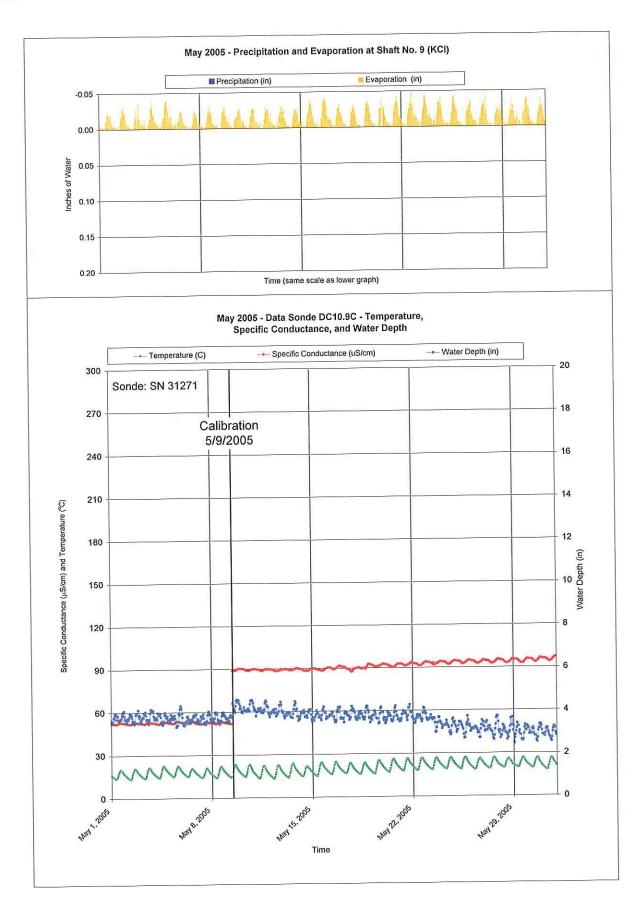
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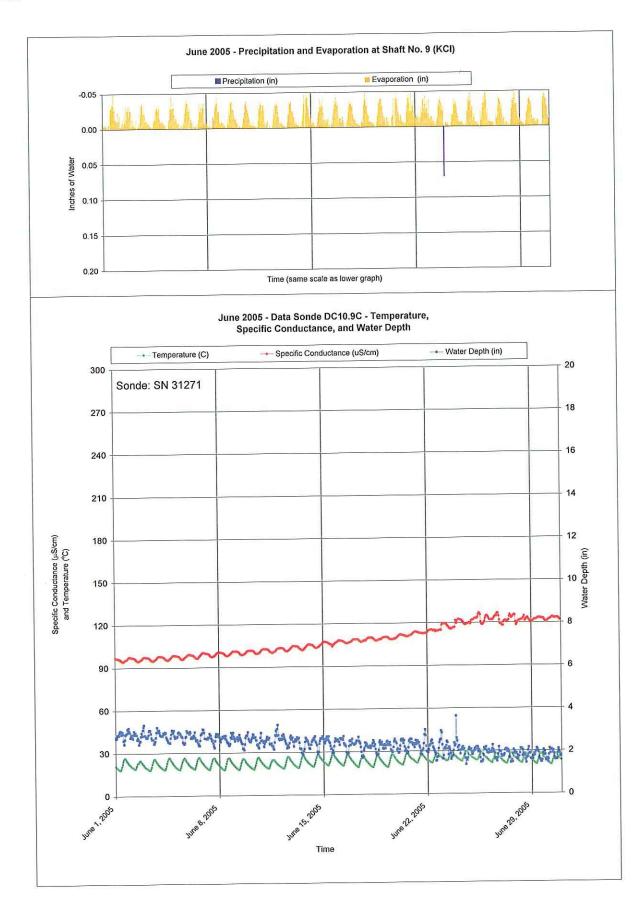


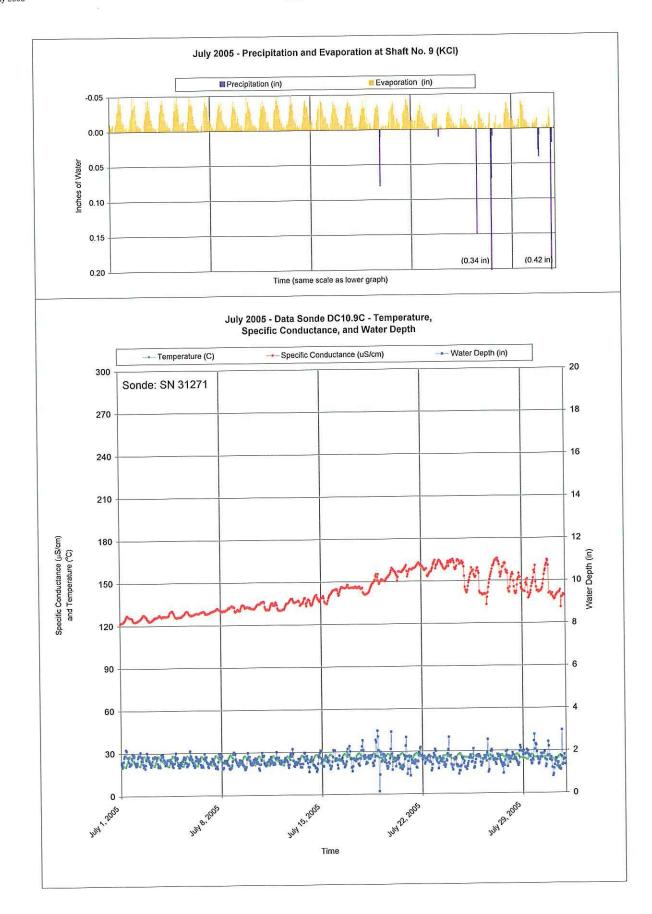


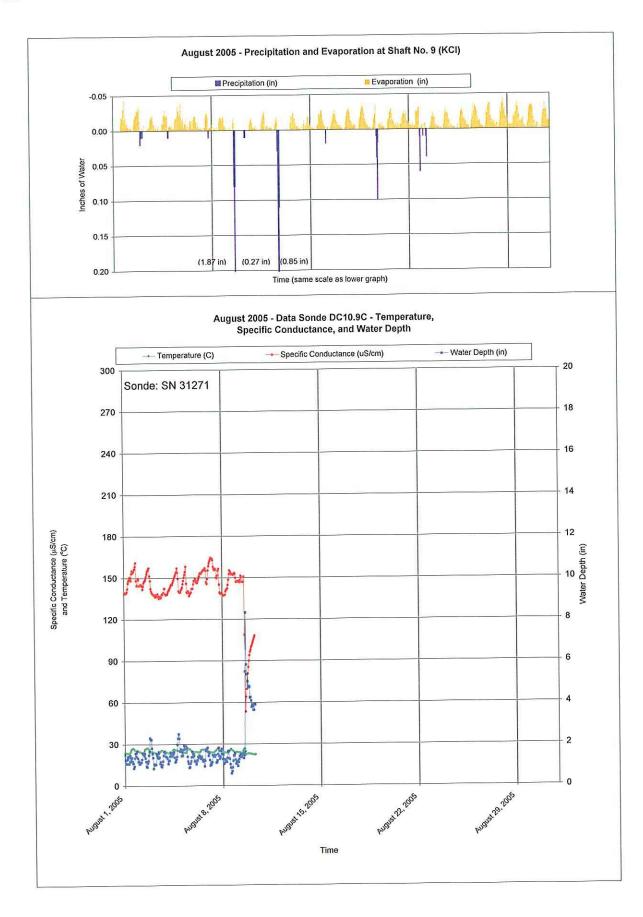
## April 2005 - Data Sonde DC10.9C - Temperature, Specific Conductance, and Water Depth

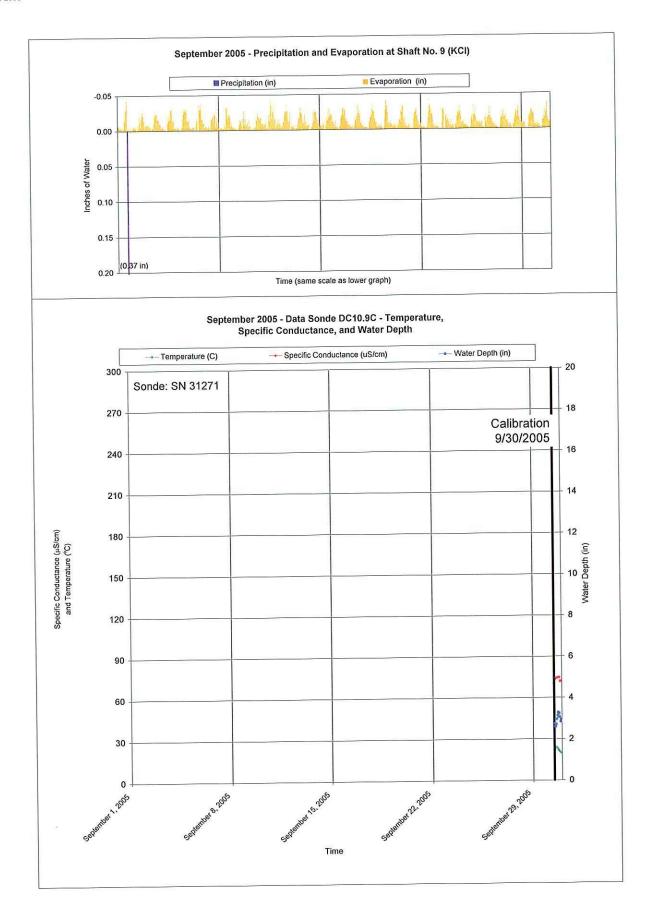


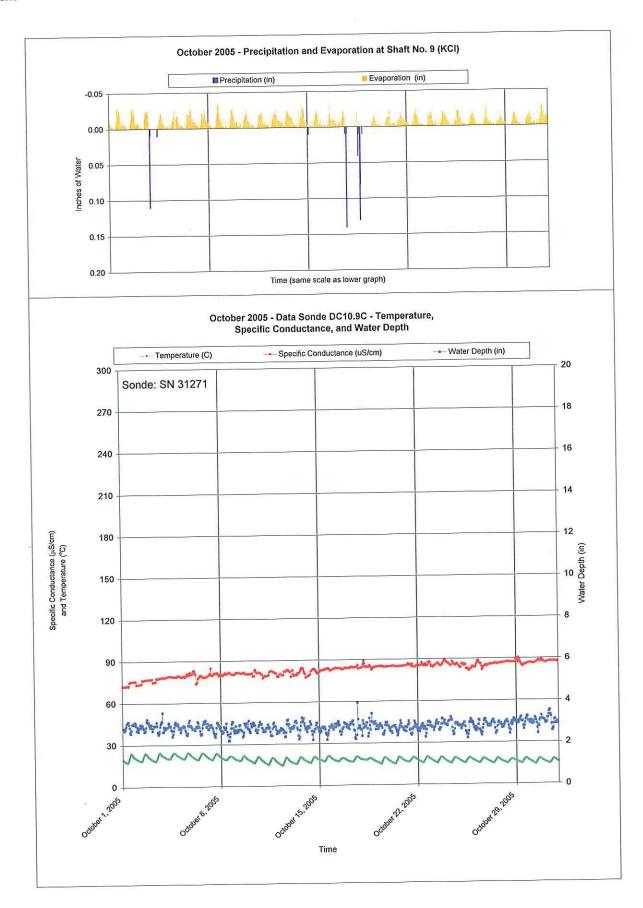


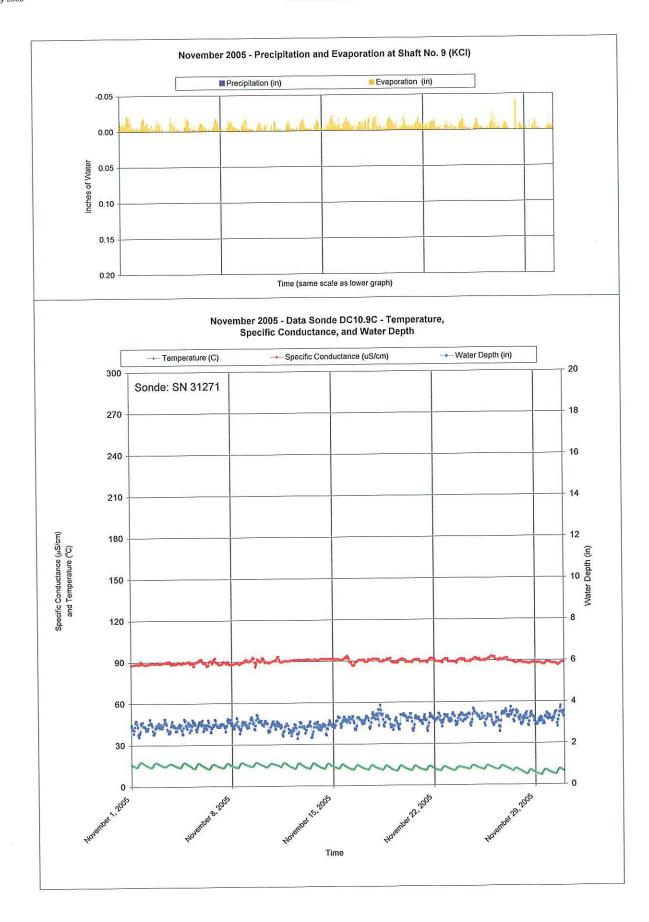


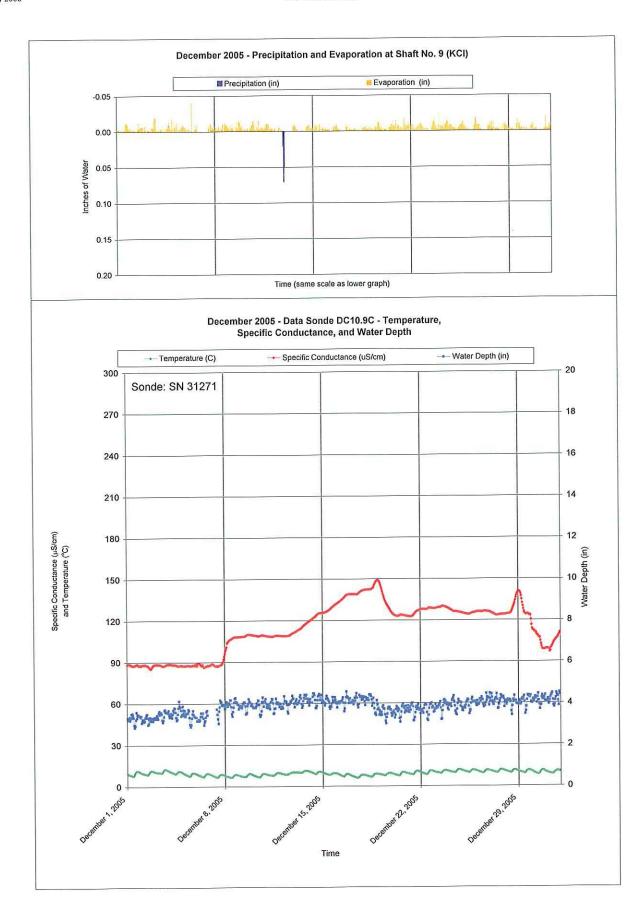


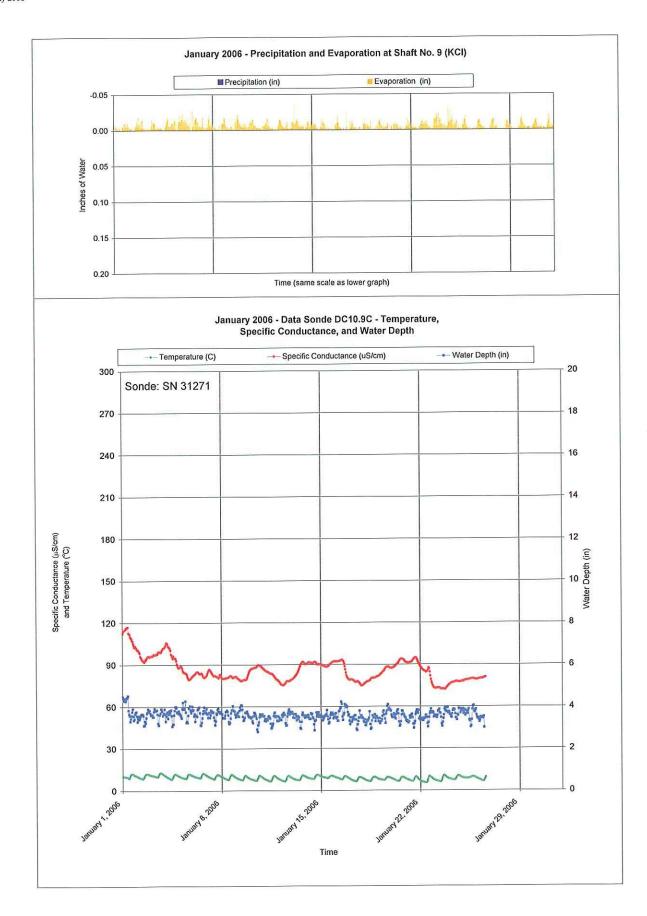




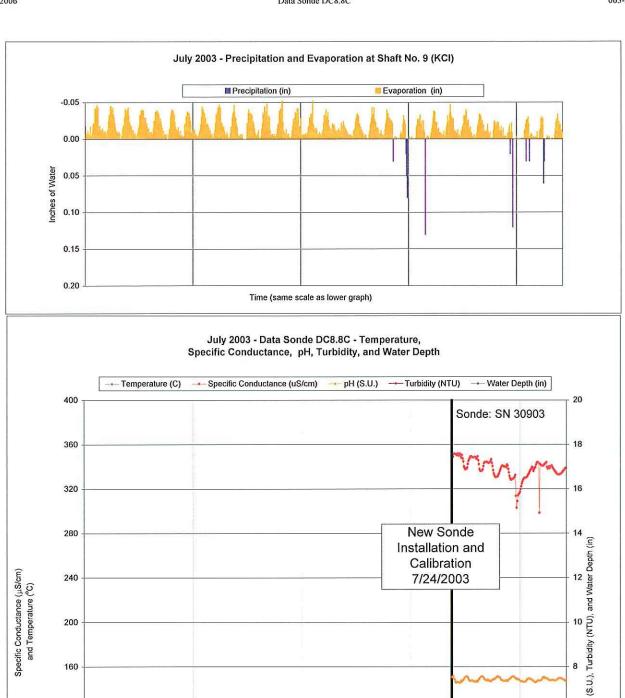








DC 8.8C



Time

F 6

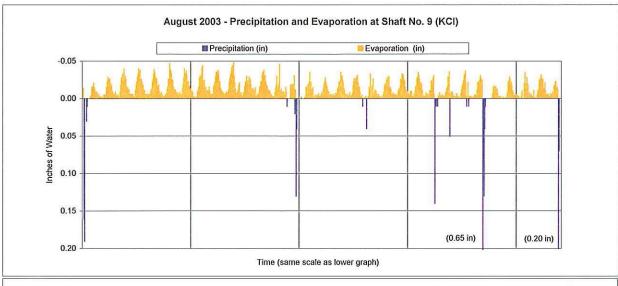
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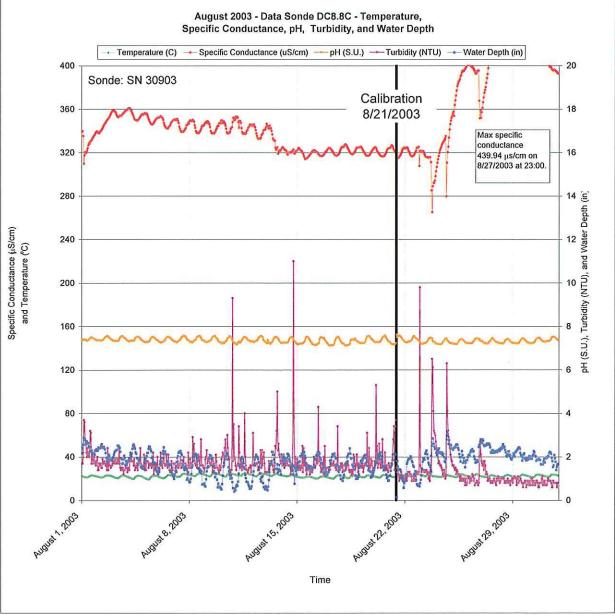
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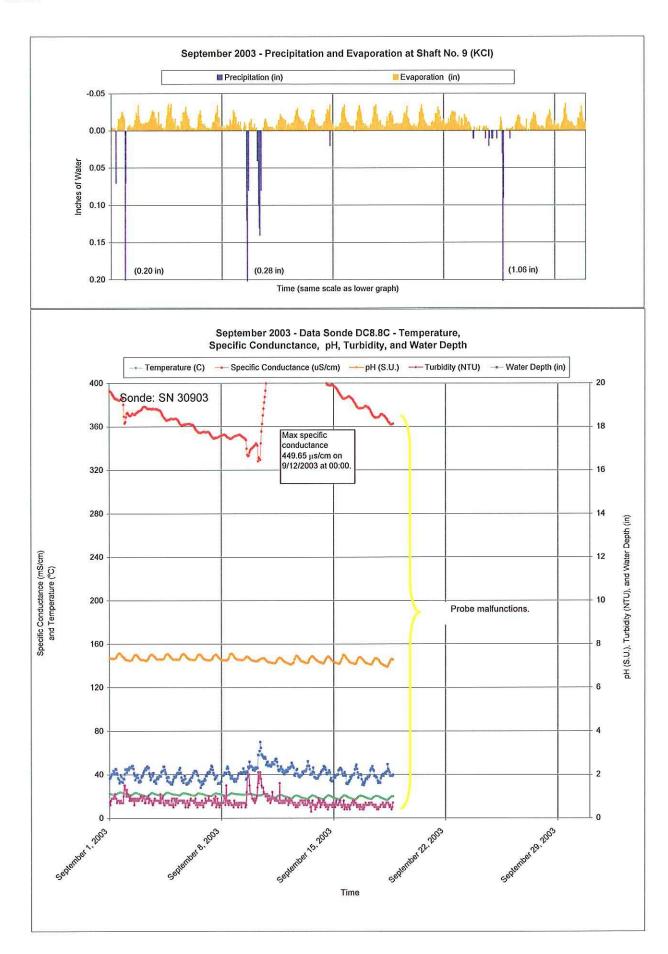
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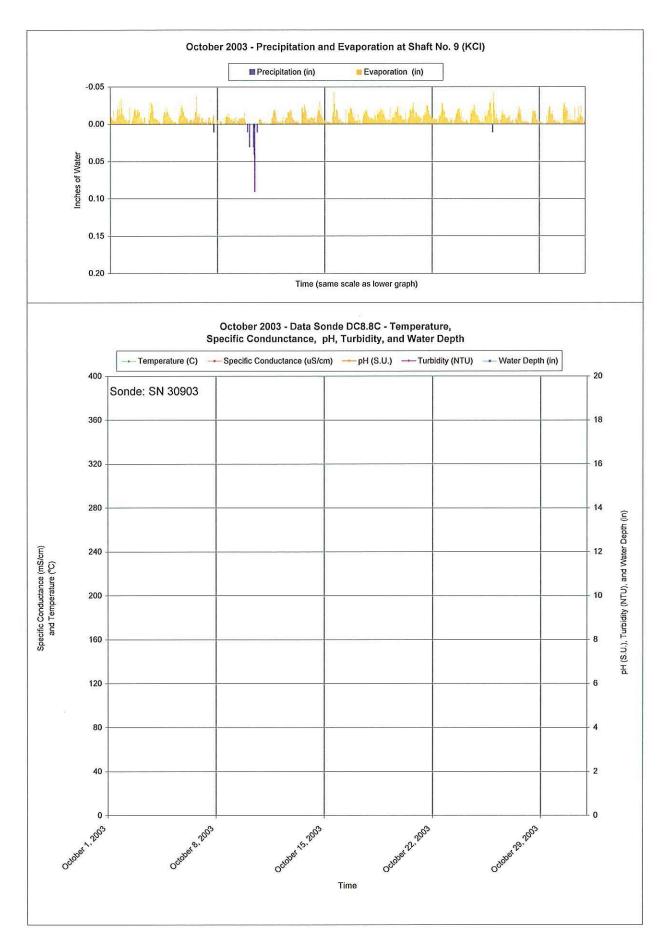
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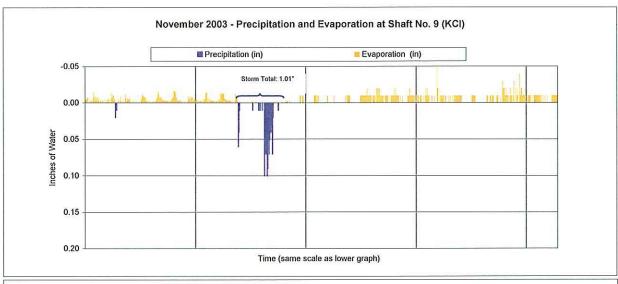
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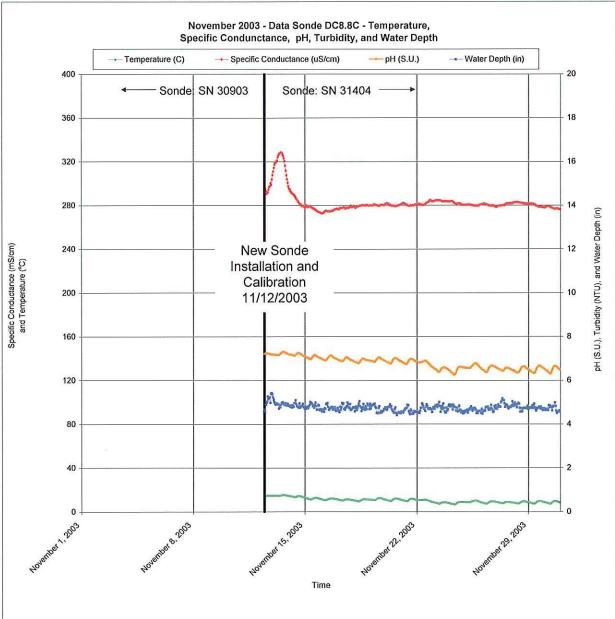


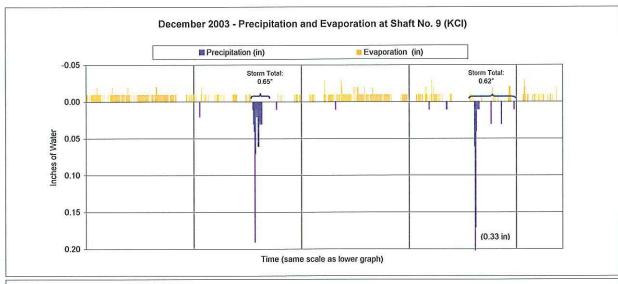


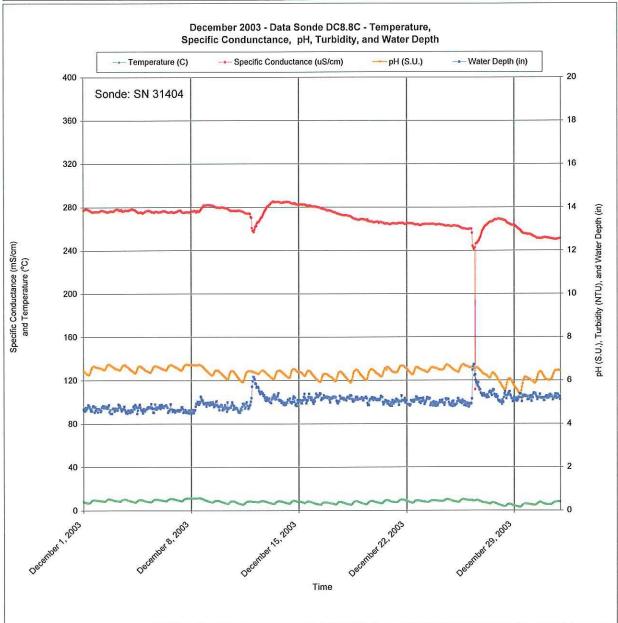


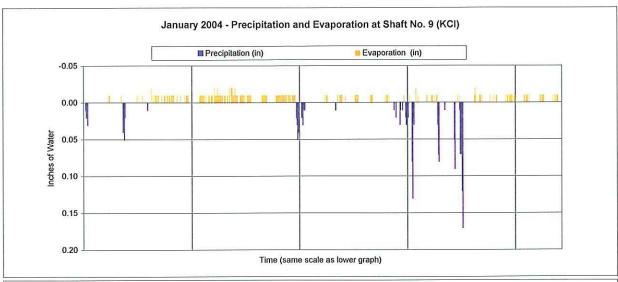


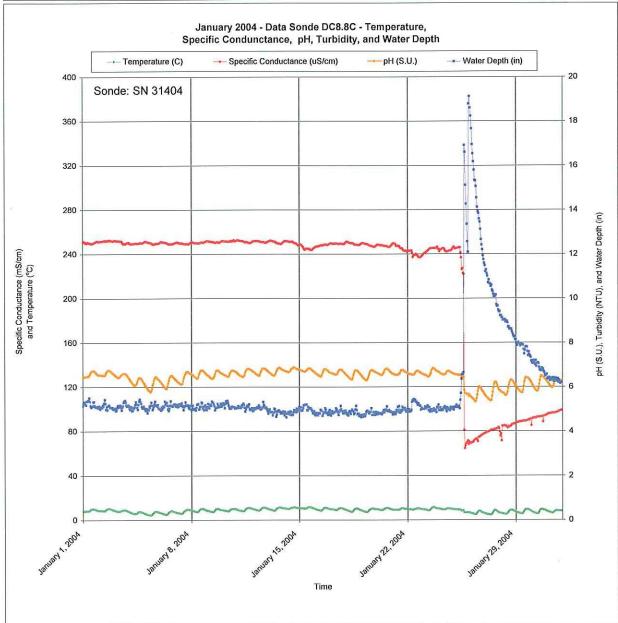


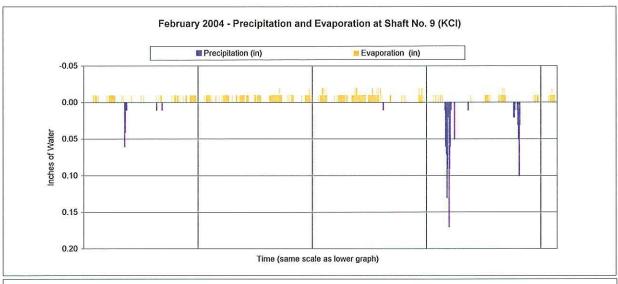


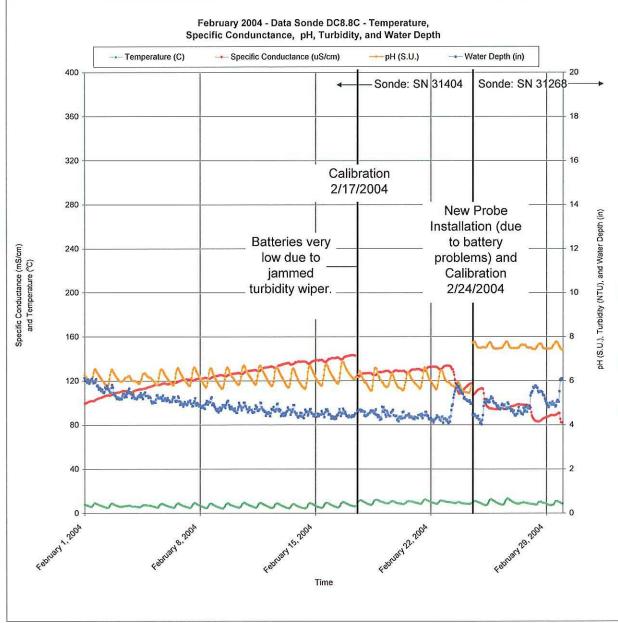


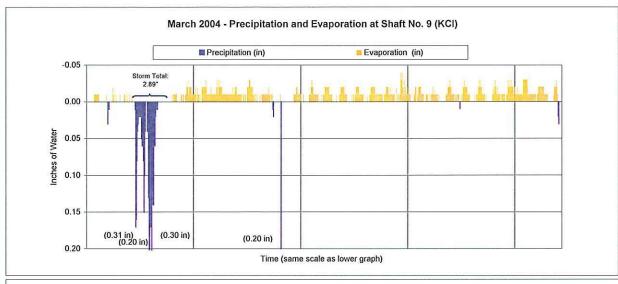


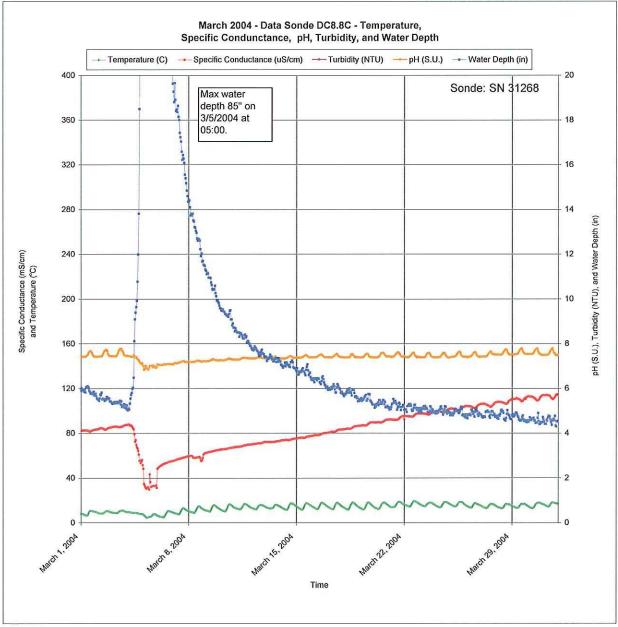


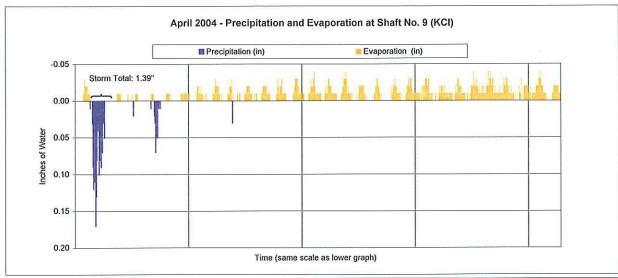


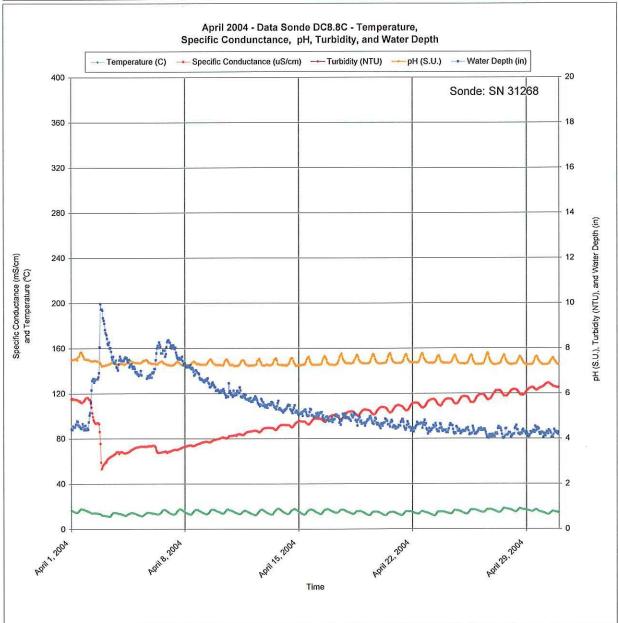


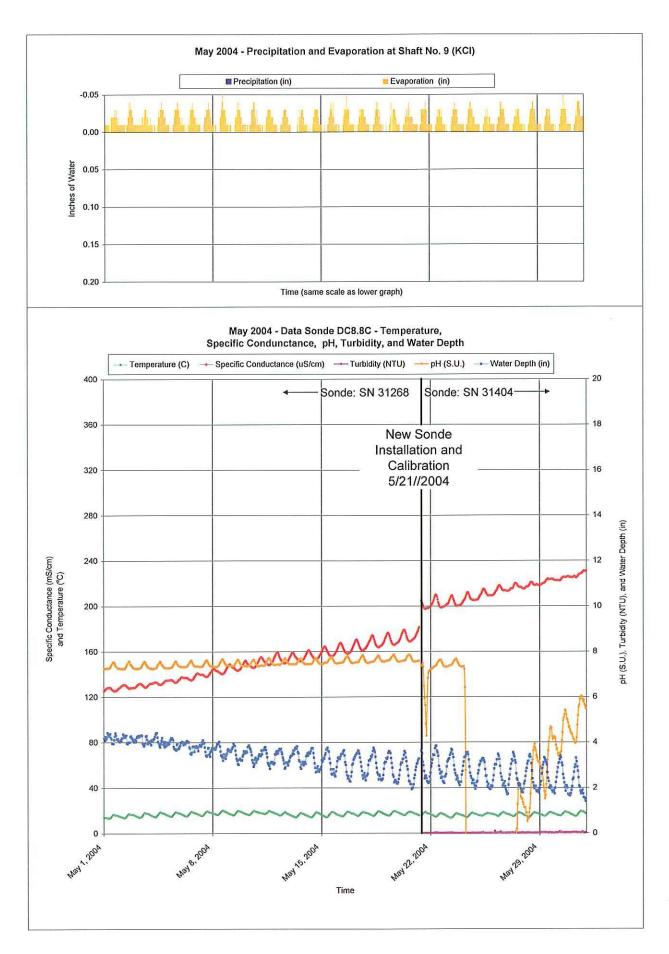


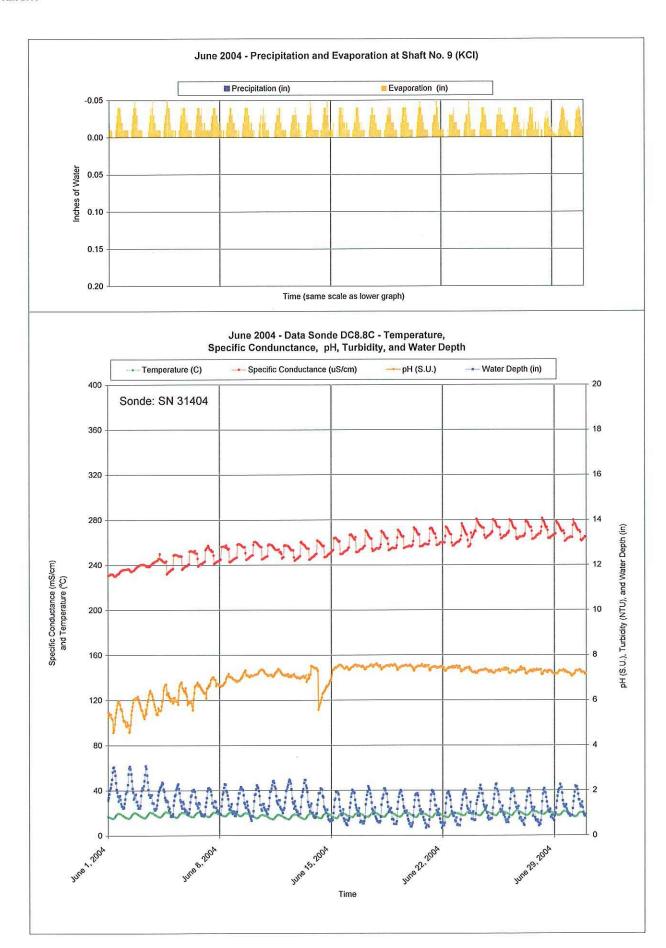


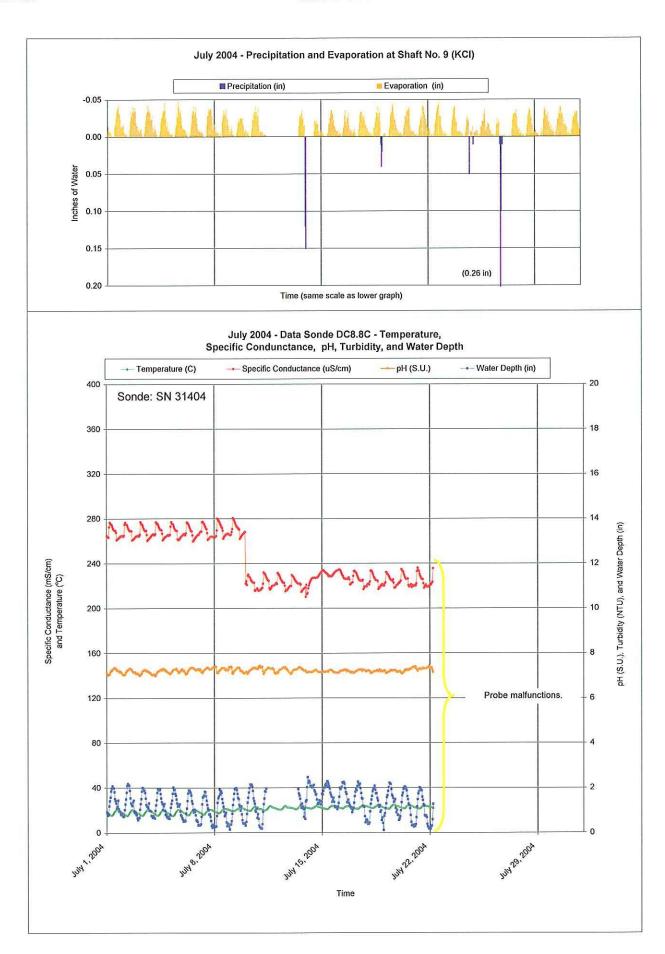


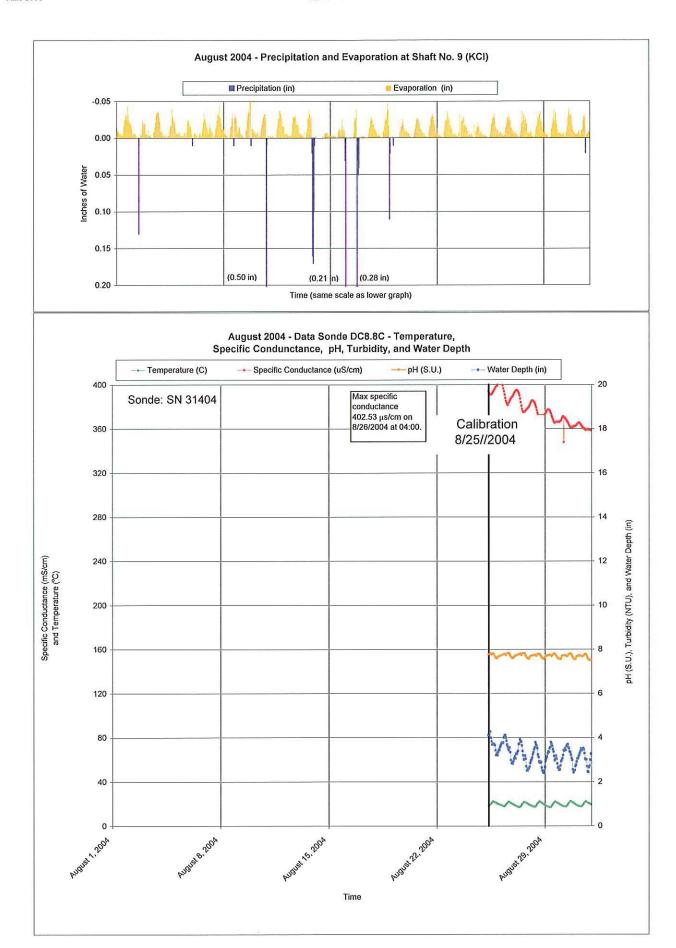


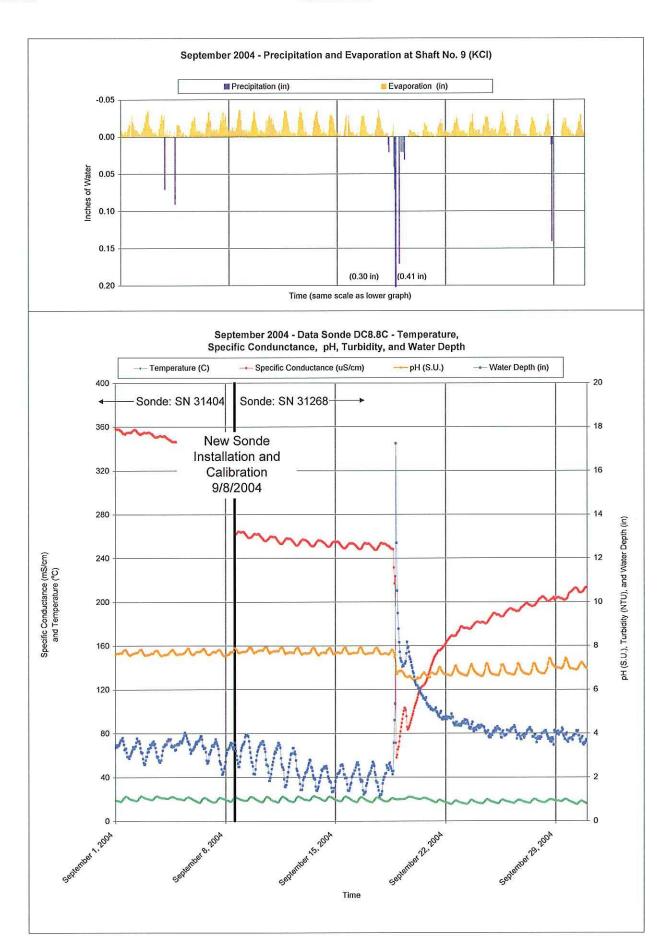


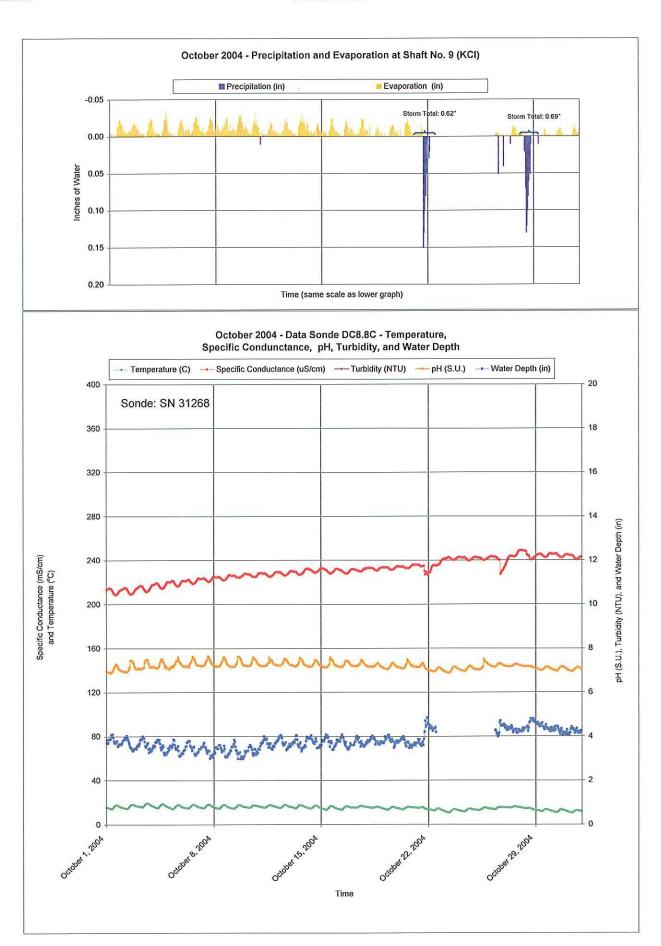


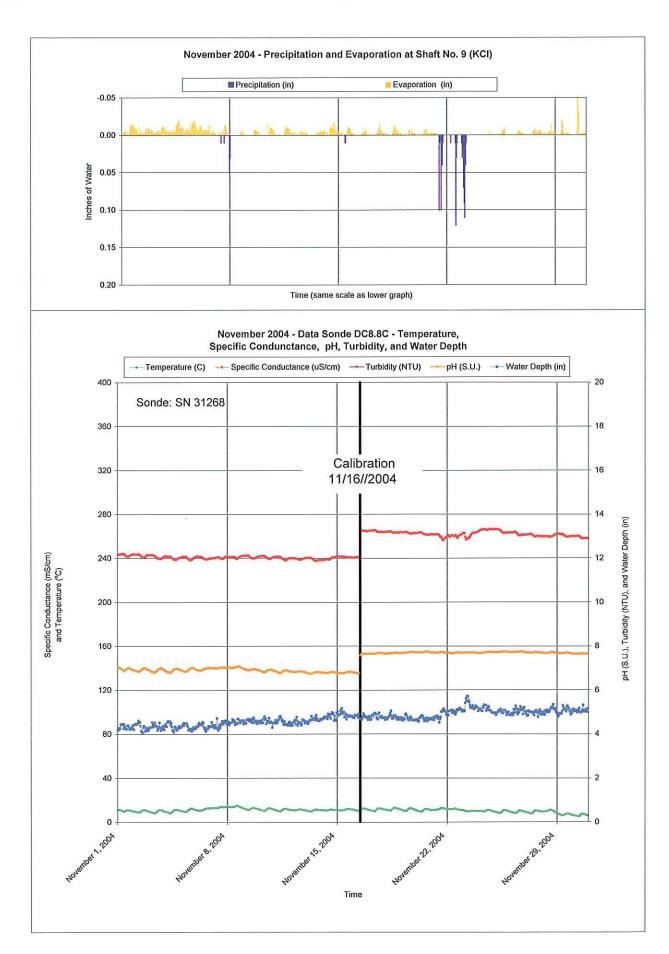


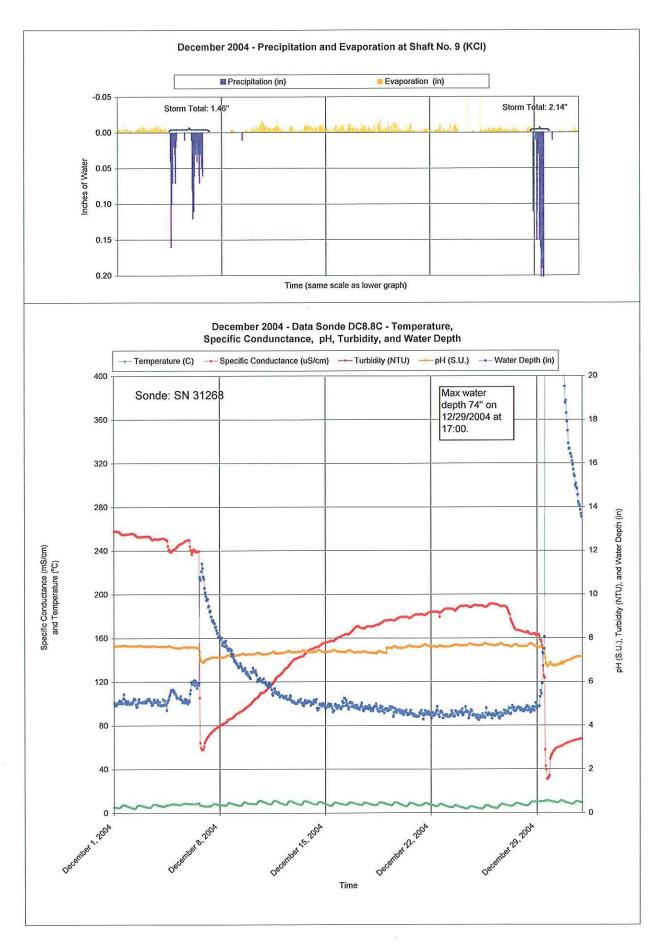


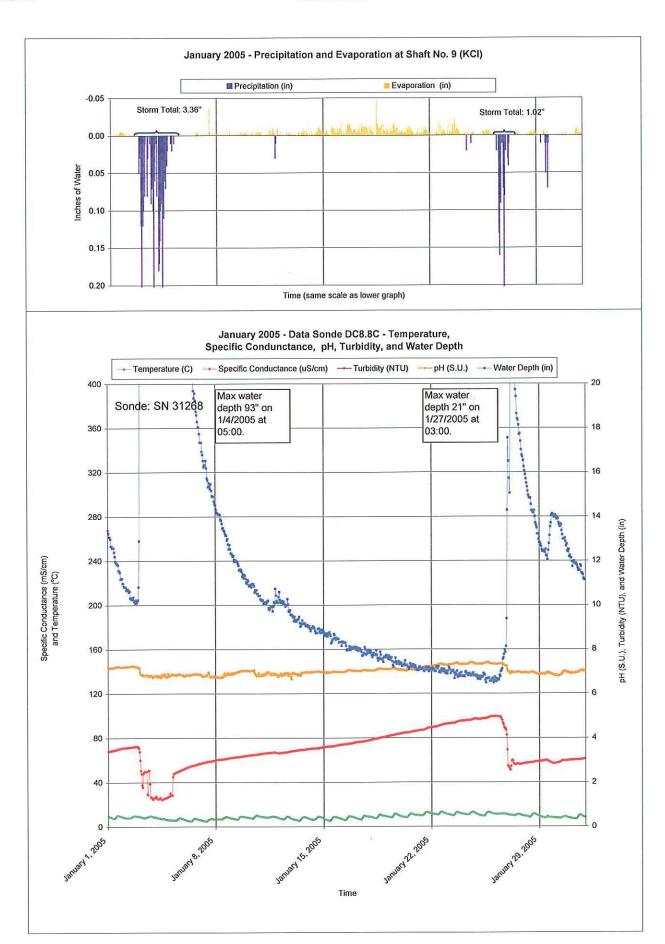


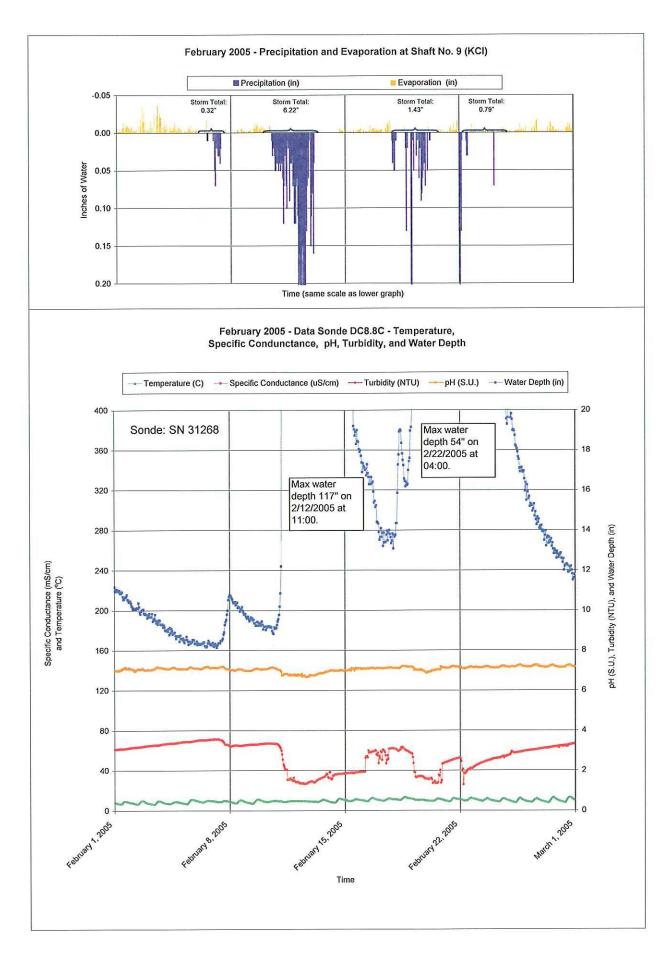


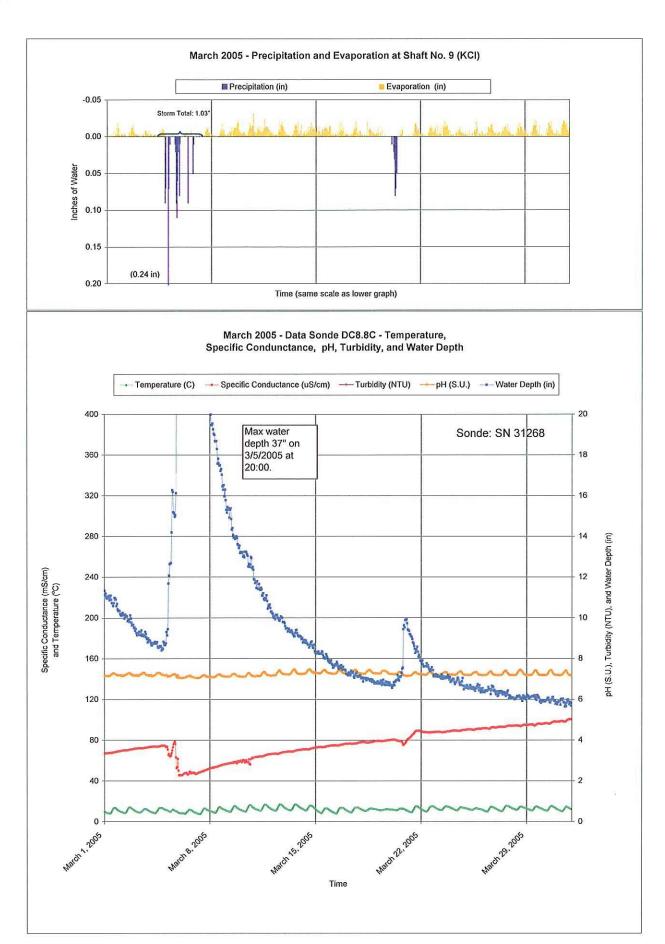


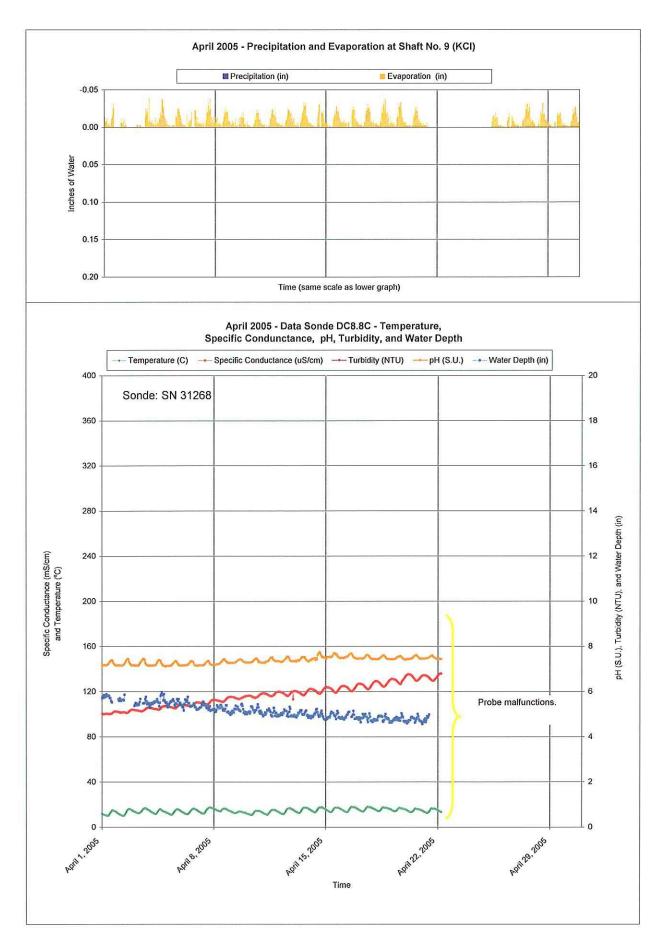


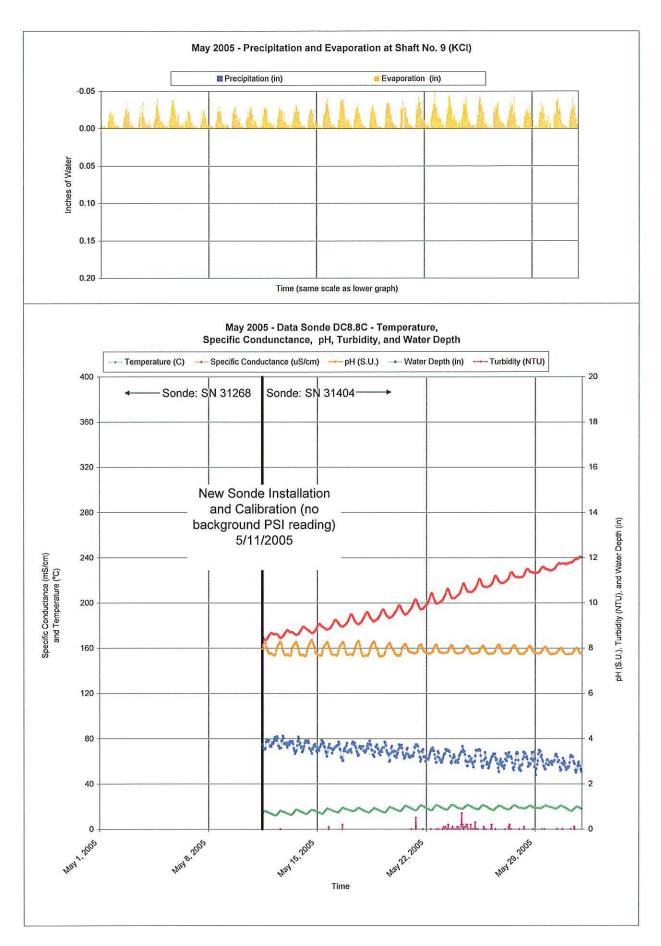


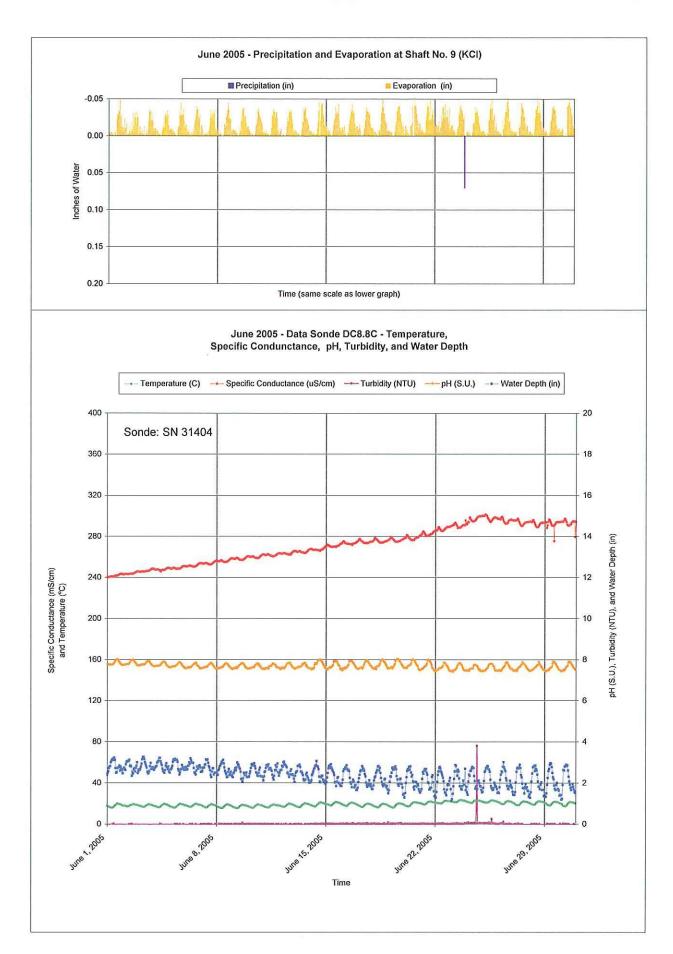


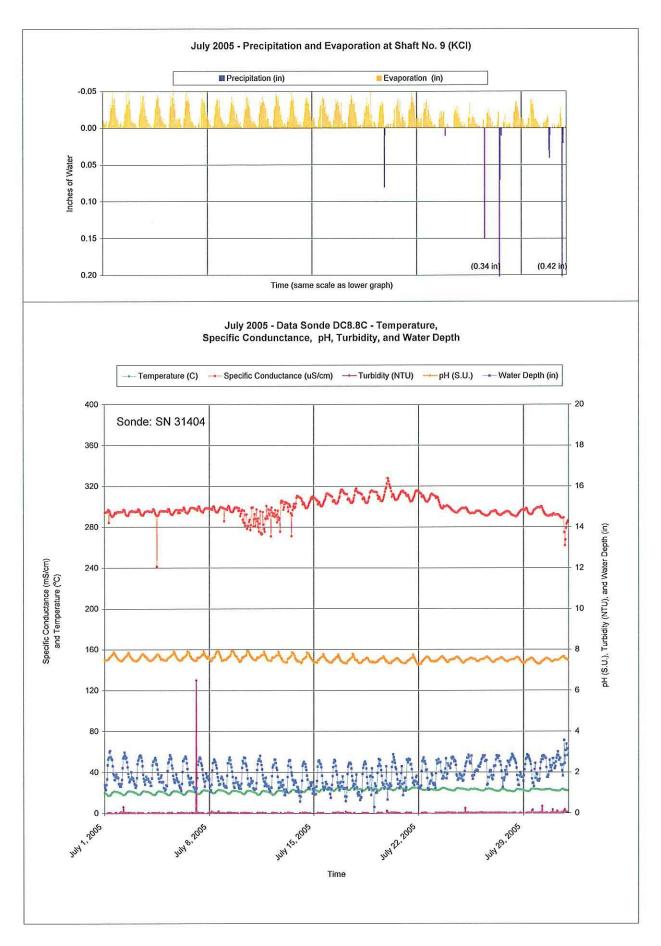


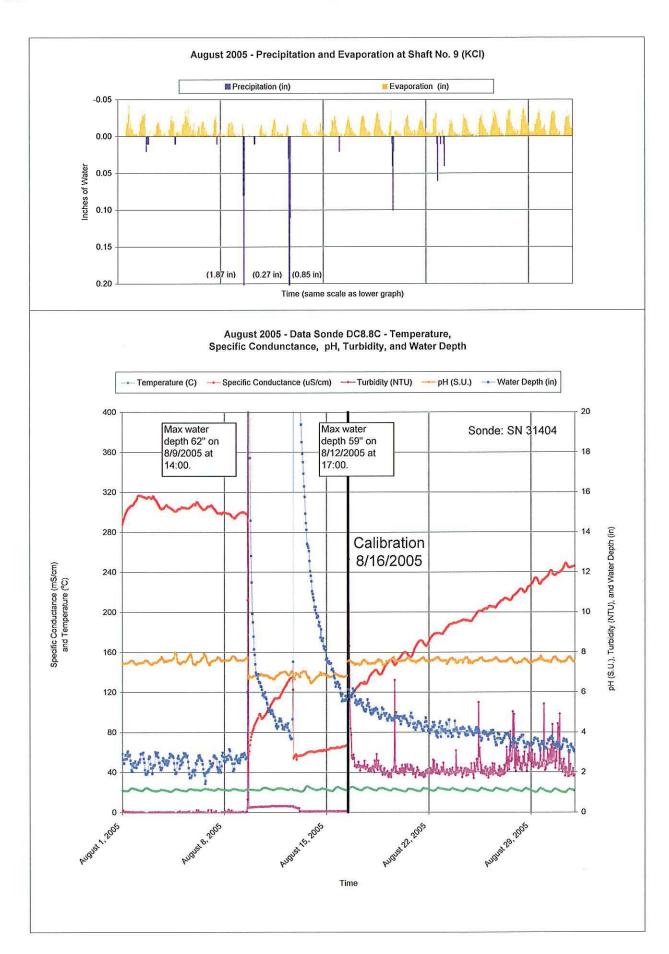


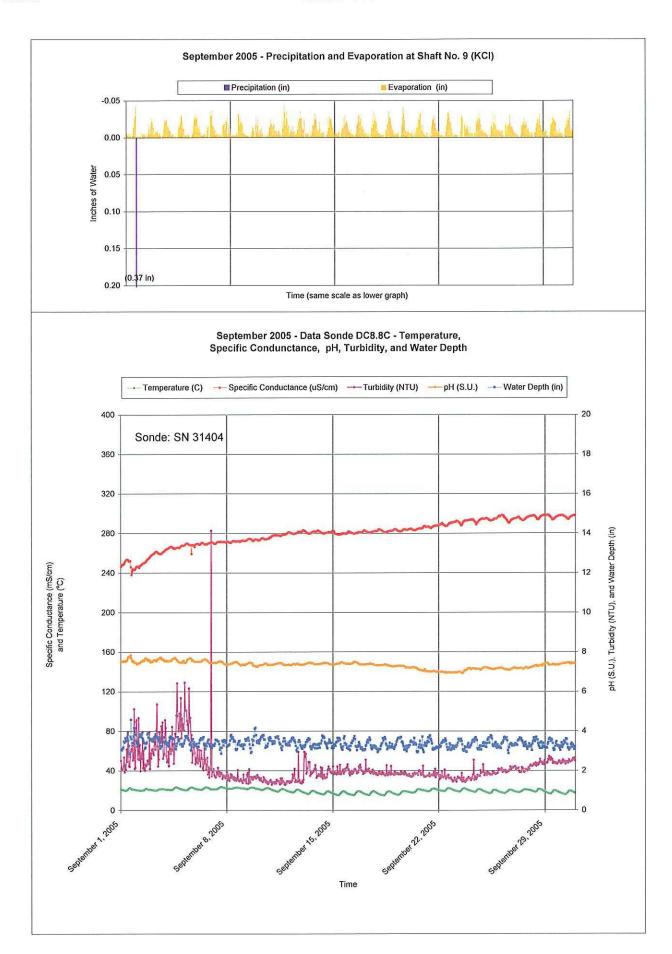


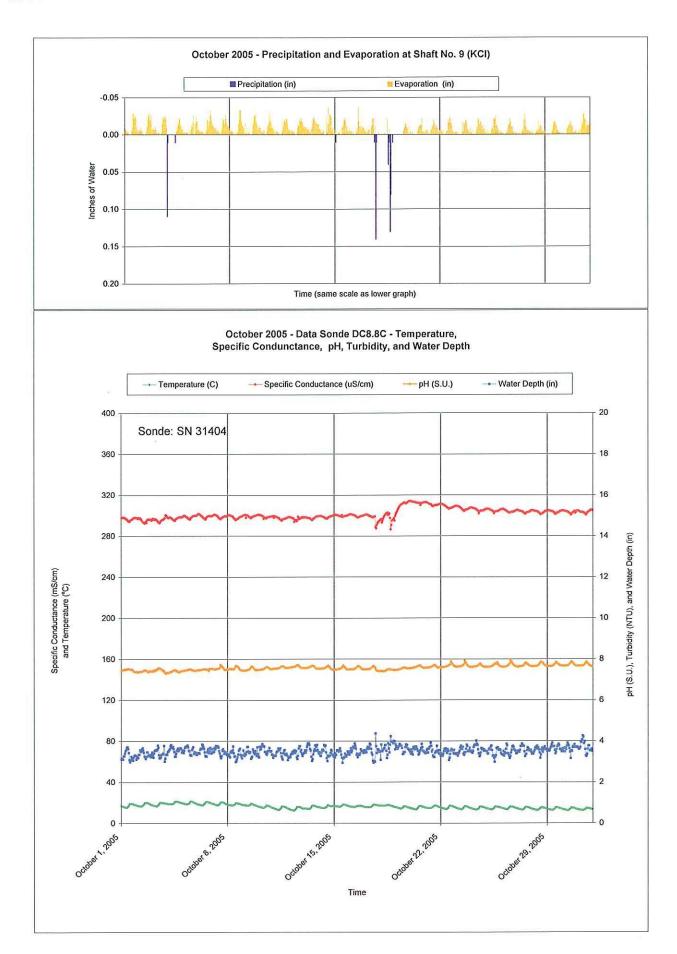


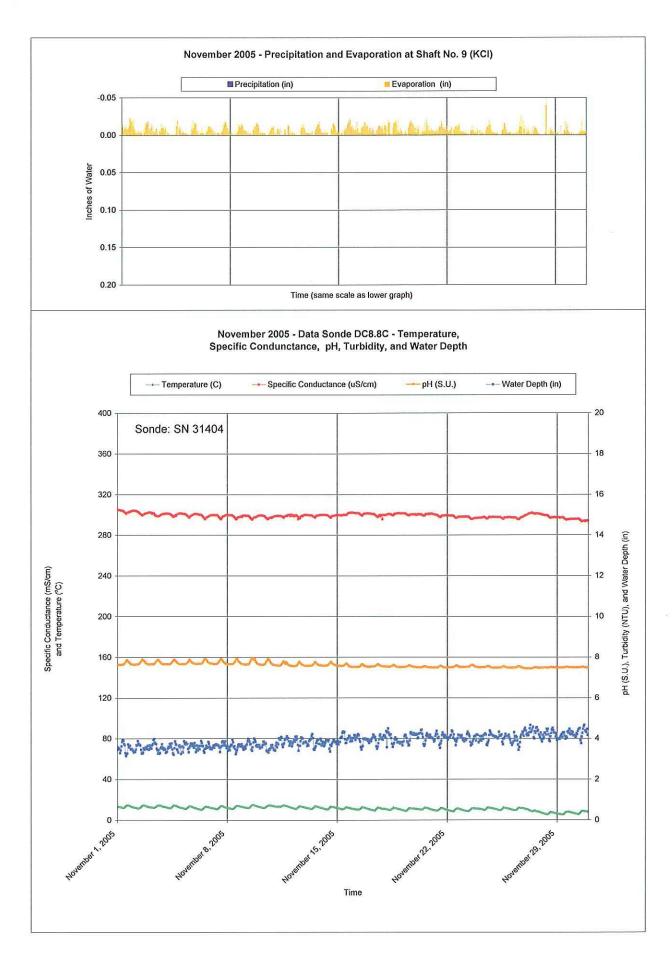


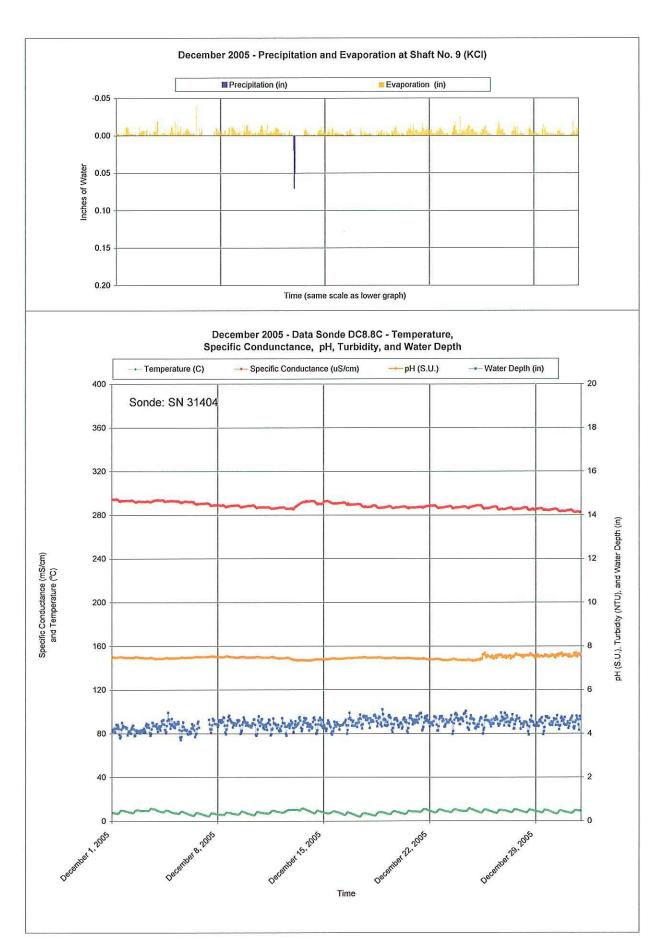


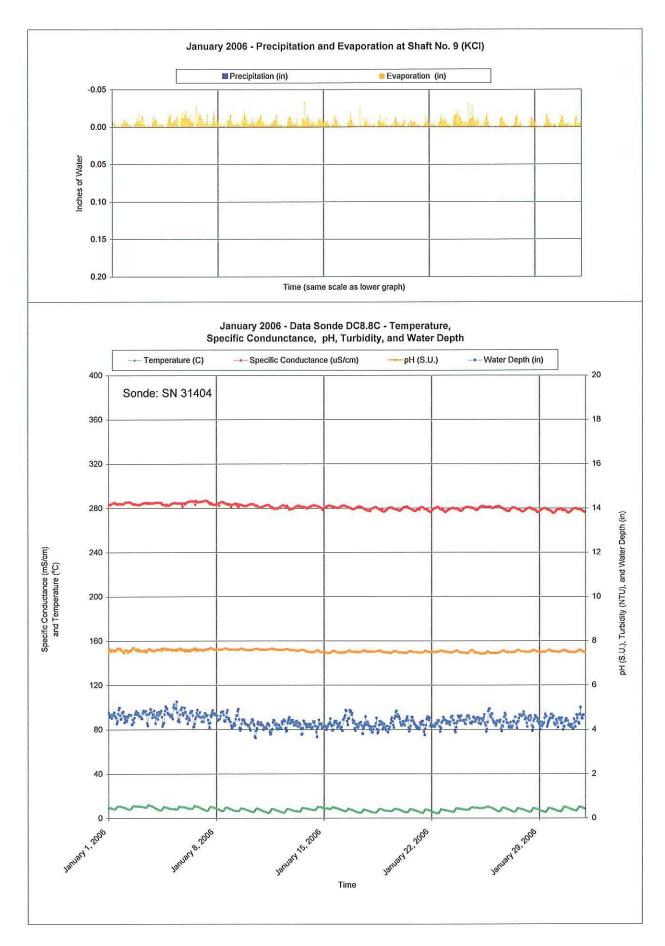


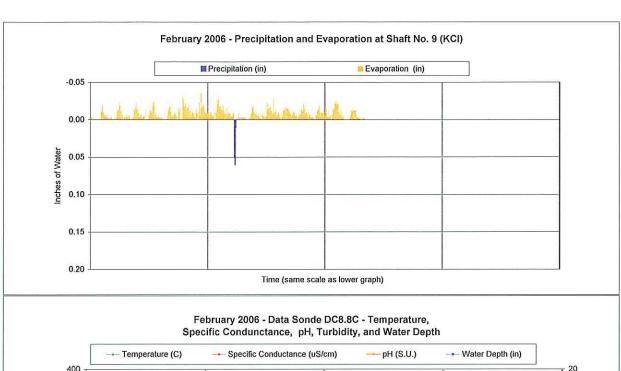


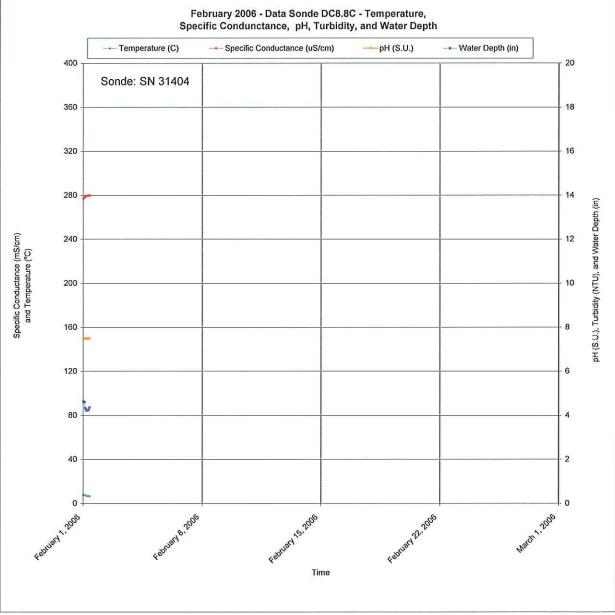




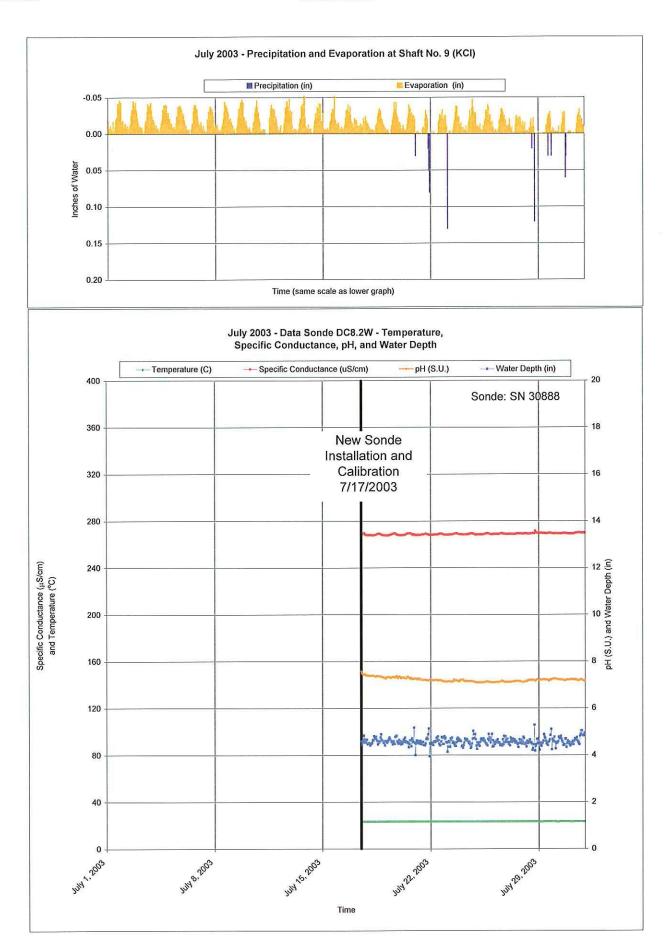


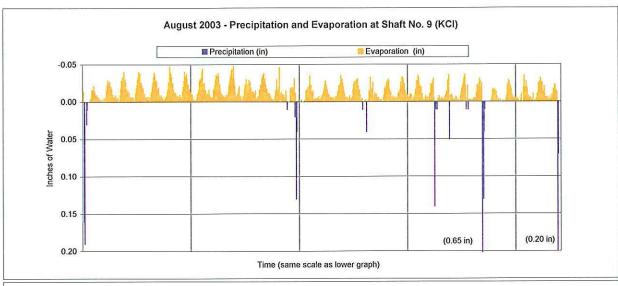


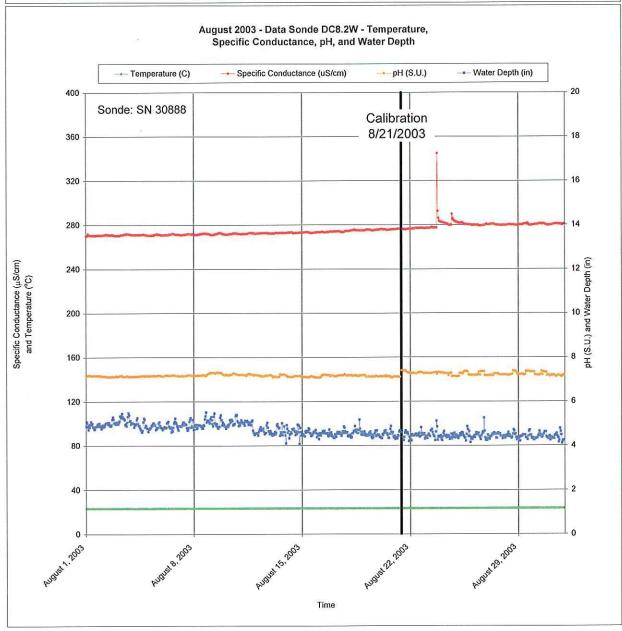


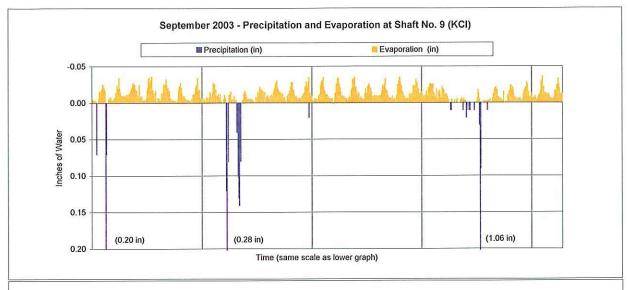


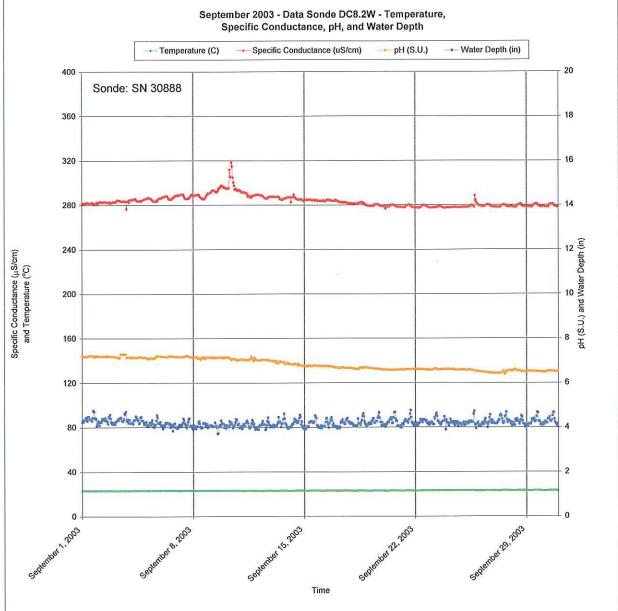
DC 8.2W

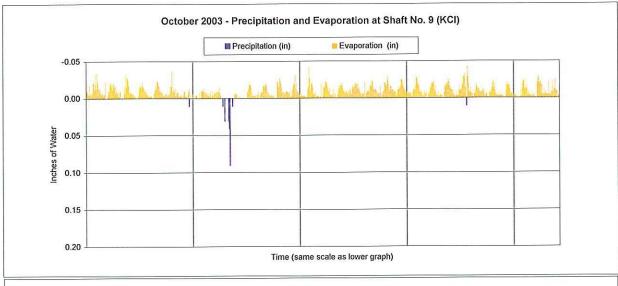


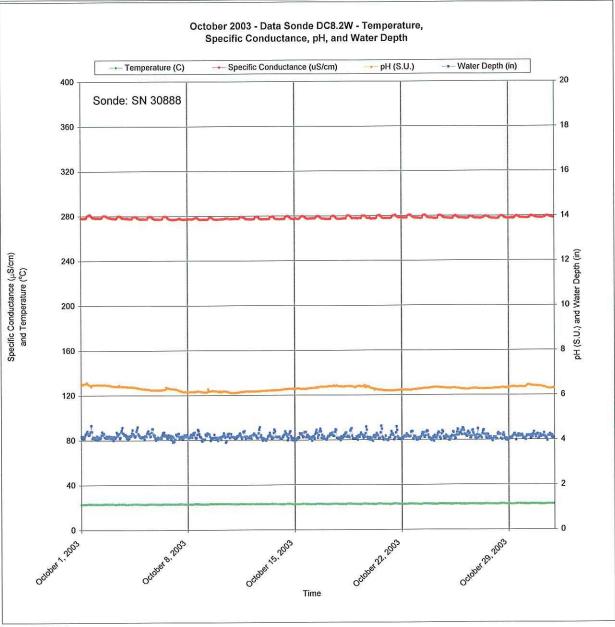


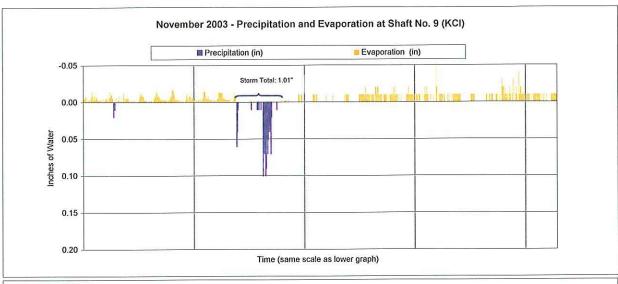


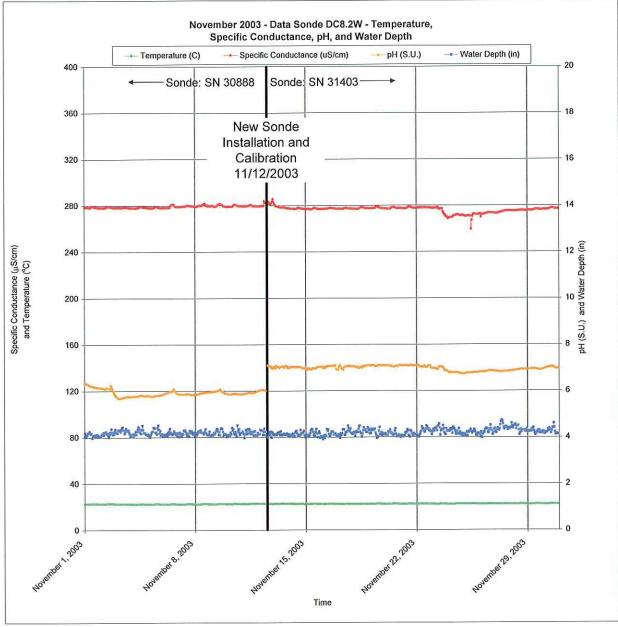


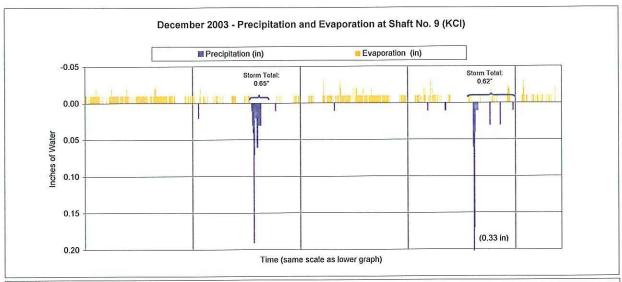


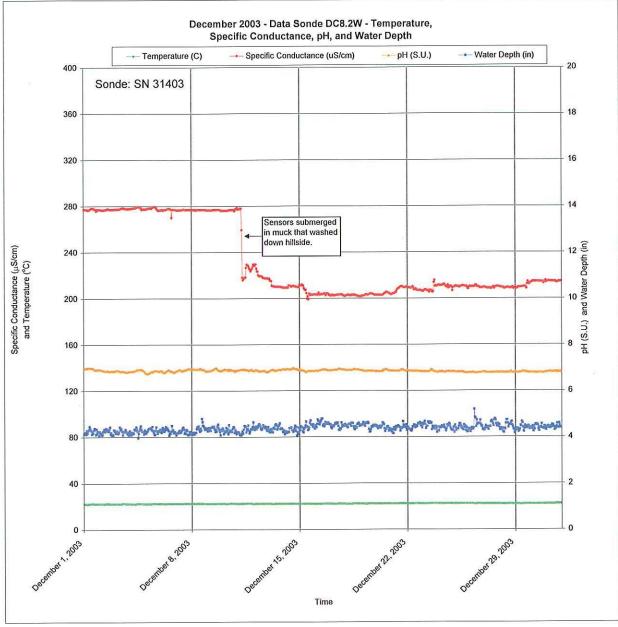


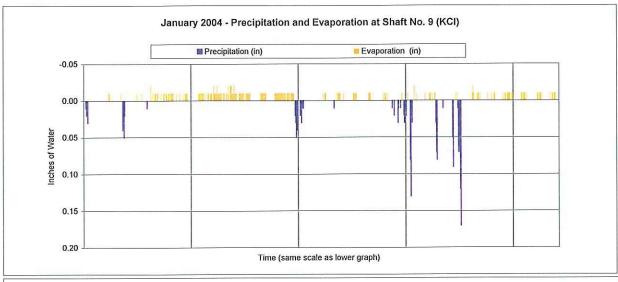


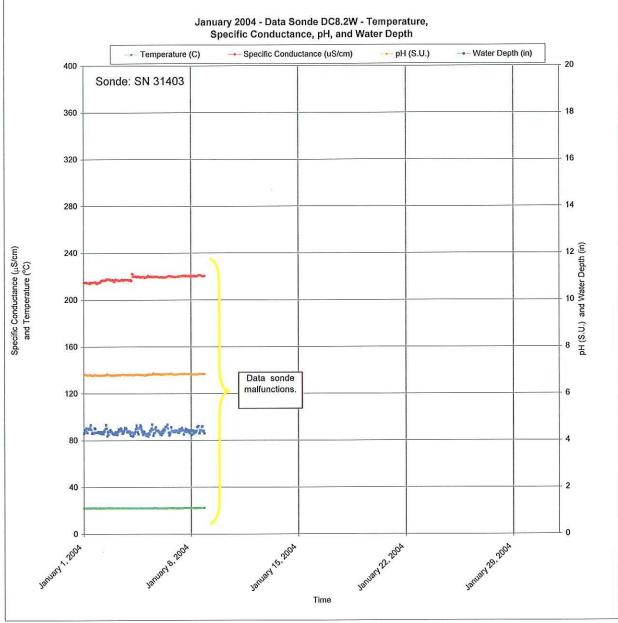


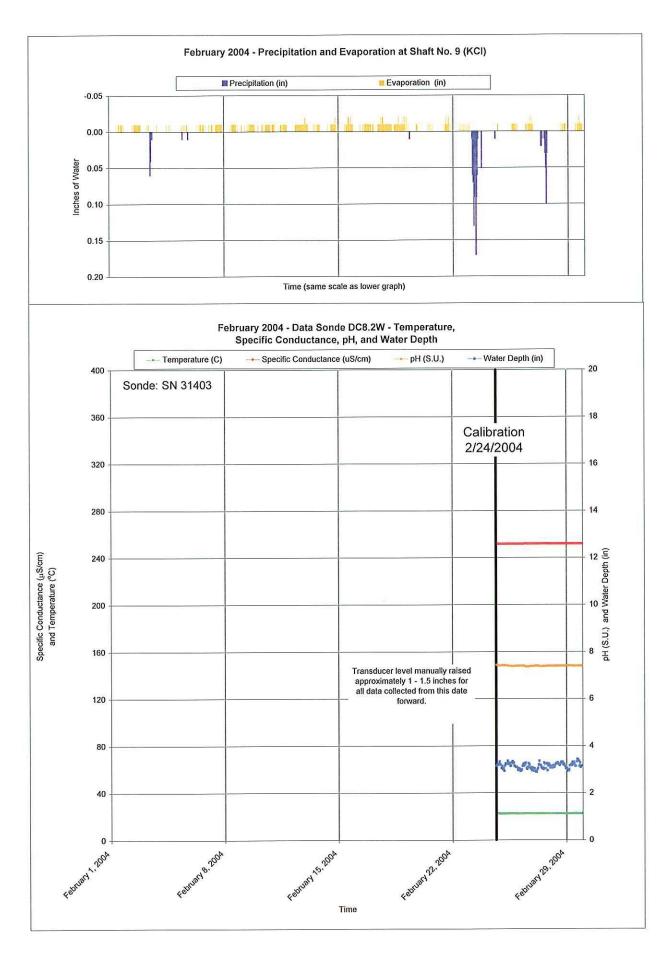


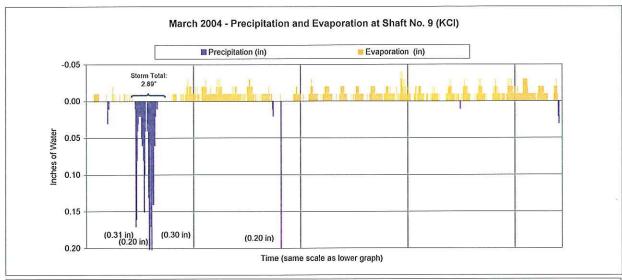


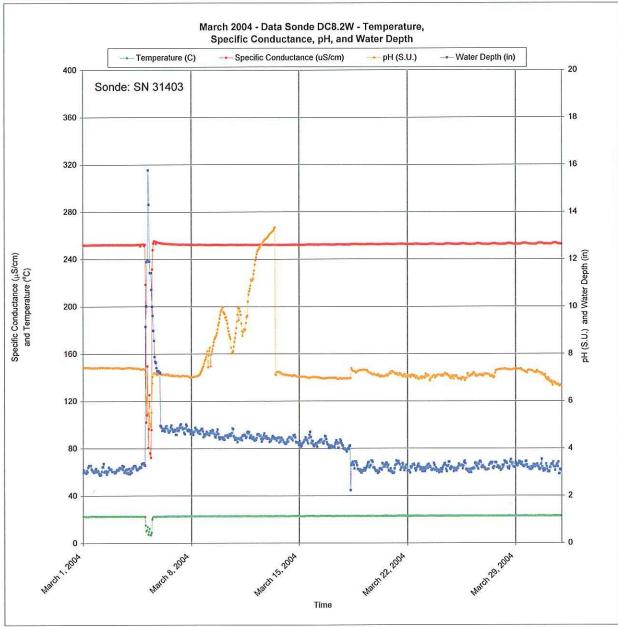


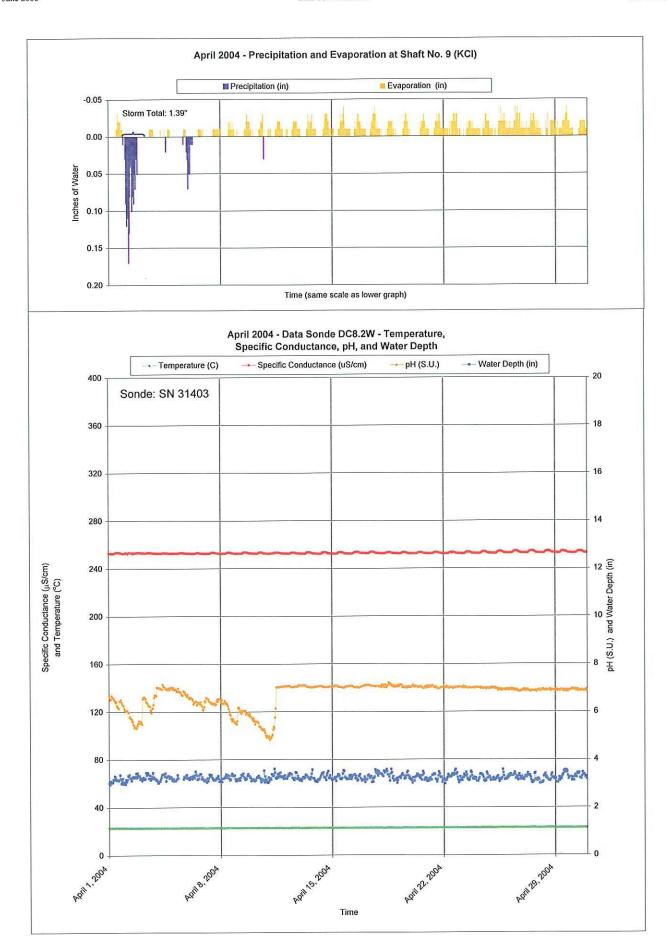


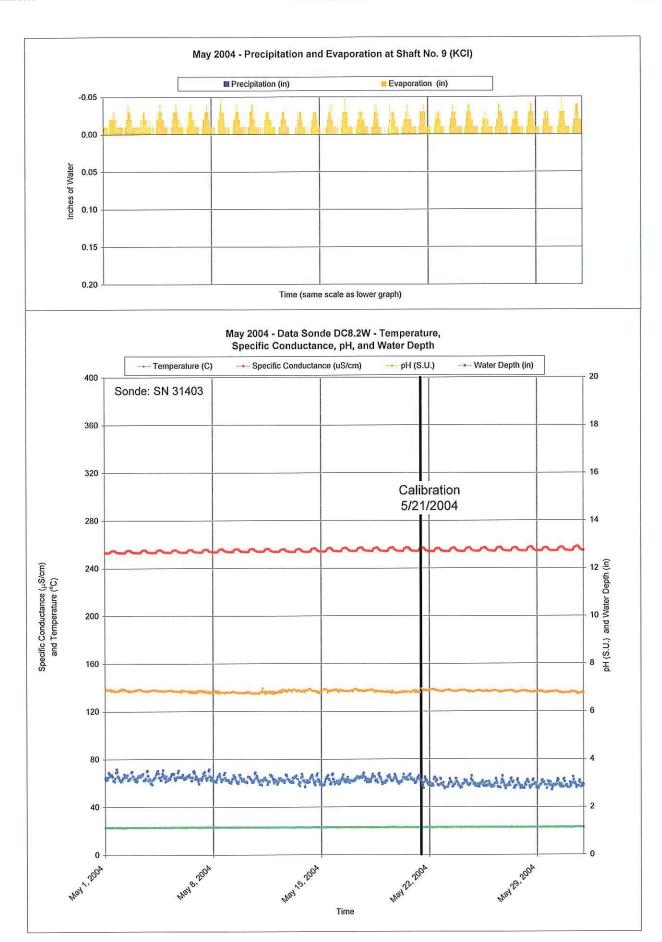


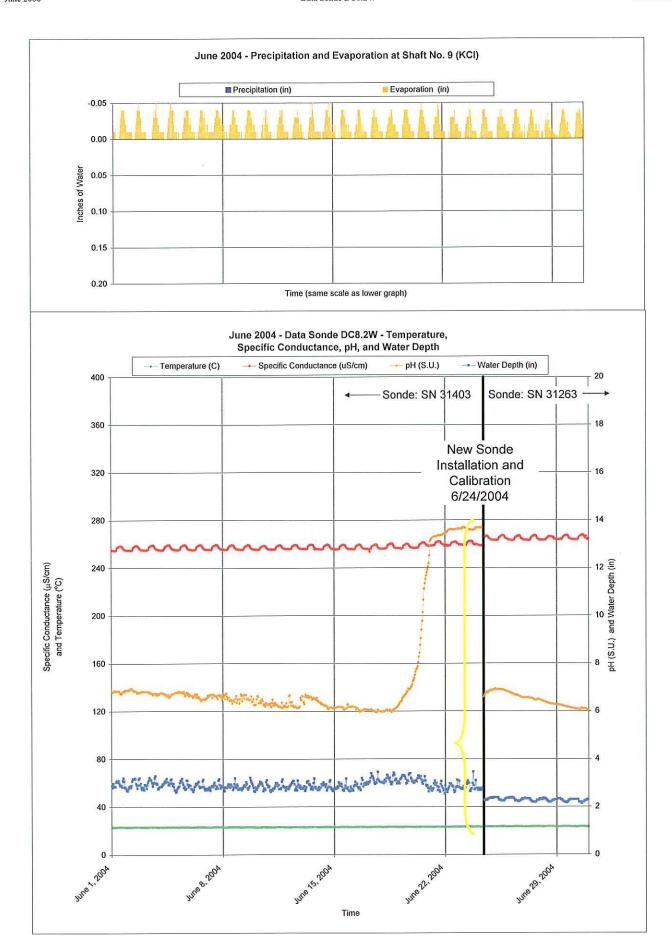


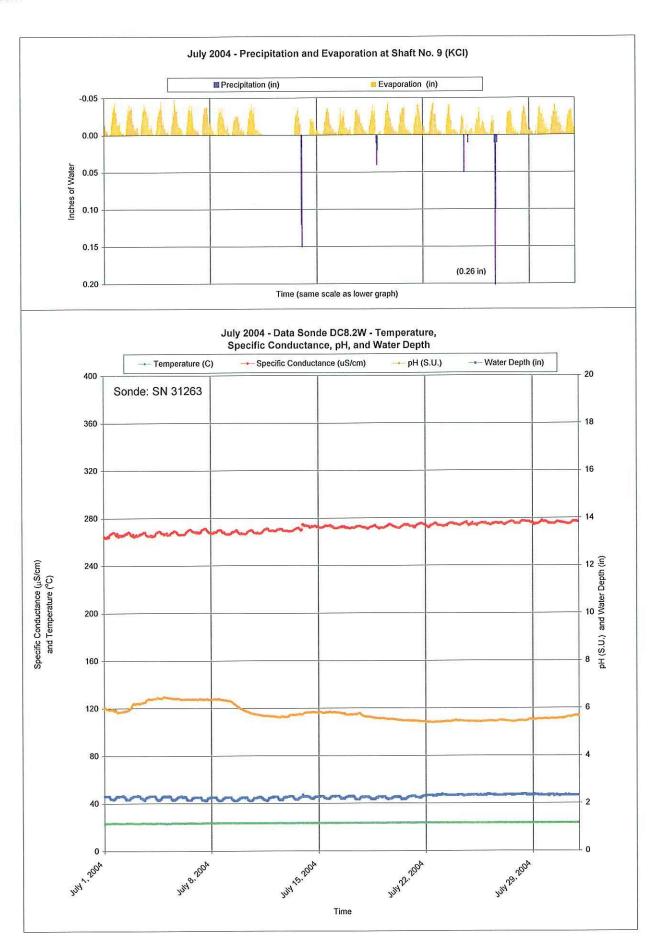


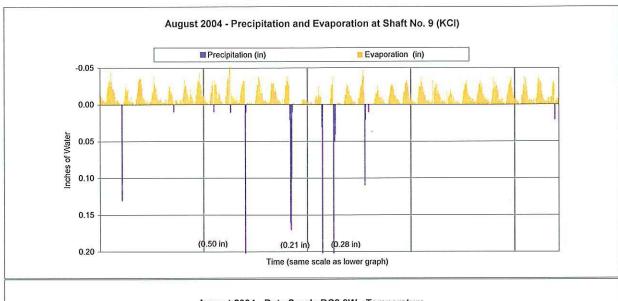


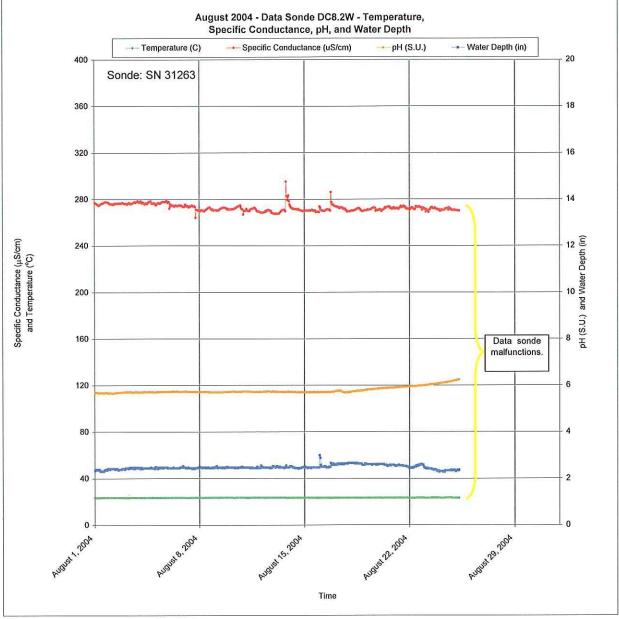


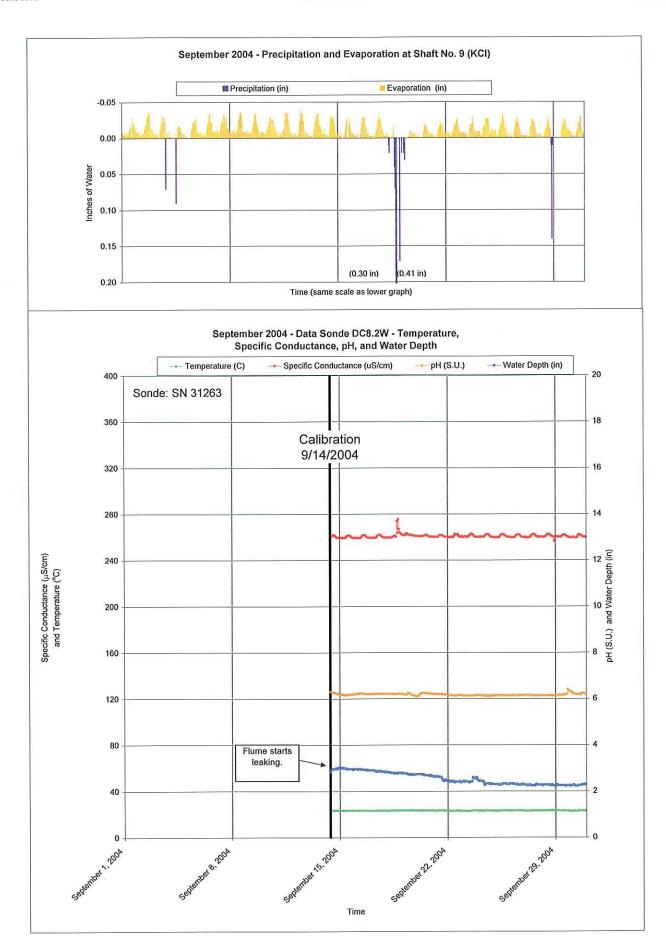


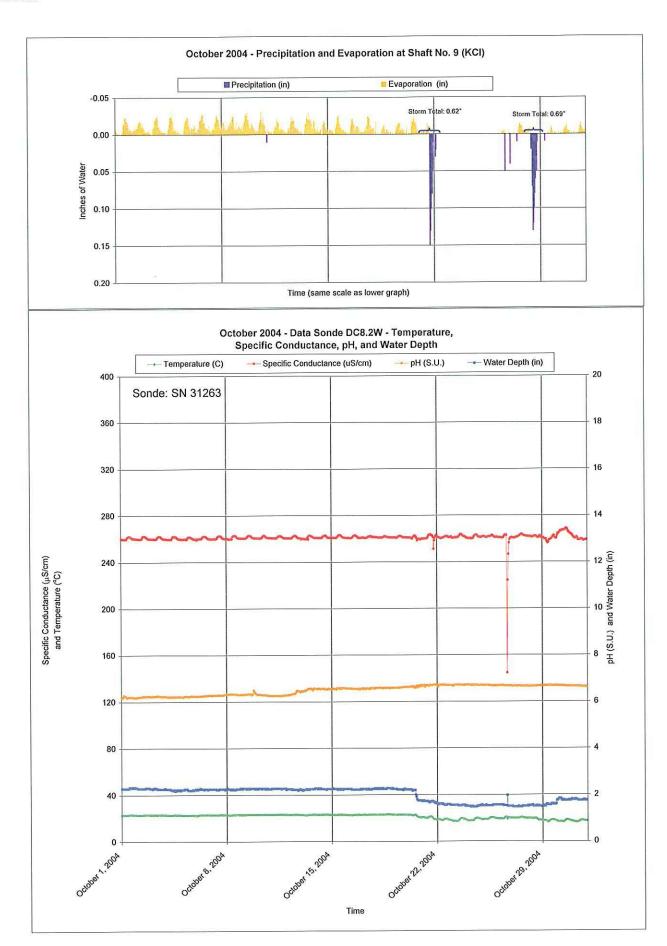


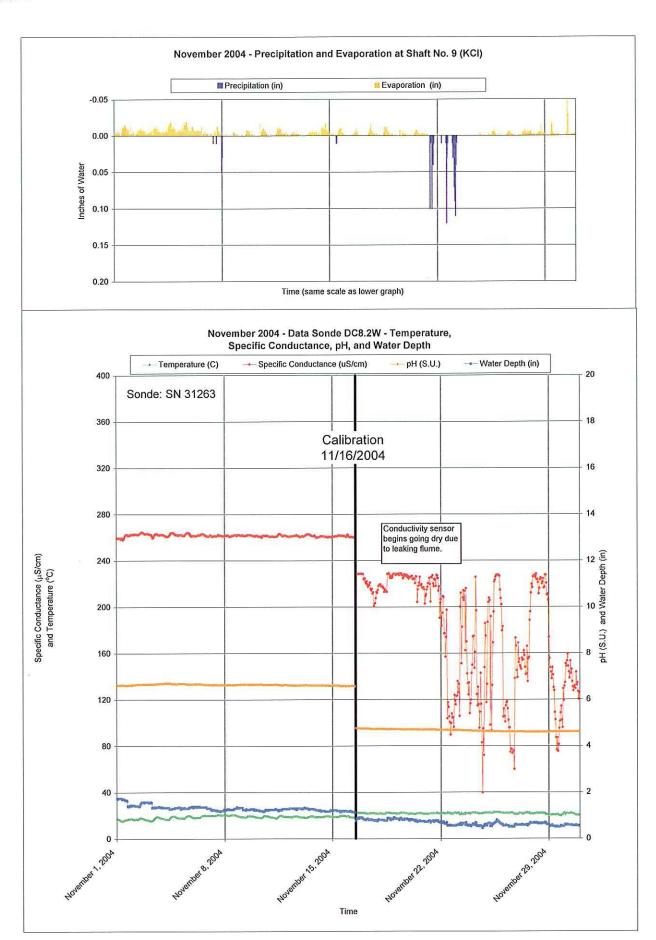


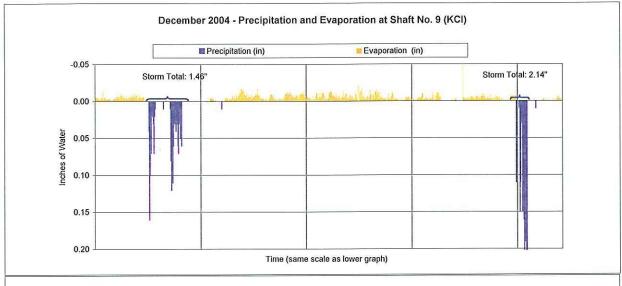


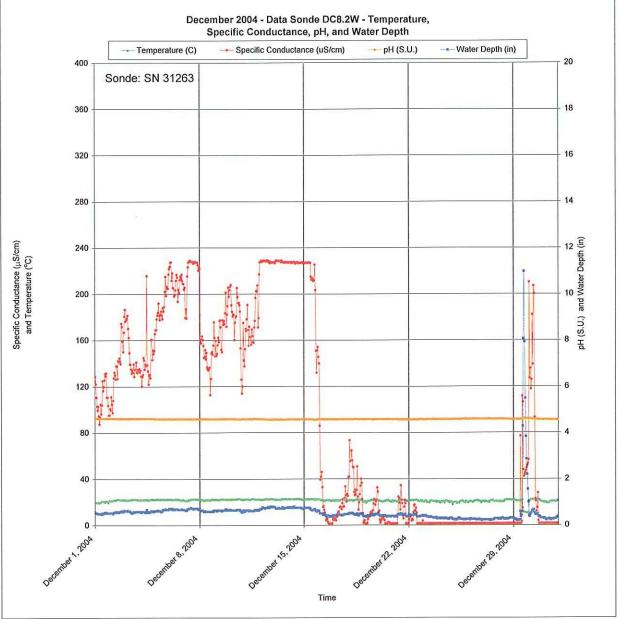


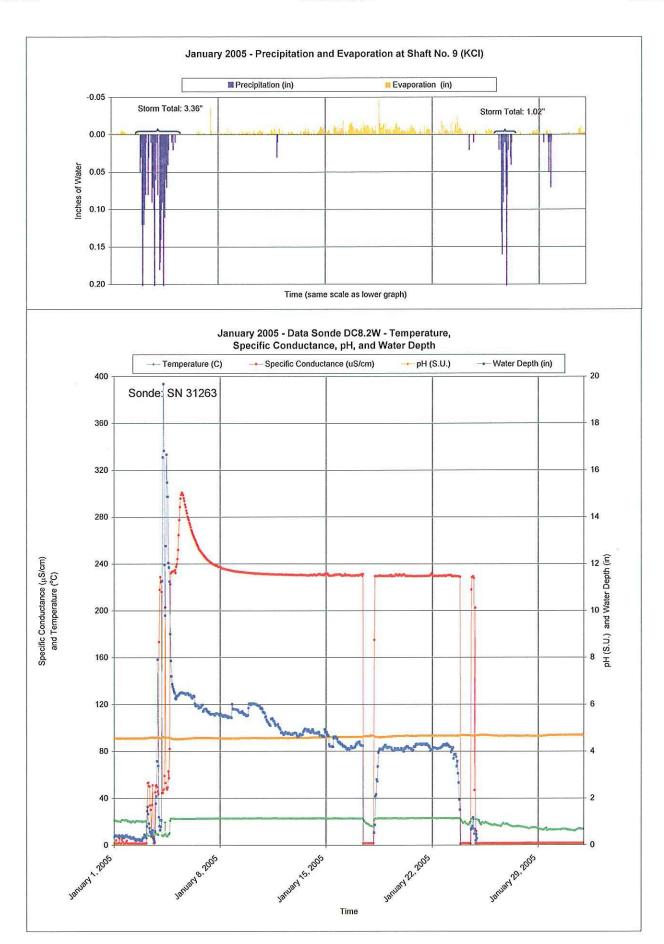


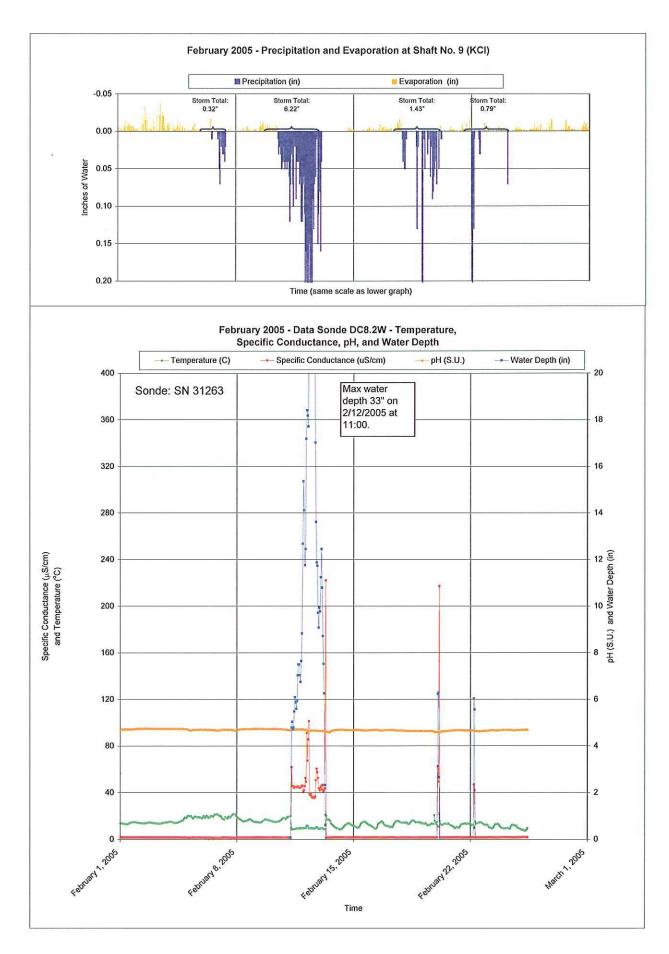




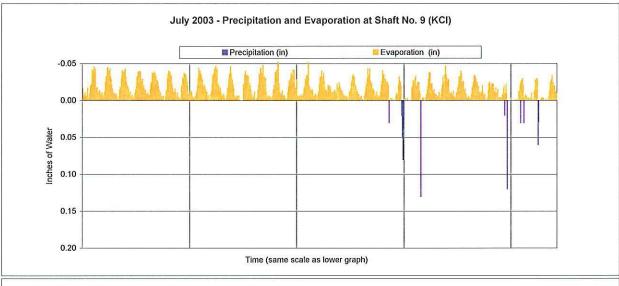


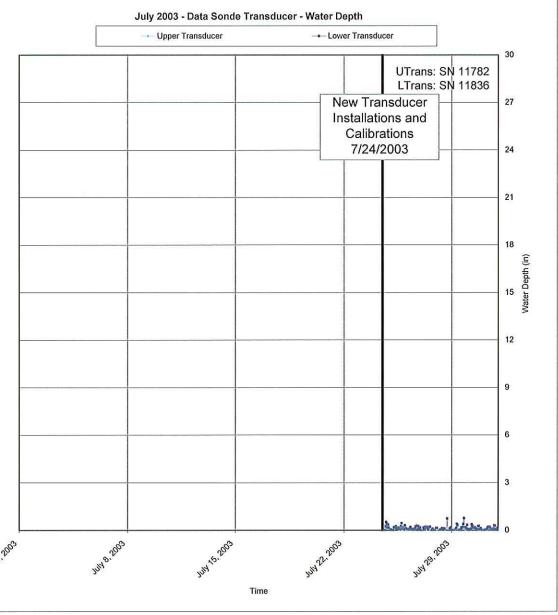


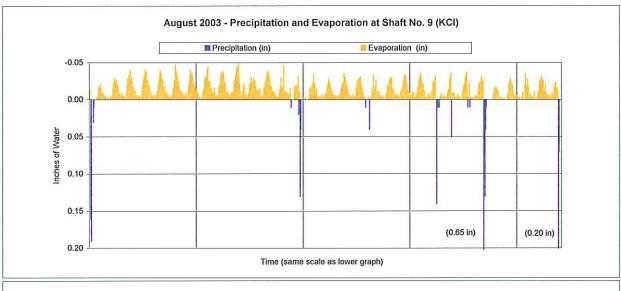


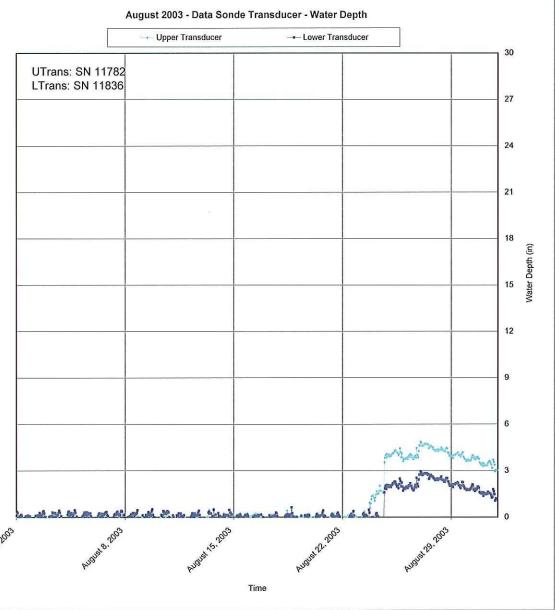


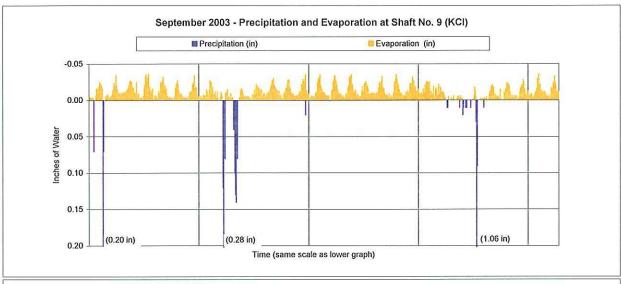
DC 7.1C

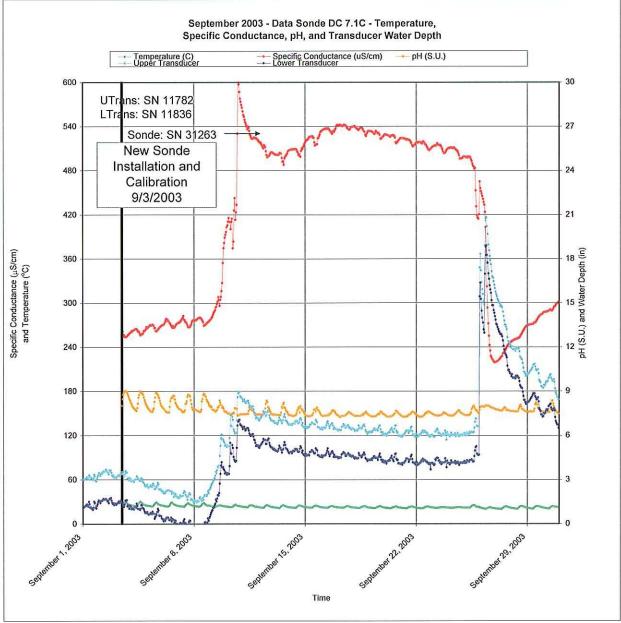


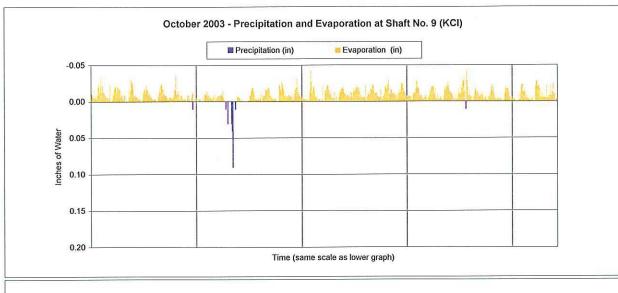


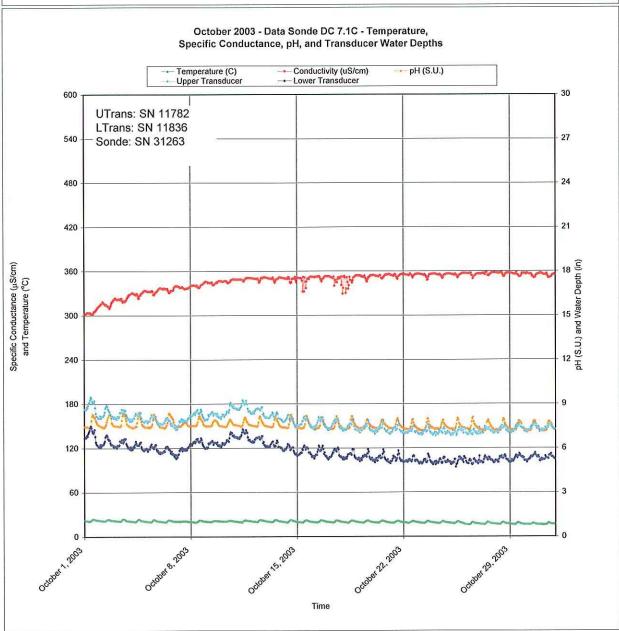


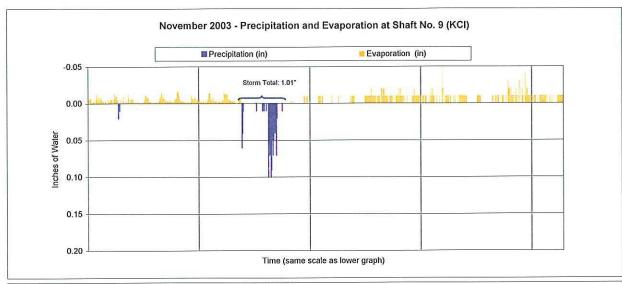


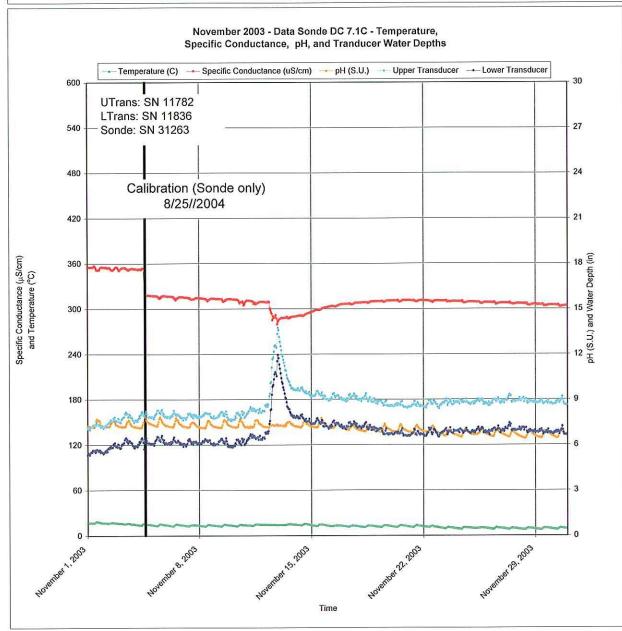


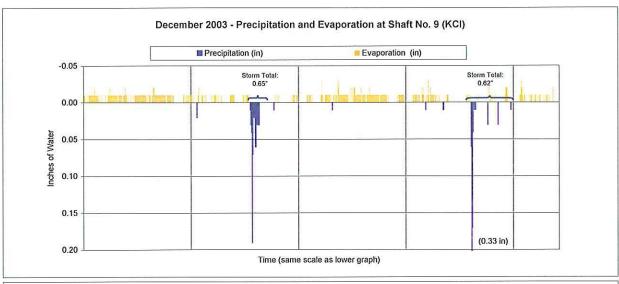


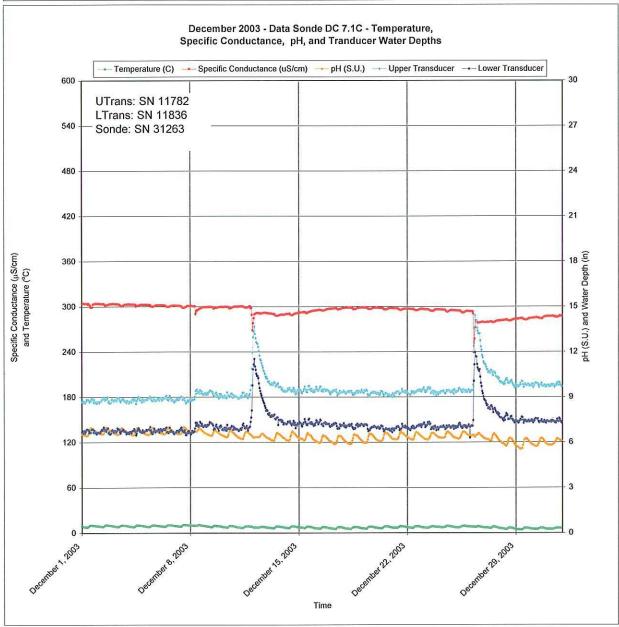


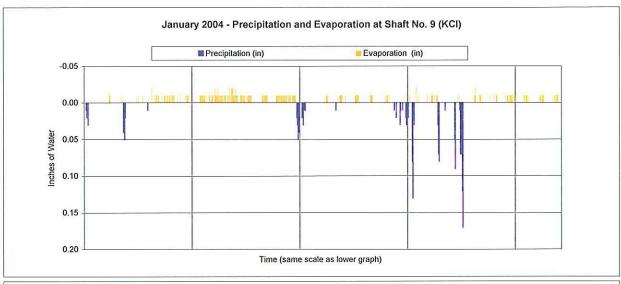


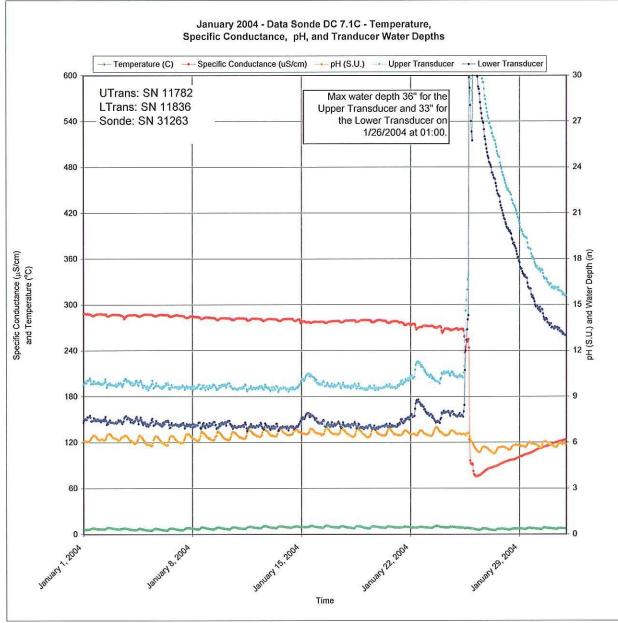


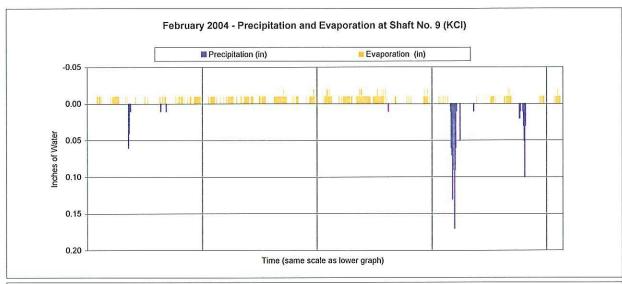


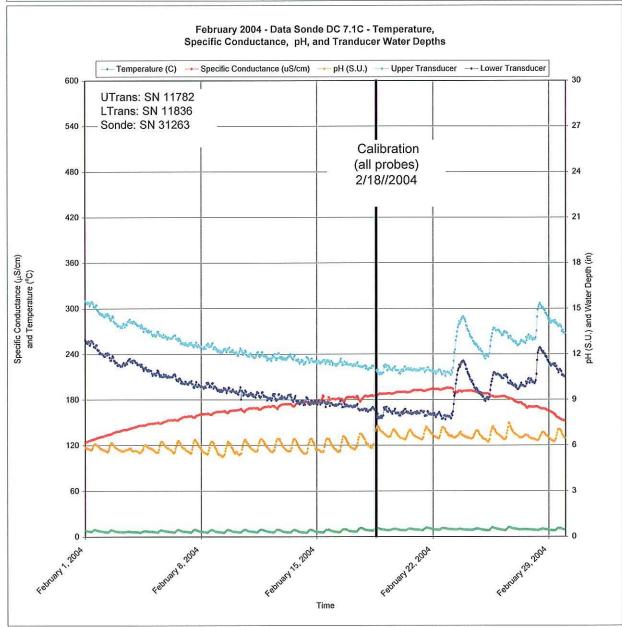


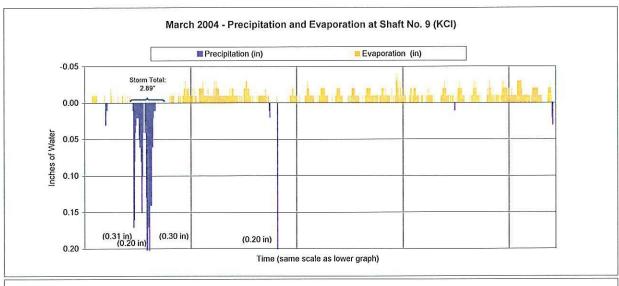


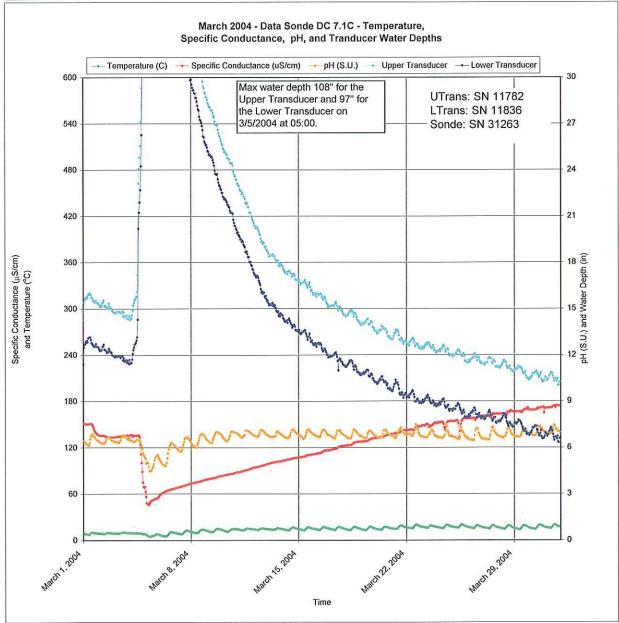


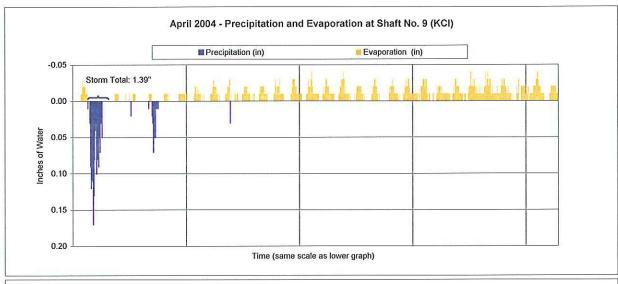


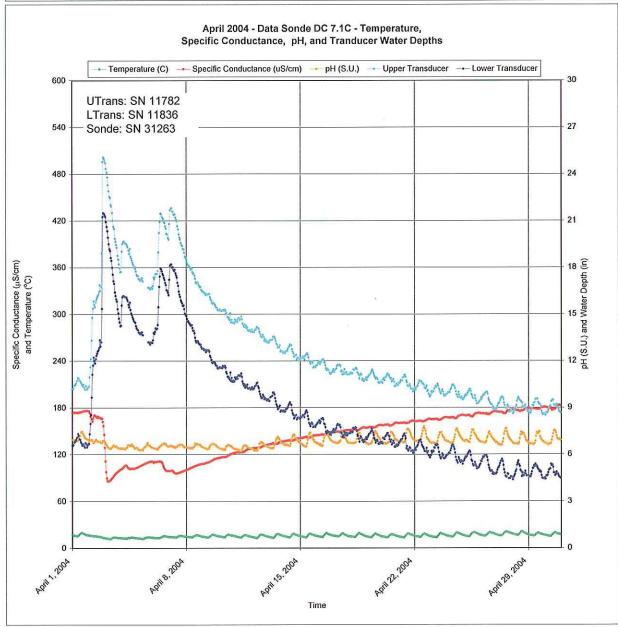


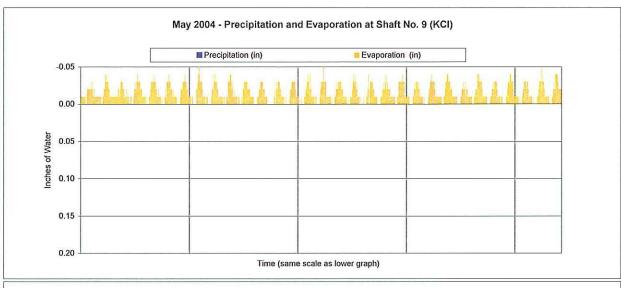


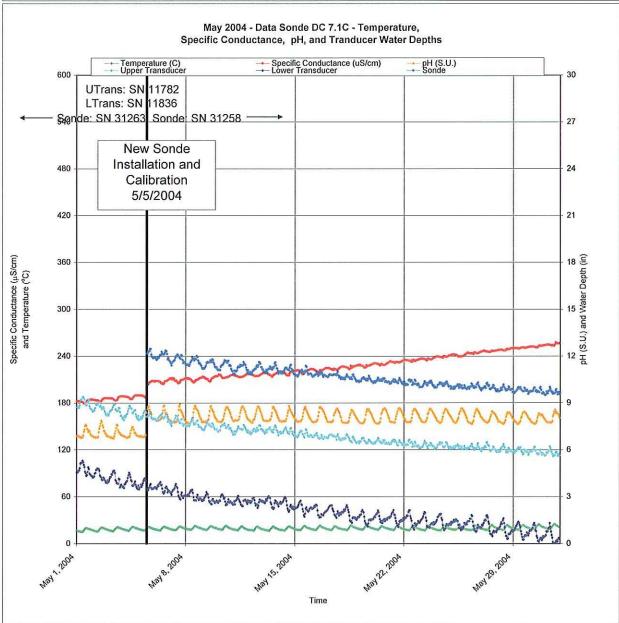


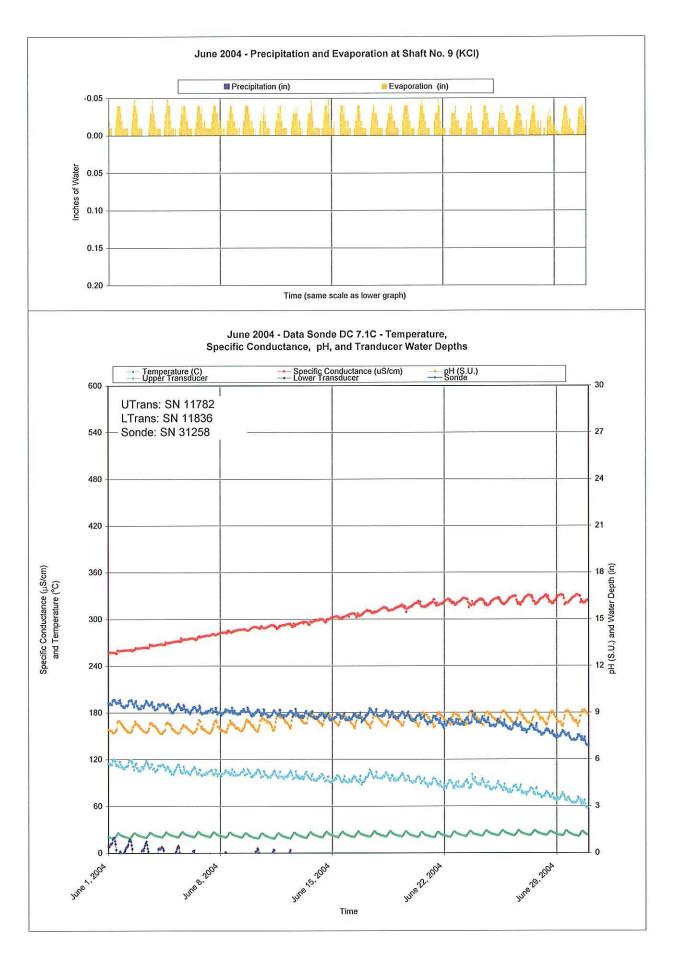


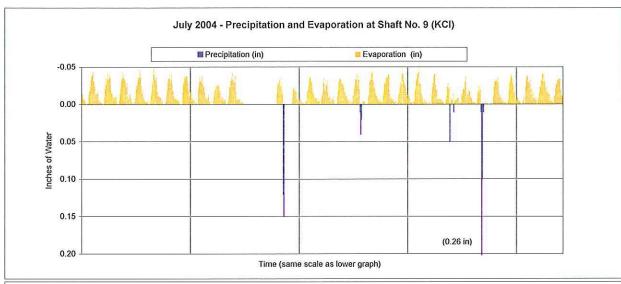


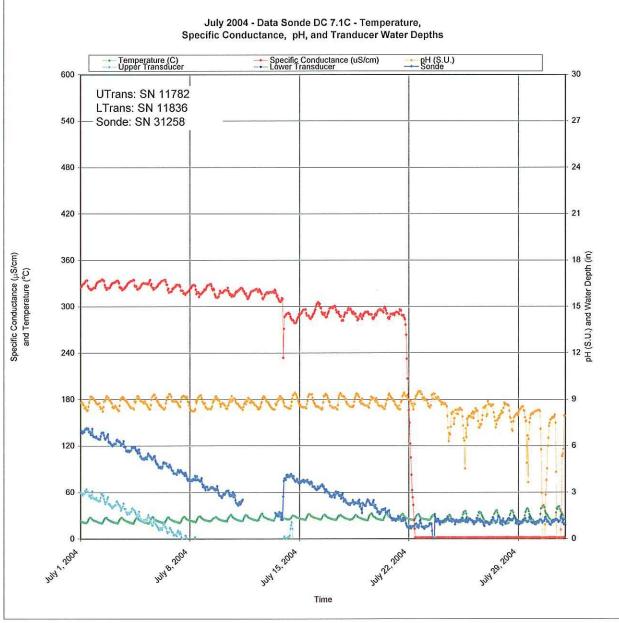


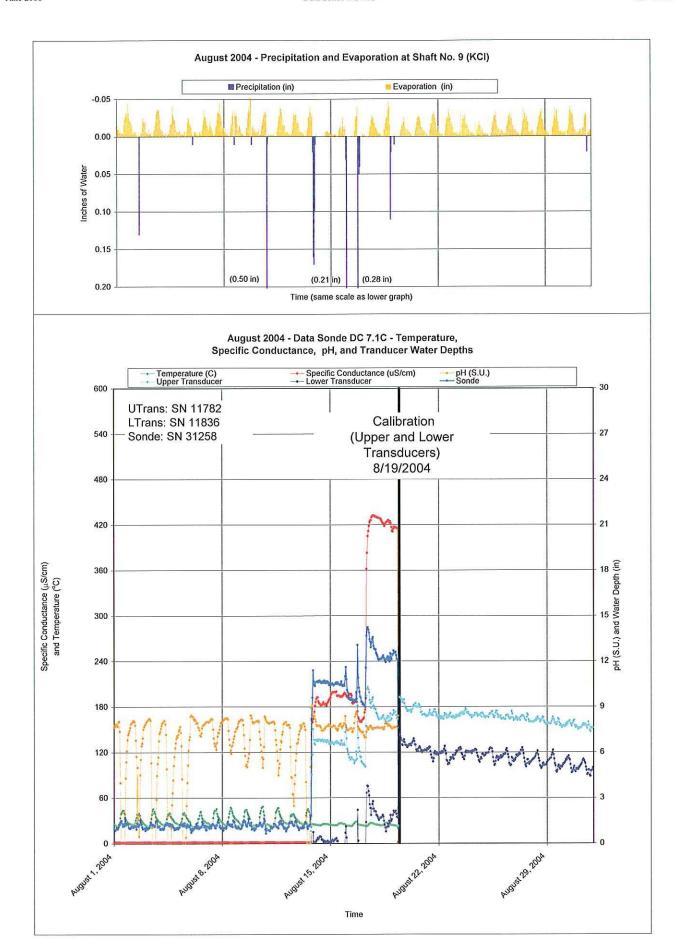


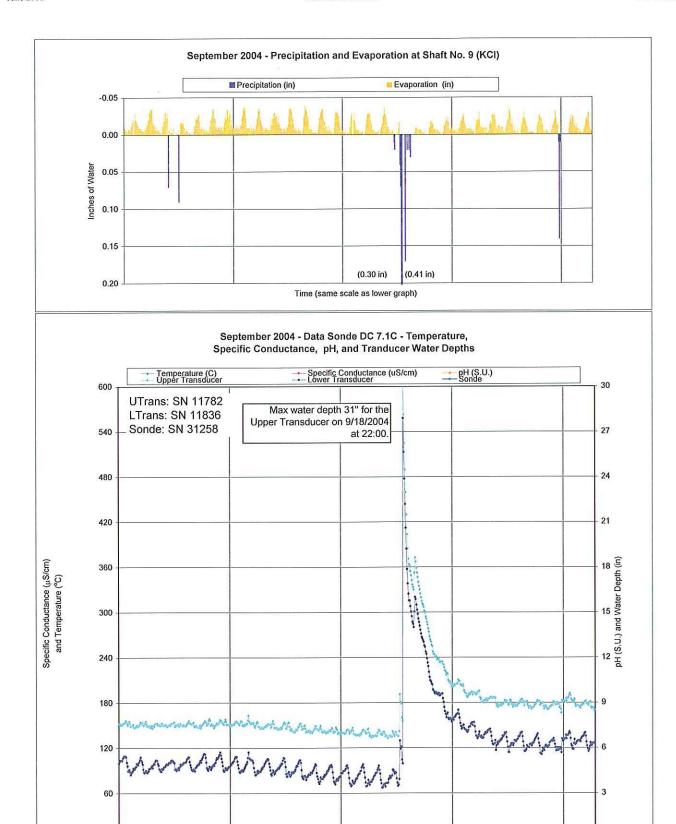




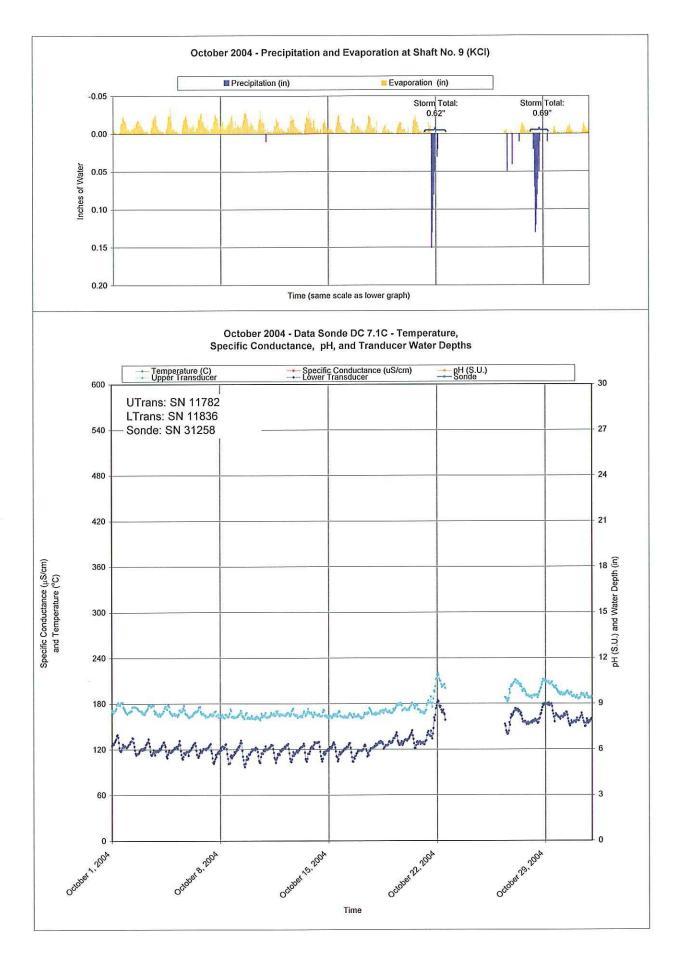


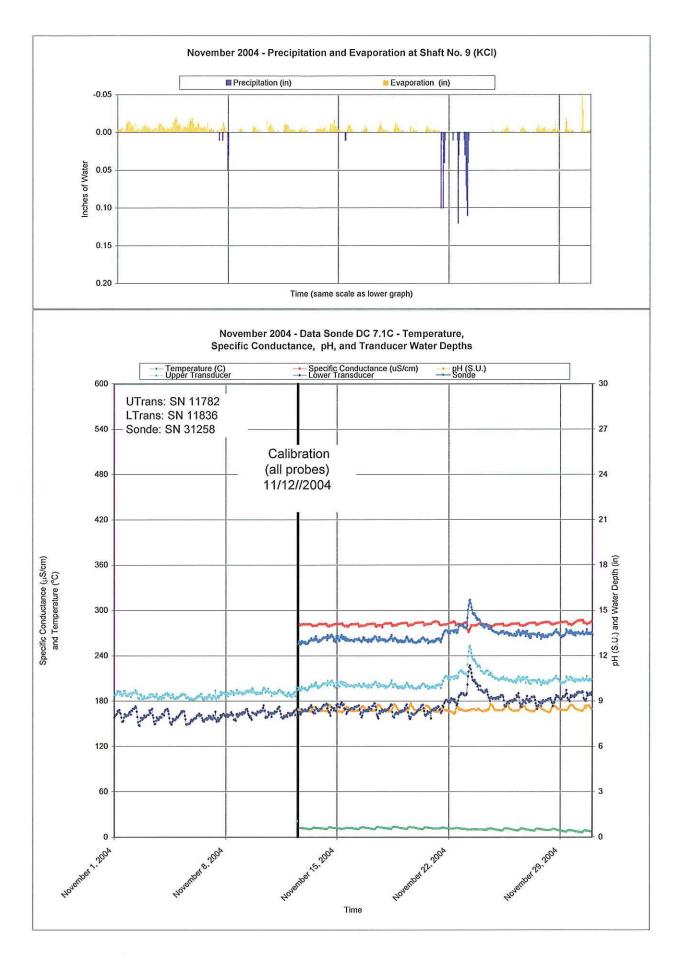


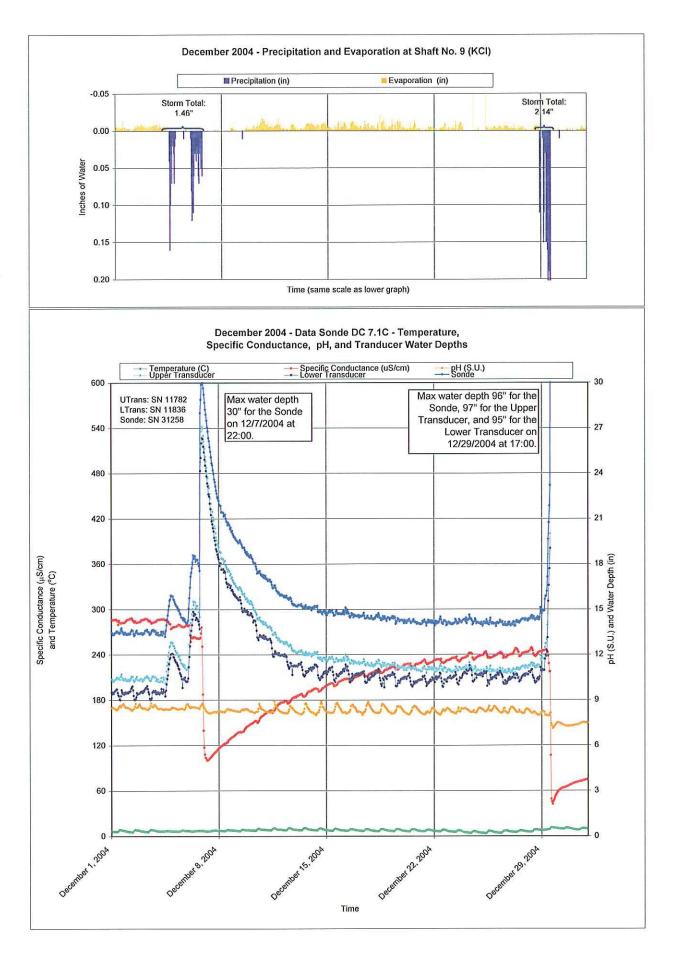


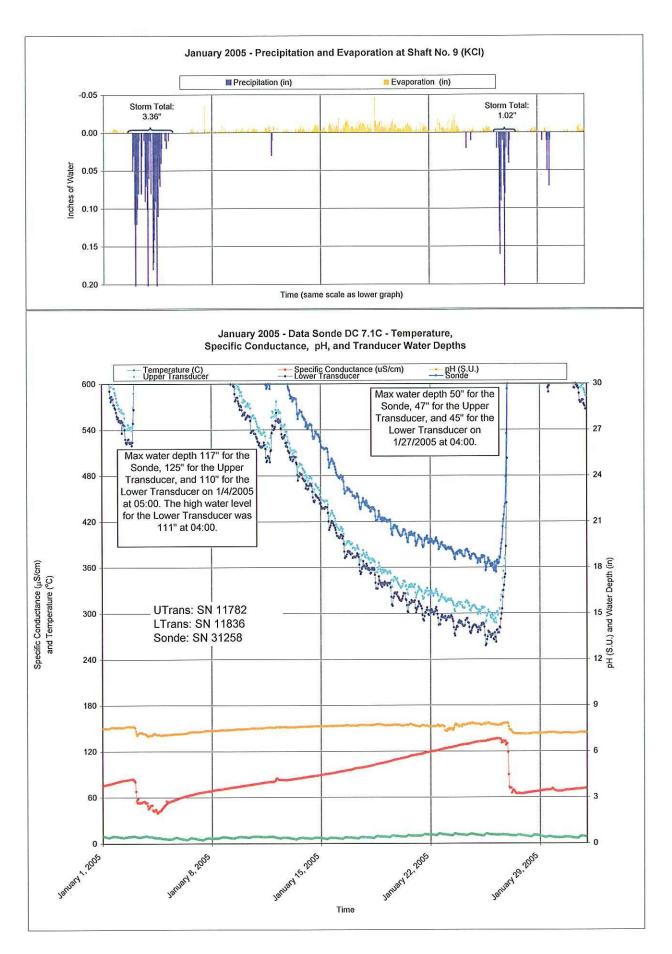


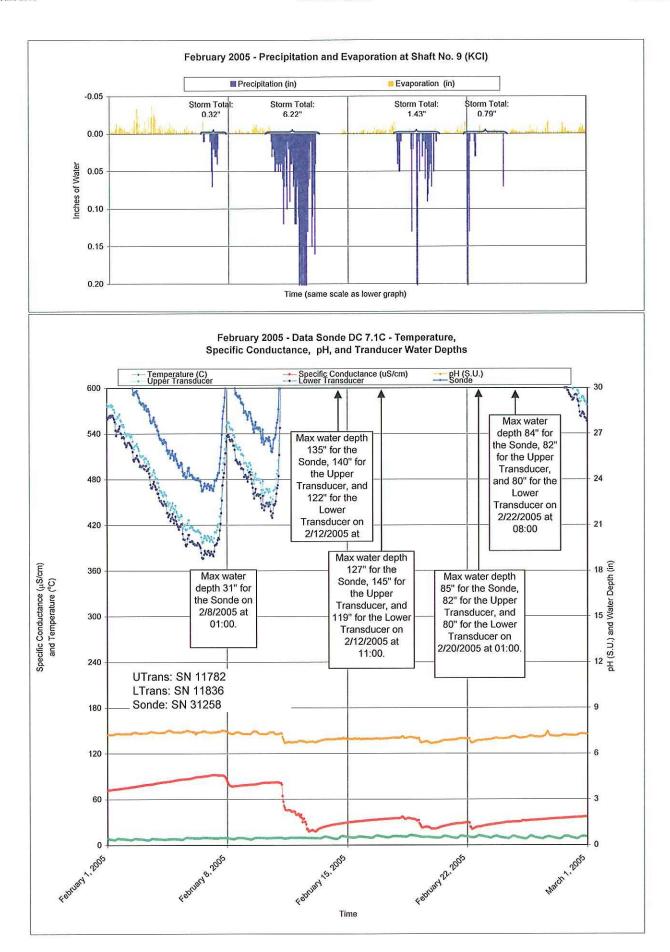
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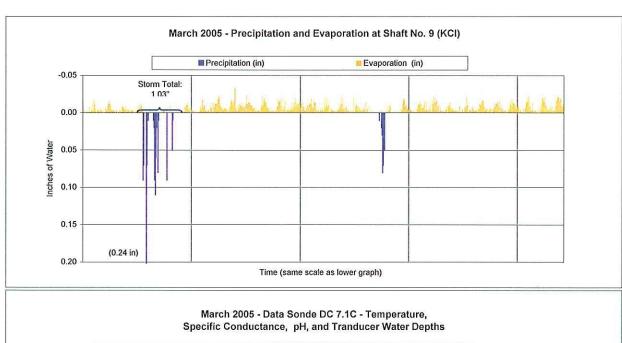


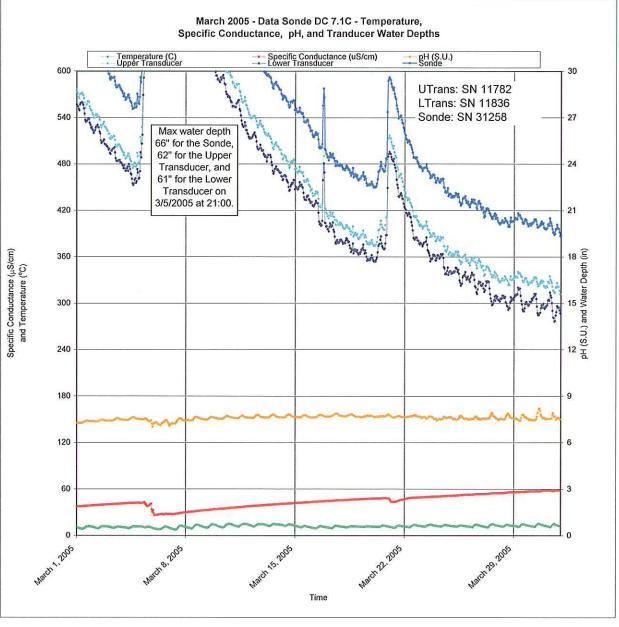


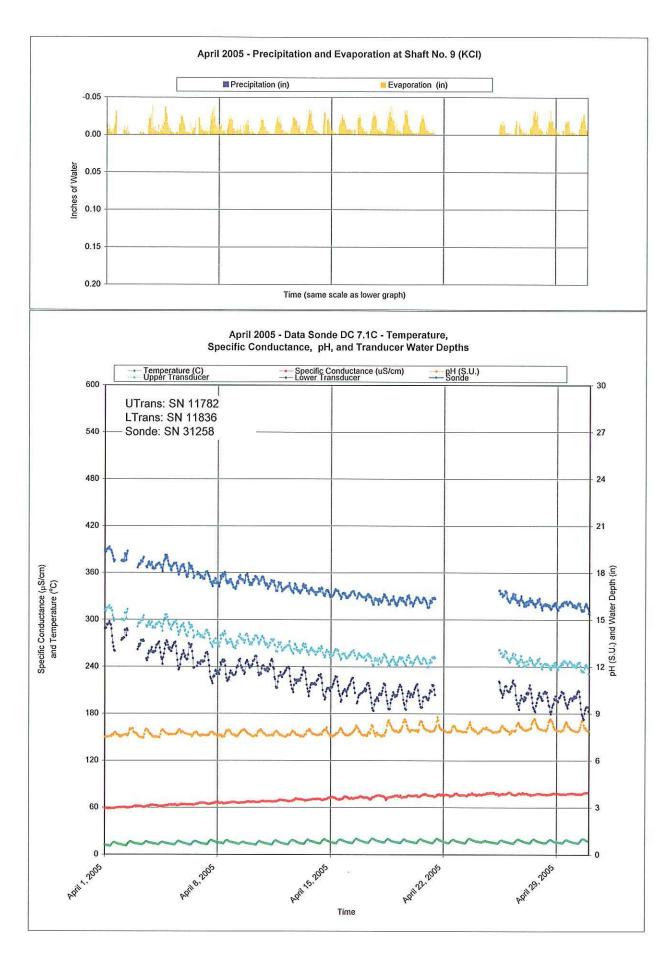


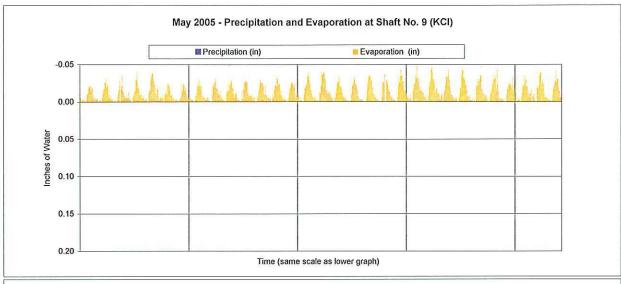


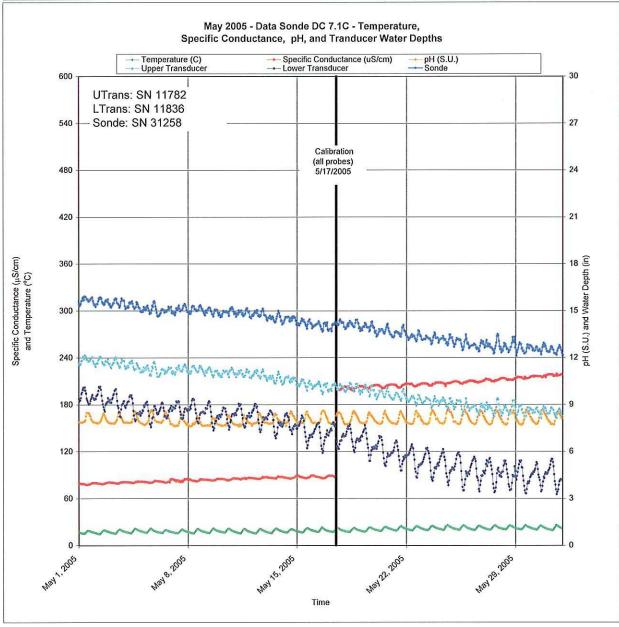


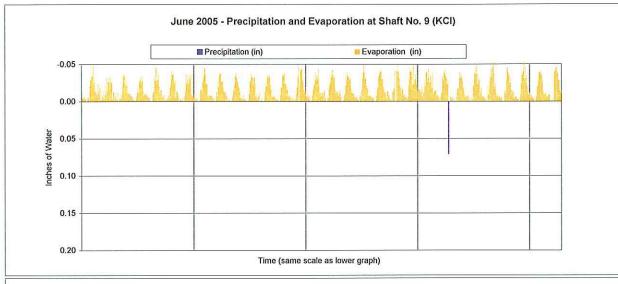


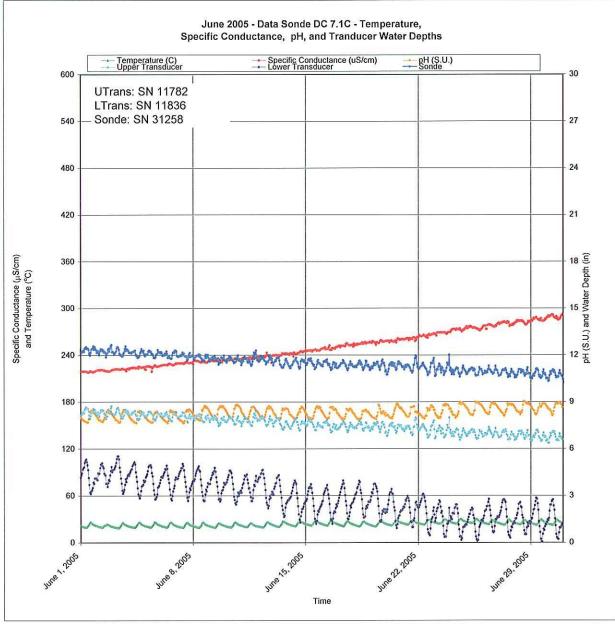


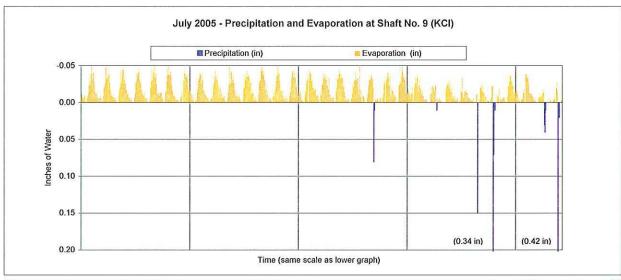


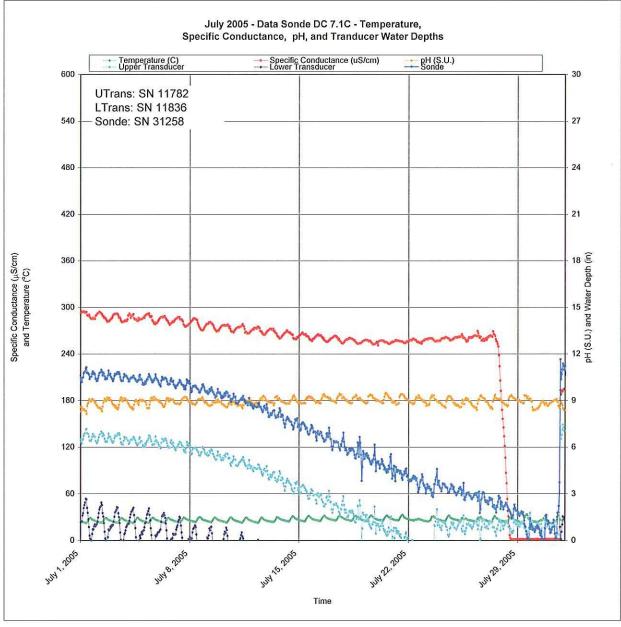


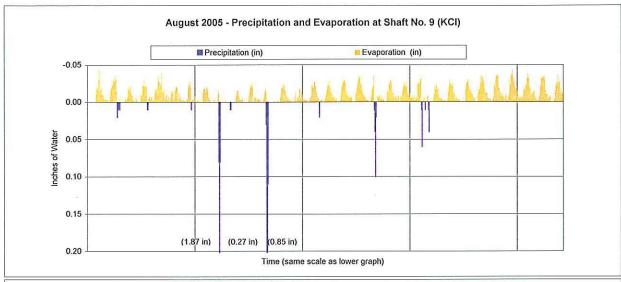


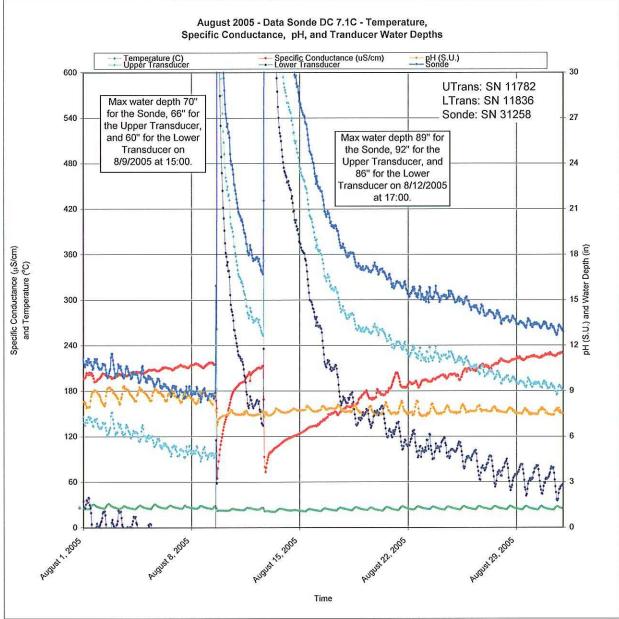


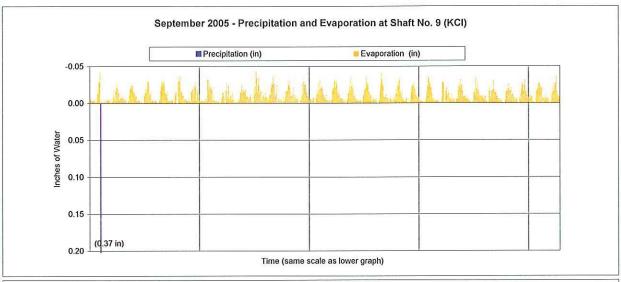


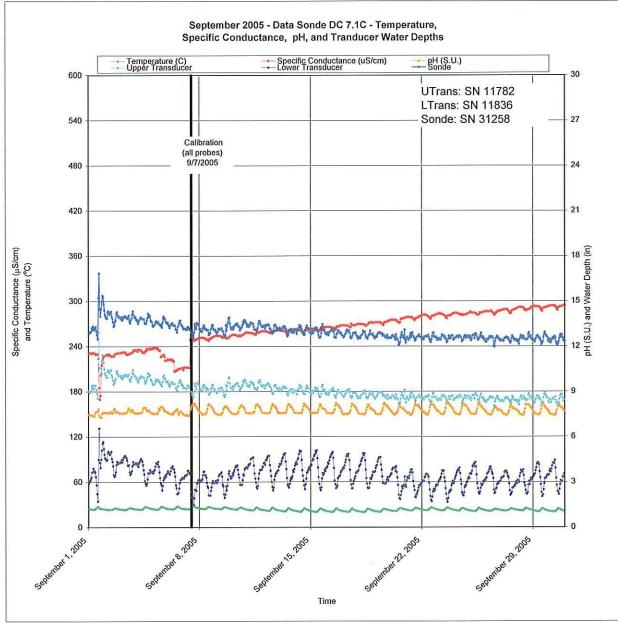


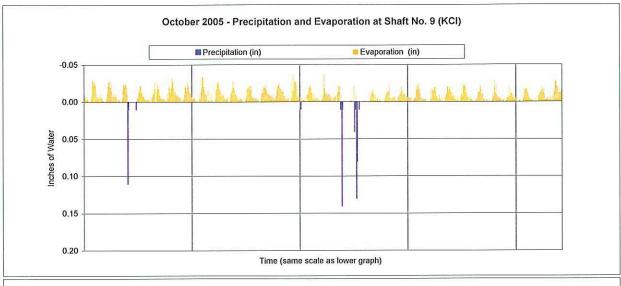


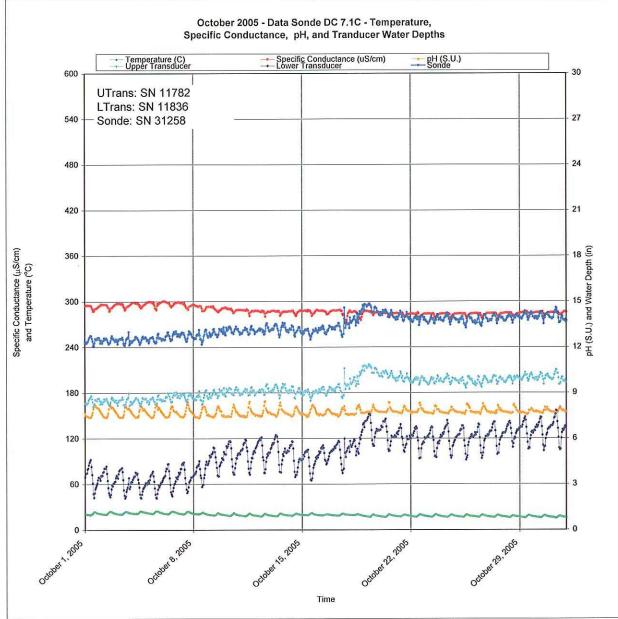


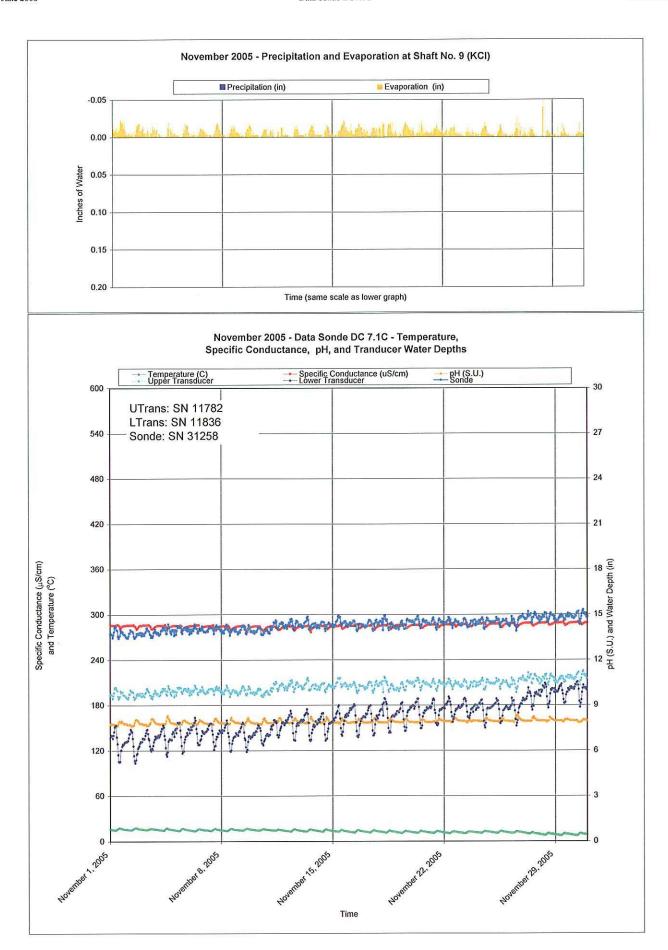


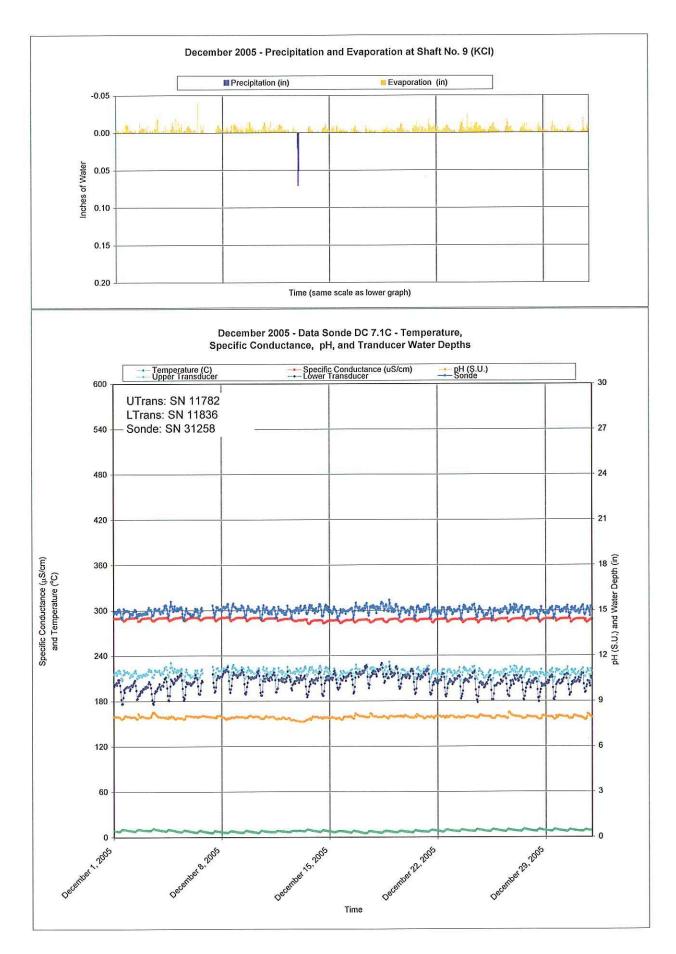


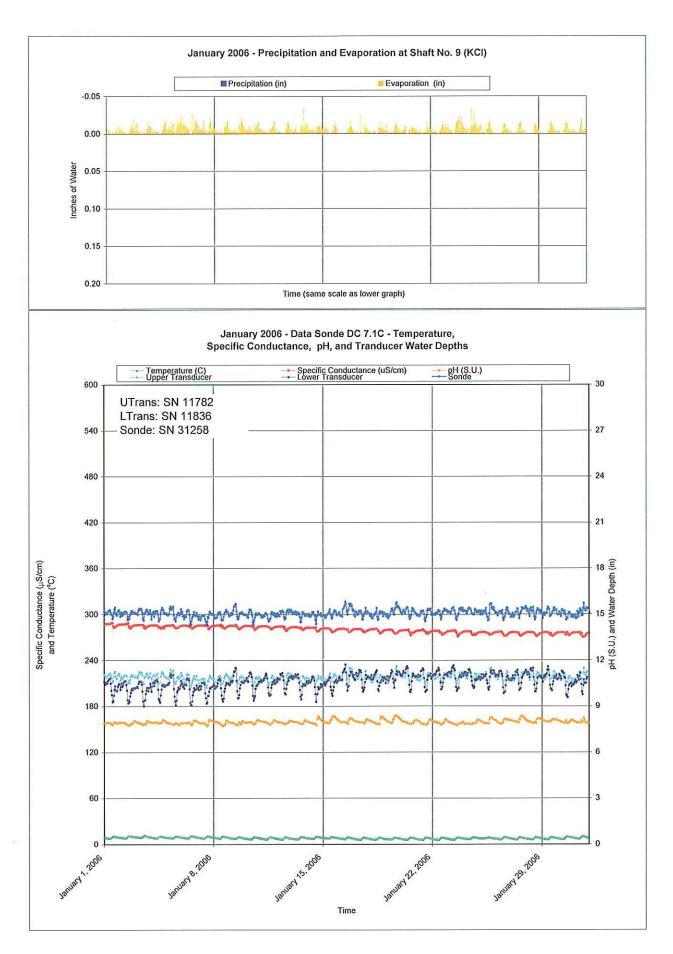


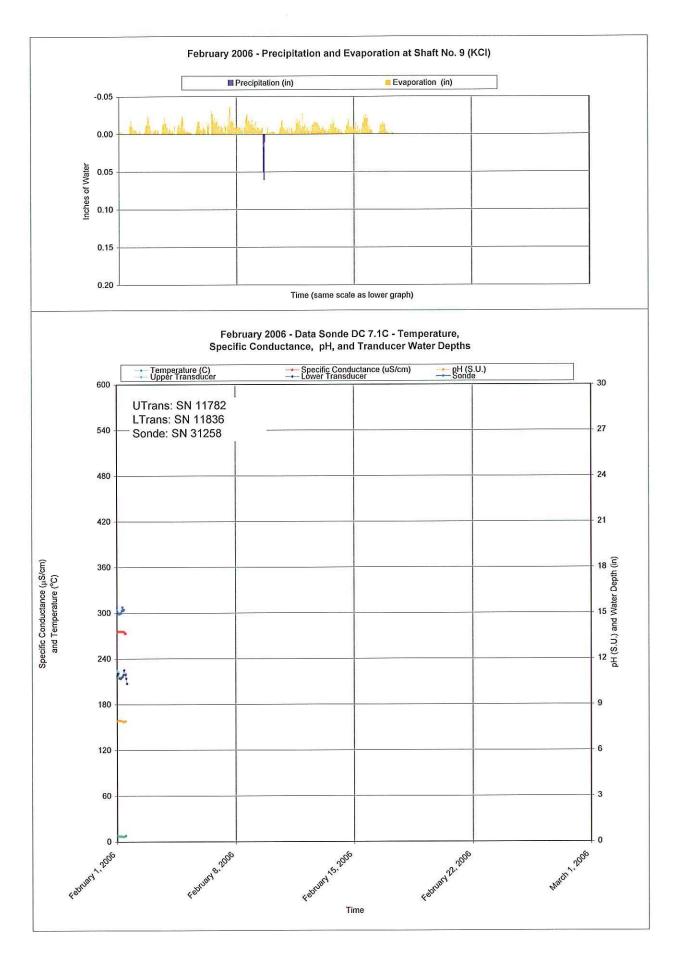




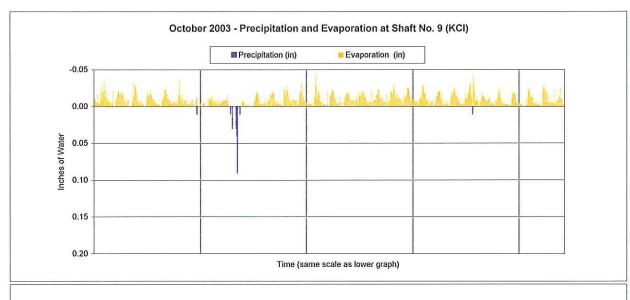


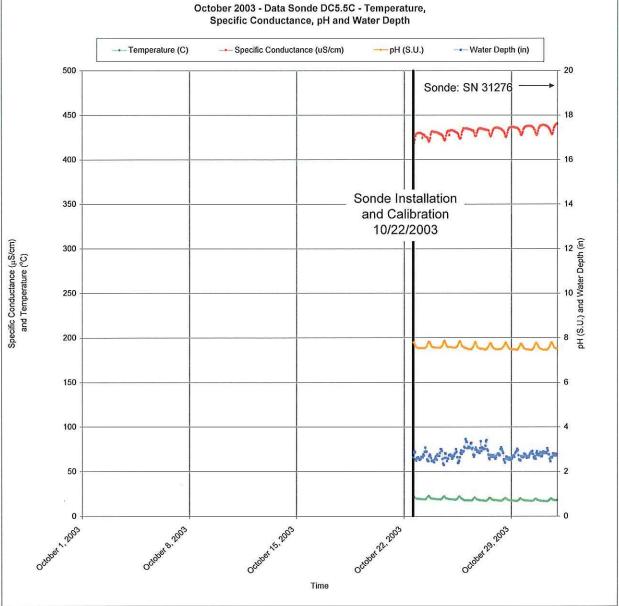


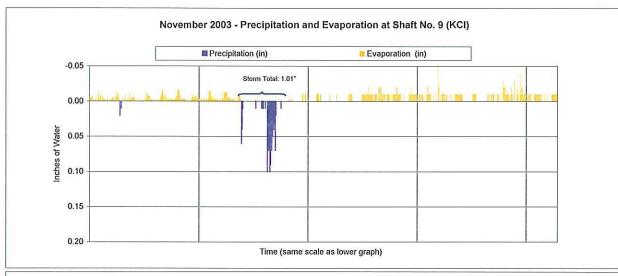


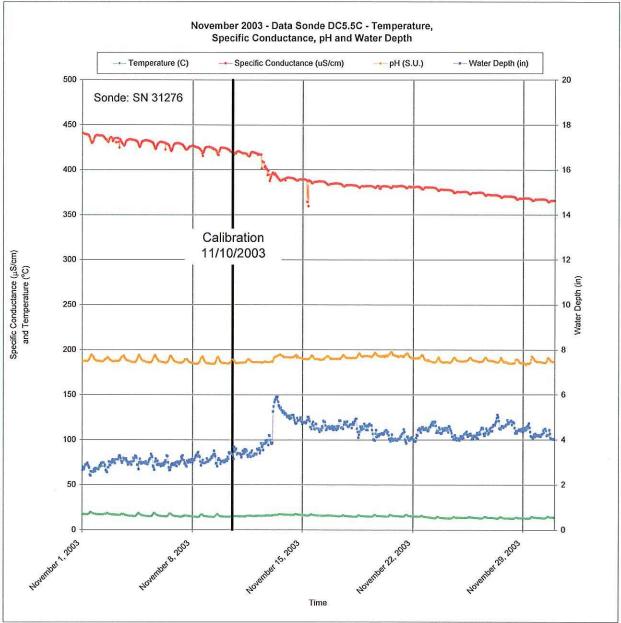


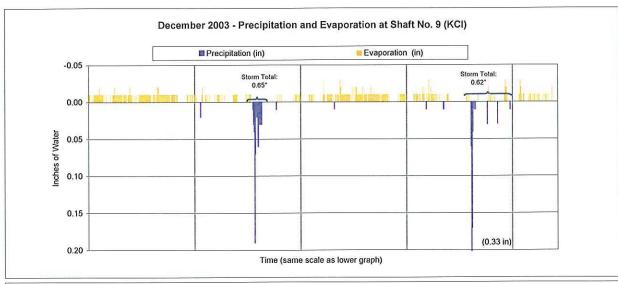
DC 5.5C

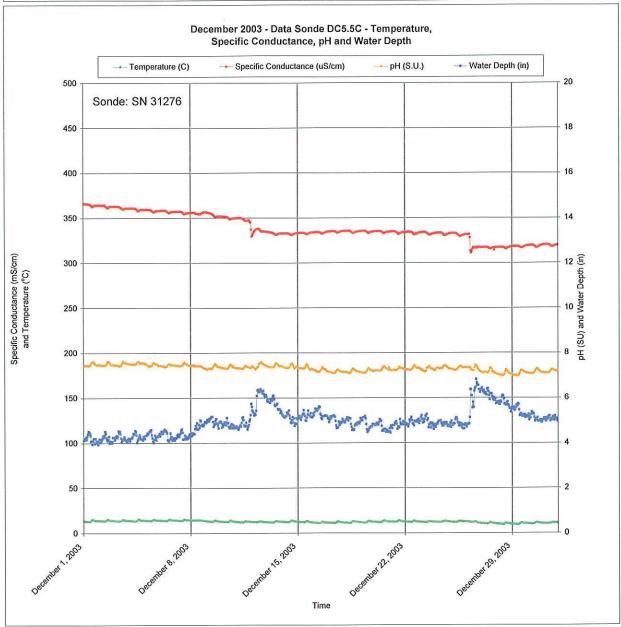


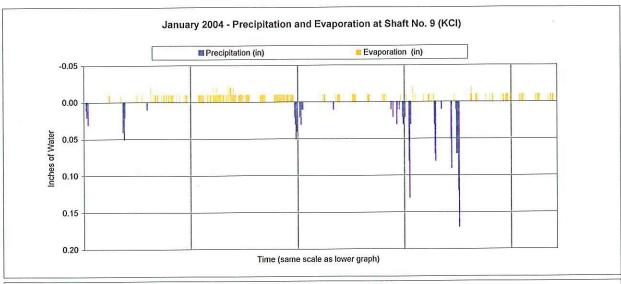


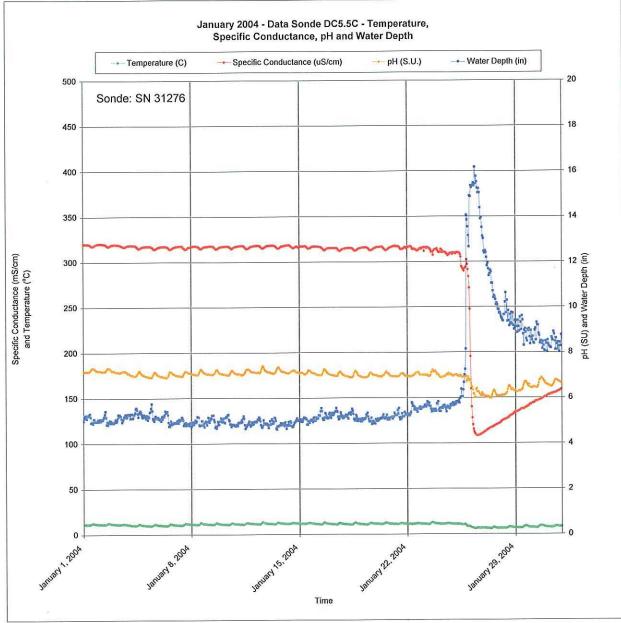


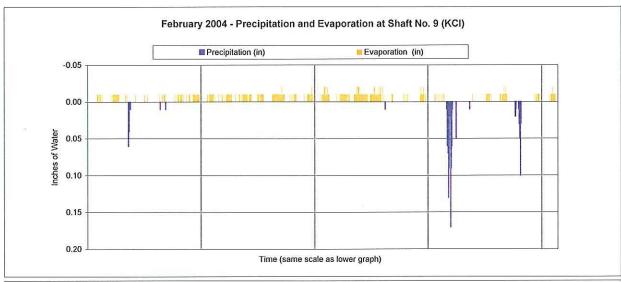


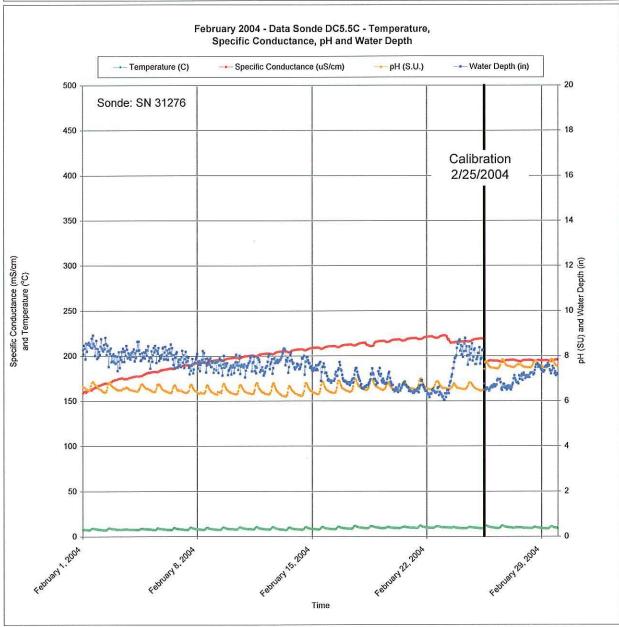


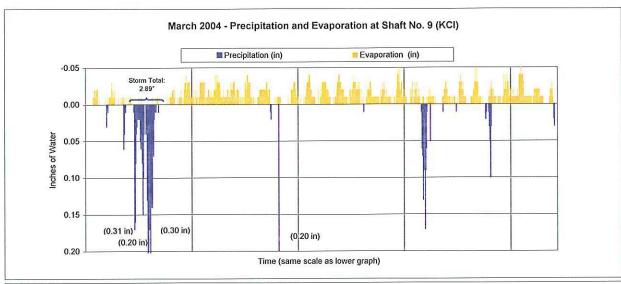


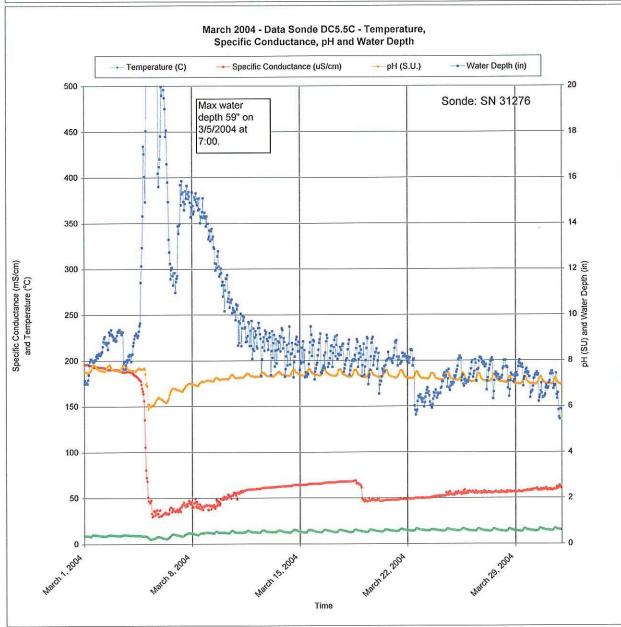


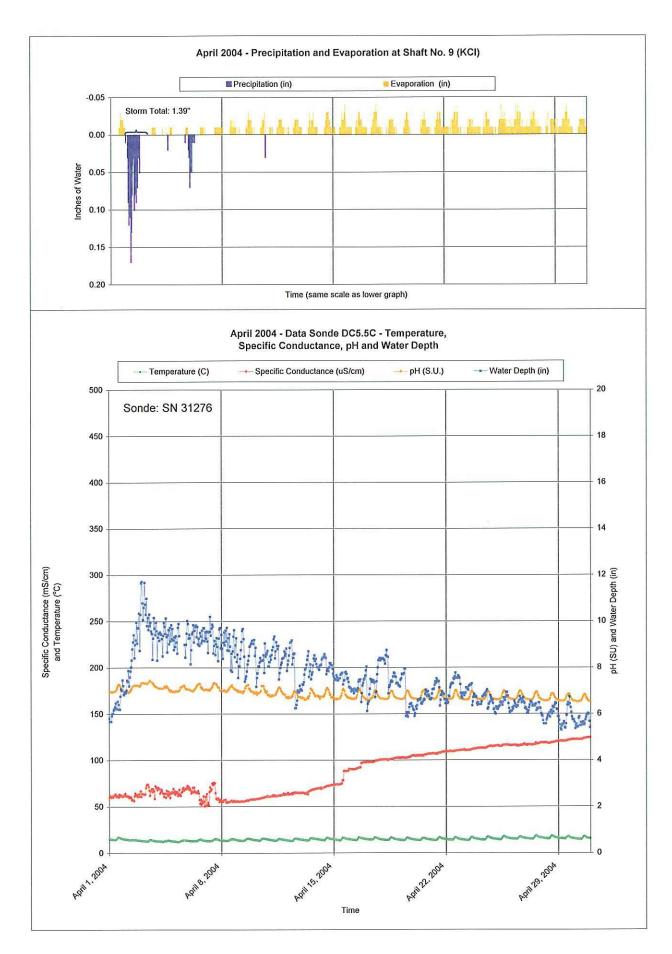


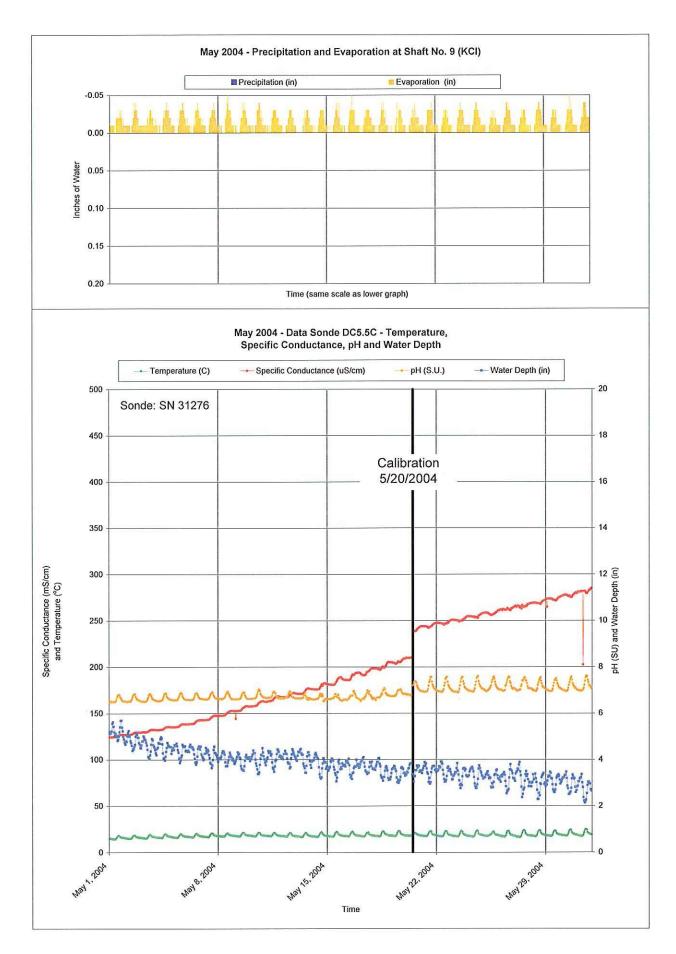


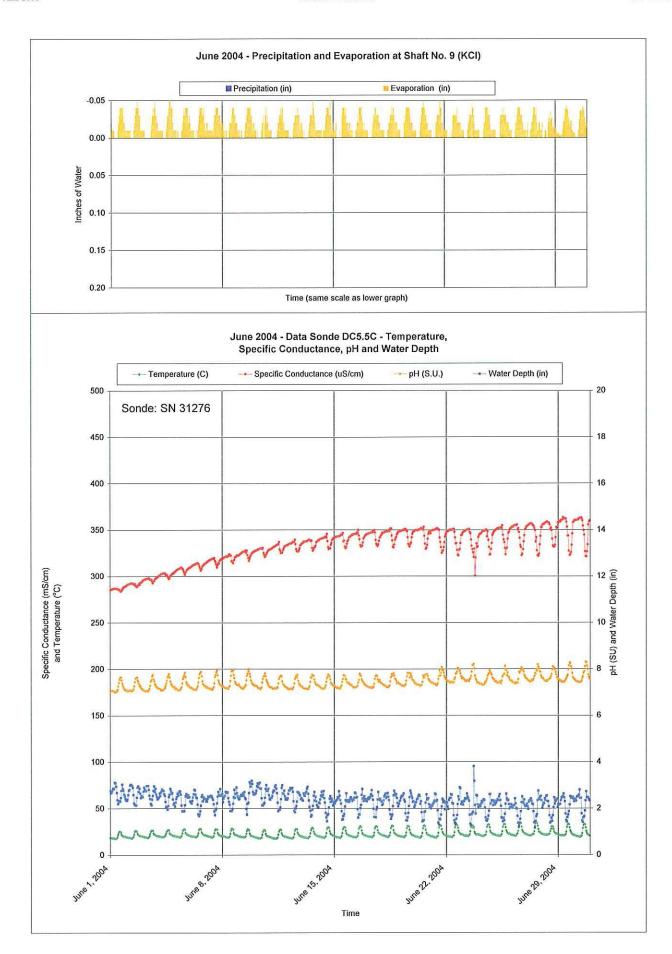


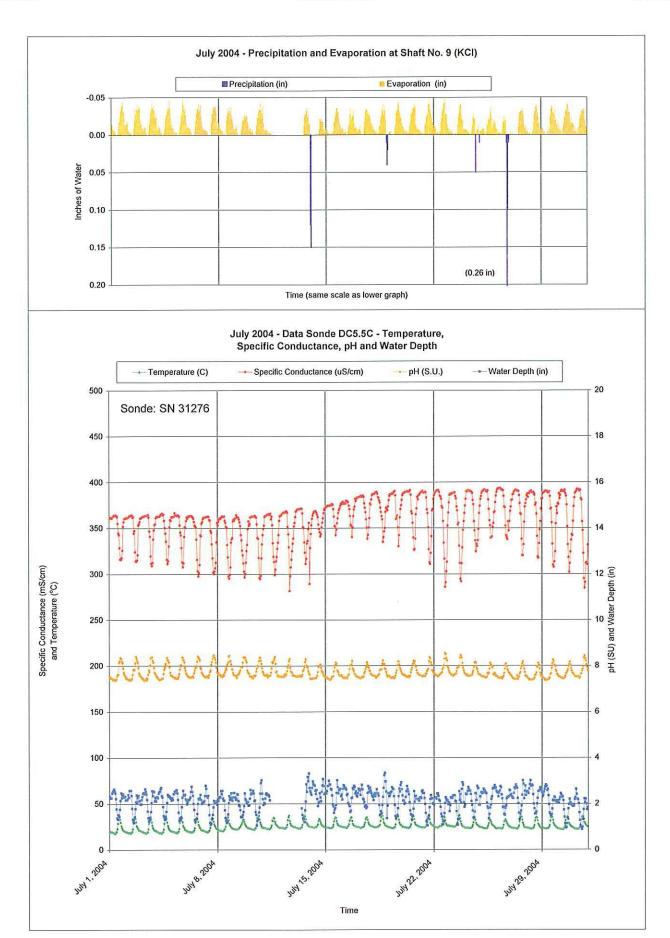


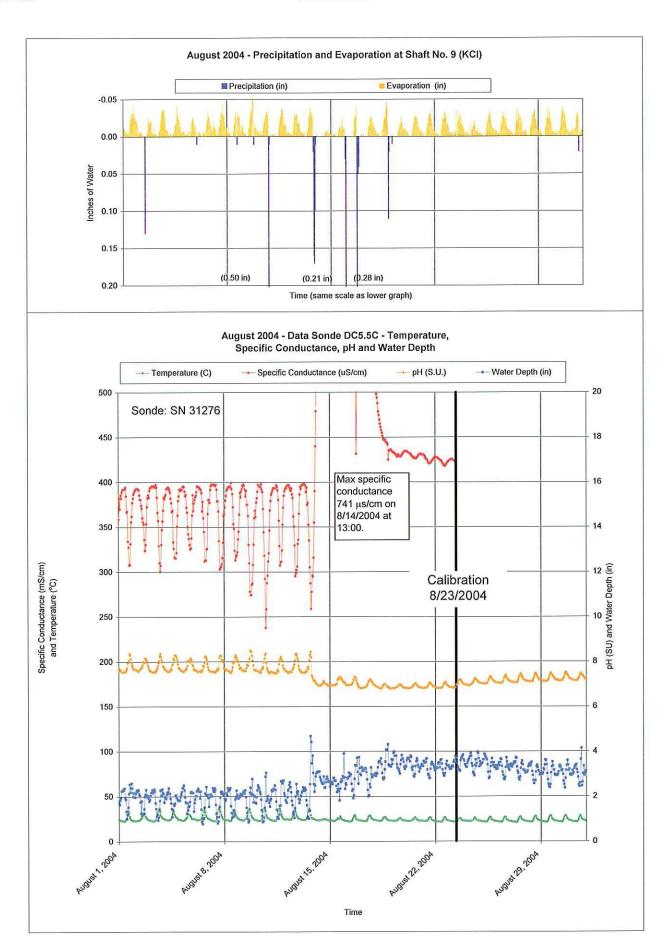


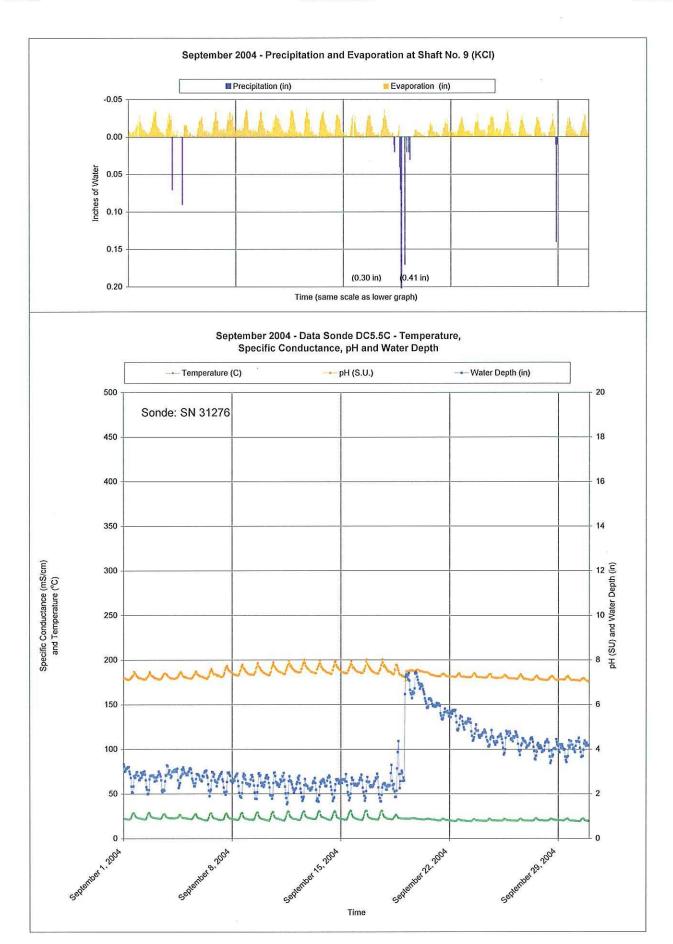


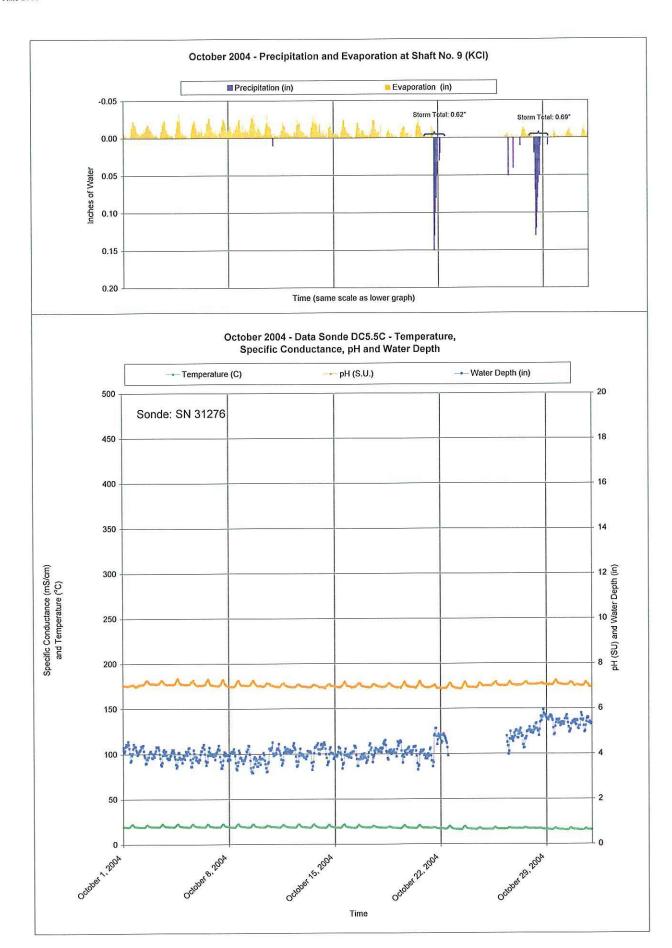


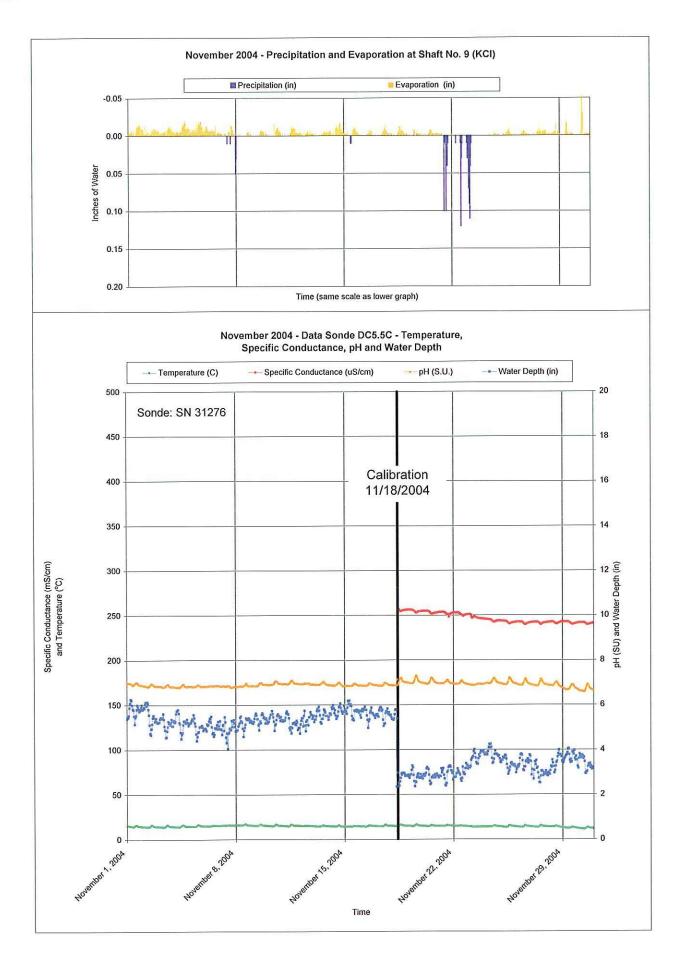


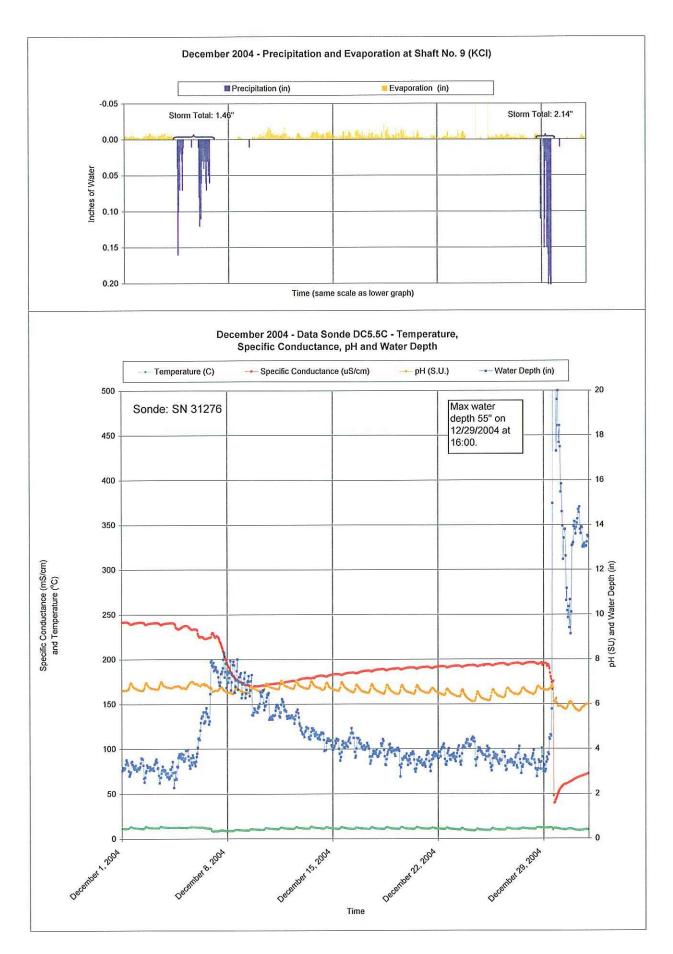


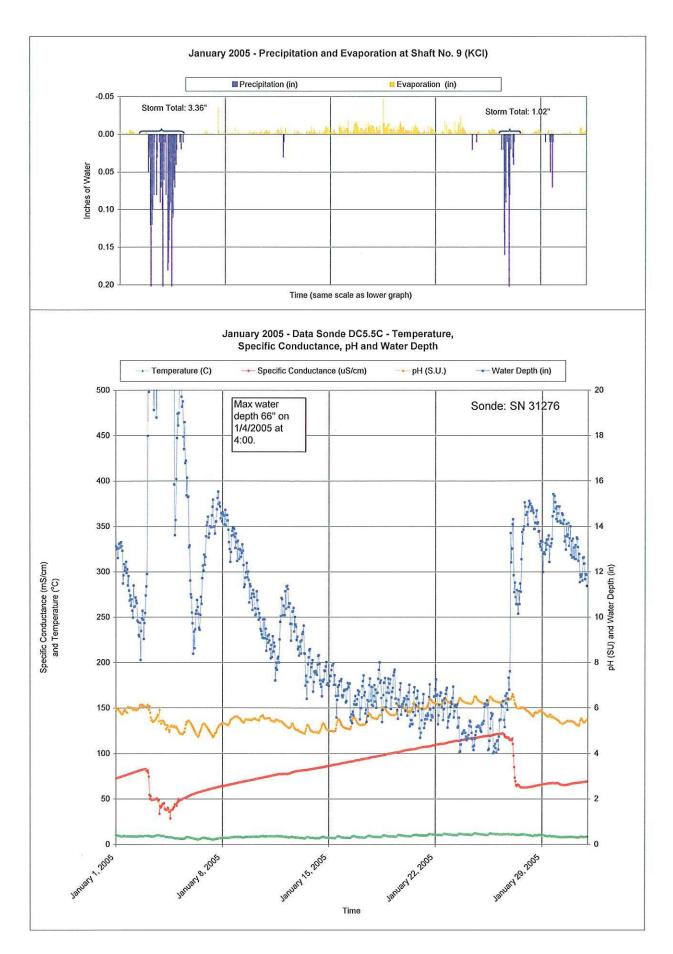


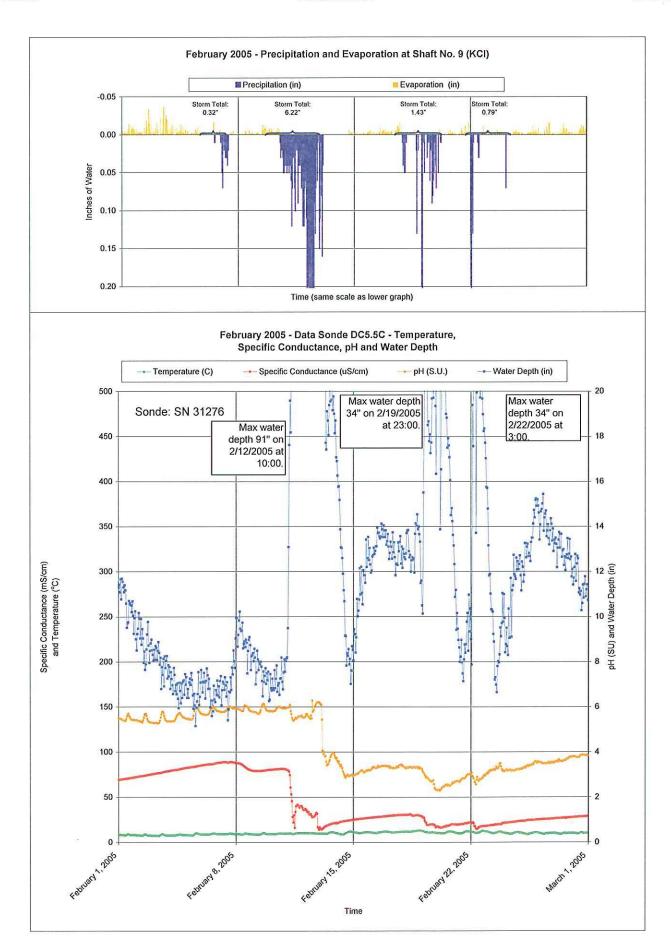


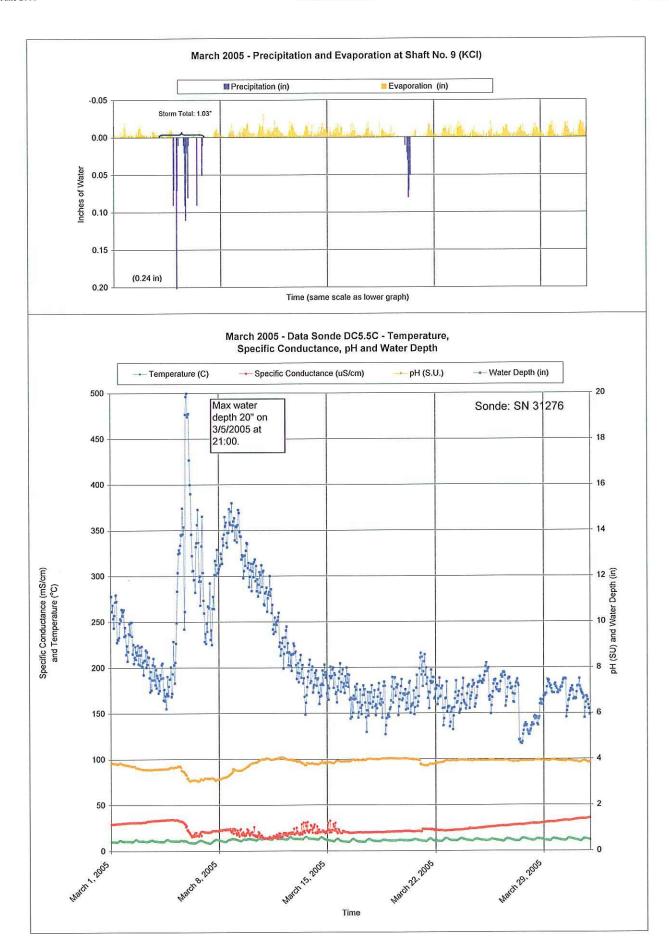


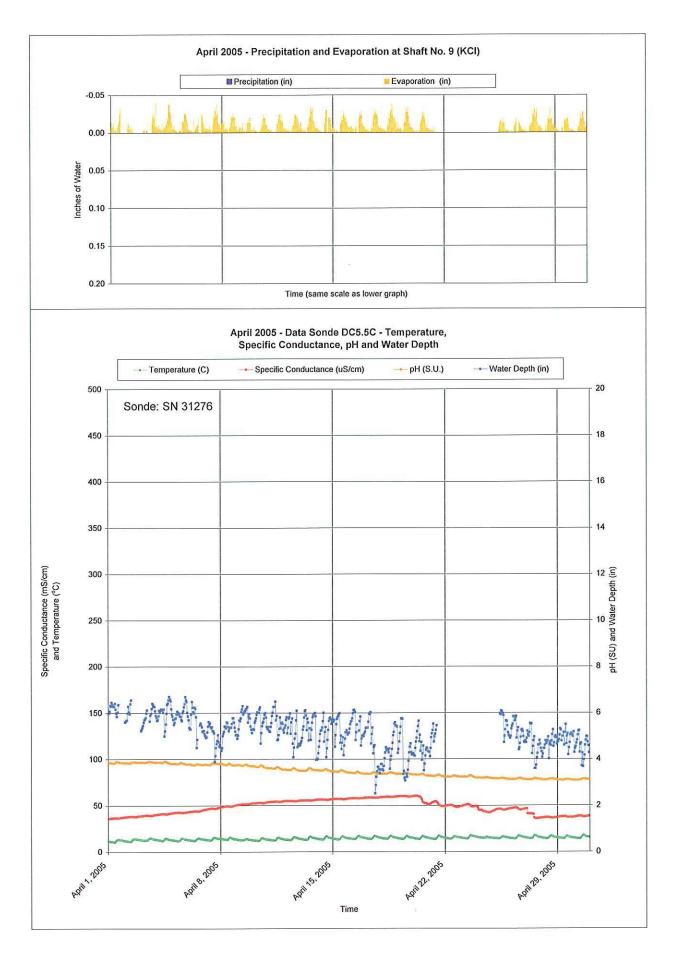


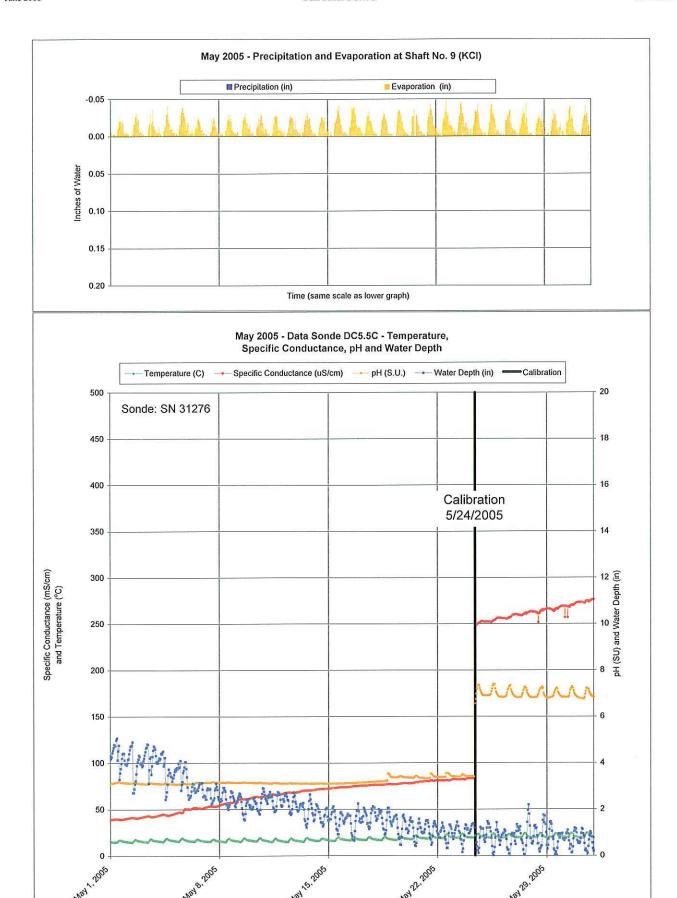




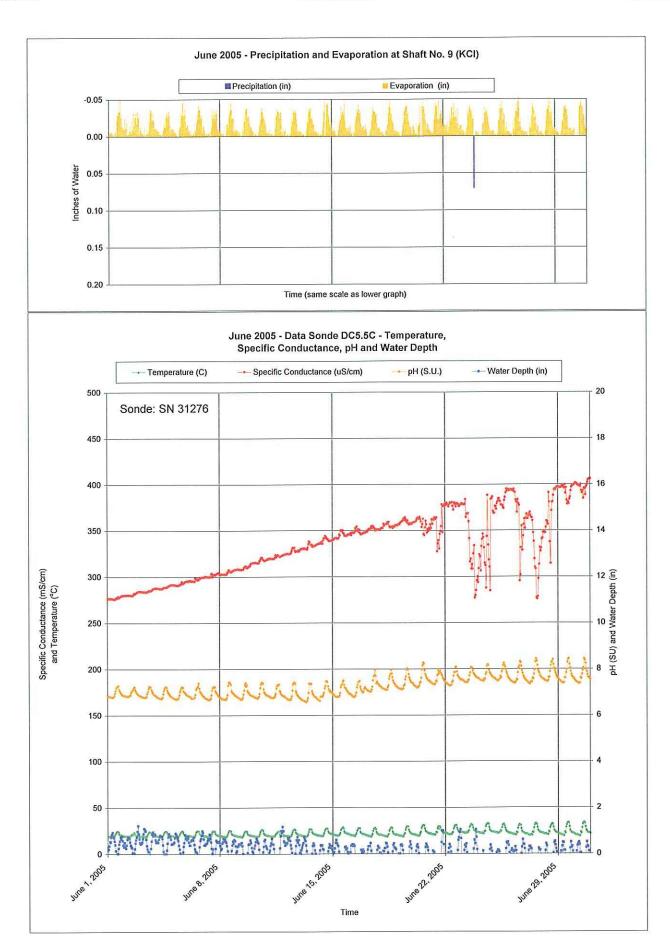


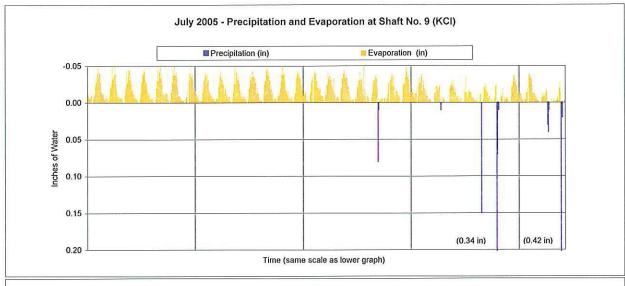


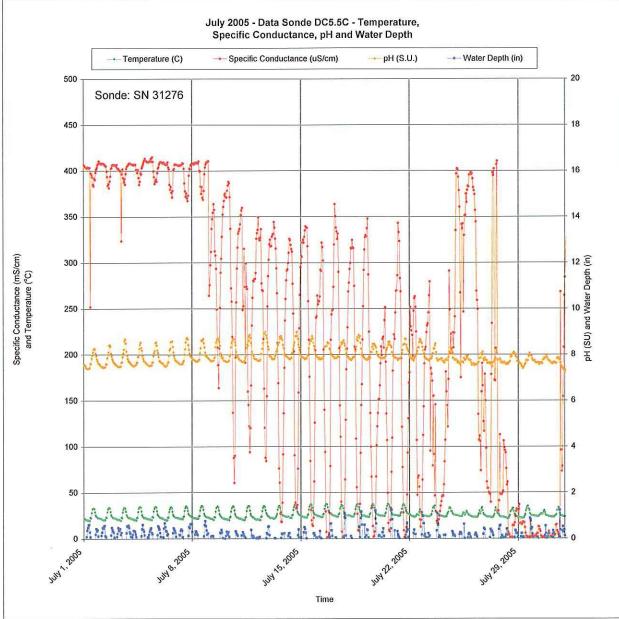


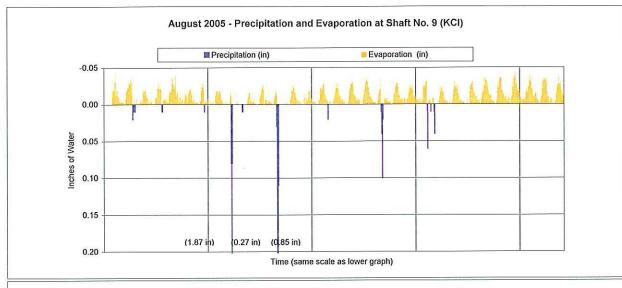


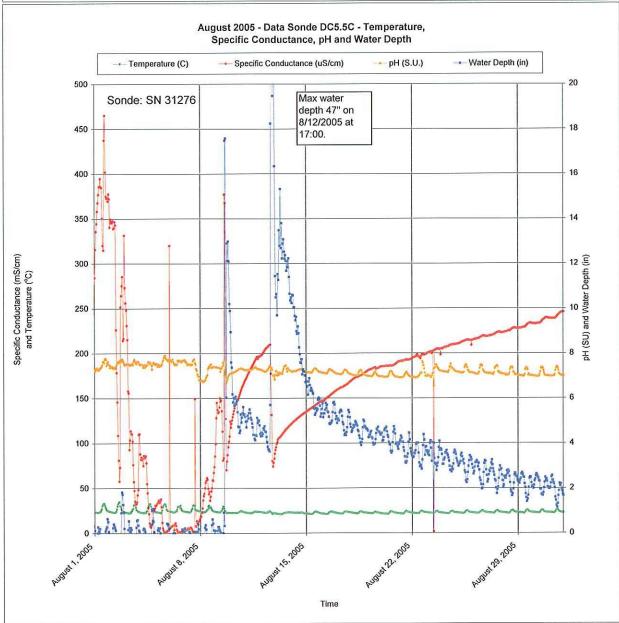
Time

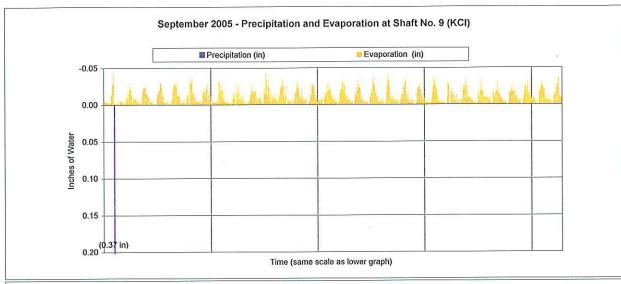


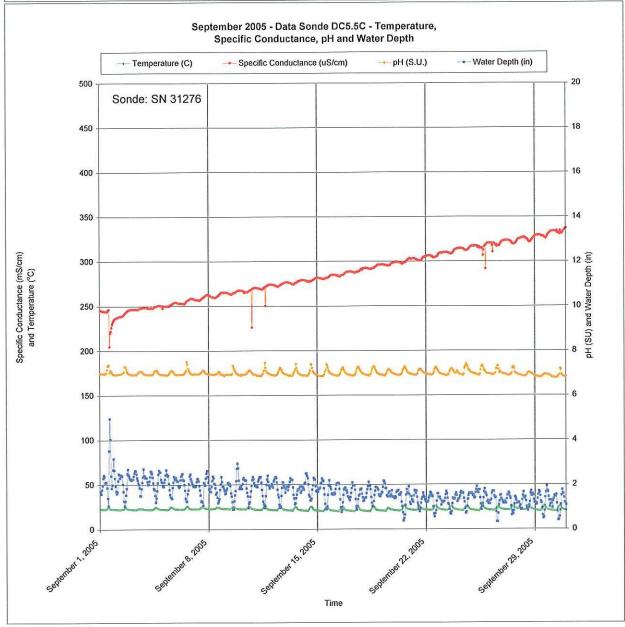


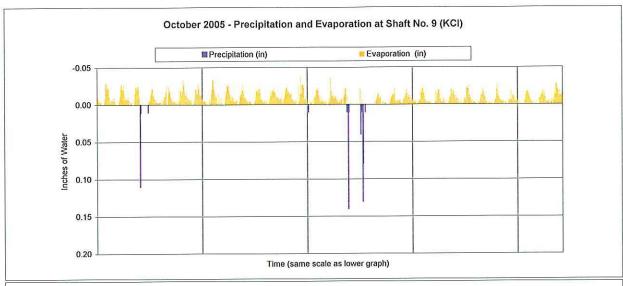


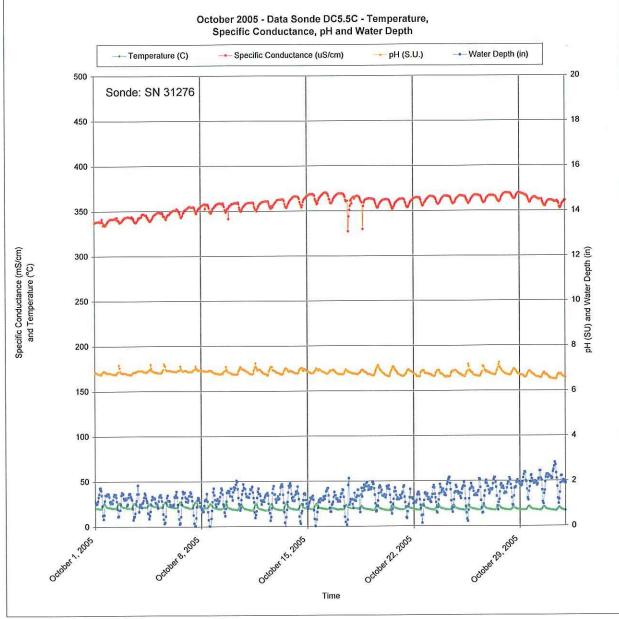


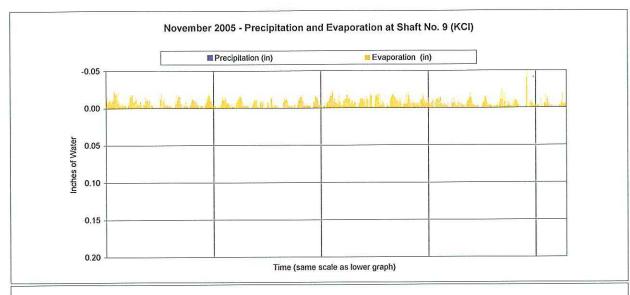


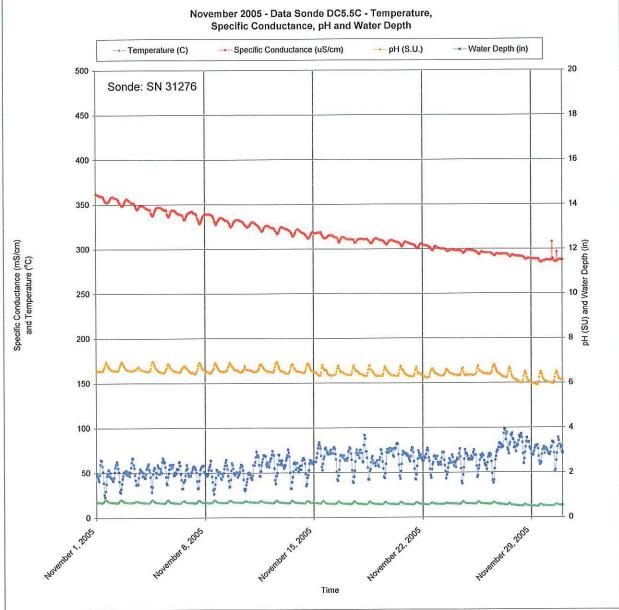


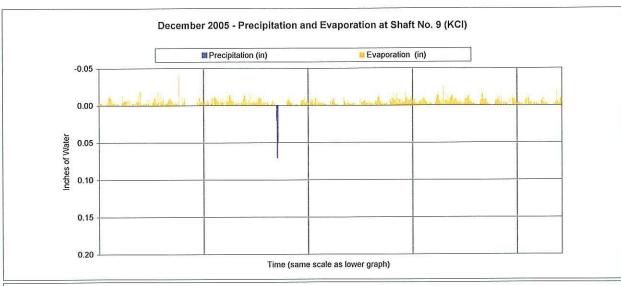


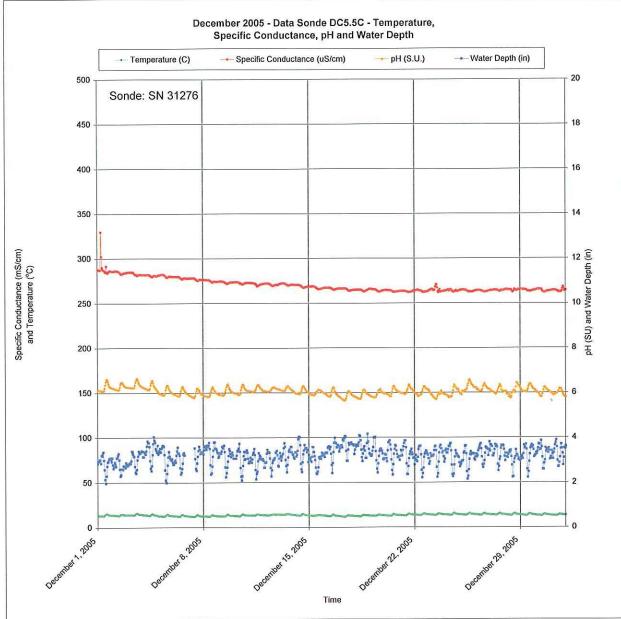


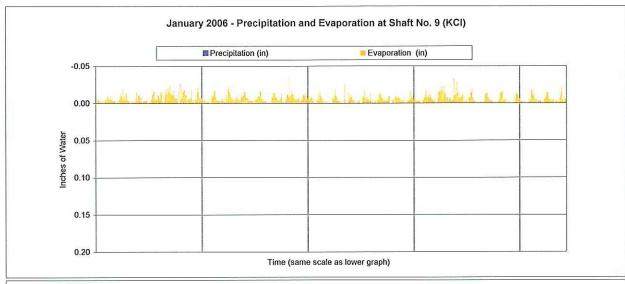


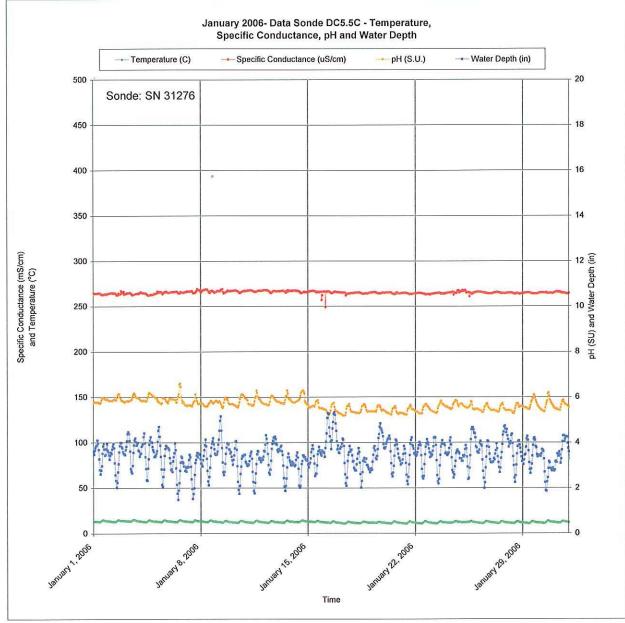


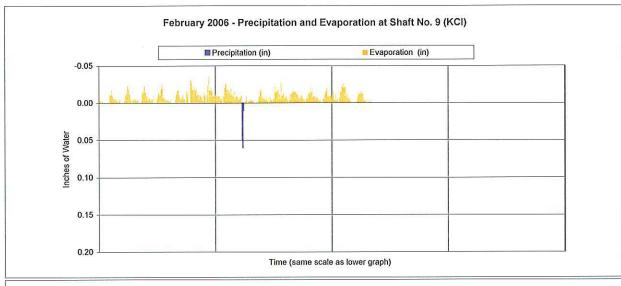


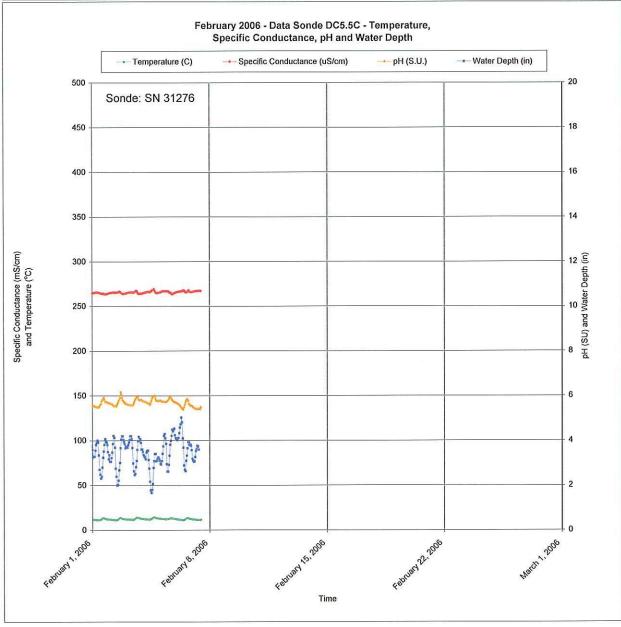












DATA SONDE SUMMARY													
Location	Probe Serial Number	Start of Monitoring Period	End of Monitoring Period	Time of Background Reading	Background PSI	Background	Correction Factor Applied to KC1 Readings	Water Level	Temperature	Specific Conductance	рН	Turbidity	Comments
DC5.5C	SN 31276	10/22/2003	11/10/2003	10/22/2003 12:00	13.245	12.750	0.495	X	X	X	X		
	SN 31276	11/10/2003	2/25/2004	10/22/2003 12:00	13.245	12.750	0.495	X	X	X	X		
	SN 31276	2/25/2004	5/20/2004	10/22/2003 12:00	13.245	12.750	0.495	X	X	X	X		
	SN 31276	5/20/2004	8/23/2004	10/22/2003 12:00	13.245	12.750	0.495	X	X	X	X		
	SN 31276	8/23/2004	11/18/2004	10/22/2003 12:00	13.245	12.750	0.495	X	X		X		Conductivity probe does not collect data.
	SN 31276	11/18/2004	5/24/2005	11/18/2004 9:00	13.332	12.755	0.577	X	X	X	X		
	SN 31276	5/24/2005	2/7/2006	11/18/2004 9:00	13.332	12.755	0.577	X	X	X	X		
DC7.1C	SN 31263	9/3/2003	11/4/2003	9/3/2003 10:00	12.371	12.706	-0.335		X	X	X		
	SN 31263	11/4/2003	2/18/2004	9/3/2003 10:00	12.371	12.706	-0.335		X	X	X		
	SN 31263	2/18/2004	5/5/2004	9/3/2003 10:00	12.371	12.706	-0.335		X	X	X		
	SN 31258	5/5/2004	8/19/2004	8/19/2004 9:00	13.029	12.726	0.303	X	X	X	X		
	SN 31258	8/19/2004	11/12/2004	8/19/2004 9:00	13.029	12.726	0.303						
	SN 31258	11/12/2004	5/17/2005	11/12/2004 11:00	12.922	12.647	0.275	X	X	X	X		
	SN 31258	5/17/2005	9/7/2005	11/12/2004 11:00	12.922	12.647	0.275	X	X	X	X		
	SN 31258	9/7/2005	2/1/2006	11/12/2004 11:00	12.922	12.647	0.275	X	X	X	X		
Lower Transducer	SN 11836	7/24/2003	2/18/2004	7/24/2003 11:00	13.040	12.711	0.329	X					
	SN 11836	2/18/2004	8/19/2004	7/24/2003 11:00	13.040	12.711	0.329	X					
	SN 11836		11/12/2004	8/19/2004 9:00	12.842	12.726	0.116	X					
	SN 11836	11/12/2004	5/17/2005	8/19/2004 9:00	12.842	12.726	0.116	X					
	SN 11836	5/17/2005	9/7/2005	8/19/2004 9:00	12.842	12.726	0.116	X					
	SN 11836	9/7/2005	2/1/2006	8/19/2004 9:00	12.842	12.726	0.116	X					
Upper Transducer	SN 11782	7/24/2003	2/18/2004	7/24/2003 11:00	13.052	12.711	0.341	X					
	SN 11782	2/18/2004	8/19/2004	7/24/2003 11:00	13.052	12.711	0.341	X					
	SN 11782	8/19/2004	11/12/2004	8/19/2004 9:00	13.003	12.726	0.277	X					
	SN 11782	11/12/2004	5/17/2005	11/12/2004 11:00	12.911	12.647	0.264	X					
	SN 11782	5/17/2005	9/7/2005	11/12/2004 11:00	12.911	12.647	0.264	X					
	SN 11782	9/7/2005	2/1/2006	11/12/2004 11:00	12.911	12.647	0.264	X					
DC8.2W	SN 30888	7/17/2003	8/21/2003	7/16/2003 10:00	12.971	12.701	0.270	X	X	X	X		
	SN 30888 SN 31403	8/21/2003	11/12/2003	7/16/2003 10:00	12.971	12.701 12.701	0.270 0.278	X P	X P	X P	X P		Data sonde malfunctions mid January.
	SN 31403 SN 31403	11/12/2003 2/24/2004	2/24/2004 5/21/2004	11/12/2003 12:00 5/21/2004 10:00	12.979 12.963	12.701	0.278	X	X	X	X		Transducer level manually adjusted. Correction factor applied to all WLs.
	SN 31403	5/21/2004	6/24/2004	5/21/2004 10:00	12.963	12.701	0.262	X	X	X	X		Transducer level manually adjusted. Correction factor applied to all wes.
	SN 31263	6/24/2004	9/14/2004		12.903		0.202	P P	D D	P	P		Installed a vented transducer. No correction factor necessary. Data sonde malfunctions in late August.
	SN 31263	9/14/2004	11/16/2004					X	X	X	X		Flume starts leaking.
	SN 31263	11/16/2004	2/25/2005					X	X	X	X		Flume leaking.
DC8.8C	SN 30903	7/24/2003	8/21/2003				0.230*	X	X	X	X	X	
	SN 30903	8/21/2003	11/12/2003				0.230*	P	P	P	P	P	Data sonde malfunctions mid September.
	SN 31404	11/12/2003	2/17/2004	11/12/2003 10:00	12.567	12.716	-0.149	X	X	X	X		
	SN 31404	2/17/2004	2/24/2004	11/12/2003 10:00	12.567	12.716	-0.149	X	X	X	X		
	SN 31268	2/24/2004	5/21/2004	5/21/2004 10:00	12.927	12.677	0.250	X	X	X	X		***
	SN 31404	5/21/2004	8/25/2004	8/16/2004 8:00	12.97	12.736	0.234	P	P	P	P	P	Turbidity probe malfunctions beginning of June. Data sonde malfunctions mid July.
	SN 31404		9/8/2004	8/16/2004 8:00	12.97	12.736	0.234	X	X	X	X		
	SN 31268	9/8/2004	11/16/2004	11/16/2004 10:00	13.00	12.755	0.245	X	X	X	X		
	SN 31268	11/16/2004	5/11/2005	11/16/2004 10:00	13.00	12.755	0.245	P	P	P	P		Data sonde malfunctions end of April.
	SN 31404	5/11/2005	8/16/2005	11/16/2004 10:00	13.00	12.755	0.245	X	X	X	X	X	
	SN 31404	8/16/2005	2/1/2006	11/16/2004 10:00	13.00	12.755	0.245	X	X	X	X	P	Turbidity probe malfunctions beginning of October.
DC10.9C	SN 31271	9/18/2003	11/5/2003	11/5/2003 11:00	12.858	12.696	0.162	X	X	X			
	SN 31271	11/5/2003	2/11/2004	11/5/2003 11:00	12.858	12.696	0.162	X	X	X			
	SN 31271	2/11/2004	5/27/2004	11/5/2003 11:00	12.858	12.696	0.162	X	X	X			
	SN 31271	5/27/2004	8/11/2004	5/27/2004 9:00	12.856	12.696	0.160	X	X	X			
	SN 31271	8/11/2004	11/5/2004	8/11/2004 8:00	12.906	12.711	0.195	X	X	X			
	SN 31271	11/5/2004	5/9/2005	8/11/2004 8:00	12.906	12.711	0.195	X	X	X			
	SN 31271	5/9/2005	9/30/2005	5/11/2005 10:00	12.82	12.637	0.183	P	P	P			Data sonde malfunctions early August.
	SN 31271	9/30/2005	1/26/2006	5/11/2005 10:00	12.82	12.637	0.183	X	X	X			
DC13.5C	SN 30906	5/8/2003	8/27/2003	8/27/2003 12:00	12.822	12.716	0.106	X	X	X			
	SN 30906	8/27/2003	9/18/2003	8/27/2003 12:00	12.822	12.716	0.106	X	X	X			***
	SN 30906	9/18/2003	11/5/2003	8/27/2003 12:00	12.822	12.716	0.106		X	X			
	SN 31258	11/5/2003	2/11/2004	11/5/2003 15:00	12.749	12.672	0.077		X	X			
	SN 31258	2/11/2004	3/24/2004	11/5/2003 15:00	12.749	12.672	0.077		X	X			
	SN 31391	3/24/2004	5/26/2004	5/18/2006 8:00	12.785	12.701	0.084	X	X	X			
	SN 31391	5/26/2004	8/12/2004	5/18/2006 8:00	12.785	12.701	0.084	X	X	X			
	SN 31391	8/12/2004	11/5/2004	5/18/2006 8:00	12.785	12.701	0.084	X	X	X			
	SN 31391	11/5/2004	5/9/2005	5/18/2006 8:00	12.785	12.701	0.084	X	X	X			D. 1. 10 d. 1. A. d.
	SN 31391	5/9/2005	8/10/2005	5/18/2006 8:00	12.785	12.701	0.084	P	P	P			Data sonde malfunctions early August.
Note:	SN 31391	8/10/2005	1/26/2006	5/18/2006 8:00	12.785	12.701	0.084	X	X	X			
vote.													

**Golder Associates**  $X: \label{thm:convergence} X: \label{thm:convergence} X: \label{thm:convergence} X: \label{thm:convergence} Y: \label{thm:convergence} Y: \label{thm:convergence} Y: \label{thm:convergence} Y: \label{thm:convergence} Y: \label{thm:convergence} Y: \label{thm:convergence} Y: \label{thm:convergence} Y: \label{thm:convergence} Y: \label{thm:convergence} Y: \label{thm:convergence} Y: \label{thm:convergence} Y: \label{thm:convergence} Y: \label{thm:convergence} Y: \label{thm:convergence} Y: \label{thm:convergence} Y: \label{thm:convergence} Y: \label{thm:convergence} Y: \label{thm:convergence} Y: \label{thm:convergence} Y: \label{thm:convergence} Y: \label{thm:convergence} Y: \label{thm:convergence} Y: \label{thm:convergence} Y: \label{thm:convergence} Y: \label{thm:convergence} Y: \label{thm:convergence} Y: \label{thm:convergence} Y: \label{thm:convergence} Y: \label{thm:convergence} Y: \label{thm:convergence} Y: \label{thm:convergence} Y: \label{thm:convergence} Y: \label{thm:convergence} Y: \label{thm:convergence} Y: \label{thm:convergence} Y: \label{thm:convergence} Y: \label{thm:convergence} Y: \label{thm:convergence} Y: \label{thm:convergence} Y: \label{thm:convergence} Y: \label{thm:convergence} Y: \label{thm:convergence} Y: \label{thm:convergence} Y: \label{thm:convergence} Y: \label{thm:convergence} Y: \label{thm:convergence} Y: \label{thm:convergence} Y: \label{thm:convergence} Y: \label{thm:convergence} Y: \label{thm:convergence} Y: \label{thm:convergence} Y: \label{thm:convergence} Y: \label{thm:convergence} Y: \label{thm:convergence} Y: \label{thm:convergence} Y: \label{thm:convergence} Y: \label{thm:convergence} Y: \label{thm:convergence} Y: \label{thm:convergence} Y: \label{thm:convergence} Y: \label{thm:convergence} Y: \label{thm:convergence} Y: \label{thm:convergence} Y: \label{thm:convergence} Y: \label{thm:convergence} Y: \label{thm:convergence} Y: \label{thm:convergence} Y: \label{thm:convergence} Y: \label{thm:convergence} Y: \label{thm:convergence} Y: \label{thm:convergence} Y: \label{thm:conve$ 

Note:
* Source of background reading unknown.