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DENISON MINES

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November 24, 2010

Mr. Rusty Lundberg
Co-Executive Secretary
Utah Water Quality Board
Utah Department of Environmental Quality
195 North 1950 West
P.O. Box 144810
Salt Lake City, UT 84114-4820

Re: Transmittal of 3rd Quarter 2010 Chloroform Monitoring Report
Groundwater Quality Discharge Permit UGW370004 White Mesa Uranium Mill

Dear Mr. Lundberg:

Enclosed are two copies of the White Mesa Uranium Mill Chloroform Monitoring Report for the 3rd Quarter of 2010 as required by the Groundwater Quality Discharge Permit UGW370004, as well as two CDs each containing a word searchable electronic copy of the report.

If you should have any questions regarding this report please contact me.

Yours very truly,

DENISON MINES (USA) CORP.
for Jo Ann Tischler
Director, Compliance and Permitting

CC: Ron F. Hochstein
David C. Frydenlund
Harold R. Roberts
David E. Turk
Kathy Weinel

White Mesa Uranium Mill

Chloroform Monitoring Report

State of Utah
Notice of Violation and Groundwater Corrective Action Order UDEQ
Docket No. UGQ-20-01

3rd Quarter
(July through September)
2010

Prepared by:

Denison Mines (USA) Corp.
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November 24, 2010

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1.0 INTRODUCTION

The presence of chloroform was initially identified in groundwater at the White Mesa Mill (the "Mill") as a result of split sampling performed in May 1999. The discovery resulted in the issuance of State of Utah Notice of Violation ("NOV") and Groundwater Corrective Action Order ("CAO") State of Utah Department of Environmental Quality ("UDEQ") Docket No. UGQ-20-01, which required that Denison Mines (USA) Corp. ("DUSA") submit a Contamination Investigation Plan and Report pursuant to the provisions of UAC R317-6-6.15(D).

The frequency of chloroform sampling, which was initially performed on a monthly basis, was modified on November 8, 2003. Since that time all chloroform contaminant investigation wells have been sampled on a quarterly basis.

This is the Quarterly Chloroform Monitoring Report for the third quarter of 2010 as required under the NOV and CAO. This Report also includes the Operations Report for the Long Term Pump Test at MW-4, TW4-19, TW4-15 (MW-26), TW4-20, and TW4-4 for the quarter.

2.0 CHLOROFORM MONITORING

2.1 Samples and Measurements Taken During the Quarter

A map showing the location of all groundwater monitoring wells, piezometers, existing wells, temporary chloroform contaminant investigation wells and temporary nitrate investigation wells is attached under Tab A. Chloroform samples and measurements taken during this reporting period (July through September), are discussed in the remainder of this section.

2.1.1 Chloroform Monitoring

Quarterly sampling for chloroform monitoring parameters is currently required in the following wells:

TW4-1	TW4-10	TW4-21
TW4-2	TW4-11	TW4-22
TW4-3	TW4-12	TW4-23
TW4-4	TW4-13	TW4-24
TW4-5	TW4-14	TW4-25
TW4-6	TW4-16	MW-4
TW4-7	TW4-18	MW-26 (TW4-15)
TW4-8	TW4-19	MW-32 (TW4-17)
TW4-9	TW4-20	TW4-26

Table 1 provides an overview of all wells sampled during the current period, along with the date samples were collected from each well, and the date(s) which analytical data were received from the contract laboratory. Table 1 also identifies equipment rinsate samples collected, as well as sample numbers associated with the deionized (DI) field blank and any required duplicates. Four wells (TW4-1, TW4-16, TW4-22, and TW4-24) were resampled during this period for all constituents due to turbidity issues.

As indicated in Table 1, chloroform monitoring was performed in all of the required chloroform monitoring wells.

2.1.2 Parameters Analyzed

Wells sampled during this reporting period were analyzed for the following constituents:

- Chloroform
- Chloromethane
- Carbon tetrachloride
- Methylene chloride
- Chloride
- Nitrate plus Nitrite as Nitrogen

Use of analytical methods is consistent with the requirements of the Chloroform Investigation Monitoring Quality Assurance Program (the "Chloroform QAP") attached as Appendix A to the White Mesa Uranium Mill Groundwater Monitoring Quality Assurance Plan ("QAP").

2.1.3 Groundwater Head Monitoring

Depth to groundwater was measured in the following wells and/or piezometers, pursuant to Part I.E.3 of the Groundwater Discharge Permit (the "GWDP"):

- The quarterly groundwater compliance monitoring wells.
- Existing monitoring well MW-4 and all of the temporary chloroform investigation wells.
- Piezometers – P-1, P-2, P-3, P-4 and P-5.
- MW-20 and MW-22.
- Nitrate monitoring wells.
- In addition to the above, depth to water measurements are routinely observed in conjunction with sampling events for all wells sampled during quarterly and accelerated efforts, regardless of the sampling purpose.

All well levels used for groundwater contour mapping were measured and recorded within 5 calendar days of each other as indicated by the measurement data in the summary sheet under Tab D.

In addition, weekly and monthly depth to groundwater measurements were taken in MW-4, TW4-15 (MW-26), TW4-19, TW4-20, and, commencing regularly on March 1, 2010 for TW4-4, as part of the long term pumping test for MW-4.

2.2 Sampling Methodology and Equipment and Decontamination Procedures

DUSA completed, and transmitted to UDEQ on May 25, 2006, a revised QAP for sampling under the Mill's GWDP. While the water sampling conducted for chloroform investigation purposes has conformed to the general principles set out in the QAP, some of the requirements in the QAP were not fully implemented prior to UDEQ's approval, for reasons set out in correspondence to UDEQ dated December 8, 2006. Subsequent to the delivery of the December 8, 2006 letter, DUSA discussed the issues brought forward in the letter with UDEQ and has received correspondence from UDEQ about those issues. In response to UDEQ's letter and subsequent discussions with UDEQ, DUSA has incorporated changes in chloroform Quality Assurance ("QA") procedures in the form of the Chloroform QAP, which is a separate Appendix A to the QAP. The Chloroform QAP describes the differing needs of the chloroform investigation program, and is an attachment to the GWDP QAP where QA requirements for the chloroform investigation are addressed. On June 20, 2009 the Chloroform QAP was modified to require that the quarterly chloroform reports include additional items specific to DUSA's ongoing pump testing and chloroform capture efforts.

The sampling methodology, equipment and decontamination procedures that were performed for the chloroform contaminant investigation, as summarized below, are consistent with the QAP and the Chloroform QAP.

2.2.1 Well Purging and Depth to Groundwater

A list of the wells in order of increasing chloroform contamination is generated quarterly. The order for purging is thus established. The list is included with the Field Data Worksheets under Tab B. Mill personnel start purging with all of the non-detect wells and then move to the more contaminated wells in order of chloroform contamination.

Before leaving the Mill office, the portable pump and hose are rinsed with DI water. Mill personnel then proceed to the first well which is the well with the lowest concentration of chloroform based on the previous quarter's sampling results. Well depth measurements are taken and the two casing volumes are calculated for those wells which do not have a dedicated pump (measurements are made using the same instrument used for the monitoring wells under the Mill's GWDP). If the well has a dedicated pump, it is pumped on a set schedule per the remediation plan and is considered sufficiently evacuated to immediately collect a sample; however, if a pumping well has been out of service for 48 hours or more, DUSA will follow the purging requirements outlined in Section 6.2.7(d)(v) of the QAP. The dedicated pump is used to collect parameters and to collect the samples. If the well does not have a dedicated pump, a Grundfos pump (9 - 10 gpm pump) is then lowered to the screened interval in the well and purging is started. The purge rate is established for the well by using a calibrated 5 gallon bucket. The purging of the well is completed per Section 6.2.5 of the QAP. In wells where the

portable pump is used, a disposable bailer is used to collect the samples the day following purging activities. After each use, the portable pump is decontaminated and a rinsate sample is collected prior to reuse at the next sample location. This purging process is repeated at each well location moving from least contaminated to the most contaminated well. All wells are capped and secured prior to leaving the sampling location.

2.2.2 Sample Collection

Samples are collected as described above. In all cases, on days when samples will be collected, a cooler with ice is prepared. The trip blank is also gathered at that time (the trip blank for these events is provided by the Analytical Laboratory). Once Mill Personnel arrive at the well sites, labels are filled out for the various samples to be collected. All personnel involved with the collection of water and samples are then outfitted with rubber gloves. Chloroform investigation samples are collected by means of disposable bailers.

Mill personnel use a disposable bailer to sample each well that does not have a dedicated pump. The bailer is attached to a reel of approximately 150 feet of nylon rope and then lowered into the well. After coming into contact with the water, the bailer is allowed to sink into the water in order to fill. Once full, the bailer is reeled up out of the well and the sample bottles are filled as follows:

- Volatile Organic Compound ("VOC") samples are collected first. This sample consists of three 40 ml vials provided by the Analytical Laboratory. The VOC sample is not filtered and is preserved with HCl;

- A sample for nitrate/nitrite is then collected. This sample consists of one 250 ml. bottle which is provided by the Analytical Laboratory. The nitrate/nitrite sample is also not filtered and is preserved with H2SO4;

- A sample for chloride is then collected. This sample consists of one 500 ml. bottle which is provided by the Analytical Laboratory. The chloride sample is also not filtered and is not chemically preserved.

After the samples have been collected for a particular well, the bailer is disposed of and the samples are placed into the cooler that contains ice. The well is then recapped and Mill personnel proceed to the next well.

2.3 Field Data

Attached under Tab B are copies of all Field Data Worksheets that were completed during the quarter for the chloroform contaminant investigation monitoring wells identified in paragraph 2.1.1 above, and Table 1.

2.4 Depth to Groundwater Data and Water Table Contour Map

Attached under Tab C are copies of the Depth to Water Sheets for the weekly monitoring of MW-4, TW4-15 (MW-26), TW4-19, TW4-20, and commencing regularly on March 1, 2010, TW4-4, as well as the monthly depth to groundwater data for chloroform contaminant investigation wells measured during the quarter that are not included in Tab D. Depth to groundwater measurements which were utilized for groundwater contours are included on the Quarterly Depth to Water Worksheet at Tab D of this report, along with the kriged groundwater contour map for the current quarter generated from this data. In review of the Quarterly Depth to Water Worksheet (which is not the field data sheet contemplated by the QAP) it was noted that the millimeters of mercury (MMHG) that is, the barometric pressure, was not recorded for the quarter. This measurement is not required by either the Permit or the QAP and as such there is no effect on the data collected and no corrective action is required. All of the water level measurements used for the contour map were collected within 5 days of each other as indicated by the measurement dates in the summary sheet under Tab D. A copy of the kriged groundwater contour map generated from the 2nd quarter 2010 data is provided under Tab E.

2.5 Laboratory Results

2.5.1 Copy of Laboratory Results

All analytical results were provided by Energy Laboratories ("EL"). Table 1 lists the dates when analytical results were reported to the QA Manager for each well or other sample.

Results from analysis of samples collected for the third quarter chloroform contaminant investigation are provided under Tab H of this Report. Also included under Tab H are the results of analyses for duplicate samples and rinsate samples for this sampling effort, as identified in Table 1, as well as results for trip blank analyses required by the Chloroform QAP.

2.5.2 Regulatory Framework

As discussed in Section 1.0, above, the NOV and requirements of the CAO triggered a series of actions on DUSA's part. In addition to the monitoring program, DUSA has equipped five wells with pumps to recover impacted groundwater, and has initiated recovery of chloroform from the perched zone. The fifth well, TW4-4, was installed in January 2010, and commenced pumping on January 31, 2010. It was not fully equipped for flow measurement until March 31, 2010, when pumping and groundwater capture flowrates and totals were first recorded.

Sections 4 and 5, below, interpret the groundwater level and flow information, contaminant analytical results, and pump test data to assess effectiveness of DUSA's chloroform capture program.

3.0 QUALITY ASSURANCE AND DATA VALIDATION

The QA Manager performed a QA/Quality Control ("QC") review to confirm compliance of the monitoring program with requirements of the QAP. As required in the QAP, data QA includes preparation and analysis of QC samples in the field, review of field procedures, an analyte completeness review, and QC review of laboratory methods and data. Identification of field QC samples collected and analyzed is provided in Section 3.1. Discussion of adherence to Mill sampling Standard Operating Procedures ("SOPs") is provided in Section 3.2. Analytical completeness review results are provided in Section 3.3. The steps and tests applied to check laboratory data QA/QC are discussed in Sections 3.4.4 through 3.4.9 below.

The analytical laboratory has provided summary reports of the analytical quality QA/QC measurements necessary to maintain conformance with National Environmental Laboratory Accreditation Conference ("NELAC") certification and reporting protocol. The Analytical Laboratory QA/QC Summary Reports, including copies of the Mill's Chain of Custody and Analytical Request Record forms for each set of Analytical Results, follow the analytical results under Tab H. Results of review of the laboratory QA/QC information are provided under Tab I and are discussed in Section 3.4, below.

3.1 Field QC Samples

The following QC samples were generated by Mill personnel and submitted to the analytical laboratory in order to assess the quality of data resulting from the field sampling program.

Field QC samples for the chloroform investigation program consist of one field duplicate sample for each 20 samples, a trip blank for each shipped cooler which contains VOCs, one DI Field Blank (DIFB) and rinsate samples.

During the third quarter of 2010, two duplicate samples were collected as indicated in Table 1. The duplicates were sent blind to the analytical laboratory and analyzed for the same parameters as the chloroform wells.

Three trip blanks were provided by Energy Laboratories and returned with the quarterly chloroform monitoring samples.

Rinsate samples were also collected between well samples where nondedicated purging equipment was used. Rinsate samples were labeled with the name of the subsequently purged well with a terminal letter "R" added (e.g. TW4-7R). The results of these analyses are included with the routine analyses under Tab H.

In addition, one DIFB, while not required by the Chloroform QAP, was collected and analyzed for the same constituents as the well samples and rinsate samples.

3.2 Adherence to Mill Sampling SOPs

On a review of adherence by Mill personnel to the existing sampling SOPs, the QA Manager observed that QA/QC requirements established in the QAP and Chloroform QAP were being adhered to and that the SOPs were implemented, except as described below.

One site procedure requiring clarification was noted during the QA Manager's review of the field data. As previously stated, a list of the wells in order of increasing chloroform contamination (based on the previous quarter's data) is generated quarterly to determine the order for purging prior to sampling. The QAP wording implies that the samples will be collected in the same order. Chloroform wells are purged in order of least contaminated to most contaminated to preclude cross-contamination. Sampling order may deviate slightly from the generated list. This deviation does not affect the samples for 2 reasons: 1) the continuously pumped wells have dedicated pumps and cross-contamination is not possible; 2) wells are sampled with disposable bailers and cross-contamination resulting from the sampling process is not possible. This deviation does not affect the quality or usability of the data as there is no increase in cross-contamination resulting from sampling order. DUSA intends to propose an amendment to address this in the next revision of the QAP.

3.3 Analyte Completeness Review

All analyses required by the GWDP for chloroform monitoring for the period were performed.

3.4 Data Validation

The QAP and GWDP identify the data validation steps and data QC checks required for the chloroform monitoring program. Consistent with these requirements, the QA Manager performed the following evaluations: a field data QA/QC evaluation, a holding time check, a receipt temperature check, an analytical method check, a reporting limit evaluation, a trip blank check, a QA/QC evaluation of sample duplicates, a QC Control Limit check for Analyses and blanks including the DIFB and a rinsate sample check. Each evaluation is discussed in the following sections. Data check tables indicating the results of each test are provided under Tab I.

3.4.1 Field Data QA/QC Evaluation

The QA Manager performs a review of all field recorded parameters to assess their adherence with QAP requirements. The assessment involved review of two sources of information: the Field Data Sheets and the Quarterly Depth to Water summary sheet. Review of the Field Data Sheets addresses well purging volumes and stability of five parameters: conductance, pH, temperature, redox potential, and turbidity. Review of the Depth to Water data confirms that all depth measurements used for development of groundwater contour maps were conducted within a five-day period as indicated by the

measurement dates in the summary sheet under Tab D. The results of this quarter's review of field data are provided under Tab I.

Based upon this review, all non-pumping wells conformed to the QAP requirement to evacuate two well casing volumes before sampling except TW4-2, TW4-7, TW4-14, and TW4-26. All of these wells were pumped to dryness before two casing volumes were evacuated. In each case, representative samples of formation water were collected after the wells were allowed to recover. In addition, TW4-1, TW4-6, TW4-10, and TW4-13 were pumped to dryness after 2 casing volumes were evacuated.

During review of the field data sheets, it was observed that sampling personnel consistently recorded depth to water to the nearest 0.01 foot.

All field parameters for all wells were within the required Relative Percent Difference ("RPD") (other than the wells that were pumped to dryness and the wells which are continually pumped, for which this requirement does not apply), except as follows.

The review of the field sheets for compliance with QAP requirements resulted in the observations noted below. The requirements in Section 6.2.7 of the QAP specifically state that field parameters must have stabilized to within 10% over at least 2 consecutive measurements. The QAP states that turbidity should be less than 5 Nephelometric Turbidity Units ("NTU") prior to sampling unless the well is characterized by water that has a higher turbidity. The QAP does not require that turbidity measurements be less than 5 NTU prior to sampling. As such, the noted observations regarding turbidity measurements less than 5 NTU below are included for information purposes only.

Six wells did not meet the requirement for the stabilization of turbidity within 10% RPD. TW4-2, TW4-6, TW4-10, TW4-14, and TW4-26 were purged to dryness prior to the achievement of stabilization for turbidity. TW4-19 is a continuously pumped well. As previously stated, the continuously pumped wells are excluded from the QAP goals and requirements because, if a well is continuously pumped, it is pumped on a set schedule per the remediation plan and is considered sufficiently evacuated to immediately collect a sample. For continuously pumped wells, the field parameters are therefore collected for information purposes only.

Twenty four turbidity measurements exceeded the QAP's 5 NTU goal. Of the 24 wells, seven wells were pumped to dryness and five are continuously pumped wells. The seven wells that are pumped to dryness and the five continuously pumped wells are excluded from the QAP goals.

DUSA's letter to DRC of March 26, 2010 discusses further why turbidity does not appear to be an appropriate parameter for assessing well stabilization. In response to DRC's subsequent correspondence dated June 1, 2010 and June 24, 2010, DUSA is currently implementing a groundwater monitoring well redevelopment program. The redevelopment program has reviewed the available turbidity data for the Chloroform wells and has developed a list of wells that have or will undergo redevelopment utilizing

several strategies. The redevelopment strategies include additional surging and bailing and overpumping as necessary. At the completion of the redevelopment program, DUSA will review the redevelopment data and summarize the status of the Chloroform wells. Redevelopment results will be discussed with DRC in an effort to come to a consensus regarding any additional redevelopment steps and/or future turbidity considerations for the Chloroform wells at the Mill site.

One other field parameter was outside of the QAP requirement for 10% stabilization criteria. The temperature measurement in TW4-10 had an RPD of 52.39% because TW4-10 was purged to dryness prior to the achievement of stabilization.

3.4.2 Holding Time Evaluation

QAP Table 1 identifies the method holding times for each suite of parameters. Sample holding time checks are provided in Tab I. All samples were received and analyzed within the required holding time.

3.4.3 Receipt Temperature Evaluation

Chain of Custody sheets were reviewed to confirm compliance with the QAP requirement which specifies that samples be received at 6°C or lower. Sample temperatures checks are provided in Tab I. All samples were received within the required temperature limit.

3.4.4 Analytical Method Checklist

All analytical methods reported by the laboratory were checked against the required methods enumerated in the Chloroform QAP. Analytical method checks are provided in Tab I. All methods were consistent with the requirements of the Chloroform QAP.

3.4.5 Reporting Limit Evaluation

All analytical method reporting limits reported by the laboratory were checked against the reporting limits enumerated in the Chloroform QAP. Reporting Limit Checks are provided under Tab I. All analytes were measured and reported to the required reporting limits, except 26 sets of sample results (25 wells, and 1 duplicate) had the reporting limit raised for at least one analyte due to matrix interference and/or sample dilution. In all cases the reported value for the analyte was higher than the increased detection limit.

3.4.6 Trip Blank Evaluation

All trip blank results were reviewed to identify any VOC contamination resulting from transport of the samples. Trip blank checks are provided in Tab I. All trip blank results were less than detection level for all VOC analytes.

3.4.7 QA/QC Evaluation for Sample Duplicates

Section 9.1.4 a) of the QAP states that RPDs will be calculated for the comparison of duplicate and original field samples. The QAP acceptance limits for RPDs between the duplicate and original field sample is less than or equal to 20% unless the measured results (described as activities in the QAP) are less than 5 times the required detection limit. This standard is based on the EPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, February 1994, 9240.1-05-01 as cited in the QAP. The RPDs are calculated for all duplicate pairs for all analytes regardless of whether or not the reported concentrations are greater than 5 times the required detection limits; however, data will be considered noncompliant only when the results are greater than 5 times the reported detection limit and the RPD is greater than 20%. The additional duplicate information is provided for information purposes.

All analytical results except for carbon tetrachloride and chloroform in sample/duplicate pair TW4-21/TW4-65 were within the 20% RPD acceptance limits. The chloroform result is compliant with the QAP because the reporting limit for that analyte in that sample was raised to 100 ug/L and both results are not greater than 5 times the reporting limit. The RPD is included for information purposes only. The carbon tetrachloride results are both greater than 5 times the reporting limit. The data are, however, within the acceptable allowable error limits of the methods and as such do not affect the usability of the data. Results of the RPD test are provided in Tab I.

3.4.8 Rinsate Sample Check

Rinsate sample checks are provided in Tab I.

<u>Chloroform</u>

A review of the analytical results reported for rinsate samples indicated that five rinsate samples contained chloroform. The rinsate sample chloroform levels ranged from 1.1 to 8.2 ug/L. A DIFB was analyzed and was reported as nondetect.

A comparison of the rinsate concentration levels to the QAP requirements – that rinsate sample concentrations of the sampling equipment be one order of magnitude lower than that of the actual well – indicated that all five of the samples met these criteria for chloroform. This criterion however, is inappropriate for the rinsate sample data collected during the chloroform sampling program because rinsate samples are collected from the decontaminated portable pump used for well purging, and the pump is not used for sample collection. As stated in Section 2.2.1, wells that do not have a dedicated pump are purged using a portable pump. In wells where the portable pump is used for purging, a disposable bailer is used to collect the samples the day following purging activities.

Rinsate samples collected from the portable pump may be indicative of possible cross-contamination resulting from pump usage during the purging process under the Mill's sampling program the rinsate blank sample results are not directly applicable to the sample results due to the use of different equipment (disposable bailers) for the sample

collection. The pump used for purging does not come into contact with the samples at any time during the sample collection process. Any chloroform left in the well from pump cross-contamination is reduced or negated by the influx of formation water into the well in the time after purging and prior to sampling. Because samples are collected the day following purging and using different equipment the cross-contamination resulting from the pump use or decontamination fluids is not applicable to the sample results because the pump does not contact the samples. As noted in previous reports, an investigation into the source of the chloroform and nitrate contamination present in the rinsate blanks has been ongoing. Below are the results of the source investigations, and corrective actions are detailed in Section 6.2.

As previously stated, chloroform has been present in the rinsate blanks in previous quarters. Based on the investigation into the source of chloroform, DUSA believes that the potential source for the chloroform present in the rinsate blanks may have been identified. The data collected during the source investigations are as follows:

- Review of the chloroform detections has shown that there is no correlation between the rinsate blank concentrations and the sample concentrations in the wells sampled prior to or subsequent to a rinsate blank sample (*Chloroform Monitoring Report 2nd Quarter 2010, August 30, 2010*).
- Chloroform is occasionally present in the DIFB, but the concentrations are not consistent, and the presence of chloroform in the DIFB is also not consistent.
- Chloroform presence in the rinsate blanks is higher, both in the number of rinsate blank samples with chloroform as well as the concentrations themselves, on days of high usage of the DI water system.
- It is known from EPA studies that chloroform is frequently a byproduct of the chlorination process in potable water supplies.

Based on these findings, DUSA believes the chloroform contamination in the DI water is most likely the result of chlorination of the intake water used for the DI system. There are multiple sources which cite the creation of chloroform as a byproduct of chlorination, and two of them are: (*EPA – Basic Information about Disinfection Byproducts in Drinking Water: Total Trihalomethanes, Haloacetic Acids, Bromate and Chlorite* and *Water Research Net etc.*). For convenience, the two sources cited herein are attached as Tab N to this report. The chloroform is most likely the result of the chlorination of the potable water at the Mill which is subsequently fed to the DI system. The water is free of chloroform prior to chlorination, as it is tested by the Utah Department of Health, Division of Epidemiology and Laboratory Services on a routine basis. The chlorine added reacts with the naturally occurring organic and inorganic materials in the water.

The DI system is designed to remove the chloroform; however, due to the large volume of DI water processed through the system during the chloroform sampling events (e.g. 1050 gallons on the first day of sampling third quarter 2010) to accommodate the decontamination needs, breakthrough appears to occur under heavy usage when the system is "stressed". Removal of chloroform and other organics is accomplished by the "activated carbon" portion of the DI system. The performance of this portion of the DI

system is directly proportional to the volume of water treated and, due to the large volumes of water treated in a short time, the system becomes "stressed" and performance decreases resulting in chloroform "breakthrough". This is supported by the chloroform data for the rinsate blanks for second quarter 2010 as well as the rinsate data from this sampling period. In the second quarter 2010, the chloroform concentrations in the rinsate blanks increased from the beginning of the sampling event to the end. Also in second quarter 2010 there were rinsate blanks with detections associated with samples that were nondetect. In the third quarter 2010, the rinsate blanks collected at the beginning of the period had no chloroform, however; later in the sampling program there were chloroform detections in the rinsate blanks – the result of the DI system breakthrough. Lastly, breakthrough is suspected as the pH of the rinsate blanks changes over the course of the sampling period indicating a change in the overall system operation.

Corrective actions and verification actions are described in Section 6.2.

Nitrate

In addition, six rinsate samples had reported low level concentrations of nitrate. A DIFB was analyzed and was reported as nondetect for nitrate. A comparison of the rinsate sample concentration levels to the QAP requirements – that rinsate sample concentrations be one order of magnitude lower than that of the actual well – indicated that one sample did not meet this criterion. In this case the rinsate sample reported detections and the subsequent sample results were nondetect. As previously stated, the criteria to compare the rinsate sample results to the well sample results are inappropriate for the rinsate sample data collected during the chloroform investigation for the reasons stated above.

The nitrate levels reported in the rinsate samples for this investigation are similar to the nitrate rinsate sample concentrations reported for the previous nitrate sampling programs. Data collected for this ongoing investigation are as follows:

- The nitrate concentrations in the rinsate samples from both the chloroform sampling program and the nitrate sampling program are just at or slightly above the detection limit and are not dependent on or affected by the previous sample concentrations.
- The presence of nitrate in both the chloroform and nitrate sampling programs indicates that the contamination is due to external factors such as the nitric acid rinse during the decontamination process and potential contamination issues associated with the use of nitrile gloves in the presence of nitric acid.
- Nitrate was detected in a minimum of samples collected for the third quarter 2010 nitrate sampling program.

The introduction of chloroform into the DI system is suspected of contributing to the chloroform in the rinsate blank samples due to the large volumes of water treated in a short time to accommodate the decontamination needs. It appears as if the contamination in the rinsate blanks is not due to cross-contamination from the purging process. The investigation into the nitrate in the rinsate blanks is continuing, with additional focus on

the nitrile glove usage in the presence of nitric acid as well as the rinsate collection process. Nitric acid introduced during the decontamination process is the single highest possible source of nitrate ions. However, there may be some contribution of nitrate from the decontamination process and/or the nitrile gloves. To address these issues, the decontamination process and rinsate collection process are being reviewed to determine if the nitrile gloves in combination with the nitric acid wash used during the decontamination process are causing the nitrate detections in the rinsate blanks.

Corrective actions are described in Section 6.2.

3.4.9 Other Laboratory QA/QC

Section 9.2 of the QAP requires that the laboratory's QA/QC Manager check the following items in developing data reports: (1) sample preparation information is correct and complete, (2) analysis information is correct and complete, (3) appropriate analytical laboratory procedures are followed, (4) analytical results are correct and complete, (5) QC samples are within established control limits, (6) blanks are within QC limits, (7) special sample preparation and analytical requirements have been met, and (8) documentation is complete. In addition to other laboratory checks described above, DUSA's QA Manager rechecks QC samples and blanks (items (5) and (6)) to confirm that the percent recovery for spikes and the relative percent difference for spike duplicates are within the method-specified acceptance limits, or that the case narrative sufficiently explains any deviation from these limits. Results of this quantitative check are provided in Tab I.

All lab QA/QC results met these specified acceptance limits except as noted below.

The QAP Section 8.1.2 requires that an MS/MSD (referred to as Duplicate Spike [Matrix spike] in the QAP) pair be analyzed with each analytical batch. The QAP does not specify acceptance limits for the MS/MSD pair, and the QAP does not specify that the MS/MSD pair be prepared on DUSA samples only. Acceptance limits for MS/MSDs are set by the laboratories. The review of the information provided by the laboratories in the data packages verified that the QAP requirement to analyze an MS/MSD pair with each analytical batch was met. While the QAP does not require it, the recoveries were reviewed for compliance with the laboratory established acceptance limits. The QAP does not require this level of review, and the results of this review are provided for information only.

The information from the Laboratory QA/QC Summary Reports indicates that the MS/MSDs recoveries and the associated RPDs for all quarterly chloroform samples are within acceptable laboratory limits for all regulated compounds except as indicated in Tab I. The recoveries which are above the laboratory established acceptance limits do not affect the quality or usability of the data because the recoveries above the acceptance limits are indicative of matrix interference. The QAP requirement to analyze a MS/MSD pair with each analytical batch was met and as such the data are compliant with the QAP.

The QAP specifies that surrogate compounds shall be employed for all organic analyses, but the QAP does not specify acceptance limits for surrogate recoveries. The analytical data associated with the routine quarterly sampling met the requirement specified in the QAP. The information from the Laboratory QA/QC Summary Reports indicates that the surrogate recoveries for all quarterly chloroform samples were within acceptable laboratory limits for all surrogate compounds except as indicated in Tab I. The surrogate recoveries that were outside of acceptance limits above the upper limit or that had a high recovery, indicate a high bias to the individual sample results. A high bias means that reported results will tend to be more conservative or higher than actual levels. There was one reported surrogate result which was below the lower acceptance limits. These results indicate a potential low bias to the individual sample results only. There is no effect on the quality or usability of the data because there are multiple surrogates added to each sample and all other surrogates were within limits. Furthermore, there are no QAP requirements for surrogate recoveries.

The information from the Laboratory QA/QC Summary Reports indicates that the LCS recoveries were within acceptable laboratory limits for all LCS compounds except for chloromethane in one analytical batch. As indicated on Tab I, the LCS recoveries were above the upper acceptance limit and as such indicate a high bias to the sample results associated with that LCS. A high bias to the sample results is a more conservative approach to site assessment. It is important to note that there is no QAP requirement for LCS recovery assessment.

4.0 INTERPRETATION OF DATA

4.1 Interpretation of Groundwater Levels, Gradients and Flow Directions.

4.1.1 Current Site Groundwater Contour Map

As stated above, a listing of groundwater level readings for the current quarter (shown as depth to groundwater in feet) is included under Tab D. The data from this tab has been interpreted (kriged) and plotted in a water table contour map, provided under the same tab.

Also included under Tab D is a groundwater contour map of the Mill site and a more detailed map of a portion of the Mill site where the four chloroform pumping wells are located, in each case with hand-drawn stream tubes, depicting hydraulic capture from the pumping

The contour maps are based on the September 29, 2010 data for all wells.

4.1.2 Comparison of Current Groundwater Contour Maps to Groundwater Contour Map for Previous Quarter

The groundwater contour map for the Mill site for the second quarter of 2010, as submitted with the Chloroform Monitoring Report for the second quarter of 2010, is attached under Tab E.

A comparison of the water table contour maps for the third quarter of 2010 to the water table contour maps for the previous (second) quarter indicates similar patterns of drawdown related to pumping of MW-4, MW-26 (TW4-15), TW4-4, TW4-19 and TW4-20. Water levels and water level contours for the site have not changed significantly since the last quarter, except for a few locations. Pumping at TW4-4, which began in the first quarter of 2010, has depressed the water table near TW4-4, but does not yet appear to have measurably affected water levels at adjacent wells.

A reported decrease in water level of approximately 6 feet occurred in well TW4-21.
A reported decrease in water level of approximately 26 feet occurred in pumping well TW4-19, and a reported increase in water level of approximately 14 feet occurred in pumping well TW4-4. Water level changes at other pumping wells were less than 5 feet.

Water level fluctuations at pumping wells MW-4, MW-26 (TW4-15), TW4-4, TW4-19, and TW4-20 are due in part to fluctuations in pumping conditions just prior to and at the time the measurements are taken. The largest decrease (increase in drawdown) of approximately 26 feet occurred in well TW4-19 and the largest increase (decrease in drawdown), of approximately 14 feet, occurred at TW4-4.

4.1.3 Hydrographs

Attached under Tab F are hydrographs showing groundwater elevation in each chloroform contaminant investigation monitor well over time.

4.1.4 Depth to Groundwater Measured and Groundwater Elevation

Attached under Tab G are tables showing depth to groundwater measured and groundwater elevation over time for each of the wells listed in Section 2.1.1 above.

4.1.5 Evaluation of the Effectiveness of Hydraulic Capture

Perched water containing chloroform has been removed from the subsurface by pumping MW-4, MW-26 (TW4-15), TW4-4, TW4-19, and TW4-20. The primary purpose of the pumping is to reduce total chloroform mass in the perched zone as rapidly as is practical. Pumping wells upgradient of TW4-4 were chosen for pumping because 1) they are located in areas of the perched zone having relatively high permeability and saturated thickness, and 2) high concentrations of chloroform were detected at these locations. The relatively high transmissivity of the perched zone in the vicinity of these pumping wells results in the wells having a relatively high productivity. The combination of relatively high productivity and high chloroform concentrations allows a high rate of chloroform mass removal. TW4-4 is located in a downgradient area having relatively high chloroform concentrations but relatively small saturated thickness, and at a transition from relatively high to relatively low permeability conditions downgradient of TW4-4 as indicated by hydraulic testing of TW4-4, TW4-6, and TW4-26 during the third quarter. Pumping TW4-4 helps to reduce the rate of chloroform migration in this downgradient

portion of the plume and to mitigate the increase in chloroform concentrations downgradient of TW4-4 (for example, at TW4-6).

The impact of pumping is indicated by the water level contour maps attached under Tabs D and E. Cones of depression have developed in the vicinity of MW-4, MW-26 (TW4-15), TW4-19, and TW4-20 which continue to remove significant quantities of chloroform from the perched zone. The water level contour maps indicate that effective capture of water containing high chloroform concentrations in the vicinity of these pumping wells is occurring. Overall, the combined capture of MW-4, MW-26 (TW4-15), TW4-19, and TW4-20 has not changed significantly since the last quarter. As noted in Section 4.1.2, a decrease in water level (increase in drawdown) of approximately 26 feet occurred at TW4-19, and an increase in water level (decrease in drawdown) of approximately14 feet occurred at TW4-4. The increase in drawdown at TW4-19 has increased the apparent capture zone of this well relative to other nearby pumping wells. TW4-4 has apparently not been pumped long enough for a well-defined capture zone to develop.

Chloroform concentrations exceeding 70 μg/L exist at some locations downgradient of pumping wells (for example, at TW4-6, located immediately downgradient of TW4-4), where the lower permeability and relatively small saturated thickness of the perched zone significantly limits the rate at which chloroform mass can be removed by pumping. By removing mass and reducing hydraulic gradients, thereby reducing the rate of downgradient chloroform migration, and allowing natural attenuation to be more effective, pumping at the productive, upgradient locations has a beneficial effect on this downgradient chloroform. Pumping at TW4-4 was implemented during the first quarter of 2010 to improve capture in this downgradient area to the extent allowable by the lower productivity conditions presumed to exist in this area.

4.2 Review of Analytical Results

4.2.1 Current Chloroform Isoconcentration Map

Included under Tab J of this Report is a current chloroform isoconcentration map for the Mill site.

4.2.2 Chloroform Concentration Trend Data and Graphs

Attached under Tab K is a table summarizing values for all required parameters, chloride, nitrate/nitrite, carbon tetrachloride, chloroform, chloromethane, and methylene chloride, for each well over time.

Attached under Tab L are graphs showing chloroform concentration trends in each monitor well over time.

4.2.3 Interpretation of Analytical Data

Comparing the analytical results to those of the previous (second) quarter, as summarized in the table included under Tab K, the following observations can be made:

a) Chloroform concentrations have increased by more than 20% in the following wells compared to last quarter: TW4-7 and TW4-21;

b) Chloroform concentrations have decreased by more than 20% in the following wells compared to last quarter: TW4-10, TW4-22, and new well TW4-26;

c) Chloroform concentrations have remained within 20% in the following wells compared to last quarter: MW-4. TW4-1, TW4-2, TW4-4, TW4-5, TW4-6, TW4-11, TW4-15, TW4-18, TW4-19, TW4-20, and TW4-24;

d) TW4-3, TW4-8, TW4-9, TW4-12, TW4-13, TW4-14, TW4-16, TW4-23, and TW4-25 remained non-detect; and

e) MW-32 (TW4-17) increased from non-detect to 4.3 μg/L.

As indicated, third quarter chloroform concentrations at most wells were within 20% of the values reported for the wells during the second quarter, suggesting that variations are within the range typical for sampling and analytical error. Wells TW4-7, TW4-10, TW4-21, and TW4-22, which had changes in concentration greater than 20%, are located adjacent to pumping wells MW-4, MW-26 (TW4-15), TW4-19, and TW4-20, respectively. Fluctuations in concentrations at these wells likely result in part from changes in pumping at the adjacent wells.

Pumping well TW4-20 had the highest detected chloroform concentration. Since the last quarter, the chloroform concentration in TW4-20 decreased from 18,000 μg/L to 15,000 μg/L, the concentration in adjacent pumping well TW4-19 increased from 1,800 μg/L to 2,000 μg/L, the concentration in nearby well TW4-21 increased from 210 to 390 μg/L, and the concentration in nearby well TW4-22 decreased from 540 μg/L to 340 μg/L. Wells TW4-23 and TW4-25 remained non-detect for chloroform, and the concentration in well TW4-24 increased slightly from 1.7 μg/L to 1.8 μg/L. TW4-24, located west of TW4-22, and TW4-25, located north of TW4-21, bound the chloroform plume to the west and north.

The chloroform concentration in TW4-6 increased from 590 μg/L to 630 μg/L. TW4-6, installed in the second quarter of 2000, was the most downgradient temporary perched well prior to installation of temporary well TW4-23 in 2007 and temporary well TW4-26 in the second quarter of 2010, and remained outside the chloroform plume until the first quarter of 2009. TW4-6 likely remained outside the chloroform plume between the time of installation and the fourth quarter of 2008 due to a combination of 1) slow rates of downgradient chloroform migration in this area due to low permeability conditions and the effects of upgradient chloroform removal by pumping, and 2) natural attenuation. TW4-23 and new well TW4-26 (with a chloroform concentration of 5.2 μg/L) bound the chloroform plume to the south.

The slow rate of chloroform migration in the vicinity of TW4-6 is demonstrated by comparing the rate of increase in chloroform at this well to the rate of increase in the nearest upgradient well TW4-4. Concentrations at TW4-4 increased from non-detect to more than 2,200 μg/L within only 2 quarters whereas 16 quarters were required for concentrations in TW4-6 to increase from non-detect to only 81 μg/L. This behavior is consistent with hydraulic tests performed at TW4-4, TW4-6, and TW4-26 during the third quarter of 2010 that indicate a nearly two order of magnitude decrease in permeability downgradient of TW4-4. Chloroform migration rates in the vicinity of new well TW4-26 are also expected to be relatively low due to upgradient pumping and low permeability conditions.

Wells MW-32 (TW4-17) and TW4-26 are located immediately downgradient of the chloroform plume. The concentration in MW-32 (TW4-17) increased from non-detect to 4.3 μg/L, and the concentration in TW4-26 decreased from 13 μg/L to 5.2 μg/L. Slight expansion and contraction of the chloroform plume boundaries in response to changes in upgradient pumping are expected to impact the concentrations at these wells. Furthermore, because TW4-26 was installed in May 2010, some of the fluctuation in concentration may result from lack of stabilization.

5.0 LONG TERM PUMP TEST AT MW-4, TW4-15 (MW-26), TW4-19, TW4-20, AND TW4-4 OPERATIONS REPORT

5.1 Introduction

As a part of the investigation of chloroform contamination at the Mill site, DUSA has been conducting a Long Term Pump Test on MW-4, TW4-19, TW4-15 (MW-26) and TW4-20, and, since January 31, 2010, TW4-4. The purpose of the test is to serve as an interim action that will remove a significant amount of chloroform-contaminated water while gathering additional data on hydraulic properties in the area of investigation. The following information documents the operational activities during the quarter.

5.2 Pump Test Data Collection

The long term pump test for MW-4 was started on April 14, 2003, followed by the start of pumping from TW4-19 on April 30, 2003, from TW4-15 (MW-26) on August 8, 2003, from TW4-20 on August 4, 2005, and from TW4-4 on January 31, 2010. Personnel from Hydro Geo Chem, Inc. were on site to conduct the first phase of the pump test and collect the initial two days of monitoring data for MW-4. DUSA personnel have gathered subsequent water level and pumping data.

Analyses of hydraulic parameters and discussions of perched zone hydrogeology near MW-4 has been provided by Hydro Geo Chem in a separate report, dated November 12, 2001, and in the May 26, 2004 *Final Report on the Long Term Pumping Test.*

Data collected during the quarter included the following:

- Measurement of water levels at MW-4, TW4-19, TW4-15 (MW-26), and TW4-20 and, commencing regularly on March 1, 2020, TW4-4, on a weekly basis, and at selected temporary wells and permanent monitoring wells on a monthly basis.

- Measurement of pumping history, including:
  - pumping rates
  - total pumped volume
  - operational and non-operational periods.

- Periodic sampling of pumped water for chloroform and nitrate/nitrite analysis and other constituents.

5.3 Water Level Measurements

Beginning August 16, 2003, the frequency of water level measurements from MW-4, TW4-15 (MW-26), and TW4-19 was reduced to weekly. From commencement of pumping TW4-20, and regularly after March 1, 2010 for TW4-4, water levels in these wells have been measured weekly. Depth to groundwater in all other chloroform contaminant investigation wells is monitored monthly. Copies of the weekly Depth to Water monitoring sheets for MW-4, TW4-15 (MW-26), TW4-19, TW4-20 and TW4-4 and the July and August monthly Depth to Water monitoring sheets for all of the chloroform contaminant investigation wells are included under Tab C. Monthly depth to water measurements for September are recorded in the Field Data Worksheets included under Tab B.

5.4 Pumping Rates and Volumes

Table 2 summarizes the recovered mass of chloroform by well per quarter and historically since the inception of the chloroform recovery program for the five currently-active pumping wells.

5.4.1 MW-4

Approximately 79,859 gallons of water were pumped from MW-4 during the quarter. The average pumping rate from MW-4, when the pump was pumping, was approximately 4.3 gpm throughout the quarter. The well is not pumping continuously, but is on a delay device. The well purges for a set amount of time and then shuts off to allow the well to recharge. Water from MW-4 was transferred to the Cell 1 evaporation pond through a pipeline installed specifically for that purpose. During the week of July 13, 2010, flow measurements were not collected and the well did not pump as the power to the well was disrupted due to the hydrogeologic testing of TW4-4. Power on the circuit was disrupted which affected TW4-4 as well as MW-4.

5.4.2 TW4-19

Approximately 116,899 gallons of water were pumped from TW4-19 during the quarter. The average pumping rate from TW4-19, when the pump was pumping, was approximately 5.1 gpm throughout the quarter. The pump in this well is operating on a delay. It pumps for approximately one and a half minutes and then is off for two to three minutes. Water from TW4-19 was directly transferred to the Cell 1 evaporation pond through a pipeline installed specifically for that purpose. The weeks of August 23, and August 30, 2010 pump problems were noted in this well. In both instances the well was not properly pumping. The pump was replaced by the time of the next measurement on September 7, 2010 to address the problems.

5.4.3 TW4-15 (MW-26)

Approximately 63,850 gallons of water were pumped from TW4-15 (MW-26) during the quarter. The average flow rate from TW4-15, when the pump was pumping, was approximately 5.2 gpm throughout the quarter. The well is not pumping continuously, but is on a delay device. The well now purges for a set amount of time and then shuts off to allow the well to recharge. The water is directly transferred to the Cell 1 evaporation pond through a pipeline installed specifically for that purpose.

5.4.4 TW4-20

Approximately 39,098 gallons of water were pumped from TW4-20 during the quarter. The average flow rate from TW4-20, when the pump was pumping, was approximately 1.9 gpm throughout the quarter. The well is not purging continuously but is on a delay device. The well pump is set on a water elevation device. When the water reaches a set point, the pump turns on until the water level drops to another set point. The water is directly transferred to the Cell 1 evaporation pond through a pipeline installed specifically for that purpose.

5.4.5 TW4-4

Approximately 76,916 gallons were pumped from TW4-4 during the quarter. The average flow rate, when the pump was pumping, was 8.5 gpm. The well is not pumping continuously, but is set on a water elevation device. When the water reaches a set point, the pump turns on until the water level drops to another set point. The water is directly transferred to the Cell 1 evaporation pond through a pipeline installed specifically for that purpose. During the week of July 13, 2010, flow measurements were not collected and the well did not pump as the power to the well was disrupted due to the hydrogeologic testing of this well. Power on the circuit was disrupted which affected TW4-4 as well as MW-4.

5.5 Mass Removed

Chloroform removal was estimated as of the first quarter 2007. Since that estimation the mass removed by well for each quarter has been compiled in Table 2 below, indicating that a total of 511.5 pounds of chloroform have been removed to date.

5.6 Inspections

Denison has submitted an *Operations and Maintenance Plan, Chloroform Pumping System, White Mesa Mill, Blanding, Utah*, Revision 2.1 to UDEQ for approval. Upon approval of that plan, the Mill will commence documenting its required inspections of the operational status of the chloroform pumping wells on an inspection form. An example of the form as well as completed reports for the quarter will be included in future Chloroform reports upon approval by UDEQ. At the time of the publication of this report approval of the *Operations and Maintenance Plan, Chloroform Pumping System, White Mesa Mill, Blanding, Utah*, Revision 2.1 had not been received.

Operational problems in the pumping wells are summarized above.

5.7 Conditions That May Affect Water Levels in Piezometers

No significant amount of water was added to any of the three wildlife diversion ponds during the quarter.

6.0 CORRECTIVE ACTION REPORT

Necessary corrective actions identified during the current monitoring period are described below.

6.1 Rinsate Sample Chloroform and Nitrate Levels

Identification and Definition of the Problem

Rinsate Chloroform and Nitrate Levels

Chloroform

Chloroform has been present in the rinsate blanks in previous quarters and an investigation has been ongoing. Based on the results of the investigation DUSA believes that the potential source for the chloroform present in the rinsate blanks has been identified. Review of the chloroform detections has shown that there is no correlation between the rinsate blank concentrations and the sample concentrations in the wells associated with the rinsate blanks (*Chloroform Monitoring Report 2nd Quarter 2010, August 30, 2010*). The chloroform present in the rinsate blanks is most likely present in the DI water and is not the result of inadequate decontamination of the purging pump. The chloroform contamination in the DI water is most likely the result of chlorination of the intake water used for the DI system.

Nitrate

DI water used for decontamination does not show the presence of nitrate. Contamination does not appear to be related to the nitrate presence in the preceding well that was purged. Rinsate samples following high concentration wells appear to be the same as rinsate samples following low concentration wells. Rinsate samples following purging of uncontaminated wells appear to also be contaminated with nitrate. Presence of nitrate in the rinsate samples is not consistent from one sampling event to the next.

Assignment of Responsibility for Investigation of the Problem

The problem is currently under investigation by the QA Manager.

Investigation and Determination of Cause of the Problem

Rinsate Sample Chloroform and Nitrate Levels

The QA Manager plans to implement a testing program to confirm the source(s) which are introducing chloroform into the sampling and/or rinsate process. As discussed above, and based on evaluations to date, chloroform is most likely entering the rinsate blanks from the chlorination process. The DI system is showing signs of breakthrough at times of high usage.

To address the nitrate contamination, DUSA will continue investigating additional conditions which may be causing the nitrate contamination by mobilizing nitrogen compounds present in nitrile gloves (such as leaching from the gloves by the nitric acid). In addition, DUSA has requested in the revised QAP, submitted June 4, 2010, the removal of the nitric acid rinse step when samples are not collected for heavy metals, which will effectively remove the source of nitrate. DUSA will proceed with the removal of that step only upon approval of the QAP revision.

Determination of a Corrective Action to Eliminate the Problem

Rinsate Sample Chloroform and Nitrate Levels

During the fourth quarter chloroform sampling event UDEQ personnel were present and observed the rinsate blank collection procedures. UDEQ personnel provided recommended changes, which include the reduction of rinsate blanks to once daily and the daily reuse of soap/nitric acid decontamination fluids. These changes will reduce significantly the amount of DI water needed to implement the sampling program. The reduction in DI water usage will reduce the "load" on the DI system and eliminate the breakthrough of chloroform. This change was implemented during the fourth quarter chloroform sampling program. The QA Manager has completed a preliminary review of the fourth quarter data and, based on the data received to date, the changes in the decontamination program have reduced the chloroform contamination in the DI system.

A proposed QAP revision will be prepared to address the changes to the decontamination procedures and the frequency of rinsate blank sample collection.

The nitrate source is most likely the nitric acid rinse used during decontamination procedures, however, additional conditions which may be contributing to the nitrate detections in the rinsate blanks are being investigated. The additional items for investigation include the leachability of nitrogen ions from nitrile gloves and the decontamination/rinsate procedure itself.

Assigning and Accepting Responsibility for Implementing the Corrective Action

Rinsate Chloroform and Nitrate Levels
It will be the joint responsibility of the Director, Compliance and Permitting, and the Mill's sampling staff to implement the changes and to assess the data to determine if it has corrected the problems.

Implementing the Corrective Action and Evaluating Effectiveness

Rinsate Chloroform and Nitrate Levels
Implementation to verify the chloroform source(s) was started in previous quarters. Systematic review of the issue has been ongoing and has been completed. DUSA believes the source has been identified and that changes suggested by DRC will address the sources identified. Data collected during the fourth quarter (and possibly other future quarters) will be reviewed to determine if additional engineering options need to be considered. Nitrate sources will be removed after the removal of the nitric acid rinse from the decontamination procedure when heavy metals are not collected (assuming requisite changes to the QAP submitted June 4, 2010 are approved by the Executive Secretary). Additive effects from the decontamination/rinsate procedure and the contribution from the use of nitrile gloves in the presence of nitric acid are being investigated to determine additional factors which may be increasing nitrate contamination.

Verifying That the Corrective Action Has Eliminated the Problem

Verification that chloroform contamination has been eliminated will occur upon receipt of at least the fourth quarter 2010 data. Additional data collection may be required and will be discussed in the fourth quarter 2010 report. Verification of nitric acid as the source of the nitrate contamination cannot be completed until the Executive Secretary approval of the June 4, 2010 QAP revision is received.

6.2 Assessment of Previous Quarter's Corrective Actions

The third quarter 2010 report identified three corrective actions, which are: turbidity measurements which exceeded the 10% RPD requirement; depth to water measurements

not being consistently recorded; and chloroform and nitrate contamination in the rinsate blanks.

Chloroform and nitrate contamination in the rinsate blanks is discussed above in Section 6.1.

The consistent recording of depth to water measurements has been corrected, and there are no deviations noted during this sampling program for the third quarter 2010. As such the corrective action is considered appropriate and complete as evidenced by the field data sheets included as Tab B to this report.

Turbidity corrective actions are ongoing with the monitoring well redevelopment program at the Mill. The data collected during the redevelopment program will be presented to UDEQ under separate cover and discussed to determine the resolution of the turbidity issues discussed in the UDEQ letters dated June 1, 2010 and June 24, 2010.

7.0 CONCLUSIONS AND RECOMMENDATIONS

The water level contour maps for the third quarter, 2010 indicate that effective capture of water containing high chloroform concentrations in the vicinity of pumping wells MW-4, MW-26 (TW4-15), TW4-19, and TW4-20 is occurring. TW4-4 has apparently not been pumped long enough for a well-defined capture zone to develop in the vicinity of this well.

Third quarter chloroform concentrations at most wells were within 20% of the values reported for the wells during the second quarter, suggesting that variations are within the range typical for sampling and analytical error. Changes in concentration greater than 20% occurred in wells TW4-7, TW4-10, TW4-21, TW4-22, and new well TW4-26; the concentration in well MW-26 (TW4-17) increased from non-detect to 4.3 μg/L.

Fluctuations in concentrations at wells TW4-7, TW4-10, TW4-21, TW4-22 likely result in part from changes in pumping at adjacent wells MW-4, MW-26 (TW4-15), TW4-19, and TW4-20, respectively. Fluctuations in concentrations at wells MW-32 (TW4-17) and TW4-26, each located immediately downgradient of the chloroform plume, likely result from slight expansion and contraction of the chloroform plume boundaries in response to changes in upgradient pumping. Furthermore, because TW4-26 was installed in May 2010, some of the fluctuation in concentration may result from lack of stabilization. Between the second and third quarters, the concentration in TW4-26, which is the most downgradient temporary well, decreased from 13 μg/L to 5.2 μg/L.

The highest chloroform concentration was detected at pumping well TW4-20. Between the second and third quarters of 2010, the chloroform concentration in TW4-20 decreased from 18,000 μg/L to 15,000 μg/L, the concentration in adjacent pumping well TW4-19 increased from 1,800 μg/L to 2,000 μg/L, the concentration in nearby well TW4-21 increased from 210 to 390 μg/L, and the concentration in nearby well TW4-22 decreased from 540 μg/L to 340 μg/L. Fluctuations in concentrations in these wells are likely related to their location near the suspected former office leach field source area in

addition to variations in pumping in TW4-20 and nearby wells. Regardless of these measured fluctuations in chloroform concentrations, sampling of temporary wells TW4-24 (located west of TW4-22) and TW4-25 (located north of TW4-21), indicates these wells remain outside the chloroform plume and thus bound the plume to the west and north. Chloroform was not detected at TW4-25, and was detected at a concentration of 1.8 μg/L at TW4-24.

The chloroform concentration at well TW4-6 increased from 590 to 630 μg/L. TW4-6, which remained outside the plume until the first quarter of 2009, is located within the southernmost portion of the plume. Although fluctuations in concentrations have occurred, this well likely remained outside the chloroform plume between installation in the second quarter of 2000 and the fourth quarter of 2008 due to a combination of 1) slow rates of downgradient chloroform migration in this area due to low permeability conditions and the effects of upgradient chloroform removal by pumping, and 2) natural attenuation. Chloroform remained non-detect at downgradient temporary well TW4-23. TW4-23 and new well TW4-26 (with a chloroform concentration of 5.2 μg/L) bound the chloroform plume to the south.

Continued pumping of MW-4, MW-26 (TW4-15), TW4-19, and TW4-20 is recommended. Pumping these wells, regardless of any short term fluctuations in concentrations detected at the wells (such as at TW4-20), helps to reduce downgradient chloroform migration by removing chloroform mass and reducing average hydraulic gradients, thereby allowing natural attenuation to be more effective. Continued pumping at TW4-4 is also recommended to improve capture of chloroform to the extent practical in the southern portion of the plume where low permeability conditions exist.

8.0 ELECTRONIC DATA FILES AND FORMAT

DUSA has provided to the Executive Secretary an electronic copy of all laboratory results for groundwater quality monitoring conducted under the chloroform contaminant investigation during the quarter, in Comma Separated Values (CSV) format. A copy of the transmittal e-mail is included under Tab M.

9.0 SIGNATURE AND CERTIFICATION

This document was prepared by Denison Mines (USA) Corp. on November 24, 2010.

DENISON MINES (USA) CORP.

By:

David C. Frydenlund
Vice President, Regulatory Affairs and Counsel

Certification:

I certify, under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

David C. Frydenlund
Vice President, Regulatory Affairs and Counsel
Denison Mines (USA) Corp.

Tables

Table 1: Summary of Well Sampling for the Period

Well	Sample Date	Date of Lab Report
MW-4	8/16/2010	9/8/2010*
TW4-1	8/24/2010	9/8/2010*
TW4-1R	8/23/2010	9/8/2010*
TW4-2	8/18/2010	9/8/2010*
TW4-2R	8/17/2010	9/8/2010*
TW4-3	8/10/2010	9/3/2010
TW4-3R	8/9/2010	9/3/2010
TW4-4	8/16/2010	9/8/2010*
TW4-5	8/11/2010	9/3/2010
TW4-5R	8/10/2010	9/3/2010
TW4-6	8/12/2010	9/3/2010
TW4-6R	8/11/2010	9/3/2010
TW4-7	8/18/2010	9/8/2010*
TW4-7R	8/17/2010	9/8/2010*
TW4-8	8/11/2010	9/3/2010
TW4-8R	8/10/2010	9/3/2010
TW4-9	8/11/2010	9/3/2010
TW4-9R	8/10/2010	9/3/2010
TW4-10	8/12/2010	9/3/2010
TW4-10R	8/11/2010	9/3/2010
TW4-11	8/12/2010	9/3/2010
TW4-11R	8/11/2010	9/3/2010
TW4-12	8/10/2010	9/8/2010
TW4-12R	8/9/2010	9/8/2010
TW4-13	8/10/2010	9/8/2010
TW4-13R	8/9/2010	9/3/2010
TW4-14	8/10/2010	9/3/2010
TW4-14R	8/9/2010	9/3/2010
TW4-15	8/16/2010	9/8/2010*
TW4-16	8/24/2010	9/17/2010
TW4-16R	8/23/2010	9/17/2010
TW4-17	8/16/2010	9/8/2010*
TW4-18	8/12/2010	9/3/2010
TW4-18R	8/11/2010	9/3/2010
TW4-19	8/16/2010	9/8/2010*
TW4-20	8/16/2010	9/8/2010*
TW4-21	8/12/2010	9/3/2010
TW4-21R	8/11/2010	9/3/2010
TW4-22	8/24/2010	9/17/2010
TW4-22R	8/23/2010	9/17/2010
TW4-23	8/10/2010	9/3/2010
TW4-23R	8/9/2010	9/3/2010
TW4-24	8/24/2010	9/17/2010
TW4-24R	8/23/2010	9/17/2010
TW4-25	8/10/2010	9/3/2010
TW4-25R	8/9/2010	9/3/2010
TW4-26	8/11/2010	9/3/2010
TW4-26R	8/10/2010	9/3/2010
TW4-60	8/17/2010	9/8/2010*
TW4-65	8/12/2010	9/3/2010
TW4-70	8/16/2010	9/8/2010*

All sample locations were sampled for Carbon Tetrachloride, Chloromethane, Methylene Chloride, Chloride and Nitrogen

"R" following a well number deisgnates a rinsate sample collected prior to purging of the well of that number.

TW4-60 is a DI Field Blank, TW4-65 is a duplicate of TW4-21, and TW4-70 is a duplicate of TW4-17.

* Data were reported 9/8/2010. A revised report was submitted 10/22/2010.

Highlighted wells are continuously pumped.

Table 2 Chloroform Mass Removal Per Well Per Quarter

Quarter	MW-4	MW4-15	MW4-19	MW4-20	TW4-4	Quarter Totals
Q1 2007	36.8	12.9	150.2	87.0	NA	286.9
Q2 2007	1.4	0.1	0.0	2.5	NA	4.0
Q3 2007	2.2	0.8	2.9	3.1	NA	9.0
Q4 2007	1.7	1.0	3.1	4.8	NA	10.6
Q1 2008	1.7	0.4	4.6	7.2	NA	13.8
Q2 2008	1.3	0.5	3.2	9.9	NA	14.8
Q3 2008	1.2	0.3	15.9	9.3	NA	26.8
Q4 2008	1.3	0.3	20.7	0.4	NA	22.7
Q1 2009	1.7	0.4	4.3	3.6	NA	10.0
Q2 2009	6.8	0.2	3.7	2.8	NA	13.5
Q3 2009	1.5	0.4	11.1	5.5	NA	18.5
Q4 2009	4.8	0.6	17.8	26.1	NA	49.4
Q1 2010	0.9	0.4	2.7	0.4	NA	4.5
Q2 2010	1.5	1.0	6.8	5.9	1.4	16.5
Q3 2010	1.3	1.2	2.0	4.9	1.3	10.6
Well Totals (pounds)	66.0	20.5	248.9	173.4	2.8	**511.5**

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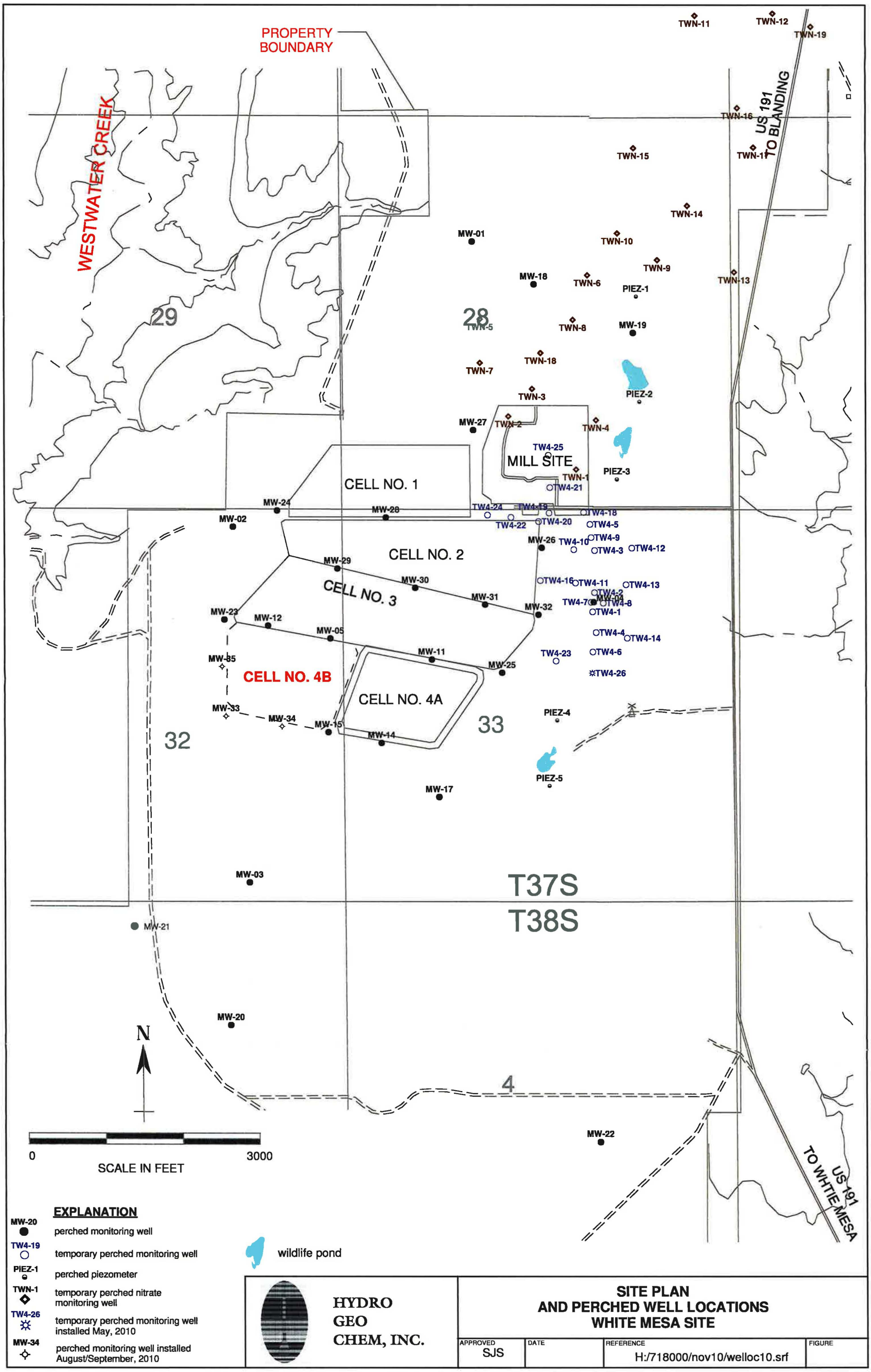
Tab A

Site Plan and Perched Well Locations White Mesa Site


PROPERTY BOUNDARY
WESTWATER CREEK
US 191 TO BLANDING
US 191 TO WHITE MESA
TWN-11
TWN-12
TWN-19
TWN-16
TWN-15
TWN-17
TWN-14
TWN-10
TWN-9
TWN-13
TWN-6
TWN-8
TWN-5
TWN-18
TWN-7
TWN-3
TWN-2
TWN-4
TWN-1
MW-01
MW-18
MW-19
MW-27
PIEZ-1
PIEZ-2
PIEZ-3
PIEZ-4
PIEZ-5
MILL SITE
TW4-25
TW4-21
TW4-24
TW4-19
TW4-22
TW4-20
TW4-18
TW4-5
TW4-10
TW4-9
TW4-3
TW4-12
TW4-16
TW4-11
TW4-13
TW4-2
TW4-7
TW4-8
TW4-1
TW4-4
TW4-14
TW4-23
TW4-6
TW4-26
MW-24
MW-28
MW-02
MW-26
CELL NO. 1
CELL NO. 2
CELL NO. 3
CELL NO. 4A
CELL NO. 4B
MW-29
MW-30
MW-31
MW-32
MW-23
MW-12
MW-05
MW-11
MW-25
MW-35
MW-33
MW-34
MW-15
MW-14
MW-17
MW-03
MW-21
MW-20
MW-22
28
29
32
33
4
T37S
T38S
N
0
3000
SCALE IN FEET
EXPLANATION
MW-20 perched monitoring well
TW4-19 temporary perched monitoring well
PIEZ-1 perched piezometer
TWN-1 temporary perched nitrate monitoring well
TW4-26 temporary perched monitoring well installed May, 2010
MW-34 perched monitoring well installed August/September, 2010
wildlife pond
HYDRO GEO CHEM, INC.
SITE PLAN
AND PERCHED WELL LOCATIONS
WHITE MESA SITE
APPROVED SJS
DATE
REFERENCE H:/718000/nov10/welloc10.srf
FIGURE

Tab B

Order of Sampling and Field Data Worksheets

Order of Contamination for 3rd Quarter 2010 Chloroform Purging Event

Well	Sample time	Chloroform Levels	Rinsate date/time	Water level	Well Depth	
TW4-3	8-10-2010 0627	ND	8-9-10 0841		97	
TW4-12	8-10-2010 0746	ND	8-9-10 0928		101.5	
TW4-13	8-10-2010 0756	ND	8-9-10 1026		102.5	
TW4-14	8-10-2010 0806	ND	8-9-10 1226		93	
TW4-17	8-16-2010 1340	ND			130	Bladder pump
TW4-23	8-10-2010 0640	ND	8-9-10 1306		114	
TW4-25	8-10-2010 0607	ND	8-9-10 1411		134.8	
TW4-8	8-11-2010 0648	ND	8-10-10 0840		125	
TW4-9	8-11-2010 0632	ND	8-10-10 0927		120	
TW4-24	8-11-2010 0604	1.7	8-10-10 1018		112.5	
TW4-16	8-11-2010 0721	2.1	8-10-10 1100		142	
TW4-5	8-11-2010 0617	12	8-10-10 1250		120	
TW4-26	8-11-2010 0704	13	8-10-10 1414		86	
TW4-18	8-12-2010 0720	29	8-10-10 0753		137.5	Cont. Pumping
TW4-21	8-12-2010 0730	210	8-10-10 0843		121	
TW4-10	8-12-2010 0757	220	8-11-10 0930		113	
TW4-22	8-12-2010 0748	540	8-11-10 1014		113.5	
TW4-6	8-12-2010 0807	590	8-11-10 1056		97.5	
TW4-11	8-12-2010 0818	820	8-11-10 1251		100	
TW4-7	8-18-2010 0827	1100	8-17-10 0836		120	
TW4-1	8-18-2010 0837	1600	8-17-10 0920		110	
TW4-19	8-16-2010 0958	1800			125	Cont. Pumping
TW4-15	8-16-2010 1415	1900			122.5	Cont. Pumping
TW4-4	8-16-2010 1052	2000			112	Cont. Pumping
MW4	8-16-2010 1033	2100			124	Cont. Pumping
TW4-2	8-18-2010 0817	3300	8-17-2010 1003		120	
TW4-20	8-16-2010 1222	18000			106	Cont. Pumping
TW4-60	D.I. Blank	8-17-2010 1430				
TW4-65	Duplicate	8-12-2010 0730				
TW4-70	Duplicate	8-16-2010 1340				

Comments:

Name: _____ Date: _____

(4)

TW4-1 110 1R 1335 8-23-10

8-24-10 1245

(2)

TW4-16 142 16R 0957 8-23-10

8-24-10 1232

(3)

TW4-22 113.5 22R 1234 8-23-10

8-24-10 1221

(1)

TW4-24 112.5 24R 0855 8-23-10

8-24-10 1210

ATTACHMENT 1
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUND WATER

Description of Sampling Event: 3rd Quarter Chloroform 2010

Location (well name) MW 4 Sampler Name and initials Tanner Holliday, Garrin Palmer

Date and Time for Purging 8-16-2010 and Sampling (if different) N/A

Well Purging Equip Used: X pump or __ bailer Well Pump (if other than Bennet) Grundfos continuous pumping

Sampling Event Quarterly Chloroform Prev. Well Sampled in Sampling Event [illegible]-19

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 998 uMHOS/cm Well Depth 124

Depth to Water Before Purging 70.37 Casing Volume (V) 4" Well: ____ (.653h)
3" Well: N/A (.367h)

Conductance (avg) ____ pH of Water (avg) ____

Well Water Temp. (avg) ____ Redox Potential (Eh) ____ Turbidity ____

Weather Cond. Cloudy Ext'l Amb. Temp (prior to sampling event) 25°C

Time: 1029 Gal. Purged ____	Time: 1030 Gal. Purged ____
Conductance 2004	Conductance 2006
pH 6.63	pH 6.67
Temperature 17.92	Temperature 15.26
Redox Potential (Eh) 334	Redox Potential (Eh) 335
Turbidity 0	Turbidity 0
Time: 1031 Gal. Purged ____	Time: 1032 Gal. Purged ____
Conductance 1958	Conductance 1920
pH 6.69	pH 6.69
Temperature 15.23	Temperature 15.21
Redox Potential (Eh) 336	Redox Potential (Eh) 338
Turb. 0	Turb. 0

Turbidity _____ Turbidity _____

Volume of Water Purged N/A

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = = N/A

Time to evacuate two casing volumes (2V)
T = 2V/Q = N/A

Number of casing volumes evacuated (if other than two) N/A

If well evacuated to dryness, number of gallons evacuated N/A

Name of Certified Analytical Laboratory if Other Than Energy Labs N/A

Type of Sample	Sample Taken (circle)	Sample Volume (indicate if other than as specified below)	Filtered (circle)	Preservative Added (circle)
VOCs	Y N	3,40 ml	Y N	HCL Y N
Nutrients	Y N	100 ml	Y N	H_2SO_4 Y N
Heavy Metals	Y N	250 ml	Y N	HNO_3 Y N
All Other Non-Radiologics	Y N	250 ml	Y N	No Preservative Added
Gross Alpha	Y N	1,000 ml	Y N	H_2SO_4 Y N
Other (specify) Chloride	Y N	Sample volume	Y N	Y N If a preservative is used, Specify Type and Quantity of Preservative:

Comments Arrived on site at 1027. Tanner Halliday & Garrin Palmer on site for Purge, ~~[illegible]~~ ~~for a total of~~ ~~Minutes~~. Took DTW and 4 sets of parameters. Samples were pulled at 1033 Left site at 1036. Continuous pumping well. Water was clear

ATTACHMENT 1
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUND WATER

Description of Sampling Event: 3rd Quarter Chloroform 2010

Location (well name) TW4-1 Sampler Name and initials Tanner Holliday, Garrin Palmer

Date and Time for Purging 8-23-2010 and Sampling (if different) 8-~~25~~ 24-2010

Well Purging Equip Used: x pump or __ bailer Well Pump (if other than Bennet) Grundfos

Sampling Event Quarterly Chloroform Prev. Well Sampled in Sampling Event TW4-1R

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 999 uMHOS/cm Well Depth 110

Depth to Water Before Purging 63.17 Casing Volume (V) 4" Well: 30.57 (.653h)
Before Sample 63.45 3" Well: ___ (.367h)

Conductance (avg) pH of Water (avg)

Well Water Temp. (avg) Redox Potential (Eh) Turbidity

Weather Cond. Partly Cloudy Ext'l Amb. Temp (prior to sampling event) 25°C

Time: 1343 Gal. Purged 80	Time: 1350 Gal. Purged 70
Conductance 2142	Conductance 2140
pH 6.10	pH 6.12
Temperature 15.00	Temperature 15.00
Redox Potential (Eh) 395	Redox Potential (Eh) 395
Turbidity 15.2	Turbidity 15.7
Time: 1351 Gal. Purged 80	Time: 1352 Gal. Purged 90
Conductance 2153	Conductance 2157
pH 6.16	pH 6.18
Temperature 14.88	Temperature 14.84
Redox Potential (Eh) 396	Redox Potential (Eh) 397
Turb. 10.8	Turb. 10.0

Turbidity _____ Turbidity _____

Volume of Water Purged [redacted] 131 Gallons Well Ran dry

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = = 10

Time to evacuate two casing volumes (2V)
T = 2V/Q = 6.11 Min

6 casing volumes
18.34 Min

Number of casing volumes evacuated (if other than two) N/A

If well evacuated to dryness, number of gallons evacuated 131

Name of Certified Analytical Laboratory if Other Than Energy Labs N/A

Type of Sample	Sample Taken (circle)	Sample Volume (indicate if other than as specified below)	Filtered (circle)	Preservative Added (circle)
VOCs	(Y) N	3x40 ml	Y (N)	HCL (Y) N
Nutrients	(Y) N	160 ml	Y (N)	H_2SO_4 (Y) N
Heavy Metals	Y N	250 ml	Y N	HNO_3 Y N
All Other Non-Radiologics	Y N	250 ml	Y N	No Preservative Added
Gross Alpha	Y N	1,000 ml	Y N	H_2SO_4 Y N
Other (specify)	(Y) N	Sample volume	Y (N)	(Y) (N)
				If a preservative is used, Specify Type and Quantity of Preservative:

Comments Arrived on site at 1340. Tanner & Garrin on site for purge. Purge Began at 1343. Purged Well for a total of 13 Minutes and 6 seconds. Well Ran dry. Water was mostly clear throughout purge. DTW After purge was 98.91. Purge ended at 1356. Left site at 1401. Arrived on site at 1236. Tanner & Garrin on site for sampling event. Took DTW Then Bailed samples at 1245. Left site at 1248.

TW4-1

	1353 100	1354 110	1355 120	1356 130
Spc	2161	2162	2166	Ran dry
PH	6.21	6.22	6.28	
Temp	14.82	14.83	14.82	
ORP	399	401	405	
Turb.	55.1	181.3	196.8	

ATTACHMENT 1
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUND WATER

Description of Sampling Event: 3rd Quarter Chloroform 2010

Location (well name) TW4-1 R

Sampler Name and initials Tanner Holliday, Gavin Palmer

Date and Time for Purging 8-23-2010 and Sampling (if different) N/A

Well Purging Equip Used: x pump or __ bailer Well Pump (if other than Bennet) Grundfos

Sampling Event Quarterly Chloroform Prev. Well Sampled in Sampling Event TW4-22

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 999 uMHOS/cm Well Depth N/A

Depth to Water Before Purging N/A Casing Volume (V) 4" Well: N/A (.653h)
2" Well: N/A (.367h)

Conductance (avg) pH of Water (avg)

Well Water Temp. (avg) Redox Potential (Eh) Turbidity

Weather Cond. Partly Cloudy Ext'l Amb. Temp (prior to sampling event) 25°C

Time: 1239 Gal. Purged: 145	Time: Gal. Purged
Conductance: 1.7	Conductance
pH 7.11	pH
Temperature 25.38	Temperature
Redox Potential (Eh) 346	Redox Potential (Eh)
Turbidity 0	Turbidity
Time: Gal. Purged	Time: Gal. Purged
Conductance	Conductance
pH	pH
Temperature	Temperature
Redox Potential (Eh)	Redox Potential (Eh)
Turb.	Turb.

Rinsate B4 TW

Turbidity ——— Turbidity ———

Volume of Water Purged ~~When Field Parameters are Measured~~ 150

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = = 10

Time to evacuate two casing volumes (2V)
T = 2V/Q = N/A

Number of casing volumes evacuated (if other than two) N/A

If well evacuated to dryness, number of gallons evacuated N/A

Name of Certified Analytical Laboratory if Other Than Energy Labs N/A

Type of Sample	Sample Taken (circle)	Sample Volume (indicate if other than as specified below)	Filtered (circle)	Preservative Added (circle)
VOCs	(Y) N	40 ml	Y (N)	HCl (Y) N
Nutrients	(Y) N	100 ml	Y (N)	H_2SO_4 (Y) N
Heavy Metals	Y N	250 ml	Y N	HNO_3 Y N
All Other Non-Radiologics	Y N	250 ml	Y N	No Preservative Added
Gross Alpha	Y N	1,000 ml	Y N	H_2SO_4 Y N
Other (specify) chloride	(Y) N	Sample volume	Y (N)	Y (N) If a preservative is used, Specify Type and Quantity of Preservative:

Comments Arrived on site at 1316. Tanner & Guerrin Present for Rinsate and sampling event. Rinsate began at 1318. Pumped 50 Gallons of Acid Water, 50 Gallons Soap Water, and 50 Gallons of DI Water. Rinsate ended and samples collected at 1335. Left site at 1337.

Rinsate B4 TW4-1

ATTACHMENT 1
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUND WATER

Description of Sampling Event: 3rd Quarter Chloroform 2010

Location (well name) TW4-2 Sampler Name and initials Tanner Holliday, Garrin Palmer

Date and Time for Purging 8-17-2010 and Sampling (if different) 8-18-2010

Well Purging Equip Used: X pump or __ bailer Well Pump (if other than Bennet) Grundfos

Sampling Event Quarterly Chloroform Prev. Well Sampled in Sampling Event TW4-2R

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 998 uMHOS/cm Well Depth 120

Depth to Water Before Purging 67.43 Casing Volume (V) 4" Well: 34.32 (.653h)
Before Sample 67.43 2" Well: n/a (.367h)

Conductance (avg) pH of Water (avg)

Well Water Temp. (avg) Redox Potential (Eh) Turbidity

Weather Cond. Sunny Ext'l Amb. Temp (prior to sampling event) 24°C

Time: 1014 Gal. Purged 30	Time: 1017 Gal. Purged 40
Conductance 2570	Conductance 2649
pH 6.57	pH 6.56
Temperature 15.08	Temperature 15.02
Redox Potential (Eh) 451	Redox Potential (Eh) 450
Turbidity 44.1	Turbidity 62.9
Time: 1018 Gal. Purged 50	Time: 1019 Gal. Purged 60
Conductance 2756	Conductance 2817
pH 6.58	pH 6.58
Temperature 14.93	Temperature 14.92
Redox Potential (Eh) 448	Redox Potential (Eh) 448
Turb. 55.2	Turb. 62.1

well Ran dry after 6 min 26 sec.

Turbidity _____ Turbidity _____

Volume of Water Purged 62 Well Ran dry

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = = 10

Time to evacuate two casing volumes (2V)
T = 2V/Q = 6.86 Min

Number of casing volumes evacuated (if other than two) 1.82

If well evacuated to dryness, number of gallons evacuated 62

Name of Certified Analytical Laboratory if Other Than Energy Labs N/A

Type of Sample	Sample Taken (Circle)	Sample Volume (indicate if other than as specified below)	Filtered (circle)	Preservative Added (circle)
VOCs	(Y) N	40 ml	Y (N)	HCl (Y) N
Nutrients	(Y) N	100 ml	Y (N)	H_2SO_4 (Y) N
Heavy Metals	Y N	250 ml	Y N	HNO_3 Y N
All Other Non-Radiologics	Y N	250 ml	Y N	No Preservative Added
Gross Alpha	Y N	1,000 ml	Y N	H_2SO_4 Y N
Other (specify) Chloride	(Y) N	Sample volume _____	Y (N)	Y (N) If a preservative is used, Specify Type and Quantity of Preservative: _____

Comments Arrived on site at 1010. Turner Holliday & Garrin Palmer on site for Purge. Purge began at 1013. Purged well for a total of 6 Minutes & 28 Seconds. Well Ran dry and purge ended at 1019. Water was mostly clear Throughout purge. DTW After purge was 98.96. Left site at 1020.
Arrived on site at 0811. Turner & Garrin on site for sampling Equip. took DTW and bailed samples at 0817. left site at 0819.

ATTACHMENT 1
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUND WATER

Description of Sampling Event: 3rd Quarter chloroform 2010

Location (well name) TW4-28 Sampler Name and initials Tanner Holliday, Garrin Palmer

Date and Time for Purging 8-17-2010 and Sampling (if different) N/A

Well Purging Equip Used: X pump or __ bailer Well Pump (if other than Bennet) Grundfos

Sampling Event Quarterly chloroform Prev. Well Sampled in Sampling Event TW4-1

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 998 uMHOS/cm Well Depth N/A

Depth to Water Before Purging N/A Casing Volume (V) 4" Well: N/A (.653h)
4" Well: N/A (.367h)

Conductivity (avg) pH of Water (avg)

Well Water Temp. (avg) Redox Potential (avg) Turbidity

Weather Cond Sunny Ext'l Amb. Temp (prior to sampling event) 23°C

Time: 1002 Gal. Purged 110	Time: Gal. Purged
Conductance 3.0	Conductance
pH 6.91	pH
Temperature 22.46	Temperature
Redox Potential (Eh) 98	Redox Potential (Eh)
Turbidity 0	Turbidity
Time: Gal. Purged	Time: Gal. Purged
Conductance	Conductance
pH	pH
Temperature	Temperature
Redox Potential (Eh)	Redox Potential (Eh)
Turb.	Turb.

RINSATE BLANK TW4-2

Turbidity _____ Turbidity _____

Volume of Water Purged 150 Gallons

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = = 10

Time to evacuate two casing volumes (2V)
T = 2V/Q = N/A

Number of casing volumes evacuated (if other than two) N/A

If well evacuated to dryness, number of gallons evacuated N/A

Name of Certified Analytical Laboratory if Other Than Energy Labs N/A

Type of Sample	Sample Taken (circle)	Sample Volume (indicate if other than as specified below)	Filtered (circle)	Preservative Added (circle)
VOCs	(Y) N	3x40 ml	Y (N)	HCL (Y) N
Nutrients	(Y) N	100 ml	Y (N)	H_2SO_4 (Y) N
Heavy Metals	Y N	250 ml	Y N	HNO_3 Y N
All Other Non-Radiologics	Y N	250 ml	Y N	No Preservative Added
Gross Alpha	Y N	1,000 ml	Y N	H_2SO_4 Y N
Other (specify) Chloride	(Y) N	Sample volume _____	Y (N)	(N) If a preservative is used, Specify Type and Quantity of Preservative: _____

Comments Arrived on site at 0945. Turner Holliday & Garrin Palmer on site for Rinsate and Sampling event. Rinsate began at 0947. Pumped 50 Gallons of Acid water, 50 Gallons of soap water and 50 Gallons of DI Water. Rinsate ended and Samples collected at 1003. Left site at 1006.

Rinsate B4 TW4-2

ATTACHMENT 1
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUND WATER

Description of Sampling Event: 3rd Quarter Chloroform 2010

Location (well name) TW4 - 3 Sampler Name and initials Tanner Holliday, Garrin Palmer

Date and Time for Purging 8-9-2010 and Sampling (if different) 8-10-2010

Well Purging Eqtip Used: X pump or __ bailer Well Pump (if other than Beanet) GrundFos

Sampling Event Quarterly Chloroform Prev. Well Sampled in Sampling Event TW4-3R

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 998 uMHOS/cm Well Depth 97

Depth to Water Before Purging 48.56 Casing Volume (V) 4" Well 31.63 (.653h)
Before Sample 48.47 3" Well ____ (.367h)

Conductance (avg) pH (avg)

Well Water Temp. (avg) Redox Potential (Eh) Turbidity

Weather Cond. Sunny Ext'l Amb. Temp (prior to sampling event) 21° C

Time: 0859 Gal. Purged 30	Time: 0900 Gal. Purged 38
Conductance 1749	Conductance 1747
pH 6.46	pH 6.49
Temperature 14.56	Temperature 14.50
Redox Potential (Eh) 423	Redox Potential (Eh) 426
Turbidity 32.5	Turbidity 9.4
Time: 0901 Gal. Purged 40	Time: 0902 Gal. Purged 50
Conductance 1743	Conductance 1732
pH 6.53	pH 6.55
Temperature 14.56	Temperature 14.51
Redox Potential (Eh) 427	Redox Potential (Eh) 428
Turb. 8.5	Turb. 8.3

Turbidity _____ Turbidity _____

Volume of Water Purged 70

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = = 10

Time to evacuate two casing volumes (2V)
T = 2V/Q = 6.32 Min

Number of casing volumes evacuated (if other than two) N/A

If well evacuated to dryness, number of gallons evacuated N/A

Name of Certified Analytical Laboratory if Other Than Energy Labs N/A

Type of Sample	Sample Taken (circle)	Sample Volume (indicate if other than as specified below)	Filtered (circle)	Preservative Added (circle)
VOCs	(Y) N	3x40 ml	Y (N)	HCL (Y) N
Nutrients	(Y) N	100 ml	Y (N)	H_2SO_4 (Y) N
Heavy Metals	Y N	250 ml	Y N	HNO_3 Y N
All Other Non-Radiologics	Y N	250 ml	Y N	No Preservative Added
Gross Alpha	Y N	1,000 ml	Y N	H_2SO_4 Y N
Other (specify) Chloride	(Y) N	Sample volume _____	Y (N)	Y (N) If a preservative is used, Specify Type and Quantity of Preservative: _____

Comments Arrived on site at 0852. Tanner Holliday & Garrin Palmer on site for Purge. Purge began at 0857. Purged well for a total of 7 Minutes. Water was Mostly clear Throughout Purge. Purge ended at 0904. Left site at 0907.
DTW After purge 91.08

Arrived on site at 0615. Tanner Holliday present for sampling event. Took DTW and Then samples were Boiled at 0627. Left site at 0630.

ATTACHMENT 1
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUND WATER

Description of Sampling Event: 3rd Quarter Chloroform 2010

Location (well name) TW4-3R Sampler Name and initials Tanner Holliday, Garrin Palmer

Date and Time for Purging 8-9-2010 and Sampling (if different) N/A

Well Purging Equip Used: X pump or __ bailer Well Pump (if other than Bennet) Grundfos

Sampling Event Quarterly chloroform Prev. Well Sampled in Sampling Event N/A

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 998 uMHOS/cm Well Depth N/A

Depth to Water Before Purging N/A Casing Volume (V) 4" Well: N/A (.653h)
3" Well: N/A (.367h)

Conductance (avg) pH of Water (avg)

Well Water Temp. (avg) Redox Potential (Eh) Turbidity

Weather Cond. Sunny Ext'l Amb. Temp (prior to sampling event)

Time: 0840 Gal. Purged 190	Time: Gal. Purged
Conductance 9.2	Conductance
pH 9.06	pH
Temperature 22.73	Temperature
Redox Potential (Eh) 78	Redox Potential (Eh)
Turbidity 0	Turbidity
Time: Gal. Purged	Time: Gal. Purged
Conductance	Conductance
pH	pH
Temperature	Temperature
Redox Potential (Eh)	Redox Potential (Eh)
Turb.	Turb.

RINSATE BH TW4-3

Turbidity _____ Turbidity _____

Volume of Water Purged 150 Gallons

Pumping Rate Calculation

Flow Rate (Q), in gpm. S/60 = = 10

Time to evacuate two casing volumes (2V) T = 2V/Q = N/A

Number of casing volumes evacuated (if other than two) N/A

If well evacuated to dryness, number of gallons evacuated N/A

Name of Certified Analytical Laboratory if Other Than Energy Labs N/A

Type of Sample	Sample Taken (circle)	Sample Volume (indicate if other than as specified below)	Filtered (circle)	Preservative Added (circle)
VOCs	Y N	3x40 ml	Y (N)	HCL (Y) N
Nutrients	(Y) N	100 ml	Y (N)	H_2SO_4 (Y) N
Heavy Metals	Y N	250 ml	Y N	HNO_3 Y N
All Other Non-Radiologics	Y N	250 ml	Y N	No Preservative Added
Gross Alpha	Y N	1,000 ml	Y N	H_2SO_4 Y N
Other (specify) Chloride	(Y) N	Sample volume _____	Y (N)	((N) If a preservative is used, Specify Type and Quantity of Preservative: _____

Comments Arrived on site at 0820. Tanner Holliday & Garrin Palmer on site for Rinsate and Sampling event. Rinsate began at 0825. Pumped 50 Gallons of Acid water, 50 Gallons of soap water and 50 Gallons of DI water. Rinsate ended and Samples collected at [redacted] Left site at [redacted] 0844

Rinsate B4 TW4-3

ATTACHMENT 1
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUND WATER

Description of Sampling Event: 3rd Quarter Chloroform 2010

Location (well name) TW4-4 Sampler Name and initials Tanner Holliday, Garrin Palmer

Date and Time for Purging 8-16-2010 and Sampling (if different) N/A

Well Purging Equip Used: X pump or __ bailer Well Pump (if other than Bennet) Grundfos

Sampling Event Quarterly Chloroform Prev. Well Sampled in Sampling Event MW4

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 998 uMHOS/cm Well Depth 112

Depth to Water Before Purging 68.82 Casing Volume (V) 4" Well: N/A (.653h)
3" Well: N/A (.367h)

Conductance (avg) pH of Water (avg)

Well Water Temp. (avg) Redox Potential (Eh) Turbidity

Weather Cond. Partly Cloudy Ext'l Amb. Temp (prior to sampling event) 26°c

Time: 1048 Gal. Purged	Time: 1049 Gal. Purged
Conductance 2431	Conductance 2427
pH 6.45	pH 6.43
Temperature 15.04	Temperature 15.00
Redox Potential (Eh) 253	Redox Potential (Eh) 260
Turbidity 2.1	Turbidity 8.0
Time: 1050 Gal. Purged	Time: 1051 Gal. Purged
Conductance 2423	Conductance 2423
pH 6.40	pH 6.39
Temperature 14.96	Temperature 14.94
Redox Potential (Eh) 266	Redox Potential (Eh) 268
Turb. 8.0	Turb. 8.2

Turbidity _____ Turbidity _____

Volume of Water Purged N/A

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = = N/A

Time to evacuate two casing volumes (2V)
T = 2V/Q = N/A

Number of casing volumes evacuated (if other than two) N/A

If well evacuated to dryness, number of gallons evacuated N/A

Name of Certified Analytical Laboratory if Other Than Energy Labs N/A

Type of Sample	Sample Taken (circle)	Sample Volume (indicate if other than as specified below)	Filtered (circle)	Preservative Added (circle)
VOCs	Y N	3x40 ml	Y N	HCL Y N
Nutrients	Y N	100 ml	Y N	H_2SO_4 Y N
Heavy Metals	Y N	250 ml	Y N	HNO_3 Y N
All Other Non-Radiologics	Y N	250 ml	Y N	No Preservative Added
Gross Alpha	Y N	1,000 ml	Y N	H_2SO_4 Y N
Other (specify) Chloride	Y N	Sample volume	Y N	Y N If a preservative is used, Specify Type and Quantity of Preservative:

Comments Arrived on site at 1041. Tanner Holliday & Garrin Palmer on site for Purge. ~~[illegible]~~ Took DTW Then 4 sets of Parameters. Samples were pulled at 1052. Left site at 1054. Water was clear! Continuous pumping well.

ATTACHMENT 1
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUND WATER

Description of Sampling Event: 3rd Quarter Chloroform 2010

Location (well name) TW4 - 5 Sampler Name and initials Tanner Holliday, Garrin Palmer

Date and Time for Purging 8-10-2010 and Sampling (if different) 8-11-2010

Well Purging Equip Used: X pump or __ bailer Well Pump (if other than Bonnet) Grundfos

Sampling Event Quarterly Chloroform Prev. Well Sampled in Sampling Event TW4-5R

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 998 uMHOS/cm Well Depth 120

Depth to Water Before Purging 54.81 Casing Volume (V) 4" Well: 42.56 (.653h)

Before Sample 54.77 3" Well: [illegible] (.367h)

Conductance (avg) pH of Water (avg)

Well Water Temp. (avg) Redox Potential (Eh) Turbidity

Weather Cond. Partly Cloudy Ext'l Amb. Temp (prior to sampling event) 28°C

Time: 1306 Gal. Purged 50	Time: 1307 Gal. Purged 60
Conductance 1763	Conductance 1761
pH 6.53	pH 6.54
Temperature 15.43	Temperature 15.42
Redox Potential (Eh) 376	Redox Potential (Eh) 377
Turbidity 66.8	Turbidity 49.2
Time: 1308 Gal. Purged 70	Time: 1309 Gal. Purged 80
Conductance 1739	Conductance 1732
pH 6.55	pH 6.56
Temperature 15.41	Temperature 15.40
Redox Potential (Eh) 379	Redox Potential (Eh) 383
Turb. 65.5	Turb. 68.8

Turbidity _____ Turbidity _____

Volume of Water Purged 90

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = = 10

Time to evacuate two casing volumes (2V)
T = 2V/Q = 8.51 Min.

Number of casing volumes evacuated (if other than two) N/A

If well evacuated to dryness, number of gallons evacuated N/A

Name of Certified Analytical Laboratory if Other Than Energy Labs N/A

Type of Sample	Sample Taken (circle)	Sample Volume (indicate if other than as specified below)	Filtered (circle)	Preservative Added (circle)
VOCs	(Y) N	3x40 ml	Y (N)	HCL (Y) N
Nutrients	(Y) N	100 ml	Y (N)	H_2SO_4 (Y) N
Heavy Metals	Y N	250 ml	Y N	HNO_3 Y N
All Other Non-Radiologics	Y N	250 ml	Y N	No Preservative Added
Gross Alpha	Y N	1,000 ml	Y N	H_2SO_4 Y N
Other (specify) Chloride	(Y) N	Sample volume _____	Y (N)	Y (N) If a preservative is used, Specify Type and Quantity of Preservative: _____

Comments Arrived on site at 1258. Tanner Holliday & Garrin Palmer on site for Purge. Purge began at 1301. Purged well for a total of 9 Minutes. Water was a little Murky. Purge ended at 1310. DTW after Purge was 60.61
Arrived on site at 0609. Tanner present for sampling event. Took DTW Then Sampler Bailed at 0617. Left site at 0619.

ATTACHMENT 1
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUND WATER

Description of Sampling Event: 3rd Quarter chloroform 2010

Location (well name) TW4 - 5R Sampler Name and initials Tanner Holliday, Garrin Palmer

Date and Time for Purging 8-10-2010 and Sampling (if different) N/A

Well Purging Equip Used: X pump or __ bailer Well Pump (if other than Bennet) Grundfos

Sampling Event Quarterly chloroform Prev. Well Sampled in Sampling Event TW4-16

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 998 uMHOS/cm Well Depth N/A

Depth to Water Before Purging N/A Casing Volume (V) 4" Well: N/A (.653h)
3" Well: N/A (.367h)

Conductance (avg) pH of Water (avg)

Well Water Temp. (avg) Redox Potential (Eh) Turbidity

Weather Cond Partly cloudy Ext'l Amb. Temp (prior to sampling event) 28°c

Time: 1249 Gal. Purged 190	Time: Gal. Purged
Conductance 3.5	Conductance
pH 7.58	pH
Temperature 24.39	Temperature
Redox Potential (Eh) 336	Redox Potential (Eh)
Turbidity 0	Turbidity
Time: Gal. Purged	Time: Gal. Purged
Conductance	Conductance
pH	pH
Temperature	Temperature
Redox Potential (Eh)	Redox Potential (Eh)
Turb.	Turb.

RINSATE B4 TW4-5

Turbidity _____ Turbidity _____

Volume of Water Purged 150 Gallons

Pumping Rate Calculation

Flow Rate (Q), in gpm.
5/60 = = 10

Time to evacuate two casing volumes (2V)
T = 2V/Q = N/A

Number of casing volumes evacuated (if other than two) N/A

If well evacuated to dryness, number of gallons evacuated N/A

Name of Certified Analytical Laboratory if Other Than Energy Labs N/A

Type of Sample	Sample Taken (circle)	Sample Volume (indicate if other than as stated below)	Filtered (circle)	Preservative Added (circle)
VOCs	(Y) N	3x40 ml	Y (N)	HCL (Y) N
Nitrients	(Y) N	100 ml	Y (N)	H_2SO_4 (Y) N
Heavy Metals	Y N	250 ml	Y (N)	HNO_3 Y N
All Other Non-Radiologics	Y N	250 ml	Y N	No Preservative Added
Gross Alpha	Y N	1,000 ml	Y N	H_2SO_4 Y N
Other (specify) Chloride	(Y) N	Sample volume _____	Y (N)	(N) If a preservative is used, Specify Type and Quantity of Preservative: _____

Comments Arrived on site at 1232. Turner Holliday & Garrin Palmer on site for Rinsate and Sampling event. Rinsate began at 1234. Pumped 50 Gallons of acid water, 50 Gallons of soap water and 50 Gallons of DI Water. Rinsate ended and Samples collected at 1250. Left site at 1252.

Rinsate B4 TW4-5

ATTACHMENT 1
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUND WATER

Description of Sampling Event: 3rd Quarter Chloroform 2010

Location (well name) TW4 - 6 Sampler Name and initials Tanner Holliday, Garrin Palmer

Date and Time for Purging 8-11-2010 and Sampling (if different) 8-12-2010

Well Purging Equip Used: X pump or __ bailer Well Pump (if other than Bennet) Grundfos

Sampling Event Quarterly Chloroform Prev. Well Sampled in Sampling Event TW4-6R

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 998 uMHOS/cm Well Depth 97.50

Depth to Water Before Purging 70.89 Casing Volume (V) 4" Well 17.37 (.653h)
Before Sample 71.45 1" Well ___ (.367h)

Conductance (avg) ___ pH of Water (avg) ___

Well Water Temp. (avg) ___ Redox Potential (Eh) ___ Turbidity ___

Weather Cond. Partly Cloudy Ext'l Amb. Temp. (prior to sampling event) 28°C

Time: 1213 1218 Gal. Purged 5	Time: 1215 Gal. Purged 10
Conductance 3627	Conductance 3548
pH 6.42	pH 6.48
Temperature 19.91	Temperature 16.78
Redox Potential (Eh) 445	Redox Potential (Eh) 436
Turbidity 228.6	Turbidity 243.8
Time: 1219 Gal. Purged 20	Time: 1220 Gal. Purged 30
Conductance 3566	Conductance 3500
pH 6.62	pH 6.70
Temperature 15.78	Temperature 15.52
Redox Potential (Eh) 432	Redox Potential (Eh) 428
Turb. 138.0	Turb. 99.6

Pumped Well Dry!

4 Min 38 sec.

Turbidity _____ Turbidity _____

Volume of Water Purged 44

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = = 10

Time to evacuate two casing volumes (2V)
T=2V/Q = 3.47 Min

Number of casing volumes evacuated (if other than two) N/A

If well evacuated to dryness, number of gallons evacuated N/A

Name of Certified Analytical Laboratory if Other Than Energy Labs N/A

Type of Sample	Sample Taken (circle)	Sample Volume (indicate if other than recommended below)	Filtered (circle)	Preservative Added (circle)
VOCs	Y N	3x40 ml	Y (N)	HCL (Y) N
Nutrients	(Y) N	100 ml	Y (N)	H_2SO_4 (Y) N
Heavy Metals	Y N	250 ml	Y (N)	HNO_3 Y N
All Other Non-Radiologics	Y N	250 ml	Y N	No Preservative Added
Gross Alpha	Y N	1,000 ml	Y N	H_2SO_4 Y N
Other (specify) Chloride	(Y) N	Sample volume	Y (N)	Y (N)

If a preservative is used, Specify Type and Quantity of Preservative: _____

Comments Arrived on site at 1213. Tanner Halliday & Garrin Palmer on site for Purge. Purge began at 1217. Purged well for a total of 4 Minutes & 38 Seconds. Pumped well Dry. Water was dirty with sand particles. Purge ended at 1221. DTW After Purge was 95.39. bottom of pump had some clay/sand like particles on it when pulled from well. Left site at 1228.

Arrived on site at 0800. Tanner & Garrin present for sampling event. Took DTW. Then Bailed sampled at 0807. Left site at 0809.

ATTACHMENT 1
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUND WATER

Description of Sampling Event: 3rd Quarter Chloroform 2010

Location (well name) TW4-6R Sampler Name and initials Tanner Holliday, Garrin Palmer

Date and Time for Purging 8-11-2010 and Sampling (if different) N/A

Well Purging Equip Used: X pump or __ bailer Well Pump (if other than Bennet) Grundfos

Sampling Event Quarterly chloroform Prev. Well Sampled in Sampling Event TW4-22

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 998 uMHOS/cm Well Depth N/A

Depth to Water Before Purging N/A Casing Volume (V) 4" Well: N/A (.653h)
3" Well: N/A (.367h)

Conductance (avg) pH of Water (avg)

Well Water Temp. (avg) Redox Potential (Eh) Turbidity

Weather Cond. Partly Cloudy Ext'l Amb. Temp. (prior to sampling event) 25°C

RINSATE B4 TW4-6

Time: 1015 Gal. Purged: Min	Time: Gal. Purged:
Conductance: 2.0	Conductance:
pH 7.67	pH
Temperature 25.07	Temperature
Redox Potential (Eh) 328	Redox Potential (Eh)
Turbidity 0	Turbidity
Time: Gal. Purged	Time: Gal. Purged
Conductance	Conductance
pH	pH
Temperature	Temperature
Redox Potential (Eh)	Redox Potential (Eh)
Turb.	Turb.

Turbidity _____ Turbidity _____

Volume of Water Purged 150 Gallons

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = = 10

Time to evacuate two casing volumes (2V)
T = 2V/Q = N/A

Number of casing volumes evacuated (if other than two) N/A

If well evacuated to dryness, number of gallons evacuated N/A

Name of Certified Analytical Laboratory if Other Than Energy Labs N/A

Type of Sample	Sample Taken (circle)	Sample Volume (indicate if other than as specified below)	Filtered (circle)	Preservative Added (circle)
VOCs	(Y) N	3x40 ml	Y (N)	HCL (Y) N
Nutrients	(Y) N	100 ml	Y (N)	H_2SO_4 (Y) N
Heavy Metals	Y N	250 ml	Y N	HNO_3 Y N
All Other Non-Radiologics	Y N	250 ml	Y N	No Preservative Added
Gross Alpha	Y N	1,000 ml	Y N	H_2SO_4 Y N
Other (specify) Chloride	(Y) N	Sample volume _____	Y (N)	((N)

If a preservative is used, Specify Type and Quantity of Preservative: _____

Comments Arrived on site at 1037. Turner Holliday & Garrin Palmer on site for Rinsate and Sampling event. Rinsate began at 1040. Pumped 50 Gallons of Acid Water, 50 Gallons of soap water and 50 Gallons of DI Water. Rinsate ended and Samples collected at 1056. Left Site at 1205.

Rinsate B4 TW4-6

ATTACHMENT 1
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUND WATER

Description of Sampling Event: 3rd Quarter Chloroform 2010

Location (well name) TW4-7 Sampler Name and Initials Tanner Holliday, Garrin Palmer

Date and Time for Purging 8-17-2010 and Sampling (if different) 8-18-2010

Well Purging Equip Used: X pump or __ bailer Well Pump (if other than Bennet) Grundfos

Sampling Event Quarterly Chloroform Prev. Well Sampled in Sampling Event TW4-7R

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 998 µMHOS/cm Well Depth 120

Depth to Water Before Purging 67.38 Casing Volume (V) 4" Well: 34.36 (.653h)
Before Sample 67.79 2" Well: [illegible] (.367h)

Conductance (avg) pH for Water (avg)

Well Water Temp. (avg) Redox Potential (Eh) Turbidity

Weather Cond. Sunny Ext'l Amb. Temp. (prior to sampling event) 23°C

Time: 0848 Gal. Purged 30	Time: 0850 Gal. Purged 40
Conductance 1621	Conductance 1629
pH 6.78	pH 6.80
Temperature 14.95	Temperature 14.79
Redox Potential (Eh) 288	Redox Potential (Eh) 290
Turbidity 15.9	Turbidity 20.4
Time: 0851 Gal. Purged 50	Time: 0852 Gal. Purged 60
Conductance 1625	Conductance 1691
pH 6.80	pH 6.80
Temperature 14.76	Temperature 14.75
Redox Potential (Eh) 292	Redox Potential (Eh) 295
Turb. 43.7	Turb. 42.5

Well Ran dry after 6 Min + 33 seconds

Turbidity _____ Turbidity _____

Volume of Water Purged 64 well Ran dry

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = = 10

Time to evacuate two casing volumes (2V)
T = 2V/Q = 6.87 Min

Number of casing volumes evacuated (if other than two) 1.84

If well evacuated to dryness, number of gallons evacuated 64

Name of Certified Analytical Laboratory if Other Than Energy Labs N/A

Type of Sample	Sample Taken (circle)	Sample Volume (indicate if other than as specified below)	Filtered (circle)	Preservative Added (circle)
VOCs	Y N	3-40 ml	Y (N)	HCL (Y) N
Nutrients	(Y) N	(60 ml)	Y (N)	H_2SO_4 (Y) N
Heavy Metals	Y N	250 ml	Y N	HNO_3 Y N
All Other Non-Radiologics	Y N	250 ml	Y N	No Preservative Added
Gross Alpha	Y N	1,000 ml	Y N	H_2SO_4 Y N
Other (specify) Chloride	(Y) N	Sample volume _____	Y (N)	Y (N) If a preservative is used, Specify Type and Quantity of Preservative: _____

Comments Arrived on site at 0842. Turner Holliday & Garcia Palmer on site for Purge. Purge began at 0846. Purged well for a total of 6 Minutes & 33 Seconds. Well Ran dry! water Was clear Throughout purge. DTW after purge was 99.61. Left site at 0856. Purge ended at 0852.
Arrive on site at 0820. Turner & Garcia on site for sampling Event. Took DTW Then Bailed samples at 0827. Left site at 0829

ATTACHMENT 1
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUND WATER

Description of Sampling Event: 3rd Quarter Chloroform 2010

Location (well name) TW4 - 7R Sampler Name and initials Tanner Holliday, Garrin Palmer

Date and Time for Purging 8-17-2010 and Sampling (if different) N/A

Well Purging Equip Used: X pump or __ bailer Well Pump (if other than Bennet) Grundfos

Sampling Event Quarterly chloroform Prev. Well Sampled in Sampling Event TW4-15

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 998 uMHOS/cm Well Depth N/A

Depth to Water Before Purging N/A Casing Volume (V) 4" Well: N/A (.653h)
3" Well: N/A (.367h)

Conductance (avg) pH of Water (avg)

Well Water Temp. (avg) Redox Potential (Eh) Turbidity

Weather Cond. Sunny Ext'l Amb. Temp (prior to sampling event) 22°C

Time: 0835 Gal. Purged: 140	Time: Gal. Purged
Conductance 3.4	Conductance
pH 7.50	pH
Temperature 22.81	Temperature
Redox Potential (Eh) 350	Redox Potential (Eh)
Turbidity 0	Turbidity
Time: Gal. Purged	Time: Gal. Purged
Conductance	Conductance
pH	pH
Temperature	Temperature
Redox Potential (Eh)	Redox Potential (Eh)
Turb.	Turb.

RINSATE B4 TW4-7

Turbidity _____ Turbidity _____

Volume of Water Purged 150 Gallons

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = = 10

Time to evacuate two casing volumes (2V)
T = 2V/Q = N/A

Number of casing volumes evacuated (if other than two) N/A

If well evacuated to dryness, number of gallons evacuated N/A

Name of Certified Analytical Laboratory if Other Than Energy Labs N/A

Type of Sample	Sample Taken (circle)	Sample Volume (indicate if other than as specified below)	Filtered (circle)	Preservative Added (circle)
VOCs	Y N	3x40 ml	Y (N)	HCL (Y) N
Nutrients	(Y) N	100 ml	Y (N)	H_2SO_4 (Y) N
Heavy Metals	Y N	250 ml	Y N	HNO_3 Y N
All Other Non-Radiologics	Y N	250 ml	Y N	No Preservative Added
Gross Alpha	Y N	1,000 ml	Y N	H_2SO_4 Y N
Other (specify) Chloride	(Y) N	Sample volume _____	Y (N)	((N)
				If a preservative is used, Specify Type and Quantity of Preservative:

Comments Arrived on site at 0817. Turner Holliday & Garrin Palmer on site for Rinsate and Sampling event. Rinsate began at 0820. Pumped 50 Gallons of Acid water 50 Gallons of soap water and 50 Gallons of DI water. Rinsate ended and Samples collected at 0836. Left site at 0838.

Rinsate B4 TW4-7

ATTACHMENT 1
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUND WATER

Description of Sampling Event: 3rd Quarter Chloroform 2010

Location (well name) TW4-8 Sampler Name and initials Tanner Holliday, Garrin Palmer

Date and Time for Purging 8-10-2010 and Sampling (if different) 8-11-2010

Well Purging Equip Used: X pump or __ bailer Well Pump (if other than Bennet) Grundfos

Sampling Event Quarterly Chloroform Prev. Well Sampled in Sampling Event TW4-8R

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 998 uMHOS/cm Well Depth 125

Depth to Water Before Purging 66.94 Casing Volume (V) 4" Well: 37.41 (.653h)
67.32 1" Well: avg (.367h)

Conductance (avg) pH of Water (avg)

Well Water Temp. (avg) Redox Potential (Eh) Turbidity

Weather Cloud: Partly Cloudy Ext'l Amb. Temp (prior to sampling event) 23°C

Time: 0854 Gal Purged 10	Time: 0855 Gal. Purged 50
Conductance 3241	Conductance 3284
pH 6.76	pH 6.77
Temperature 14.97	Temperature 14.97
Redox Potential (Eh) 113	Redox Potential (Eh) 129
Turbidity 53.8	Turbidity 56.8

			80	90	100
Time: 0855	Gal. Purged 60	Time: 0856 Gal. Purged 70	0857	0858	0859
Conductance 3270		Conductance 3266	3269	3259	3261
pH 6.78		pH 6.78	6.79	6.79	6.78
Temperature 14.93		Temperature 14.95	14.89	14.86	14.82
Redox Potential (Eh) 135		Redox Potential (Eh) 145	156	161	165
Turb. 43.4		Turb. 75.0	77.4	53.2	52.3

Turbidity _____ Turbidity _____

Volume of Water Purged 100

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = = 10

Time to evacuate two casing volumes (2V)
T = 2V/Q = 7.58 Min

Number of casing volumes evacuated (if other than two) N/A

If well evacuated to dryness, number of gallons evacuated N/A

Name of Certified Analytical Laboratory if Other Than Energy Lab N/A

Type of Sample	Sample Taken (circle)	Sample Volume (indicate if other than specified below)	Filtered (circle)	Preservative Added (circle)
VOCs	(Y) N	3x40 ml	Y (N)	HCL (Y) N
Nutrients	(Y) N	100 ml	Y (N)	H_2SO_4 (Y) N
Heavy Metals	Y N	250 ml	Y N	HNO_3 Y N
All Other Non-Radiologics	Y N	250 ml	Y N	No Preservative Added
Gross Alpha	Y N	1,000 ml	Y N	H_2SO_4 Y N
Other (specify) Chloride	(Y) N	Sample volume _____	Y (N)	Y (N) If a preservative is used, Specify Type and Quantity of Preservative: _____

Comments: Arrived on site at 0846. Tanner Halliday & Garcia Palmer on site for Purge. Purge began at 0849. Purged well for a total of 10 Minutes. Took an extra four minutes to get stable parameters. Achieved Stable parameters After Ten Minutes. Purge ended at 0858 Water was Mucky. Left site at 0905.
Arrived on site at 0639. Tanner present for sampling event. Took DTW Then Bailed samples at 0648. Left site at 0650

ATTACHMENT 1
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUND WATER

Description of Sampling Event: 3rd Quarter chloroform 2010

Location (well name) TW4-8R Sampler Name and initials Tanner Holliday, Garrin Palmer

Date and Time for Purging 8-10-2010 and Sampling (if different) N/A

Well Purging Equip Used: X pump or __ bailer Well Pump (if other than Bennet) GrundFos

Sampling Event Quarterly chloroform Prev. Well Sampled in Sampling Event TW4-25

pH Buffer 7.0 7.0 pH Buffer 4.0 H2O

Specific Conductance 998 uMHOS/cm Well Depth N/A

Depth to Water Before Purging N/A Casing Volume (V) 4" Well: N/A (.653h)
3" Well: N/A (.367h)

Conductance (avg) pH (avg)

Well Water Temp. (avg) Redox Potential (Eh) Turbidity

Weather Cond. Partly Cloudy Ext'l Amb. Temp (prior to sampling event) 23°C

Time: 0834 Gal. Purged 110	Time: Gal. Purged
Conductance 4.8	Conductance
pH 7.97	pH
Temperature 23.34	Temperature
Redox Potential (Eh) 308	Redox Potential (Eh)
Turbidity 0	Turbidity
Time: Gal. Purged	Time: Gal. Purged
Conductance	Conductance
pH	pH
Temperature	Temperature
Redox Potential (Eh)	Redox Potential (Eh)
Turb.	Turb.

RINSATE BY TW4-8

Turbidity _____ Turbidity _____

Volume of Water Purged 150 Gallons

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = = 10

Time to evacuate two casing volumes (2V)
T = 2V/Q = N/A

Number of casing volumes evacuated (if other than two) N/A

If well evacuated to dryness, number of gallons evacuated N/A

Name of Certified Analytical Laboratory if Other Than Energy Labs N/A

Type of Sample	Sample Taken (circle)	Sample Volume (indicate if other than as described below)	Filtered (circle)	Preservative Added (circle)
VOCs	Y N	3x40 ml	Y (N)	HCL Y N
Nutrients	Y N	100 ml	Y (N)	H_2SO_4 Y N
Heavy Metals	Y N	250 ml	Y N	HNO_3 Y N
All Other Non-Radiologics	Y N	250 ml	Y N	No Preservative Added
Gross Alpha	Y N	1,000 ml	Y N	H_2SO_4 Y N
Other (specify) Chloride	(Y) N	Sample volume _____	Y (N)	(N)

If a preservative is used, Specify Type and Quantity of Preservative: _____

Comments Arrived on site at 0820. Turner Holliday & Garrin Palmer on site for Rinsate and Sampling event. Rinsate began at 0823. Pumped 50 Gallons of Acid Water 50 Gallons of soap water and 50 Gallons of DI Water. Rinsate ended and Samples collected at 0840. Left site at 0842.

Rinsate B4 TW4-8

ATTACHMENT 1
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUND WATER

Description of Sampling Event: 3rd Quarter Chloroform 2010

Location (well name) TW4 - 9 Sampler Name and initials Tanner Holliday, Garrin Palmer

Date and Time for Purging 8-10-2010 and Sampling (if different) 8-11-2010

Well Purging Equip Used: X pump or __ bailer Well Pump (if other than Bennet) Grundfos

Sampling Event Quarterly Chloroform Prev. Well Sampled in Sampling Event TW4-9R

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 998 uMHOS/cm Well Depth ~~(TOC)~~ 120

Depth to Water Before Purging 53.43 Casing Volume (V) 4" Well: 43.47 (.653h)

Before Sample 53.44 3" Well ~~[illegible]~~ (.367h)

Conductance (avg) pH of Water (avg)

Well Water Temp. (avg) Redox Pot. Initial (Eh) Turbidity

Weather Cond. Partly Cloudy Ext'l Amb. Temp (prior to sampling event) 24°C

Time: 0945 Gal. Purged 50	Time: 0946 Gal. Purged 60
Conductance: 2423	Conductance: 2450
pH 6.40	pH 6.43
Temperature 14.86	Temperature 14.88
Redox Potential (Eh) 370	Redox Potential (Eh) 370
Turbidity 54.1	Turbidity 42.5
Time: 0947 Gal. Purged 70	Time: 0948 Gal. Purged 80
Conductance 2432	Conductance 2466
pH 6.41	pH 6.41
Temperature 14.89	Temperature 14.84
Redox Potential (Eh) 370	Redox Potential (Eh) 371
Turb. 51.2	Turb. 36.5

Turbidity _____ Turbidity _____

Volume of Water Purged 90

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = = 10

Time to evacuate two casing volumes (2V)
T = 2V/Q = 8.69 Min

Number of casing volumes evacuated (if other than two) N/A

If well evacuated to dryness, number of gallons evacuated N/A

Name of Certified Analytical Laboratory if Other Than Energy Labs N/A

Type of Sample	Sample Taken (circle)	Sample Volume (indicate if other than as specified below)	Filtered (circle)	Preservative Added (circle)
VOCs	Y N	3x40 ml	Y (N)	HCL (Y) N
Nutrients	(Y) N	100 ml	Y (N)	H_2SO_4 (Y) N
Heavy Metals	Y N	250 ml	Y N	HNO_3 Y N
All Other Non-Radiologics	Y N	250 ml	Y N	No Preservative Added
Gross Alpha	Y N	1,000 ml	Y N	H_2SO_4 Y N
Other (specify) Chloride	(Y) N	Sample volume _____	Y (N)	Y (N) If a preservative is used, Specify Type and Quantity of Preservative: _____

Comments Arrived on site at 0938. Turner Holliday & Garrin Palmer on site for Purge. Purge began at 0940. Purged well for a total of 9 Minutes. Water was Mostly clear Throughout Purge. Purge ended at 0949. DTW after Purge 71.41 left site at 0953. Arrived on site at 0623. Turner present for sampling event. Took DTW Then Bailed samples at 0632. Left site at 0634.

ATTACHMENT 1
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUND WATER

Description of Sampling Event: 3rd Quarter Chloroform 2010

Location (well name) TW4 - 9R Sampler Name and initials Tanner Holliday, Garrin Palmer

Date and Time for Purging 8-10-2010 and Sampling (if different) N/A

Well Purging Equip Used: X pump or __ bailer Well Pump (if other than Bennet) Grundfos

Sampling Event Quarterly chloroform Prev. Well Sampled in Sampling Event TW4-8

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 998 uMHOS/cm Well Depth N/A

Depth to Water Before Purging N/A Casing Volume (V) 4" Well: N/A (.653h)
3" Well: N/A (.367h)

Conductance (avg) pH of Water (avg)

Well Water Temp. (avg) Redox Potential (Eh) Turbidity

Weather Cond Partly Cloudy Ext'l Amb. Temp (prior to sampling event) 24°C

Time: 0426 Gal. Purged 140	Time: Gal. Purged
Conductance 4.1	Conductance
pH 7.70	pH
Temperature 22.25	Temperature
Redox Potential (Eh) 131	Redox Potential (Eh)
Turbidity 0	Turbidity
Time: Gal. Purged	Time: Gal. Purged
Conductance	Conductance
pH	pH
Temperature	Temperature
Redox Potential (Eh)	Redox Potential (Eh)
Turb.	Turb.

RINSATE B4 TW4-9

Turbidity _____ Turbidity _____

Volume of Water Purged 150 Gallons

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = = 10

Time to evacuate two casing volumes (2V)
T = 2V/Q = N/A

Number of casing volumes evacuated (if other than two) N/A

If well evacuated to dryness, number of gallons evacuated N/A

Name of Certified Analytical Laboratory if Other Than Energy Labs N/A

Type of Sample	Sample Taken (circle)	Sample Volume (indicate if other than as specified below)	Filtered (circle)	Preservative Added (circle)
VOCs	(Y) N	4x40 ml	Y (N)	HCL (Y) N
Nutrients	(Y) N	100 ml	Y (N)	H_2SO_4 (Y) N
Heavy Metals	Y N	250 ml	Y N	HNO_3 Y N
All Other Non-Radiologics	Y N	250 ml	Y N	No Preservative Added
Gross Alpha	Y N	1,000 ml	Y N	H_2SO_4 Y N
Other (specify) Chloride	(Y) N	Sample volume _____	Y (N)	(N) If a preservative is used, Specify Type and Quantity of Preservative: _____

Comments Arrived on site at 0908. Turner Holliday & Gaerin Palmer on site for Rinsate and Sampling event. Rinsate began at 0911. Pumped 50 Gallons of Acid water 50 Gallons of soap water and 50 Gallons of DI Water. Rinsate ended and Samples collected at 0927. Left site at 0929.

Rinsate B4 TW4-9

ATTACHMENT 1
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUND WATER

Description of Sampling Event: 3rd Quarter Chloroform 2010

Location (well name) TW4 - 10 Sampler Name and initials Tanner Holliday, Garrin Palmer

Date and Time for Purging 8-11-2010 and Sampling (if different) 8-12-2010

Well Purging Equip Used: X pump or __ bailer Well Pump (if other than Bennet) Grundfos

Sampling Event Quarterly Chloroform Prev. Well Sampled in Sampling Event TW4-10 R

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 998 uMHOS/cm Well Depth 113

Depth to Water Before Purging 55.64 Casing Volume (V) 4" Well: 37.45 (.653h)
After Purge 55.78 2" Well: [illegible] (.367h)

Conductivity (avg) pH of Water (avg)

Well Water Temp. (avg) Redox Potential (Eh) Turbidity

Weather Cond. Partly Cloudy Ext'l Amb. Temp (prior to sampling event) 29°C

Time: [illegible] Gal. Purged 10	Time: 0935 Gal. Purged 30
Conductance 2553	Conductance 2563
pH 6.41	pH 6.42
Temperature 15.03	Temperature 14.92
Redox Potential (Eh) 347	Redox Potential (Eh) 344
Turbidity 28.6	Turbidity 44.1
Time: 0946 Gal. Purged 60	Time: 0947 Gal. Purged 70
Conductance 2774	Conductance
pH 6.42	pH
Temperature 6 2551	Temperature
Redox Potential (Eh) 342	Redox Potential (Eh)
Turb. 77.5	Turb.

Well Ran dry after 6 Min 10 sec.

Turbidity _____ Turbidity _____

Volume of Water Purged ~~60~~ 61

Pumping Rate Calculation

Flow Rate (Q), in gpm.
5/60 = = 10

Time to evacuate two casing volumes (2V)
T = 2V/Q = 7.49 Min.

Number of casing volumes evacuated (if other than two): 1.62

If well evacuated to dryness, number of gallons evacuated: 61

Name of Certified Analytical Laboratory if Other Than Energy Labs: N/A

Type of Sample	Sample Taken (circle)	Sample Volume (indicate if other than specified below)	Filtered (circle)	Preservative Added (circle)
VOCs	Y N	3x40 ml	Y (N)	HCl (Y) N
Nutrients	(Y) N	100 ml	Y (N)	H_2SO_4 (Y) N
Heavy Metals	Y N	250 ml	Y N	HNO_3 Y N
All Other Non-Radiologics	Y N	250 ml	Y N	No Preservative Added
Gross Alpha	Y N	1,000 ml	Y N	H_2SO_4 Y N
Other (specify) Chloride	(Y) N	Sample volume _____	Y (N)	Y (N) If a preservative is used, Specify Type and Quantity of Preservative: _____

Comments Arrived on site at 0936. Tanner Holliday & Garrin Palmer on site for Purge. Purge began at 0940. Purged well for a total of 6 Minutes & 10 seconds Well Ran dry. Water was a little Murky. ~~DTW~~ Purge ended at 0946. DTW after Purge was 98.97. Left site at 0951.
Arrived on site at 0751. Tanner & Garrin on site for sampling event. Took DTW and samples Bailed at 0757. Left site at 0759.

ATTACHMENT 1
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUND WATER

Description of Sampling Event: 3rd Quarter chloroform 2010

Location (well name) TW4-10 R Sampler Name and initials Tanner Holliday, Garrin Palmer

Date and Time for Purging 8-11-2010 and Sampling (if different) N/A

Well Purging Equip Used: X pump or __ bailer Well Pump (if other than Bennet) Grundfos

Sampling Event Quarterly chloroform Prev. Well Sampled in Sampling Event TW4-21

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 998 uMHOS/cm Well Depth N/A

Depth to Water Before Purging N/A Casing Volume (V) 4" Well: N/A (.653h)
3" Well: N/A (.367h)

Conductance (avg) ____ pH of Water (avg) ____

Well Water Temp. (avg) ____ Redox Potential (Eh) ____ Turbidity ____

Weather Cond. Partly Cloudy Ext'l Amb. Temp (prior sampling event) 24°C

Time: 0923 Gal. Purged 440	Time: ____ Gal. Purged ____
Conductance 1.8	Conductance ____
pH 7.78	pH ____
Temperature 22.53	Temperature ____
Redox Potential (Eh) 35.1	Redox Potential (Eh) ____
Turbidity 0	Turbidity ____
Time: ____ Gal. Purged ____	Time: ____ Gal. Purged ____
Conductance ____	Conductance ____
pH ____	pH ____
Temperature ____	Temperature ____
Redox Potential (Eh) ____	Redox Potential (Eh) ____
Turb. ____	Turb. ____

RINSATE BY TWH-10

Turbidity _____ Turbidity _____

Volume of Water Purged 150 Gallons

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = = 10

Time to evacuate two casing volumes (2V)
T = 2V/Q = N/A

Number of casing volumes evacuated (if other than two) N/A

If well evacuated to dryness, number of gallons evacuated N/A

Name of Certified Analytical Laboratory if Other Than Energy Labs N/A

Type of Sample	Sample Filter (circle)	Sample Volume (indicate if other than that specified below)	Filtered (circle)	Preservative Added (circle)
VOCs	Y (N)	40 ml	Y (N)	HCL (Y) N
Nutrients	Y (N)	100 ml	Y (N)	H_2SO_4 (Y) N
Heavy Metals	Y N	250 ml	Y N	HNO_3 Y N
All Other Non-Radiologics	Y N	250 ml	Y N	No Preservative Added
Gross Alpha	Y N	1,000 ml	Y N	H_2SO_4 Y N
Other (specify) Chloride	(Y) N	Sample volume _____	Y (N)	((N) If a preservative is used, Specify Type and Quantity of Preservative: _____

Comments Arrived on site at 0910. Turner Holliday & Garrin Palmer on site for Rinsate and Sampling event. Rinsate began at 0913. Pumped 50 Gallons of Acid water, 50 Gallons of soap water and 50 Gallons of DI water. Rinsate ended and Samples collected at 0930. Left site at 0932.

Rinsate B4 TW4-10

ATTACHMENT 1
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUND WATER

Description of Sampling Event: 3rd Quarter Chloroform 2010

Location (well name) TW4-11 Sampler Name and initials Tanner Holliday, Garrin Palmer

Date and Time for Purging 8-11-2010 and Sampling (if different) 8-12-2010

Well Purging Equip Used: X pump or __ bailer Well Pump (if other than Bennet) Grundfos

Sampling Event Quarterly Chloroform Prev. Well Sampled in Sampling Event TW4-11R

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 998 uMHOS/cm Well Depth 100

Depth to Water Before Purging 58.20 Casing Volume (V) 4" Well: 27.29 (.653h)
Before Sample 58.86 3" Well [illegible] (.367h)

Conductance (avg) [illegible] pH of Water (avg) [illegible]

Well Water Temp. (avg) [illegible] Redox Potential (Eh) [illegible] Turbidity [illegible]

Weather Cond. Partly Cloudy Ext'l Amb. Temp (prior to sampling event) 28°C

Time: 1302	Gal. Purged 10	Time: 1303	Gal. Purged 20		
Conductance 1740		Conductance 1707			
pH 6.75		pH 6.66			
Temperature 14.98		Temperature 14.71			
Redox Potential (Eh) 379		Redox Potential (Eh) 380			
Turbidity 27.9		Turbidity 17.7			
Time: 1304	Gal. Purged 30	Time: 1305	Gal. Purged 40	1306 50	1307 60
Conductance 1703		Conductance 1694		1687	1674
pH 6.55		pH 6.65		6.65	6.64
Temperature 14.67		Temperature 14.58		14.57	14.56
Redox Potential (Eh) 380		Redox Potential (Eh) 384		386	389
Turb. 13.6		Turb. 9.8		9.9	10.1

Turbidity _____ Turbidity _____

Volume of Water Purged 61

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = = 10

Time to evacuate two casing volumes (2V)
T = 2V/Q = 5.45 Min

Number of casing volumes evacuated (if other than two) N/A

If well evacuated to dryness, number of gallons evacuated N/A

Name of Certified Analytical Laboratory if Other Than Energy Labs N/A

Type of Sample	Sample Taken (circle)	Sample Volume (indicate if other than as specified below)	Filtered (circle)	Preservative Added (circle)
VOCs	(Y) N	3x40 ml	Y (N)	HCL (Y) N
Nutrients	(Y) N	100 ml	Y (N)	H_2SO_4 (Y) N
Heavy Metals	Y N	250 ml	Y N	HNO_3 Y N
All Other Non-Radiologics	Y N	250 ml	Y N	No Preservative Added
Gross Alpha	Y N	1,000 ml	Y N	H_2SO_4 Y N
Other (specify) Chloride	(Y) N	Sample volume _____	Y (N)	Y (N) If a preservative is used, Specify Type and Quantity of Preservative: _____

Comments Arrived on site at 1258. Tanner Holliday & Garcia Palmer on site for Purge. Purge began at 1301. Purged well for a total of 6 Minutes. 13 seconds. Water was Mostly clear Throughout purge. Purge ended at 1307. DTW After purge was 88.73 Left site at 1312.
Arrived on site at 0810. Tanner & Garcia on site for sampling Event. Took DTW Then Bailed samples at 0815. Left site at 0820.

ATTACHMENT 1
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUND WATER

Description of Sampling Event: 3rd Quarter chloroform 2010

Location (well name) TW4-11 R Sampler Name and initials Turner Halliday, Garrin Palmer

Date and Time for Purging 8-11-2010 and Sampling (if different) N/A

Well Purging Equip Used: X pump or __ bailer Well Pump (if other than Bennet) Grundfos

Sampling Event Quarterly chloroform Prev. Well Sampled in Sampling Event TW4-6

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 998 uMHOS/cm Well Depth N/A

Depth to Water Before Purging N/A Casing Volume (V) 4" Well: N/A (.653h)
3" Well: N/A (.367h)

Conductance (avg) ____ pH Buffer (avg) ____

Well Water Temp. (avg) ____ Redox Potential (Eh) ____ Turbidity ____

Weather Cond. Partly Cloudy Ext'l Amb. Temp (prior to sampling event) 28°C

Time: 1230 Gal. Purged 110	Time: ____ Gal. Purged ____
Conductance 2.3	Conductance ____
pH 7.97	pH ____
Temperature 24.34	Temperature ____
Redox Potential (Eh) 32.4	Redox Potential (Eh) ____
Turbidity 0	Turbidity ____
Time: ____ Gal. Purged ____	Time: ____ Gal. Purged ____
Conductance ____	Conductance ____
pH ____	pH ____
Temperature ____	Temperature ____
Redox Potential (Eh) ____	Redox Potential (Eh) ____
Turb. ____	Turb. ____

RINSATE
DH
TW4-11

Turbidity _____ Turbidity _____

Volume of Water Purged 150 Gallons

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = = 10

Time to evacuate two casing volumes (2V)
T = 2V/Q = N/A

Number of casing volumes evacuated (if other than two) N/A

If well evacuated to dryness, number of gallons evacuated N/A

Name of Certified Analytical Laboratory if Other Than Energy Labs N/A

Type of Sample	Sample Taken (circle)	Sample Volume (indicate if other than as specified below)	Filtered (circle)	Preservative Added (circle)
VOCs	(Y) N	40 ml	Y (N)	HCL (Y) N
Nutrients	(Y) N	100 ml	Y (N)	H_2SO_4 (Y) N
Heavy Metals	Y N	250 ml	Y N	HNO_3 Y N
All Other Non-Radiologics	Y N	250 ml	Y N	No Preservative Added
Gross Alpha	Y N	1,000 ml	Y N	H_2SO_4 Y N
Other (specify) Chloride	(Y) N	Sample volume _____	Y (N)	(N) If a preservative is used, Specify Type and Quantity of Preservative:

Comments Arrived on site at ~~1223~~ 1233. Turner Holliday & Garrin Palmer on site for Rinsate and Sampling event. Rinsate began at ~~1235~~ 1235. Pumped 50 Gallons of Acid water 50 Gallons of soap water and 50 Gallons of DI water. Rinsate ended and Samples collected at 1251. Left site at 1254.

RINSATE B4 TW4-11

ATTACHMENT 1
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUND WATER

Description of Sampling Event: 3rd Quarter Chloroform 2010

Location (well name) TW4-12 Sampler Name and Initials Tanner Holliday, Garrin Palmer

Date and Time for Purging 8-9-2010 and Sampling (if different) 8-10-2010

Well Purging Equip Used: X pump or __ bailer Well Pump (if other than Bennet) Grundfos

Sampling Event Quarterly Chloroform Prev. Well Sampled in Sampling Event TW4-12

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 998 uMHOS/cm Well Depth 101.5

Depth to Water Before Purging 38.37 Casing Volume (V) 4" Well: 41.22 (.653h)
Before Sample 38.34 3" Well: ____ (.367h)

Conductance (avg) ____ pH (avg) ____

Well Water Temp. (avg) ____ Redox Potential (Eh) ____ Turbidity ____

Weather Cond. Sunny Ext'l Amb. Temp (prior to sampling event) 22°C

Time: 0951 Gal. Purged 50	Time: 0952 Gal. Purged 60
Conductance 969.4	Conductance 969.9
pH 6.83	pH 6.82
Temperature 14.72	Temperature 14.69
Redox Potential (Eh) 426	Redox Potential (Eh) 425
Turbidity 7.4	Turbidity 7.4
Time: 0953 Gal. Purged 70	Time: 0954 Gal. Purged 80
Conductance 969.4	Conductance 969.9
pH 6.82	pH 6.83
Temperature 14.65	Temperature 14.66
Redox Potential (Eh) 424	Redox Potential (Eh) 424
Turb. 8.8	Turb. 8.9

Turbidity _____ Turbidity _____

Volume of Water Purged 90

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = = 10

Time to evacuate two casing volumes (2V)
T = 2V/Q = 8.24 Min

Number of casing volumes evacuated (if other than two) N/A

If well evacuated to dryness, number of gallons evacuated N/A

Name of Certified Analytical Laboratory if Other Than Energy Labs N/A

Type of Sample	Sample Taken (circle)	Sample Volume (indicate if other than as specified below)	Filtered (Circle)	Preservative Added (circle)
VOCs	(Y) N	3x40 ml	Y (N)	HCl (Y) N
Nutrients	(Y) N	100 ml	Y (N)	H_2SO_4 (Y) N
Heavy Metals	Y N	250 ml	Y N	HNO_3 Y N
All Other Non-Radiologics	Y N	250 ml	Y N	No Preservative Added
Gross Alpha	Y N	1,000 ml	Y N	H_2SO_4 Y N
Other (specify) Chloride	(Y) N	Sample volume _____	Y (N)	Y (N) If a preservative is used, Specify Type and Quantity of Preservative: _____

Comments Arrived on site at 0842. Tanner Holliday & Garcia Palmer on site for Purge. Purge began at 0946. Purged well for a total of 9 Minutes. Well water was Mostly clear Throughout purge. DTW after Purge was 50.60. Purge Ended at 0955. Left site 0959.
Arrived on site at 0738. Tanner & Garcia are site for sampling event. Took DTW and Samples were Bailed at 0746. Left site at 0748

ATTACHMENT 1
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUND WATER

Description of Sampling Event: 3rd Quarter Chloroform 2010

Location (well name) TW4 - 12R Sampler Name and initials Tanner Holliday, Garrin Palmer

Date and Time for Purging 8-9-10 and Sampling (if different) N/A

Well Purging Equip Used: X pump or __ bailer Well Pump (if other than Bennet) Grundfos

Sampling Event Quarterly chloroform Prev. Well Sampled in Sampling Event TW4-3

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 998 uMHOS/cm Well Depth N/A

Depth to Water Before Purging N/A Casing Volume (V) 4" Well: N/A (.653h)
3" Well: N/A (.367h)

Conductance (avg) ____ pH of Water (avg) ____

Well Water Temp. (avg) ____ Redox Potential (Eh) ____ Turbidity ____

Weather Cond. Sunny Ext'l Amb. Temp. (prior to sampling event) 22°C

Time: 0937 Gal. Purged 140	Time: ____ Gal. Purged ____
Conductance 1.6	Conductance ____
pH 7.81	pH ____
Temperature 22.84	Temperature ____
Redox Potential (Eh) 390	Redox Potential (Eh) ____
Turbidity .5	Turbidity ____
Time: ____ Gal. Purged ____	Time: ____ Gal. Purged ____
Conductance ____	Conductance ____
pH ____	pH ____
Temperature ____	Temperature ____
Redox Potential (Eh) ____	Redox Potential (Eh) ____
Turb. ____	Turb. ____

RINSATE B4 TW4-12

Turbidity _____ Turbidity _____

Volume of Water Purged 150 Gallons

Pumping Rate Calculation

Flow Rate (Q), in gpm. S/60 = = 10 Time to evacuate two casing volumes (2V) T = 2V/Q = N/A

Number of casing volumes evacuated (if other than two) N/A

If well evacuated to dryness, number of gallons evacuated N/A

Name of Certified Analytical Laboratory if Other Than Energy Labs N/A

Type of Sample	Sample Taken (circle)	Sample Volume (indicate if other than as specified below)	Filtered (circle)	Preservative Added (circle)
VOCs	Y N	40 ml	Y (N)	HCL (Y) N
Nutrients	(Y) N	100 ml	Y (N)	H_2SO_4 (Y) N
Heavy Metals	Y N	250 ml	Y N	HNO_3 Y N
All Other Non-Radiologics	Y N	250 ml	Y N	No Preservative Added
Gross Alpha	Y N	1,000 ml	Y N	H_2SO_4 Y N
Other (specify) Chloride	(Y) N	Sample volume _____	Y (N)	(N) If a preservative is used, Specify Type and Quantity of Preservative: _____

Comments Arrived on site at 0911. Turner Holliday & Garrin Palmer on site for Rinsate and Sampling event. Rinsate began at 0912. Pumped 50 Gallons of Acid water 50 Gallons of soap water and 50 Gallons of DI Water. Rinsate ended and Samples collected at 0928. Left site at 0930.

Rinsate B4 TW4-12

ATTACHMENT 1
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUND WATER

Description of Sampling Event: 3rd Quarter Chloroform 2010

Location (well name) TW4 - 13 Sampler Name and initials Tanner Halliday, Garrin Palmer

Date and Time for Purging 8-9-2010 and Sampling (if different) 8-10-2010

Well Purging Equip Used: X pump or __ bailer Well Pump (if other than Bennet) Grundfos

Sampling Event Quarterly Chloroform Prev. Well Sampled in Sampling Event TW4-13R

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 998 uMHOS/cm Well Depth 102.5

Depth to Water Before Purging 47.12 Casing Volume (V) 4" Well: 36.16 (.653h)

Sample 47.18 3" Well: [illegible] (.367h)

Conductance (avg) pH of Water (avg)

Well Water Temp. (avg) Redox Potential (Eh) Turbidity

Weather Cond. Sunny Ext'l Amb. Temp (prior to sampling event) 23°C

Time: 1042 Gal. Purged 40	Time: 1043 Gal. Purged 50
Conductance 1497	Conductance 1510
pH 6.83	pH 6.82
Temperature 15.11	Temperature 15.00
Redox Potential (Eh) 429	Redox Potential (Eh) 424
Turbidity 51.0	Turbidity 60.5
Time: 1044 Gal. Purged 60	Time: 1045 Gal. Purged 70
Conductance 1512	Conductance 1528
pH 6.85	pH 6.86
Temperature 14.90	Temperature 14.89
Redox Potential (Eh) 425	Redox Potential (Eh) 427
Turb. 37.8	Turb. 46.4

Well Ran dry after 4th set of parameters - (7 Min 45 sec.)

Turbidity _____ Turbidity _____

Volume of Water Purged 78

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = = 10

Time to evacuate two casing volumes (2V)
T = 2V/Q = 7.23

Number of casing volumes evacuated (if other than two) N/A

If well evacuated to dryness, number of gallons evacuated N/A

Name of Certified Analytical Laboratory if Other Than Energy Labs N/A

Type of Sample	Sample Taken (circle)	Sample Volume (indicate if other than as specified below)	Filtered (circle)	Preservative Added (circle)
VOCs	(Y) N	3-40 ml	Y (N)	HCL (Y) N
Nutrients	(Y) N	100 ml	Y (N)	H_2SO_4 (Y) N
Heavy Metals	Y N	250 ml	Y N	HNO_3 Y N
All Other Non-Radiologics	Y N	250 ml	Y N	No Preservative Added
Gross Alpha	Y N	1,000 ml	Y N	H_2SO_4 Y N
Other (specify) Chloride	(Y) N	Sample volume _____	Y (N)	Y (N) If a preservative is used, Specify Type and Quantity of Preservative: _____

Comments Arrived on site at 1035. Tanner Holliday & Garrin Palmer on site for Purge. Purge began at 1038. Purged well for a total of 7 Minutes 45 Seconds. Well Ran dry at 1046. Water was a little Murky/dirty. Left site at 1050 DTW After purge was 99.52.
Arrived on site at 0749. Tanner & Garrin on site for sampling event. DTW Took DTW Then samples Bailed at 0756. Left site at 0758.

ATTACHMENT 1
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUND WATER

Description of Sampling Event: 3rd Quarter chloroform 2010

Location (well name) TW4-13 R Sampler Name and initials Tanner Holliday, Garrin Palmer

Date and Time for Purging 8-9-2010 and Sampling (if different) N/A

Well Purging Equip Used: X pump or __ bailer Well Pump (if other than Bennet) Grundfos

Sampling Event Quarterly chloroform Prev. Well Sampled in Sampling Event TW4-12

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 998 uMHOS/cm Well Depth N/A

Depth to Water Before Purging N/A Casing Volume (V) 4" Well: N/A (.653h)
4" Well: N/A (.367h)

Conductance (avg) pH of Water (avg)

Well Water Temp. (avg) Redox Potential (Eh) Turbidity

Weather Cond. Sunny Ext'l Amb. Temp (prior to sampling event) 23°C

Time: 1225 Gal. Purged 110	Time: Gal. Purged
Conductance 3.2	Conductance
pH 8.25	pH
Temperature 24.10	Temperature
Redox Potential (Eh) 326	Redox Potential (Eh)
Turbidity .1	Turbidity
Time: Gal. Purged	Time: Gal. Purged
Conductance	Conductance
pH	pH
Temperature	Temperature
Redox Potential (Eh)	Redox Potential (Eh)
Turb.	Turb.

RINSATE BH TW4-13

Turbidity _____ Turbidity _____

Volume of Water Purged 150 Gallons

Pumping Rate Calculation

Flow Rate (Q), in gpm.
5/60 = = 10

Time to evacuate two casing volumes (2V)
T = 2V/Q = N/A

Number of casing volumes evacuated (if other than two): N/A

If well evacuated to dryness, number of gallons evacuated: N/A

Name of Certified Analytical Laboratory if Other Than Energy Labs: N/A

Type of Sample	Sample Taken (circle)	Sample Volume (indicate if other than indicated below)	Filtered (circle)	Preservative Added (circle)
VOCs	Y N	3x40 ml	Y (N)	HCL (Y) N
Nutrients	(Y) N	100 ml	Y (N)	H_2SO_4 (Y) N
Heavy Metals	Y N	250 ml	Y N	HNO_3 Y N
All Other Non-Radiologics	Y N	250 ml	Y N	No Preservative Added
Gross Alpha	Y N	1,000 ml	Y N	H_2SO_4 Y N
Other (specify) Chloride	(Y) N	Sample volume _____	Y (N)	(N) If a preservative is used, Specify Type and Quantity of Preservative: _____

Comments Arrived on site at 1008. Turner Holliday & Garrin Palmer on site for Rinsate and Sampling event. Rinsate began at 1010. Pumped 50 Gallons of Acid Water 50 Gallons of soap water and 50 Gallons of DI Water. Rinsate ended and Samples collected at 1026. Left site at 1029.

Rinsate B4 TW4-13

ATTACHMENT 1
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUND WATER

Description of Sampling Event: 3rd Quarter Chloroform 2010

Location (well name) TW4-14R Sampler Name and initials Tanner Holliday, Garrin Palmer

Date and Time for Purging 8-9-2010 and Sampling (if different) 8-10-2010

Well Purging Equip Used: X pump or __ bailer Well Pump (if other than Bennet) Grundfos

Sampling Event Quarterly Chloroform Prev. Well Sampled in Sampling Event TW4-14R

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 998 uMHOS/cm Well Depth 93

Depth to Water Before Purging 88.53 Casing Volume (V) 4" Well: 2.91 (.653h)
Before Sample 92.15 3" Well: [illegible] (.367h)

Conductance (avg) pH of Water (avg)

Well Water Temp. (avg) Redox Potential (Eh) Turbidity

Weather Cond. Partly Cloudy Ext'l Amb. Temp (prior to sampling event) 29°C

Time: 1236 Gal. Purged 2	Time: Gal. Purged
Conductance 4449	Conductance
pH 6.67	pH
Temperature 30.25	Temperature
Redox Potential (Eh) 365	Redox Potential (Eh)
Turbidity 235	Turbidity
Time: 1238 Gal. Purged	Time: Gal. Purged
Conductance	Conductance
pH	pH
Temperature	Temperature
Redox Potential (Eh)	Redox Potential (Eh)
Turb.	Turb.

Well Ran dry After 35 seconds Pumped.. only able to Recieve 1 set of parameters

Turbidity _____ Turbidity _____

Volume of Water Purged 3.5 well Ran dry.

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = = 10

Time to evacuate two casing volumes (2V)
T = 2V/Q = .58 Min

Number of casing volumes evacuated (if other than two) 1.2

If well evacuated to dryness, number of gallons evacuated 3.5 Gallons

Name of Certified Analytical Laboratory if Other Than Energy Labs N/A

Type of Sample	Sample Taken (circle)	Sample Volume (indicate if other than as specified below)	Filtered (circle)	Preservative Added (circle)
VOCs	(Y) N	40 ml	Y (N)	HCL (Y) N
Nutrients	(Y) N	100 ml	Y (N)	H_2SO_4 (Y) N
Heavy Metals	Y N	250 ml	Y N	HNO_3 Y N
All Other Non-Radiologics	Y N	250 ml	Y N	No Preservative Added
Gross Alpha	Y N	1,000 ml	Y N	H_2SO_4 Y N
Other (specify) Chloride	(Y) N	Sample volume _____	Y (N)	Y (N) If a preservative is used, Specify Type and Quantity of Preservative: _____

Comments Arrived on site at 1231. Tanner Halliday & Garcia Palmer on site for Purge. Purge began at 1235. Purged well for a total of 35 ~~Minutes~~ Seconds. Well Ran dry at 1236. DTW after Purge was 92.13. Water was a little dirty. Left site at 1241.

Arrived on site at 0759. Tanner & Garcia on site for sampling Event. Took DTW The bailed samples at 0806. Left site at 0809. Water was Dirty.

ATTACHMENT 1
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUND WATER

Description of Sampling Event: 3rd Quarter Chloroform 2010

Location (well name) TW4-14R Sampler Name and initials Tanner Holliday, Garrin Palmer

Date and Time for Purging 8-9-2010 and Sampling (if different) N/A

Well Purging Equip Used: X pump or __ bailer Well Pump (if other than Bennet) Grundfos

Sampling Event Quarterly chloroform Prev. Well Sampled in Sampling Event TW4-13

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 998 uMHOS/cm Well Depth N/A

Depth to Water Before Purging N/A Casing Volume (V) 4" Well: N/A (.653h)
3" Well: N/A (.367h)

Conductance (avg) pH of Water (avg)

Well Water Temp. (avg) Redox Potential (Eh) Turbidity

Weather Cond Sunny Ext'l Amb. Temp (prior to sampling event) 29°c

Time: 1220 Gal. Purged 140	Time: Gal. Purged
Conductance 2.6	Conductance
pH 7.71	pH
Temperature 25.21	Temperature
Redox Potential (Eh) 367	Redox Potential (Eh)
Turbidity 0	Turbidity
Time: Gal. Purged	Time: Gal. Purged
Conductance	Conductance
pH	pH
Temperature	Temperature
Redox Potential (Eh)	Redox Potential (Eh)
Turb.	Turb.

RINSATE B4 TW4-14

Turbidity _____ Turbidity _____

Volume of Water Purged 150 Gallons

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = = 10

Time to evacuate two casing volumes (2V)
T = 2V/Q = N/A

Number of casing volumes evacuated (if other than two) N/A

If well evacuated to dryness, number of gallons evacuated N/A

Name of Certified Analytical Laboratory if Other Than Energy Labs N/A

Type of Sample	Sample Taken (circle)	Sample Volume (indicate if other than as specified below)	Filtered (circle)	Preservative Added (circle)
VOCs	(Y) N	40 ml	Y (N)	HCL (Y) N
Nutrients	(Y) N	100 ml	Y (N)	H_2SO_4 (Y) N
Heavy Metals	Y N	250 ml	Y N	HNO_3 Y N
All Other Non-Radiologics	Y N	250 ml	Y N	No Preservative Added
Gross Alpha	Y N	1,000 ml	Y N	H_2SO_4 Y N
Other (specify) Chloride	(Y) N	Sample volume _____	Y (N)	(N) If a preservative is used, Specify Type and Quantity of Preservative: _____

Comments Arrived on site at 1200. Turner Holliday & Garrin Palmer on site for Rinsate and Sampling event. Rinsate began at 1205. Pumped 50 Gallons of Acid water 50 Gallons of soap water and 50 Gallons of DI Water. Rinsate ended and Samples collected at 1221. Left site at 1225.

Rinsate By TW4-14

ATTACHMENT 1
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUND WATER

Description of Sampling Event: 3rd Quarter Chloroform 2010

Location (well name) TW4 - 15 Sampler Name and Initials Tanner Holliday, Garrin Palmer

Date and Time for Purging 8-16-2010 and Sampling (if different) N/A

Well Purging Equip Used: X pump or __ bailer Well Pump (if other than Bennet) Grundfos Continuous pumping

Sampling Event Quarterly Chloroform Prev. Well Sampled in Sampling Event TW4-20

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 998 uMHOS/cm Well Depth 122.5

Depth to Water Before Purging 85.11 Casing Volume (V) 4" Well: N/A (.653h)
1" Well: N/A (.367h)

Conductance (avg) pH of Water (avg)

Well Water Temp. (avg) Redox Potential (Eh) Turbidity

Weather Cond Partly Cloudy Ext'l Amb. Temp (at time of sampling event) 29°C

Time: 1412 Gal. Purged	Time: 1412 Gal. Purged
Conductance 3469	Conductance 3497
pH 6.33	pH 6.34
Temperature 15.25	Temperature 15.20
Redox Potential (Eh) 176	Redox Potential (Eh) 185
Turbidity 3.0	Turbidity 1.5
Time: 1413 Gal. Purged	Time: 1414 Gal. Purged
Conductance 3519	Conductance 3535
pH 6.38	pH 6.39
Temperature 15.19	Temperature 15.19
Redox Potential (Eh) 196	Redox Potential (Eh) 205
Turb. 1.3	Turb. 1.3

Turbidity _____ Turbidity _____

Volume of Water Purged N/A

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = = N/A

Time to evacuate two casing volumes (2V)
T = 2V/Q = N/A

Number of casing volumes evacuated (if other than two) N/A

If well evacuated to dryness, number of gallons evacuated N/A

Name of Certified Analytical Laboratory if Other Than Energy Labs N/A

Type of Sample	Sample Taken (circle)	Sample Volume (indicate if other than as specified below)	Filtered (circle)	Preservative Added (circle)
VOCs	Y N	3x40 ml	Y (N)	HCL (Y) N
Nutrients	(Y) N	100 ml	Y (N)	H_2SO_4 (Y) N
Heavy Metals	Y N	250 ml	Y N	HNO_3 Y N
All Other Non-Radiologics	Y N	250 ml	Y N	No Preservative Added
Gross Alpha	Y N	1,000 ml	Y N	H_2SO_4 Y N
Other (specify) Chloride	(Y) N	Sample volume _____	Y (N)	Y (N) If a preservative is used, Specify Type and Quantity of Preservative: _____

Comments Arrived on site at 1401. Turner Holliday & Garcia Palmer ~~[illegible]~~ on site for sampling event. Took DTW. Then 4 sets of parameters were taken. Samples taken at 1415. Left site at 1425. Water was clear throughout purge.

ATTACHMENT 1
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUND WATER

Description of Sampling Event: 3rd Quarter Chloroform 2010 Resample

Location (well name) TW4-16 Sampler Name and initials Tanner Holliday, Garrin Palmer

Date and Time for Purging 8-23-2010 and Sampling (if different) 8-24-2010

Well Purging Equip Used: x pump or __ bailer Well Pump (if other than Bennet) Grundfos

Sampling Event Quarterly Chloroform Prev. Well Sampled in Sampling Event TW4-16R

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 999 uMHOS/cm Well Depth 192

Depth to Water Before Purging 63.84 Casing Volume (V) 4" Well: 51.03 (.653h)
Before Sample 63.99 2" Well: (.367h)

Conductance (avg) pH of Water (avg)

Well Water Temp. (avg) Redox Potential (Eh) Turbidity

Weather Cond. Cloudy Ext'l Amb. Temp (prior to sampling event) 21° C

Time: 1017 Gal. Purged 100	Time: n/a Gal. Purged n/a
Conductance 3519	Conductance 3537
pH 6.45	pH 6.45
Temperature 14.89	Temperature 14.89
Redox Potential (Eh) 397	Redox Potential (Eh) 398
Turbidity 205.1	Turbidity 218.2
Time: 1019 Gal. Purged 120	Time: 1020 Gal. Purged 130
Conductance 3541	Conductance 3546
pH 6.46	pH 6.47
Temperature 14.86	Temperature 14.85
Redox Potential (Eh) 399	Redox Potential (Eh) 400
Turb. 199.5	Turb. 204.8

Turbidity _____ Turbidity _____

Volume of Water Purged [redacted] 140

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = = 10

Time to evacuate two casing volumes (2V)
T = 2V/Q = 10.20 Min 6 casing volumes 30.62

Number of casing volumes evacuated (if other than two) N/A

If well evacuated to dryness, number of gallons evacuated N/A

Name of Certified Analytical Laboratory if Other Than Hoffman Labs N/A

Type of Sample	Sample Taken (circle)	Sample Volume (multiple if other than as specified below)	Filtered (circle)	Preservative Added (circle)
VOCs	(Y) N	3x40 ml	Y (N)	HCL (Y) N
Nutrients	(Y) N	100 ml	Y (N)	H_2SO_4 (Y) N
Heavy Metals	Y N	250 ml	Y N	HNO_3 Y N
All Other Non-Radiologics	Y N	250 ml	Y N	No Preservative Added
Gross Alpha	Y N	1,000 ml	Y N	H_2SO_4 Y N
Other (specify) _____	(Y) N	Sample volume _____	Y (N)	(Y) (N) If a preservative is used, Specify Type and Quantity of Preservative: _____

Comments Arrived on site at 1003. Tanner & Garcia on site for purge. Purge Began at 1007. Purged Well for a total of 14 Minutes. After the 9th Minute The well was sputtering, but keeping up enough to continue on with purge. Water was Mostly clear throughout purge. Purge ended at 1021. Left site at 1027. DTW After purge was 96.08. Arrived on site at 1224. Tanner & Garcia on site for Sampling Event. Took DTW Then Bailed samples at 1232. Left site at 1234.

ATTACHMENT 1
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUND WATER

Description of Sampling Event: 3rd Quarter Chloroform 2010

Location (well name) TW4-16R Sampler Name and initials Tanner Holliday, Gavin Palmer

Date and Time for Purging 8-23-2010 and Sampling (if different) N/A

Well Purging Equip Used: x pump or __ bailer Well Pump (if other than Bonnet) Grundfos

Sampling Event Quarterly Chloroform. Prev. Well Sampled in Sampling Event TW4-24

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 999 uMHOS/cm Well Depth N/A

Depth to Water Before Purging N/A Casing Volume (V) 4" Well: N/A (.653h)
3" Well: N/A (.367h)

Conductance (avg) pH of Water (avg)

Well Water Temp. (avg) Redox Potential (Eh) Turbidity

Weather Cond. Cloudy Ext'l Amb. Temp. (prior to sampling event) 20°C

Time: 0854 Gal. Purged 110	Time: Gal. Purged
Conductance 4.8	Conductance
pH 7.90	pH
Temperature 24.02	Temperature
Redox Potential (Eh) 331	Redox Potential (Eh)
Turbidity 0	Turbidity
Time: Gal. Purged	Time: Gal. Purged
Conductance	Conductance
pH	pH
Temperature	Temperature
Redox Potential (Eh)	Redox Potential (Eh)
Turb.	Turb.

Rinsate B4 TW4-16

Turbidity ——— Turbidity ———

Volume of Water Purged ~~When Field Parameters are Measured~~ 150

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = = 10

Time to evacuate two casing volumes (2V)
T = 2V/Q = N/A

Number of casing volumes evacuated (if other than two) N/A

If well evacuated to dryness, number of gallons evacuated N/A

Name of Certified Analytical Laboratory if Other Than Energy Labs N/A

Type of Sample	Sample Taken (circle)	Sample Volume (indicate if other than as specified below)	Filtered (circle)	Preservative Added (circle)
VOCs	(Y) N	3x40 ml	Y (N)	HCl (Y) N
Nutrients	(Y) N	100 ml	Y (N)	H_2SO_4 (Y) N
Heavy Metals	Y N	250 ml	Y N	HNO_3 Y N
All Other Non-Radiologics	Y N	250 ml	Y N	No Preservative Added
Gross Alpha	Y N	1,000 ml	Y N	H_2SO_4 Y N
Other (specify) chloride	(Y) N	Sample volume	Y (N)	Y (N) If a preservative is used, Specify Type and Quantity of Preservative:

Comments Arrived on site at 0939. Tanner & Garrin Present for Rinsate and sampling event. Rinsate began at 0941. Pumped 50 Gallons of Acid Water, 50 Gallons Soap Water, and 50 Gallons of DI Water. Rinsate ended and samples collected at 0957. Left site at 0959.

Rinsate B4 TW4-16

ATTACHMENT 1
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUND WATER

Description of Sampling Event: 3rd Quarter Chloroform 2010

Location (well name) TW4-17 Sampler Name and initials Tanner Holliday, Garrin Palmer

Date and Time for Purging 8-16-2010 and Sampling (if different) N/A

Well Purging Equip Used: X pump or __ bailer Well Pump (if other than Bennet) ~~Grundfos~~ QED

Sampling Event Quarterly Chloroform Prev. Well Sampled in Sampling Event TW4-11

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 998 uMHOS/cm Well Depth 130

Depth to Water Before Purging 76.60 Casing Volume (V) 4" Well: 34.87 (.653h)
Before Sample 82.65 2" Well: N/A (.367h)

Conductance (avg) pH Buffer (avg)

Well Water Temp. (avg) Redox Potential (Eh) Turbidity

Weather Cond. Partly Cloudy Ext'l Amb. Temp. (prior to sampling event) 23°C

Time: 1332 Gal. Purged 69.65	Time: 1337 Gal. Purged 69.82
Conductance 3985	Conductance 3980
pH 6.28	pH 6.27
Temperature 14.83	Temperature 14.84
Redox Potential (Eh) 155	Redox Potential (Eh) 151
Turbidity 35.8	Turbidity 13.4
Time: 1338 Gal. Purged 70.09	Time: 1339 Gal. Purged 70.30
Conductance 3976	Conductance 3974
pH 6.25	pH 6.25
Temperature 14.81	Temperature 14.81
Redox Potential (Eh) 149	Redox Potential (Eh) 148
Turb. 13.8	Turb. 13.2

Turbidity _____ Turbidity _____

Volume of Water Purged 7052

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = = .217

Time to evacuate two casing volumes (2V)
T = 2V/Q = 321.38 Min

Number of casing volumes evacuated (if other than two): N/A

If well evacuated to dryness, number of gallons evacuated: N/A

Name of Certified Analytical Laboratory if Other Than Energy Labs: N/A

Type of Sample	Sample Taken (circle)	Sample Volume (indicate if other than as specified below)	Filtered (circle)	Preservative Added (circle)
VOCs	Y N	3x40 ml	Y N	HCL Y N
Nutrients	Y N	100 ml	Y N	H_2SO_4 Y N
Heavy Metals	Y N	250 ml	Y N	HNO_3 Y N
All Other Non-Radiologics	Y N	250 ml	Y N	No Preservative Added
Gross Alpha	Y N	1,000 ml	Y N	H_2SO_4 Y N
Other (specify) Chloride	Y N	Sample volume _____	Y N	Y N
				If a preservative is used, Specify Type and Quantity of Preservative: _____

Comments Arrived on site at 0810. Tanner Holliday & Garrin Palmer on site for Purge. Purge began at 0815. Purged well for a total of 125 Minutes. Water was mostly clear Throughout Purge. Purge ended samples were collected at 1340. Left site at 1348.

ATTACHMENT 1
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUND WATER

Description of Sampling Event: 3rd Quarter Chloroform 2010

Location (well name) TW4 - 18 Sampler Name and initials Tanner Holliday, Garrin Palmer

Date and Time for Purging 8-11-2010 and Sampling (if different) 8-12-2010

Well Purging Equip Used: X pump or __ bailer Well Pump (if other than Bennet) Grundfos

Sampling Event Quarterly Chloroform Prev. Well Sampled in Sampling Event TW4-18R

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 998 uMHOS/cm Well Depth 137.5

Depth to Water Before Purging 55.96 Casing Volume (V) 4" Well: 53.24 (.653h)
Before Sample 55.89 2" Well: ____ (.367h)

Conductance (avg) ____ pH of Water (avg) ____

Well Water Temp. (avg) ____ Redox Potential (Eh) ____ Turbidity ____

Weather Cond. Partly Cloudy Ext'l Amb. Temp (prior to sampling event) 23°F

Time: 0812 Gal. Purged 70	Time: 0813 Gal. Purged 80
Conductance 1639	Conductance 1607
pH 6.37	pH 6.34
Temperature 15.23	Temperature 15.20
Redox Potential (Eh) 479	Redox Potential (Eh) 480
Turbidity 156.1	Turbidity 147.7
Time: 0815 Gal. Purged 90	Time: 0816 Gal. Purged 100 0817 110
Conductance 1608	Conductance 1579 1563
pH 6.31	pH 6.30 6.29
Temperature 15.20	Temperature 15.19 15.18
Redox Potential (Eh) 480	Redox Potential (Eh) 479 479
Turb. 221.2	Turb. 224.0 220.5

Turbidity _____ Turbidity _____

Volume of Water Purged 110

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = = 10

Time to evacuate two casing volumes (2V)
T = 2V/Q = 10.64 Min

Number of casing volumes evacuated (if other than two): N/A

If well evacuated to dryness, number of gallons evacuated: N/A

Name of Certified Analytical Laboratory if Other Than Energy Labs: N/A

Type of Sample	Sample Taken (circle)	Sample Volume (indicate if other than as specified below)	Filtered (circle)	Preservative Added (circle)
VOCs	(Y) N	5x40 ml	Y (N)	HCl (Y) N
Nutrients	(Y) N	100 ml	Y (N)	H_2SO_4 (Y) N
Heavy Metals	Y N	250 ml	Y N	HNO_3 Y N
All Other Non-Radiologics	Y N	250 ml	Y N	No Preservative Added
Gross Alpha	Y N	1,000 ml	Y N	H_2SO_4 Y N
Other (specify) Chloride	(Y) N	Sample volume _____	Y (N)	Y (N) If a preservative is used, Specify Type and Quantity of Preservative: _____

Comments Arrived on site at 0801. Tanner Halliday & Garcia Palmer on site for Purge. Purge began at 0806. Purged well for a total of 11 Minutes. Water was a little Murky/dirty. Purge ended at 0817. Left site at 0821. DTW After purge 56.39
Arrived on site at 0718. Tanner & Garcia on site for sampling event. Took DTW and Bailed sample at 0720. Left site at 0722.

ATTACHMENT 1
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUND WATER

Description of Sampling Event: 3rd Quarter chloroform 2010

Location (well name) TW4-18R Sampler Name and initials Tanner Holliday, Garrin Palmer

Date and Time for Purging 8-11-2010 and Sampling (if different) N/A

Well Purging Equip Used: X pump or __ bailer Well Pump (if other than Bennet) Grundfos

Sampling Event Quarterly chloroform Prev. Well Sampled in Sampling Event TW4-26

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 998 uMHOS/cm Well Depth N/A

Depth to Water Before Purging N/A Casing Volume (V) 4" Well: N/A (.653h)
3" Well: N/A (.367h)

Conductance (avg) pH of Water (avg)

Well Water Temp. (avg) Redox Potential (Eh) Turbidity

Weather Cond. Partly Cloudy Ext'l Amb. Temp. (prior to sampling event) 23°C

Time: 0752 Gal. Purged 110	Time: Gal. Purged
Conductance 1.7	Conductance
pH 5.97	pH
Temperature 20.87	Temperature
Redox Potential (Eh) 426	Redox Potential (Eh)
Turbidity .6	Turbidity
Time: Gal. Purged	Time: Gal. Purged
Conductance	Conductance
pH	pH
Temperature	Temperature
Redox Potential (Eh)	Redox Potential (Eh)
Turb.	Turb.

RINSATE BY TW4-18

Turbidity _____ Turbidity _____

Volume of Water Purged 150 Gallons

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = = 10

Time to evacuate two casing volumes (2V)
T = 2V/Q = N/A

Number of casing volumes evacuated (if other than two) N/A

If well evacuated to dryness, number of gallons evacuated N/A

Name of Certified Analytical Laboratory if Other Than Energy Labs N/A

Type of Sample	Sample Taken (circle)	Sample Volume (indicate if other than as specified below)	Filtered (circle)	Preservative Added (circle)
VOCs	(Y) N	3x40 ml	Y (N)	HCL (Y) N
Nutrients	(Y) N	100 ml	Y (N)	H_2SO_4 (Y) N
Heavy Metals	Y N	250 ml	Y N	HNO_3 Y N
All Other Non-Radiologics	Y N	250 ml	Y N	No Preservative Added
Gross Alpha	Y N	1,000 ml	Y N	H_2SO_4 Y N
Other (specify) Chloride	(Y) N	Sample volume _____	Y (N)	(N) If a preservative is used, Specify Type and Quantity of Preservative: _____

Comments Arrived on site at 0735. Turner Holliday & Garrin Palmer on site for Rinsate and Sampling event. Rinsate began at 0737. Pumped 50 Gallons of Acid Water 50 Gallons of soap water and 50 Gallons of DI Water. Rinsate ended and Samples collected at 0753. Left site at 0755.

Rinsate B4 TW4-18

154836.0

ATTACHMENT 1
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUND WATER

Description of Sampling Event: 3rd Quarter Chloroform 2010

Location (well name) TW4-19 Sampler Name and initials Tanner Holliday, Garrin Palmer

Date and Time for Purging 8-16-2010 and Sampling (if different) N/A

Well Purging Equip Used: X pump or __ bailer Well Pump (if other than Bennet) Grundfos Continuous pumping

Sampling Event Quarterly Chloroform Prev. Well Sampled in Sampling Event TW4-17

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 998 uMHOS/cm Well Depth 125

Depth to Water Before Purging 67.93 Casing Volume (V) 4" Well: n/a (.653h)
3" Well: n/a (.367h)

Conductance (avg) pH of Water (avg)

Well Water Temp. (avg) Redox Potential (Eh) Turbidity

Weather Cond: Cloudy Ext'l Amb. Temp (prior to sampling event) 24°C

Time: 0943 Gal. Purged	Time: 0953 Gal. Purged
Conductance 2931	Conductance 2932
pH 6.44	pH 6.45
Temperature 17.87	Temperature 17.87
Redox Potential (Eh) 396	Redox Potential (Eh) 388
Turbidity 27.6	Turbidity 31.7
Time: 0955 Gal. Purged	Time: 0956 Gal. Purged
Conductance 2931	Conductance 2926
pH 6.46	pH 6.50
Temperature 17.88	Temperature 17.89
Redox Potential (Eh) 381	Redox Potential (Eh) 376
Turb. 25.7	Turb. 22.5

Turbidity _____ Turbidity _____

Volume of Water Purged N/A

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = = (Q)

Time to evacuate two casing volumes (2V)
T = 2V/Q = N/A

Number of casing volumes evacuated (if other than two) N/A

If well evacuated to dryness, number of gallons evacuated N/A

Name of Certified Analytical Laboratory if Other Than Energy Labs N/A

Type of Sample	Sample Taken (circle)	Sample Volume (indicate if other than as specified below)	Filtered (circle)	Preservative Added (circle)
VOCs	(Y) N	3x40 ml	Y (N)	HCL (Y) N
Nutrients	(Y) N	100 ml	Y (N)	H_2SO_4 (Y) N
Heavy Metals	Y N	250 ml	Y N	HNO_3 Y N
All Other Non-Radiologics	Y N	250 ml	Y N	No Preservative Added
Gross Alpha	Y N	1,000 ml	Y N	H_2SO_4 Y N
Other (specify) Chloride	(Y) N	Sample volume	Y (N)	Y (N) If a preservative is used, Specify Type and Quantity of Preservative:

Comments Arrived on site at 948. Tanner Halliday & Garrin Palmer on site for Purge. Purge began at 0950. ~~Purged well for a total of 2 minutes~~. Continuous pumping well. Took 4 sets of parameters and samples were pulled at 0958. Left site at 1000

ATTACHMENT 1
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUND WATER

Description of Sampling Event: 3rd Quarter Chloroform 2010

Location (well name) TW4 - 20 Sampler Name and initials Tanner Holliday, Garrin Palmer

Date and Time for Purging 8-16-2010 and Sampling (if different) n/a

Well Purging Equip Used: X pump or __ bailer Well Pump (if other than Bennet) Grundfos

Sampling Event Quarterly Chloroform Prev. Well Sampled in Sampling Event TW4-4

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 998 uMHOS/cm Well Depth 106

Depth to Water Before Purging 69.78 Casing Volume (V) 4" Well: n/a (.653h)
3" Well: n/a (.367h)

Conductance (avg) pH of Water (avg)

Well Water Temp. (avg) Redox Potential (Eh) Turbidity

Weather Cond. Partly Cloudy Ext'l Amb. Temp (prior to sampling event) 28°C

Time: 1214 Gal. Purged Time: 1215 Gal. Purged

Conductance 3434 Conductance 3429

pH 6.07 pH 6.02

Temperature 21.76 Temperature 19.75

Redox Potential (Eh) 236 Redox Potential (Eh) 180

Turbidity 45 Turbidity 54.8

Time: 1220 Gal. Purged Time: 1221 Gal. Purged

Conductance 3476 Conductance 3534

pH 5.97 pH 6.02

Temperature 18.90 Temperature 18.79

Redox Potential (Eh) 190 Redox Potential (Eh) 210

Turb. 33.9 Turb. 31.4

Turbidity _____ Turbidity _____

Volume of Water Purged N/A

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = = N/A

Time to evacuate two casing volumes (2V)
T = 2V/Q = N/A

Number of casing volumes evacuated (if other than two) N/A

If well evacuated to dryness, number of gallons evacuated N/A

Name of Certified Analytical Laboratory if Other Than Energy Labs N/A

Type of Sample	Sample Taken (circle)	Sample Volume (indicate if other than as specified below)	Filtered (circle)	Preservative Added (circle)
VOCs	Y N	3x40 ml	Y (N)	HCL (Y) N
Nutrients	(Y) N	100 ml	Y (N)	H_2SO_4 (Y) N
Heavy Metals	Y N	250 ml	Y N	HNO_3 Y N
All Other Non-Radiologics	Y N	250 ml	Y N	No Preservative Added
Gross Alpha	Y N	1,000 ml	Y N	H_2SO_4 Y N
Other (specify) Chloride	(Y) N	Sample volume _____	Y (N)	Y (N) If a preservative is used, Specify Type and Quantity of Preservative: _____

Comments Arrived on site at 1212. Tanner Holliday & Garrin Palmer on site for Purge. ~~[illegible]~~ Took DTW. Then pulled samples at 1222. Left site at 1223. Water has some brown Particles floating around. 4 Mice Living in Protective case around Well.

ATTACHMENT 1
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUND WATER

Description of Sampling Event: 3rd Quarter Chloroform 2010

Location (well name) TW4 - 21 Sampler Name and initials Tanner Holliday, Garrin Palmer

Date and Time for Purging 8-11-2010 and Sampling (if different) 8-12-2010

Well Purging Equip Used: X pump or __ bailer Well Pump (if other than Bennet) Grundfos

Sampling Event Quarterly Chloroform Prev. Well Sampled in Sampling Event TW4-21R

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 998 uMHOS/cm Well Depth 121

Depth to Water Before Purging 53.36 Casing Volume (V) 4" Well: 42.86 (.653h)

Before sample 54.87 3" Well: [illegible] (.367h)

Conductance (avg) pH of Water (avg)

Well Water Temp. (avg) Redox Potential (Eh) Turbidity 2

Weather Cond: Partly Cloudy Ext'l Amb. Temp (prior to sampling event) 23°C

Time: 0858 Gal. Purged 50	Time: 0859 Gal. Purged 60
Conductance: 3019	Conductance 3024
pH 6.69	pH 6.72
Temperature 16.05	Temperature 16.04
Redox Potential (Eh) 446	Redox Potential (Eh) 446
Turbidity 8.9	Turbidity 9.0
Time: 0900 Gal. Purged 70	Time: 0901 Gal. Purged 80 0902 0903
Conductance 3026	Conductance 3059 3061 3064
pH 6.69	pH 6.70 6.70 6.71
Temperature 16.03	Temperature 16.02 16.01 16.01
Redox Potential (Eh) 447	Redox Potential (Eh) 448 449 449
Turb. 8.3	Turb. 7.5 7.5 7.2

Turbidity _____ Turbidity _____

Volume of Water Purged 100

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = = 10

Time to evacuate two casing volumes (2V)
T = 2V/Q = 8.57 Min.

Number of casing volumes evacuated (if other than two) N/A

If well evacuated to dryness, number of gallons evacuated N/A

Name of Certified Analytical Laboratory if Other Than Energy Labs N/A

Type of Sample	Sample Filtered (circle)	Sample Volume (Indicate if other than specified below)	Filtered (circle)	Preservative Added (circle)
VOCs	(Y) N	3x40 ml	Y (N)	HCL (Y) N
Nutrients	(Y) N	100 ml	Y (N)	H_2SO_4 (Y) N
Heavy Metals	Y N	250 ml	Y N	HNO_3 Y N
All Other Non-Radiological	Y N	250 ml	Y N	No Preservative Added
Gross Alpha	Y N	1,000 ml	Y N	H_2SO_4 Y N
Other (specify) Chloride	(Y) N	Sample volume _____	Y (N)	Y (N) If a preservative is used, Specify Type and Quantity of Preservative: _____

Comments Arrived on site at 0850. Tanner Holliday & Garrin Palmer on site for Purge. Purge began at 0853. Purged well for a total of 10 Minutes. ~~Water was~~ Mostly clear ~~throughout~~ Purge. Purge ended at 0903. Left site at 0907. DTW after purge 68.25
Arrived on site at 0723. Tanner & Garrin on site for sampling Event.
Took DTW and Bailed samples at 0730. Left site at 0734.

ATTACHMENT 1
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUND WATER

Description of Sampling Event: 3rd Quarter Chloroform 2010

Location (well name) TW4-21 R

Sampler Name and initials Tanner Holliday, Garrin Palmer

Date and Time for Purging 8-11-2010 and Sampling (if different) N/A

Well Purging Equip Used: X pump or __ bailer Well Pump (if other than Bennet) Grundfos

Sampling Event Quarterly chloroform

Prev. Well Sampled in Sampling Event TW4-18

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 998 uMHOS/cm

Well Depth N/A

Depth to Water Before Purging N/A

Casing Volume (V) 4" Well: N/A (.653h)
4" Well: N/A (.367h)

Conductance (avg)

pH of Purge (avg)

Well Water Temp. (avg)

Redox Potential (Eh) Turbidity

Weather Cond Partly Cloudy

Ext'l Amb. Temp (prior to sampling event) 23°C

Time: 0842 Gal. Purged 110	Time: Gal. Purged
Conductance 2.5	Conductance
pH 7.53	pH
Temperature 20.97	Temperature
Redox Potential (Eh) 374	Redox Potential (Eh)
Turbidity 0	Turbidity
Time: Gal. Purged	Time: Gal. Purged
Conductance	Conductance
pH	pH
Temperature	Temperature
Redox Potential (Eh)	Redox Potential (Eh)
Turb.	Turb.

RINSATE BH TW4-21

Turbidity _____ Turbidity _____

Volume of Water Purged 150 Gallons

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = = 10

Time to evacuate two casing volumes (2V)
T = 2V/Q = N/A

Number of casing volumes evacuated (if other than two) N/A

If well evacuated to dryness, number of gallons evacuated N/A

Name of Certified Analytical Laboratory if Other Than Energy Labs N/A

Type of Sample	Sample Taken (circle)	Sample Volume (indicate if other than as specified below)	Filtered (circle)	Preservative Added (circle)
VOCs	(Y) N	3x40 ml	Y (N)	HCL (Y) N
Nutrients	(Y) N	100 ml	Y (N)	H_2SO_4 (Y) N
Heavy Metals	Y N	250 ml	Y N	HNO_3 Y N
All Other Non-Radiologics	Y N	250 ml	Y N	No Preservative Added
Gross Alpha	Y N	1,000 ml	Y N	H_2SO_4 Y N
Other (specify) Chloride	(Y) N	Sample volume _____	Y (N)	(N) If a preservative is used, Specify Type and Quantity of Preservative: _____

Comments Arrived on site at 0824. Turner Holliday & Garrin Palmer on site for Rinsate and Sampling event. Rinsate began at 0826. Pumped 50 Gallons of Acid Water 50 Gallons of soap water and 50 Gallons of DI Water. Rinsate ended and Samples collected at 0843. Left site at 0845.

Rinsate B4 TW4-21

ATTACHMENT 1
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUND WATER

Description of Sampling Event: 3rd Quarter Chloroform 2010

Location (well name) TW4-22 Sampler Name and Initials Tanner Holliday, Garrin Palmer

Date and Time for Purging 8-23-2010 and Sampling (if different) 8-24-2010

Well Purging Equip Used: x pump or __ bailer Well Pump (if other than Bennet) Grundfos

Sampling Event Quarterly Chloroform Prev. Well Sampled in Sampling Event TW4-22R

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 999 uMHOS/cm Well Depth 113.5

Depth to Water Before Purging 54.42 Casing Volume (V) 4" Well: 38.57 (.653h)
Before Sample 54.45 3" Well: (.367h)

Conductance (avg) pH of Water (avg)

Well Water Temp. (avg) Redox Potential (Eh) Turbidity

Weather Cond. Partly Cloudy/ Ext'l Amb. Temp (prior to sampling event) 23°C

Time: 1258 Gal. Purged 20	Time: 1259 Gal. Purged 70
Conductance 5020	Conductance 5010
pH 6.48	pH 6.50
Temperature 15.72	Temperature 15.73
Redox Potential (Eh) 459	Redox Potential (Eh) 456
Turbidity 27.9	Turbidity 57.9
Time: 1300 Gal. Purged 100	Time: 1301 Gal. Purged 110
Conductance 5010	Conductance 5082
pH 6.48	pH 6.53
Temperature 15.82	Temperature 15.97
Redox Potential (Eh) 456	Redox Potential (Eh) 453
Turb. 817.1	Turb. 592.3

Turbidity — Turbidity —

Volume of Water Purged [redacted] 170

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = = 10

Time to evacuate two casing volumes (2V)
T = 2V/Q = 7.71 Min

6 casing volumes
23.14 Min

Number of casing volumes evacuated (if other than two) N/A

If well evacuated to dryness, number of gallons evacuated N/A

Name of Certified Analytical Laboratory if Other Than Energy Labs N/A

Type of Sample	Sample Taken (circle)	Sample Volume (indicate if other than as specified below)	Filtered (circle)	Preservative Added (circle)
VOCs	(Y) N	2x40 ml	Y (N)	HCL (Y) N
Nutrients	(Y) N	100 ml	Y (N)	H_2SO_4 (Y) N
Heavy Metals	Y N	250 ml	Y N	HNO_3 Y N
All Other Non-Radiologics	Y N	250 ml	Y N	No Preservative Added
Gross Alpha	Y N	1,000 ml	Y N	H_2SO_4 Y N
Other (specify)	(Y) N	Sample volume	Y (N)	(Y) (N)
				If a preservative is used, Specify Type and Quantity of Preservative:

Comments Arrived on site at 1246. Tanner & Garrin on site for purge. Purge Began at 1250. Purged Well for a total of 17 Minutes After 4 Minutes of purge well was sputtering Through the rest of purge until water stabilized. Water stabilized and purge ended at 1307. Water was Mostly clear throughout purge. DTW After purge was 96.01 Left site at 1312

Arrived on site at 1213. Tanner & Garrin on site for sampling event. Took DTW Then Baited Samples at 1221. Left site at 1224.

TW4-22

Time/ Gallons	1302 120	1303 130	1304 140	1305 150	1306 160
SPC	5126	5130	5148	5142	5142
PH	6.52	6.52	6.53	6.54	6.54
Temp	15.97	15.97	15.96	15.94	15.95
ORP	451	450	449	448	447
Turb	1147.0	1191.0	973.0	968.0	914.0

ATTACHMENT 1
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUND WATER

Description of Sampling Event: 3rd Quarter Chloroform 2010

Location (well name) TW4-22R Sampler Name and initials Tanner Holliday, Garrin Palmer

Date and Time for Purging 8-23-2010 and Sampling (if different) N/A

Well Purging Equip Used: X pump or __ bailer Well Pump (if other than Bennet) Grundfos

Sampling Event Quarterly Chloroform Prev. Well Sampled in Sampling Event TW4-16

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 999 uMHOS/cm Well Depth N/A

Depth to Water Before Purging N/A Casing Volume (V) 4" Well: N/A (.653h)
3" Well: N/A (.367h)

Conductance (avg) Depth of Water (avg)

Well Water Temp. (avg) Redox Potential (Eh) Turbidity

Weather Cond. Partly Cloudy Ext'l Amb. Temp (prior to sampling event) 23°c

Time: 12:33 Gal. Purged H0 Time: Gal. Purged

Conductance 1.3 Conductance

pH 5.78 pH

Temperature 24.36 Temperature

Redox Potential (Eh) 446 Redox Potential (Eh)

Turbidity 0 Turbidity

Time: Gal. Purged Time: Gal. Purged

Conductance Conductance

pH pH

Temperature Temperature

Redox Potential (Eh) Redox Potential (Eh)

Turb. Turb.

Rinsate B4 TW4-23

Turbidity ——— Turbidity ———

Volume of Water Purged ~~When Field Parameters are Measured~~ 150

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = = 10

Time to evacuate two casing volumes (2V)
T = 2V/Q = N/A

Number of casing volumes evacuated (if other than two): N/A

If well evacuated to dryness, number of gallons evacuated: N/A

Name of Certified Analytical Laboratory if Other Than Energy Labs: N/A

Type of Sample	Sample Taken (circle)	Sample Volume (indicate if other than as specified below)	Filtered (circle)	Preservative Added (circle)
VOCs	(Y) N	3x40 ml	Y (N)	HCL (Y) N
Nutrients	(Y) N	100 ml	Y (N)	H_2SO_4 (Y) N
Heavy Metals	Y N	250 ml	Y N	HNO_3 Y N
All Other Non-Radiologics	Y N	250 ml	Y N	No Preservative Added
Gross Alpha	Y N	1,000 ml	Y N	H_2SO_4 Y N
Other (specify) chloride	(Y) N	Sample volume	Y (N)	Y (N)
				If a preservative is used, Specify Type and Quantity of Preservative:

Comments Arrived on site at 1200. Tanner & Garrin Present for Rinsate and sampling event. Rinsate began at 1217. Pumped 50 Gallons of Acid Water, 50 Gallons Soap Water, and 50 Gallons of DI Water. Rinsate ended and samples collected at 1234. Left site at 1236.

Rinsate B4 TW4-22

220	230	240
1341	1342	1343
3683	3675	3682
6.25	6.26	6.26
14.38	14.42	14.44
106	106	106
8.1	9.1	8.5

Stabilized

ATTACHMENT 1
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUND WATER

Description of Sampling Event: 3rd Quarter Chloroform 2010

Location (well name) TW4-23 Sampler Name and Initials Tanner Holliday, Gaerin Palmer

Date and Time for Purging 8-9-2010 and Sampling (if different) 8-10-2010

Well Purging Equip Used: X pump or __ bailer Well Pump (if other than Bennet) Grundfos

Sampling Event Quarterly Chloroform Prev. Well Sampled in Sampling Event TW4-23R

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 998 uMHOS/cm Well Depth 113

Depth to Water Before Purging 66.05 Casing Volume (V) 4" Well: 31.31 (.653h)
Before Sample 66.15 3" Well: ____ (.367h)

Conductivities (avg) pH of Water (avg)

Well Water Temp. (avg) Redox Potential (Eh) Turbidity

Weather Cond. Partly Cloudy Ext'l Amb. Temp. (prior to sampling event) 29°C

150	160	170	180	190																			
1334	1335	1336	1337	1338																			
3681	3678	3679	3682	3682																			
6.13	6.19	6.21	6.22	6.23																			
14.39	14.40	14.39	14.39	14.4																			
137	153	134	117	111																			
14.2	11.9	10.2	10.1	8.9																			

Time: 1322 Gal. Purged 30 Time: 1323 Gal. Purged 40

1324	1325	1326	1327	1328	1329	1330	1331	1332	1333														
3704	3683	3674	3674	3677																			
6.17	6.05	6.05	6.08	6.10																			
14.45	14.44	14.44	14.36	14.42																			
179	216	198	237	231																			
63.8	46.7	27.6	28.3	17.4																			

Conductance	36.67																						
pH	6.18																						
Temperature	14.59																						
Redox Potential (Eh)	382																						
Turbidity	46.6																						

Time: 1324 Gal. Purged 50 Time: 1325 Gal. Purged 60

Conductance	3675	3672	3671	1326	70	1327	80	1328	9														
pH	6.18	6.20	6.20	3679		3704																	
Temperature	14.52	14.49	14.45	6.19		6.16																	
Redox Potential (Eh)	212	229	236	14.46		14.45																	
Turb.	122.3	Turb.	136.1	146.1		149		125															
						170		86.9															

Turbidity _____ Turbidity _____

Volume of Water Purged 240

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = = 10

Time to evacuate two casing volumes (2V)
T = 2V/Q = 6.26 Min

Number of casing volumes evacuated (if other than two) N/A

If well evacuated to dryness, number of gallons evacuated N/A

Name of Certified Analytical Laboratory if Other Than Energy Labs N/A

Type of Sample	Sample Taken (Circle)	Sample Volume (Indicate if other than as specified Below)	Filtered (Circle)	Preservative Added (Circle)
VOCs	(Y) N	3 x 40 ml	Y (N)	HCL (Y) N
Nutrients	(Y) N	100 ml	Y (N)	H_2SO_4 (Y) N
Heavy Metals	Y N	250 ml	Y N	HNO_3 Y N
All Other Non-Radiologics	Y N	250 ml	Y N	No Preservative Added
Gross Alpha	Y N	1,000 ml	Y N	H_2SO_4 Y N
Other (specify) Chloride	(Y) N	Sample volume _____	Y (N)	Y (N) If a preservative is used, Specify Type and Quantity of Preservative: _____

Comments Arrived on site at 1316. Turner Holliday & Garcia Palmer on site for Purge. Purge began at 1319. Purged well for a total of 24 Minutes. ~~[illegible]~~ ORP Would not stabilize. at 1343 water stabilized. Water was Murky with alot of Air bubbles. purge ended at 1343. Left site at 1349. DTW After purge was 98.25
Arrived on site at 0631 Turner Holliday Present for sampling event.
Took DTW Then samples were Bailed at 0640 Left site at 0648.

ATTACHMENT 1
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUND WATER

Description of Sampling Event: 3rd Quarter Chloroform 2010

Location (well name) TW4 -23 R Sampler Name and Initials Tanner Holliday, Garrin Palmer

Date and Time for Purging 8-9-2010 and Sampling (if different) N/A

Well Purging Equip Used: X pump or __ bailer Well Pump (if other than Bennet) Grundfos

Sampling Event Quarterly Chloroform Prev. Well Sampled in Sampling Event TW4-14

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 998 uMHOS/cm Well Depth N/A

Depth to Water Before Purging N/A Casing Volume (V) 4" Well: N/A (.653h)
3" Well: N/A (.367h)

Conductance (avg) pH of Water (avg)

Well Water Temp. (avg) Redox Potential (Eh) Turbidity

Weather Cond. Partly Cloudy Ext'l Amb. Temp (prior to sampling event) 29°C

Time: 1205 Gal. Purged 1.10	Time: Gal. Purged
Conductance 1.1	Conductance
pH 6.91	pH
Temperature 24.84	Temperature
Redox Potential (Eh) 382	Redox Potential (Eh)
Turbidity 0	Turbidity
Time: Gal. Purged	Time: Gal. Purged
Conductance	Conductance
pH	pH
Temperature	Temperature
Redox Potential (Eh)	Redox Potential (Eh)
Turb.	Turb.

RINSATE BY TW4-23

Turbidity _____ Turbidity _____

Volume of Water Purged 150 Gallons

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = = 10

Time to evacuate two casing volumes (2V)
T = 2V/Q = N/A

Number of casing volumes evacuated (if other than two) N/A

If well evacuated to dryness, number of gallons evacuated N/A

Name of Certified Analytical Laboratory if Other Than Hoffman Labs N/A

Type of Sample	Sample Taken (circle)	Sample Volume (metric if other than specified below)	Filtered (circle)	Preservative Added (circle)
VOCs	Y N	3 x 40 ml	Y (N)	HCL (Y) N
Nutrients	(Y) N	100 ml	Y (N)	H_2SO_4 (Y) N
Heavy Metals	Y N	250 ml	Y N	HNO_3 Y N
All Other Non-Radiologics	Y N	250 ml	Y N	No Preservative Added
Gross Alpha	Y N	1,000 ml	Y N	H_2SO_4 Y N
Other (specify) Chloride	(Y) N	Sample volume _____	Y (N)	((N)
				If a preservative is used, Specify Type and Quantity of Preservative:

Comments Arrived on site at 1249. Turner Holliday & Garrin Palmer on site for Rinsate and Sampling event. Rinsate began at 1250. Pumped 50 Gallons of Acid Water, 50 Gallons of soap water and 50 Gallons of DI water. Rinsate ended and Samples collected at 1306. Left site at 1309.

Rinsate B4 TW4-23

ATTACHMENT 1
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUND WATER

Description of Sampling Event: 3rd Quarter Chloroform 2010

Location (well name) TW4-24 Sampler Name and initials Tanner Holliday, Garrin Palmer

Date and Time for Purging 8-23-2010 and Sampling (if different) 8-24-2010

Well Purging Equip Used: x pump or __ bailer Well Pump (if other than Bennet) Grundfos

Sampling Event Quarterly Chloroform Prev. Well Sampled in Sampling Event TW4-24 R

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 999 uMHOS/cm Well Depth 112.5

Depth to Water Before Purging 55.85 Casing Volume (V) 4" Well: 36.99 (.653h)
Before Sample 55.98 3" Well ___ (.367h)

Conductance (Avg) pH (Avg)

Well Water Temp. (avg) Redox Potential (Eh) Turbidity

Weather Cond. Cloudy Ext'l Amb. Temp (prior to sampling event) 20°C

Time: 0924 Gal. Purged 70	Time: 0925 Gal. Purged 80
Conductance 8877	Conductance 8892
pH 6.40	pH 6.40
Temperature 15.03	Temperature 15.03
Redox Potential (Eh) 475	Redox Potential (Eh) 474
Turbidity 2.8	Turbidity 3.0
Time: 0926 Gal. Purged 90	Time: 0927 Gal. Purged 100
Conductance 8976	Conductance 9014
pH 6.40	pH 6.39
Temperature 15.02	Temperature 15.02
Redox Potential (Eh) 472	Redox Potential (Eh) 471
Turb. 3.7	Turb. 3.7

0928 110
9033
6.42
15.02
470
3.8

Turbidity _____ Turbidity _____

Volume of Water Purged [redacted] 110

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = = 10

Time to evacuate two casing volumes (2V)
T = 2V/Q = 7.39

6 casing volumes
22.19

Number of casing volumes evacuated (if other than two): N/A

If well evacuated to dryness, number of gallons evacuated: N/A

Name of Certified Analytical Laboratory if Other Than Energy Labs: N/A

Type of Sample	Sample Taken (circle)	Sample Volume (indicate if other than as specified below)	Filtered (circle)	Preservative Added (circle)
VOCs	(Y) N	3 x 40 ml	Y (N)	HCL (Y) N
Nutrients	(Y) N	100 ml	Y (N)	H_2SO_4 (Y) N
Heavy Metals	Y N	250 ml	Y N	HNO_3 Y N
All Other Non-Radiologics	Y N	250 ml	Y N	No Preservative Added
Gross Alpha	Y N	1,000 ml	Y N	H_2SO_4 Y N
Other (specify)	(Y) N	Sample volume _____	Y (N)	(Y) (N)
_____				If a preservative is used, Specify Type and Quantity of Preservative:
_____				
_____				

Comments Arrived on site at 0911. Tanner & Garrin on site for purge.
Purge Began at 0917. Purged well for a total of 11 Minutes
Purge ended at 0928. Stabilized after 11 Minutes. DTW after purge was 62.55.
Left site at 0935. Water was clear Throughout purge.
Arrived on site at 1201. Tanner & Garrin on site for sampling event.
Took DTW Then Bailed samples at 1210. Left site at 1212.

ATTACHMENT 1
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUND WATER

Description of Sampling Event: 3rd Quarter Chloroform 2010 Resample

Location (well name) TW4-24 R Sampler Name and initials Tanner Holliday, Garrin Palmer

Date and Time for Purging 8-23-2010 and Sampling (if different) N/A

Well Purging Equip Used: x pump or __ bailer Well Pump (if other than Bennet) Grundfos

Sampling Event Quarterly Chloroform. Prev. Well Sampled in Sampling Event N/A

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 999 uMHOS/cm Well Depth N/A

Depth to Water Before Purging N/A Casing Volume (V) 4" Well: N/A (.653h)
3" Well: N/A (.367h)

Conductance (avg) pH of Water (avg)

Well Water Temp. (avg) Redox Potential (Eh) Turbidity

Weather Cond. Cloudy Ext'l Amb. Temp (prior to sampling event) 19°c

Time: 0854 Gal. Purged 140	Time: Gal. Purged
Conductance 1.3	Conductance
pH 5.43	pH
Temperature 23.88	Temperature
Redox Potential (Eh) 491	Redox Potential (Eh)
Turbidity 0	Turbidity
Time: Gal. Purged	Time: Gal. Purged
Conductance	Conductance
pH	pH
Temperature	Temperature
Redox Potential (Eh)	Redox Potential (Eh)
Turb.	Turb.

Rinsate B4 TW4-24

Turbidity ——— Turbidity ———

Volume of Water Purged ~~When Field Parameters are Measured~~ 150

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = = 10

Time to evacuate two casing volumes (2V)
T = 2V/Q = N/A

Number of casing volumes evacuated (if other than two) N/A

If well evacuated to dryness, number of gallons evacuated N/A

Name of Certified Analytical Laboratory if Other Than Energy Labs N/A

Type of Sample	Sample Taken (circle)	Sample Volume (indicate if other than as specified below)	Filtered (circle)	Preservative Added (circle)
VOCs	(Y) N	3-40 ml	Y (N)	HCL (Y) N
Nutrients	(Y) N	100 ml	Y (N)	H_2SO_4 (Y) N
Heavy Metals	Y N	250 ml	Y N	HNO_3 Y N
All Other Non-Radiologics	Y N	250 ml	Y N	No Preservative Added
Gross Alpha	Y N	1,000 ml	Y N	H_2SO_4 Y N
Other (specify) chloride	(Y) N	Sample volume ———	Y (N)	Y (N) If a preservative is used, Specify Type and Quantity of Preservative: ———

Comments Arrived on site at 0835. Tanner & Garcia Present for Rinsate and sampling event. Rinsate began at 0839. Pumped 50 Gallons of Acid Water, 50 Gallons Soap Water, and 50 Gallons of DI Water. Rinsate ended and samples collected at 0855. Left site at 0857.

Rinsate B4 TW4-

ATTACHMENT 1
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUND WATER

Description of Sampling Event: 3rd Quarter Chloroform 2010

Location (well name) TW4 - 25 Sampler Name and initials Tanner Holliday, Garrin Palmer

Date and Time for Purging 8-9-2010 and Sampling (if different) 8-10-2010

Well Purging Equip Used: x pump or __ bailer Well Pump (if other than Bennet) Grundfos

Sampling Event Quarterly Chloroform Prev. Well Sampled in Sampling Event TW4-25 R

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 998 uMHOS/cm Well Depth 134.8

Depth to Water Before Purging 45.64 Casing Volume (V) 4" Well 58.22 (.653h)
Before Sample 45.96 3" Well ___ (.367h)

Conductance (avg) pH Buffer (avg)

Well Water Temp. (avg) Redox Potential (Eh) Turbidity

Weather Cond. Partly Cloudy Ext'l Amb Temp (prior to sampling event) 30 °C

Time: 1324 Gal. Purged 80	Time: 1327 Gal. Purged 88
Conductance 2973	Conductance 2949
pH 6.79	pH 6.79
Temperature 15.16	Temperature 15.15
Redox Potential (Eh) 409	Redox Potential (Eh) 410
Turbidity 47.0	Turbidity 47.3
Time: 1433 Gal. Purged 108	Time: 1434 Gal. Purged 110
Conductance 2955	Conductance 2949
pH 6.80	pH 6.81
Temperature 15.15	Temperature 15.13
Redox Potential (Eh) 410	Redox Potential (Eh) 411
Turb. 46.9	Turb. 47.5

Turbidity _____ Turbidity _____

Volume of Water Purged 120

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = = 10

Time to evacuate two casing volumes (2V)
T = 2V/Q = 11.64 Min

Number of casing volumes evacuated (if other than two) N/A

If well evacuated to dryness, number of gallons evacuated N/A

Name of Certified Analytical Laboratory if Other Than Energy Labs N/A

Type of Sample	Sample Taken (circle)	Sample Volume (indicate if other than recommended below)	Filtered (circle)	Preservative Added (circle)
VOCs	Y N	3x40 ml	Y (N)	HCL (Y) N
Nutrients	(Y) N	100 ml	Y (N)	H_2SO_4 (Y) N
Heavy Metals	Y N	250 ml	Y N	HNO_3 Y N
All Other Non-Radiologics	Y N	250 ml	Y N	No Preservative Added
Gross Alpha	Y N	1,000 ml	Y N	H_2SO_4 Y N
Other (specify) Chloride	(Y) N	Sample volume	Y (N)	Y (N)

If a preservative is used, Specify Type and Quantity of Preservative: _____

Comments Arrived on site at 1419. Tanner Holliday & Garcia Palmer on site for Purge. Purge began at 1423. Purged well for a total of 12 Minutes. Water was clear throughout purge. Purge ended at 1435. DTW after purge was 67.83. Left site at 1439.

Arrived on site at 0559. Tanner Holliday Present for sampling event. Took DTW and samples were Bailed at 0607. Left site at 0610.

ATTACHMENT 1
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUND WATER

Description of Sampling Event: 3rd Quarter Chloroform 2010

Location (well name) TW4 - 25 R Sampler Name and initials Tanner Holliday, Garrin Palmer

Date and Time for Purging 8-9-2010 and Sampling (if different) N/A

Well Purging Equip Used: X pump or __ bailer Well Pump (if other than Bennet) Grundfos

Sampling Event Quarterly chloroform Prev. Well Sampled in Sampling Event TW4-23

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 998 uMHOS/cm Well Depth N/A

Depth to Water Before Purging N/A Casing Volume (V) 4" Well: N/A (.653h)
3" Well: N/A (.367h)

Conductance (avg) ____ pH of Water (avg) ____

Well Water Temp. (avg) ____ Redox Potential (Eh) ____ Turbidity ____

Weather Cond Partly Cloudy Ext'l Amb. Temp (prior to sampling event) 30°C

Time: 1910 Gal. Purged 140	Time: ____ Gal. Purged ____
Conductance 2.9	Conductance ____
pH 6.83	pH ____
Temperature 24.74	Temperature ____
Redox Potential (Eh) 196	Redox Potential (Eh) ____
Turbidity 0	Turbidity ____
Time: ____ Gal. Purged ____	Time: ____ Gal. Purged ____
Conductance ____	Conductance ____
pH ____	pH ____
Temperature ____	Temperature ____
Redox Potential (Eh) ____	Redox Potential (Eh) ____
Turb. ____	Turb. ____

RINSATE B4 TW4-25

Turbidity _____ Turbidity _____

Volume of Water Purged 150 Gallons

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = = 10

Time to evacuate two casing volumes (2V)
T = 2V/Q = N/A

Number of casing volumes evacuated (if other than two) N/A

If well evacuated to dryness, number of gallons evacuated N/A

Name of Certified Analytical Laboratory if Other Than Energy Labs N/A

Type of Sample	Sample Taken (circle)	Sample Volume (indicate if other than as specified below)	Filtered (circle)	Preservative Added (circle)
VOCs	(Y) N	8-40 ml	Y (N)	HCL (Y) N
Nutrients	(Y) N	100 ml	Y (N)	H_2SO_4 (Y) N
Heavy Metals	Y N	250 ml	Y N	HNO_3 Y N
All Other Non-Radiologics	Y N	250 ml	Y N	No Preservative Added
Gross Alpha	Y N	1,000 ml	Y N	H_2SO_4 Y N
Other (specify) Chloride	(Y) N	Sample volume _____	Y (N)	(N) If a preservative is used, Specify Type and Quantity of Preservative: _____

Comments Arrived on site at 1354. Turner Holliday & Garrin Palmer on site for Rinsate and Sampling event. Rinsate began at 1355. Pumped 50 Gallons of Acid water, 50 Gallons of soap water and 50 Gallons of DI Water. Rinsate ended and Samples collected at 1411. Left site at 1413.

Rinsate B4 TW4-25

ATTACHMENT 1
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUND WATER

Description of Sampling Event: 3rd Quarter Chloroform 2010

Location (well name) TW4-26 Sampler Name and initials Tanner Holliday, Garrin Palmer

Date and Time for Purging 8-10-2010 and Sampling (if different) 8-11-2010

Well Purging Equip Used: X pump or __ bailer Well Pump (if other than Bennet) Grundfos

Sampling Event Quarterly Chloroform Prev. Well Sampled in Sampling Event TW4-26R

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 998 uMHOS/cm Well Depth 86

Depth to Water Before Purging 64.69 Casing Volume (V) 4" Well: 13.91 (.653h)
Before Sampling 64.85 4" Well: [illegible] (.367h)

Conductivity (avg) pH of Water (avg)

Well Water Temp. (avg) Redox Potential (Eh) Turbidity

Weather Cond. Partly cloudy Ext'l Amb. Temp (prior to sampling event) 29°C

Time: 1426 Gal. Purged 5	Time: 1427 Gal. Purged 10
Conductance 5363	Conductance 5113
pH 4.21	pH 4.25
Temperature 14.68	Temperature 15.98
Redox Potential (Eh) 414	Redox Potential (Eh) 439
Turbidity 94.3	Turbidity 26.9
Time: 1427 +30 Gal. Purged 15	Time: 1428 Gal. Purged 20
Conductance 5135	Conductance 5112
pH 4.26	pH 4.31
Temperature 15.70	Temperature 15.45
Redox Potential (Eh) 445	Redox Potential (Eh) 447
Turb. 55.8	Turb. 242.0

Well Ran dry After 2 Min 30 Sec.

Turbidity _____ Turbidity _____

Volume of Water Purged 25 well Ran dry

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = = 10

Time to evacuate two casing volumes (2V)
T = 2V/Q = 2.78 Min

Number of casing volumes evacuated (if other than two) 1.65

If well evacuated to dryness, number of gallons evacuated: 25

Name of Certified Analytical Laboratory if Other Than Energy Labs N/A

Type of Sample	Sample Taken (circle)	Sample Volume (indicate if other than as specified below)	Filtered (circle)	Preservative Added (circle)
VOCs	(Y) N	3x40 ml	Y (N)	HCL (Y) N
Nutrients	(Y) N	100 ml	Y (N)	H_2SO_4 (Y) N
Heavy Metals	Y N	250 ml	Y N	HNO_3 Y N
All Other Non-Radiologics	Y N	250 ml	Y N	No Preservative Added
Gross Alpha	Y N	1,000 ml	Y N	H_2SO_4 Y N
Other (specify) Chloride	(Y) N	Sample volume _____	Y (N)	Y (N) If a preservative is used, Specify Type and Quantity of Preservative: _____

Comments Arrived on site at 1423. Tanner Holliday & Garcia Palmer on site for Purge. Purge began at 1426. Purged well for a total of 2 Minutes & 30 Seconds. Well Ran dry! Water was a little dirty. DTW After purge was 85.39 Left Site at 1433. Arrived on site at 0653. Tanner present for sampling event. Took DTW Then Bailed samples at 0704. Left site at 0706.

ATTACHMENT 1
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUND WATER

Description of Sampling Event: 3rd Quarter chloroform 2010

Location (well name) TW4-26R Sampler Name and initials Tanner Holliday, Garrin Palmer

Date and Time for Purging 8-10-2010 and Sampling (if different) N/A

Well Purging Equip Used: X pump or __ bailer Well Pump (if other than Bennet) Grundfos

Sampling Event Quarterly chloroform Prev. Well Sampled in Sampling Event TW4-5

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 998 uMHOS/cm Well Depth N/A

Depth to Water Before Purging N/A Casing Volume (V) 4" Well: N/A (.653h)
3" Well: N/A (.367h)

Conductance (avg) pH of Water (avg)

Well Water Temp. (avg) Redox Potential (Eh) Turbidity

Weather Cond. Partly cloudy Ext'l Amb. Temp (prior to sampling event) 29°c

Time: 1413 Gal. Purged 190	Time: Gal. Purged
Conductance 2.7	Conductance
pH 7.52	pH
Temperature 25.78	Temperature
Redox Potential (Eh) 348	Redox Potential (Eh)
Turbidity 0	Turbidity
Time: Gal. Purged	Time: Gal. Purged
Conductance	Conductance
pH	pH
Temperature	Temperature
Redox Potential (Eh)	Redox Potential (Eh)
Turb.	Turb.

RINSATE B4 TW4-26

Turbidity _____ Turbidity _____

Volume of Water Purged 150 Gallons

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = = 10

Time to evacuate two casing volumes (2V)
T = 2V/Q = N/A

Number of casing volumes evacuated (if other than two) N/A

If well evacuated to dryness, number of gallons evacuated N/A

Name of Certified Analytical Laboratory if Other Than Energy Labs N/A

Type of Sample	Sample Taken (circle)	Sample Volume (indicate if other than as specified below)	Filtered (circle)	Preservative Added (circle)
VOCs	(Y) N	3x40 ml	Y (N)	HCL (Y) N
Nutrients	(Y) N	100 ml	Y (N)	H_2SO_4 (Y) N
Heavy Metals	Y N	250 ml	Y N	HNO_3 Y N
All Other Non-Radiologics	Y N	250 ml	Y N	No Preservative Added
Gross Alpha	Y N	1,000 ml	Y N	H_2SO_4 Y N
Other (specify) Chloride	(Y) N	Sample volume _____	Y (N)	(N) If a preservative is used, Specify Type and Quantity of Preservative: _____

Comments Arrived on site at 1355. Turner Holliday & Garrin Palmer on site for Rinsate and Sampling event. Rinsate began at 1357. Pumped 50 Gallons of Acid Water 50 Gallons of soap water and 50 Gallons of DI Water. Rinsate ended and Samples collected at 1414. Left Site at 1416.

Rinsate B4 TW4-26

ATTACHMENT 1
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUND WATER

Description of Sampling Event: 3rd Quarter Chloroform 2010

Location (well name) TW4 - 60 Sampler Name and initials Tanner Holliday, Garrin Palmer

Date and Time for Purging 8-17-2010 and Sampling (if different) N/A

Well Purging Equip Used: ~~N/A~~ pump or ~~N/A~~ bailer Well Pump (if other than Bennet) ~~[illegible]~~ N/A

Sampling Event Quarterly Chloroform Prev. Well Sampled in Sampling Event TW4-2

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 998 uMHOS/cm Well Depth [illegible]

Depth to Water Before Purging N/A Casing Volume (V) 4" Well: (.653h)
3" Well: N/A (.367h)

Conductance (avg) pH of Water (avg)

Well Water Temp. (avg) Redox Potential (Eh) Turbidity

Weather Cond. [illegible] Ext'l Amb. Temp (prior to sampling event) 20°C

Time: 1425 Gal. Purged	Time: 1426 Gal. Purged
Conductance 0	Conductance 0
pH 5.36	pH 5.39
Temperature 26.39	Temperature 26.35
Redox Potential (Eh) 498	Redox Potential (Eh) 502
Turbidity 0	Turbidity 0
Time: 1427 Gal. Purged	Time: 1428 Gal. Purged
Conductance 0	Conductance 0
pH 5.37	pH 5.49
Temperature 26.34	Temperature 26.28
Redox Potential (Eh) 500	Redox Potential (Eh) 493
Turb. 0	Turb. 0

D.I. Blank

Turbidity _____ Turbidity _____

Volume of Water Purged N/A

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = = Q N/A

Time to evacuate two casing volumes (2V)
T = 2V/Q = N/A

Number of casing volumes evacuated (if other than two) N/A

If well evacuated to dryness, number of gallons evacuated N/A

Name of Certified Analytical Laboratory if Other Than Energy Labs N/A

Type of Sample	Sample Taken (circle)	Sample Volume (indicate if other than as specified below)	Filtered (circle)	Preservative Added (circle)
VOCs	Y N	3x40 ml	Y N	HCL Y N
Nutrients	Y N	100 ml	Y N	H_2SO_4 Y N
Heavy Metals	Y N	250 ml	Y N	HNO_3 Y N
All Other Non-Radiologics	Y N	250 ml	Y N	No Preservative Added
Gross Alpha	Y N	1,000 ml	Y N	H_2SO_4 Y N
Other (specify) Chloride	Y N	Sample volume _____	Y N	Y N If a preservative is used, Specify Type and Quantity of Preservative: _____

Comments Arrived on site at 1420. Tanner Halliday & Garrin Palmer on site. ~~[illegible]~~ Purged well ~~for a total of [illegible] minutes~~. Took 4 sets of parameters. Samples pulled at 1430. Left site at 1435.

D.I. Blank

ATTACHMENT 1
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUND WATER

Description of Sampling Event: 3rd Quarter Chloroform 2010

Location (well name) TW4 - 65 Sampler Name and initials Tanner Holliday, Garrin Palmer

Date and Time for Purging 8-11-2010 and Sampling (if different) 8-12-2010

Well Purging Equip Used: X pump or __ bailer Well Pump (if other than Bennet) Grundfos

Sampling Event Quarterly Chloroform Prev. Well Sampled in Sampling Event TW4-21R

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 998 uMHOS/cm Well Depth 121

Depth to Water Before Purging 55.36 Casing Volume (V) 4" Well: 42.86 (.653h)
Sample 54.87 3" Well: [illegible] (.367h)

Conductance (avg) _____ pH of Water (avg) _____

Well Water Temp. (avg) _____ Redox Potential (Eh) _____ Turbidity _____

Weather Cond. Partly Cloudy Ext'l Amb. Temp (prior to sampling event) 23°c

Time: _____ Gal. Purged _____	Time: _____ Gal. Purged _____
Conductance _____	Conductance _____
pH _____	pH _____
Temperature _____	Temperature _____
Redox Potential (Eh) _____	Redox Potential (Eh) _____
Turbidity _____	Turbidity _____
Time: _____ Gal. Purged _____	Time: _____ Gal. Purged _____
Conductance _____	Conductance _____
pH _____	pH _____
Temperature _____	Temperature _____
Redox Potential (Eh) _____	Redox Potential (Eh) _____
Turb. _____	Turb. _____

Duplicate of TW4-21

Turbidity _____ Turbidity _____

Volume of Water Purged 100

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = = 10

Time to evacuate two casing volumes (2V)
T = 2V/Q = 8.57 Min

Number of casing volumes evacuated (if other than two) N/A

If well evacuated to dryness, number of gallons evacuated N/A

Name of Certified Analytical Laboratory if Other Than Energy Labs N/A

Type of Sample	Sample Taken (circle)	Sample Volume (indicate if other than as specified below)	Filtered (circle)	Preservative Added (circle)
VOCs	(Y) N	3x40 ml	Y (N)	HCL (Y) N
Nutrients	(Y) N	100 ml	Y (N)	H_2SO_4 (Y) N
Heavy Metals	Y N	250 ml	Y N	HNO_3 Y N
All Other Non-Radiologics	Y N	250 ml	Y N	No Preservative Added
Gross Alpha	Y N	1,000 ml	Y N	H_2SO_4 Y N
Other (specify) Chloride	(Y) N	Sample volume _____	Y (N)	Y (N) If a preservative is used, Specify Type and Quantity of Preservative: _____

Comments [redacted]

Duplicate of TW4-21

ATTACHMENT 1
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUND WATER

Description of Sampling Event: 3rd Quarter Chloroform 2010

Location (well name) TW4-70 Sampler Name and Initials Tanner Holliday, Garrin Palmer

Date and Time for Purging 8-16 and Sampling (if different) N/A

Well Purging Equip Used: X pump or __ bailer Well Pump (if other than Bennet) ~~Grundfos~~ QED

Sampling Event Quarterly Chloroform Prev. Well Sampled in Sampling Event TW4-11

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 998 uMHOS/cm Well Depth 130

Depth to Water Before Purging 76.60 Casing Volume (V) 4" Well: 34.87 (.653h)
Before Sample 82.63 3" Well: N/A (.367h)

Conductance (avg) pH of Water (avg)

Well Water Temp. (avg) Redox Potential (Eh) Turbidity

Weather Cond. Partly Cloudy Ext'l Amb. Temp (prior to sampling event) 28°C

Time: Gal. Purged Time: Gal. Purged

Conductance Conductance

pH pH

Temperature Temperature

Redox Potential (Eh) Redox Potential (Eh)

Turbidity Turbidity

Time: Gal. Purged Time: Gal. Purged

Conductance Conductance

pH pH

Temperature Temperature

Redox Potential (Eh) Redox Potential (Eh)

Turb. Turb.

Duplicate of TW4-17

Turbidity _____ Turbidity _____

Volume of Water Purged N/A

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = = (0) N/A

Time to evacuate two casing volumes (2V)
T = 2V/Q = N/A

Number of casing volumes evacuated (if other than two) N/A

If well evacuated to dryness, number of gallons evacuated N/A

Name of Certified Analytical Laboratory if Other Than Energy Labs N/A

Type of Sample	Sample Taken (circle)	Sample Volume (indicate if other than as specified below)	Filtered (circle)	Preservative Added (circle)
VOCs	(Y) N	3x40 ml	Y (N)	HCL (Y) N
Nutrients	(Y) N	100 ml	Y (N)	H_2SO_4 (Y) N
Heavy Metals	Y N	250 ml	Y N	HNO_3 Y N
All Other Non-Radiologics	Y N	250 ml	Y N	No Preservative Added
Gross Alpha	Y N	1,000 ml	Y N	H_2SO_4 Y N
Other (specify) Chloride	(Y) N	Sample volume _____	Y (N)	Y (N) If a preservative is used, Specify Type and Quantity of Preservative: _____

Comments ~~[illegible]~~

Duplicate of TW4-17

Tab C

Weekly and Monthly Depth to Water Data

Depth to Water

Date 7-5-2010 **mmHg** 622.55

Time	Well	Depth	Comments
1405	MW-4	73.55	Flow 2.7 GPM
			Meter 19338068
1401	TW4-15	74.07	Flow 5.6 GPM
			Meter 35504.0
1430	TW4-19	67.76	Flow 2.0 GPM
			Meter 145951.92
1357	TW4-20	64.11	Flow 1.8 GPM
			Meter 69219.85
1410	TW4-4	75.16	Flow 8.6 GPM
			Meter 120664.6
	Water:	649131	

Depth to Water

Date 7·13·2010 mmHg 620.268

Time	Well	Depth	Comments
1005	MW-4	62.90	Flow *
			Meter 194958.3
0959	TW4-15	82.52	Flow 4.7 GPM
		Hung up	Meter 360630
1015	TW4-19	66.54	Flow 1.9 GPM
			Meter 1481610
0954	TW4-20	65.41	Flow 1.7 GPM
			Meter 72337.1
1008	TW4-4	66.59	Flow *
			Meter 122035.6
*	TW4-4 Pump was pulled last Week So ~~hydrologists~~ hydrologists Could perform slug Test on Well. Pump ~~Has~~ NOT been Re-Set, No Power hooked up.		
*	MW 4 - NO Power to Well So Pump Flow Rate Could NOT Be Taken. Guessing Power Outage has to do with TW4-4 Pump being pulled.		
	Water:	674229	7·12·10

Will Contact Maint. to place pump on TW4-4 & Electrical Department to get power Back to both TW4-4 & MW4

Chloroform Wells

Date 7-15-2010 mmHg 624.078

Time	Well	Depth	Comments
1225	MW-4	67.89	
1222	TW4-1	63.10	
1227	TW4-2	66.44	
1218	TW4-3	48.69	
1232	TW4-4	68.60	
1215	TW4-5	35.05	
1235	TW4-6	70.98	
1223	TW4-7	64.10	
1220	TW4-8	66.76	
1216	TW4-9	53.69	
1213	TW4-10	55.91	
1259	TW4-11	58.36	
1242	TW4-12	38.34	
1244	TW4-13	47.41	
1246	TW4-14	88.61	
1212	TW4-15	78.99	
1256	TW4-16	64.41	
1254	TW4-17	76.68	
1201	TW4-18	56.21	
1310	TW4-19	66.19	
1211	TW4-20	73.57	
1203	TW4-21	56.34	
1209	TW4-22	54.81	
1231	TW4-23	66.12	
1207	TW4-24	56.03	
1159	TW4-25	45.68	
1237	TW4-26	64.78	

Entered 7.19.10 R.P.

Depth to Water

Date 7·20·10 mmHg 622.554

Time	Well	Depth	Comments
1055	MW-4	74.31	Flow 4.3 GPM
			Meter 2024323
1051	TW4-15	77.44	Flow 5.4 GPM
			Meter 366230
1503	TW4-19	65.43	Flow 1.8 GPM
			Meter 150294.85
1047	TW4-20	63.68	Flow 1.8 GPM
			Meter 75533.5
	TW4-4	UNABLE	Flow 7.2 GPM
		Hung up at	Meter 129203.4
		82'	
	Water:	694831	

Depth to Water

Date 7.26.2010 **mmHg** 620.268

Time	Well	Depth	Comments
1434	MW-4	71.29	Flow 4.4 GPM
			Meter 207338.31
1431	TW4-15	73.45	Flow 5.8 GPM
			Meter 369850
	TW4-19	64.93	Flow 1.7 GPM
			Meter 151502.8
1426	TW4-20	63.18	Flow 1.8 GPM
			Meter 77677.95
1437	TW4-4	66.56	Flow 8.6 GPM
			Meter 134161.6
		714867	
	Water:	~~713867~~	

Depth to Water

Date 8-2-2010 **mmHg** 623.316

Time	Well	Depth	Comments
1441	MW-4	71.32	Flow 4.3 GPM
			Meter 213830.36
1436	TW4-15	72.84	Flow 5.8 GPM
			Meter 0374790
1504	TW4-19	64.18	Flow 1.6 GPM
			Meter 153069.0
1430	TW4-20	62.71	Flow 1.9 GPM
			Meter 80769.00
1445	TW4-4	68.81	Flow 8.6 GPM
			Meter 140614.6
	Water:	731415	

Depth to Water

Date 8·10 2010 **mmHg** _____

Time	Well	Depth	Comments	
1343	MW-4	69.86	Flow 4.5 GPM	
			Meter 221483.6	New
1337	TW4-15	79.36	Flow 5.4 GPM	
			Meter 380470	old
1410	TW4-19	66.78	Flow 1.4 GPM	old
			Meter 154836	
1333	TW4-20	62.72	Flow 2.0 GPM	
			Meter 84270.2	New
	TW4-4	68.52	Flow 8.6 GPM	
			Meter 147817.4	New
		757.540		
	Water:	[redacted]		

Depth to Water

Date 8-16-2010 mmHg

Time	Well	Depth	Comments
1030	MW-4	70.37	Flow 4.3 GPM
			Meter 227077.38
1415	TW4-15	85.11	Flow 1.7
			Meter 38482.0
0947	TW4-19	67.93	Flow
			Meter 1548360
1221	TW4-20	69.78	Flow 1.8 GPM
			Meter 87004.49
1045	TW4-4	68.82	Flow 8.4 GPM
			Meter 153105.4
	Water:	77.3718	

Chloroform Wells

Date 8-18-2010 mmHg 621 792

Time	Well	Depth	Comments
1258	MW-4	70.61	
0832	TW4-1	63.28	
0814	TW4-2	67.43	
1255	TW4-3	48.55	
1304	TW4-4	68.85	
1252	TW4-5	54.75	
1306	TW4-6	70.96	
0823	TW4-7	67.79	
1256	TW4-8	67.21	
1254	TW4-9	53.41	
1250	TW4-10	55.70	
1300	TW4-11	58.33	
1313	TW4-12	38.43	
1314	TW4-13	47.21	
1316	TW4-14	88.56	
1244	TW4-15	83.41	Snagged at this level
1433	TW4-16	69.94	
1437	TW4-17	76.69	
1333	TW4-18	55.89	
1447	TW4-19	62.05	
1243	TW4-20	63.47	
1331	TW4-21	54.71	
1240	TW4-22	54.42	
1320	TW4-23	66.11	
1238	TW4-24	55.88	
1328	TW4-25	45.65	
1308	TW4-26	64.71	

Entered 8.19.2010

Depth to Water

Date 8·23·2010 mmHg 624.078

Time	Well	Depth	Comments
1417	MW-4	79.27	Flow 4.4 GPM
			Meter 233859.5
1413	TW4-15	73.69	Flow 5.4 GPM
			Meter 38985
1401	TW4-19	60.38	Flow < 1 GPM (NOT Moving Meter)
			Meter 154836
1408	TW4-20	61.67	Flow 2.0 GPM
			Meter 0090140.1
1424	TW4-4	69.71	Flow 8.4 GPM
			Meter 159653.4
	Water:	797212	

Pump was running upon Arrival

Depth to Water

Date 8-30-2010 **mmHg** 617.982

Time	Well	Depth	Comments
1453	MW-4	71.00	Flow 4.4 GPM
			Meter 240362.44
1448	TW4-15	70.75	Flow 5.6 GPM
			Meter 39493.0
[redacted] 1510	TW4-19	[redacted]	Flow [redacted]
	Pump not Working properly!		Meter [redacted]
	Will Replace This Week!		
1423	TW4-20	74.15	Flow 2.0
			Meter 93325.00
1458	TW4-4	82.79	Flow 8.3 GPM
			Meter 166208.3
	Water:	815870	

Depth to Water

Date 9-7-10 mmHg 621.03

Time	Well	Depth	Comments
1350	MW-4	70.23	Flow 4.6 GPM
			Meter 247907.65
1344	TW4-15	77.21	Flow 5.5 GPM
			Meter 40078.66
1321	TW4-19	91.81	Flow 10.2 GPM
			Meter 51016.00
1336	TW4-20	62.63	Flow 2.1 GPM
			Meter 9692.12
1355	TW4-4	82.79	Flow 8.7 GPM
			Meter 17339.67
	Water:	836794	

Depth to Water

Date 9-13-10 mmHg 624.078

Time	Well	Depth	Comments
1038	MW-4	70.57	Flow 4.69 GPM
			Meter 253410.10
1033	TW4-15	snagged @ 91.60	Flow 5.58 GPM
			Meter 40492.25
1015	TW4-19	99.38	Flow 10.10 GPM
			Meter [redacted] 129298.50
1027	TW4-20	65.52	Flow 2.10 GPM
			Meter 99686.25
1045	TW4-4	80.79	Flow 8.9 GPM
			Meter 178759.55
	Water:	850621	

3.3

9
10 23.78
23.22

Depth to Water

Date 9.20.2010 mmHg ~~%~~

Time	Well	Depth	Comments
0921	MW-4	71.20	Flow 4.5 GPM
			Meter 260284.9 New
0915	TW4-15	73.61	Flow 5.4 GPM
			Meter 409720.4 old
			↑ Constant
0950	TW4-19	[redacted]	Flow 10.1 GPM
		100.15	Meter 220777.5
			Running New
0906	TW4-20	75.32	Flow 1.9 GPM
		changing	Meter 102707.3 New
0928	TW4-4	68.87	Flow 8.9 GPM
			Meter 184750.5 New
	Water:	880.505	

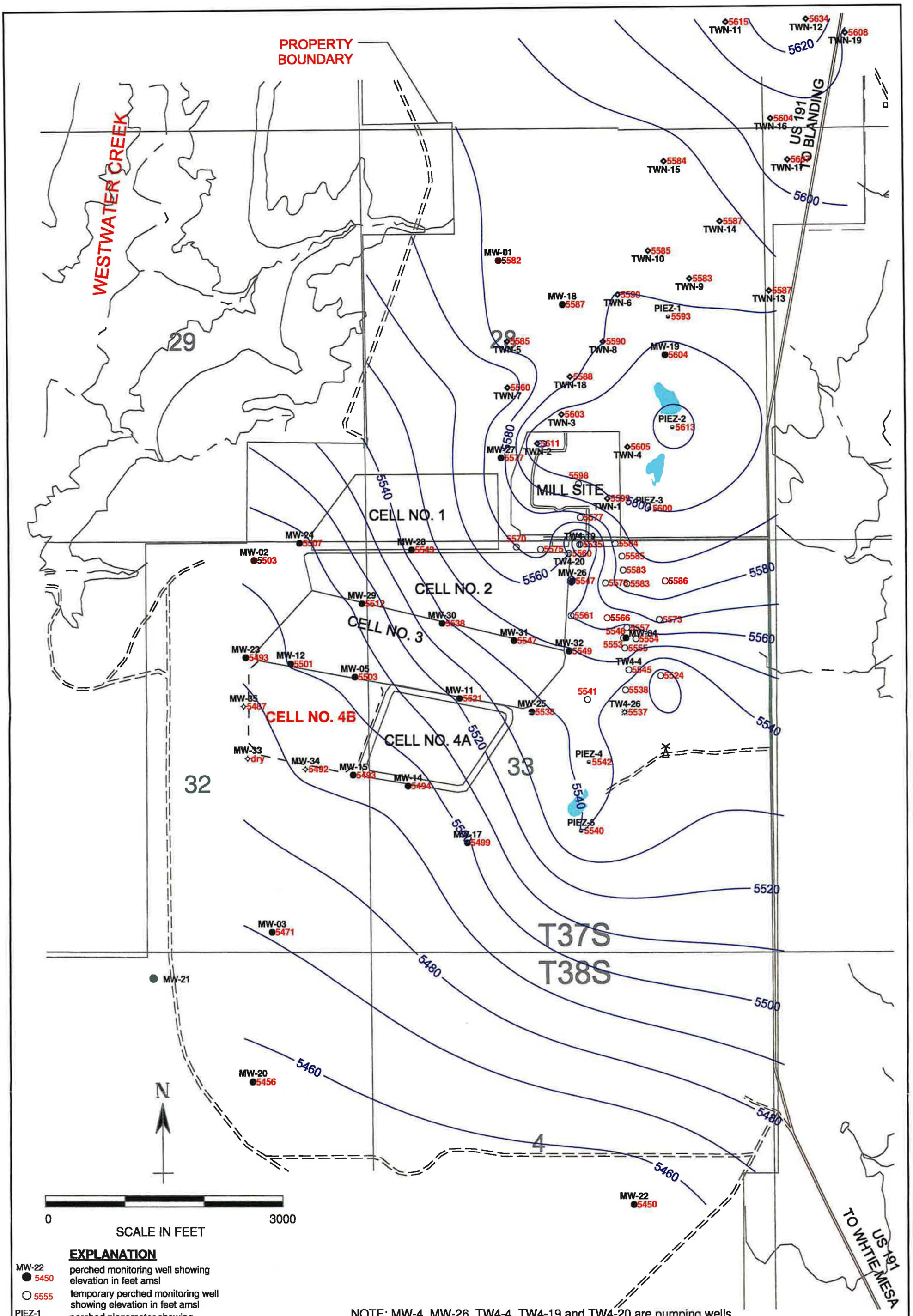
Depth to Water

Date 9.27.2010 **mmHg** 623.316

Time	Well	Depth	Comments
1441	MW-4	72.04	Flow 4.6 GPM
			Meter 267289.4 New
1436	TW4-15	76.59	Flow 5.2 GPM
			Meter 414620 old
1458	TW4-19	106.11	Flow 9.9 GPM
			Meter 3146.57.9 New Turned off
1432	TW4-20	69.93	Flow 1.8 GPM
			Meter 105811.2 New
1445	TW4-4	69.12	Flow 9.0 GPM
			Meter 191598.4 New
	Water:	894490	

Tab D

Kriged Current Quarter Groundwater Contour Map, Details Map, and Depth to Water Summary



EXPLANATION

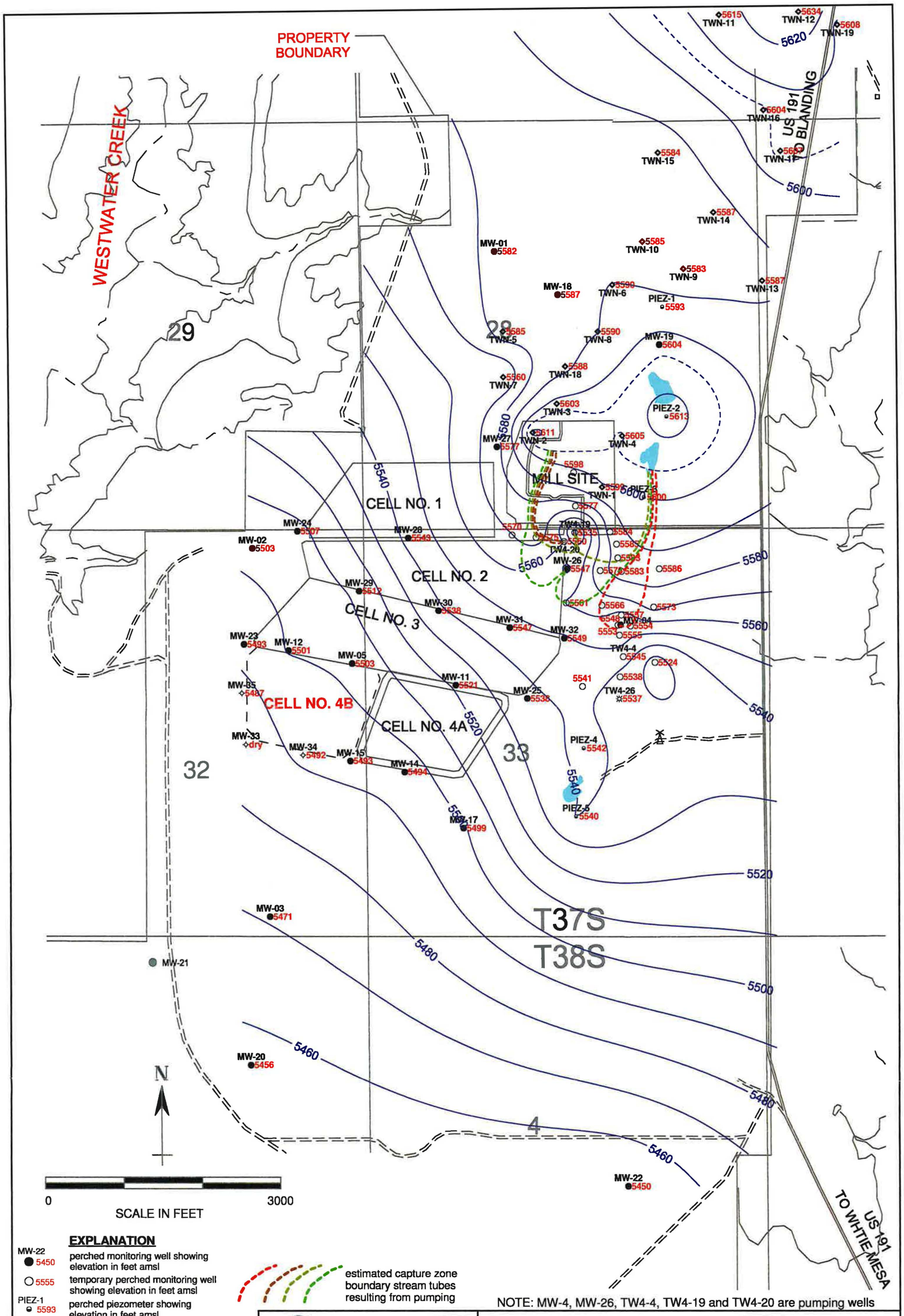
MW-22 ● 5450	perched monitoring well showing elevation in feet amsl
○ 5555	temporary perched monitoring well showing elevation in feet amsl
PIEZ-1 ⊖ 5593	perched piezometer showing elevation in feet amsl
TWN-4 ◇ 5605	temporary perched nitrate monitoring well showing elevation in feet amsl
TW4-26 ✲ 5537	temporary perched monitoring well installed May, 2010 showing elevation in feet amsl
MW-34 ⊕ 5492	perched monitoring well installed August/September, 2010 showing elevation in feet amsl

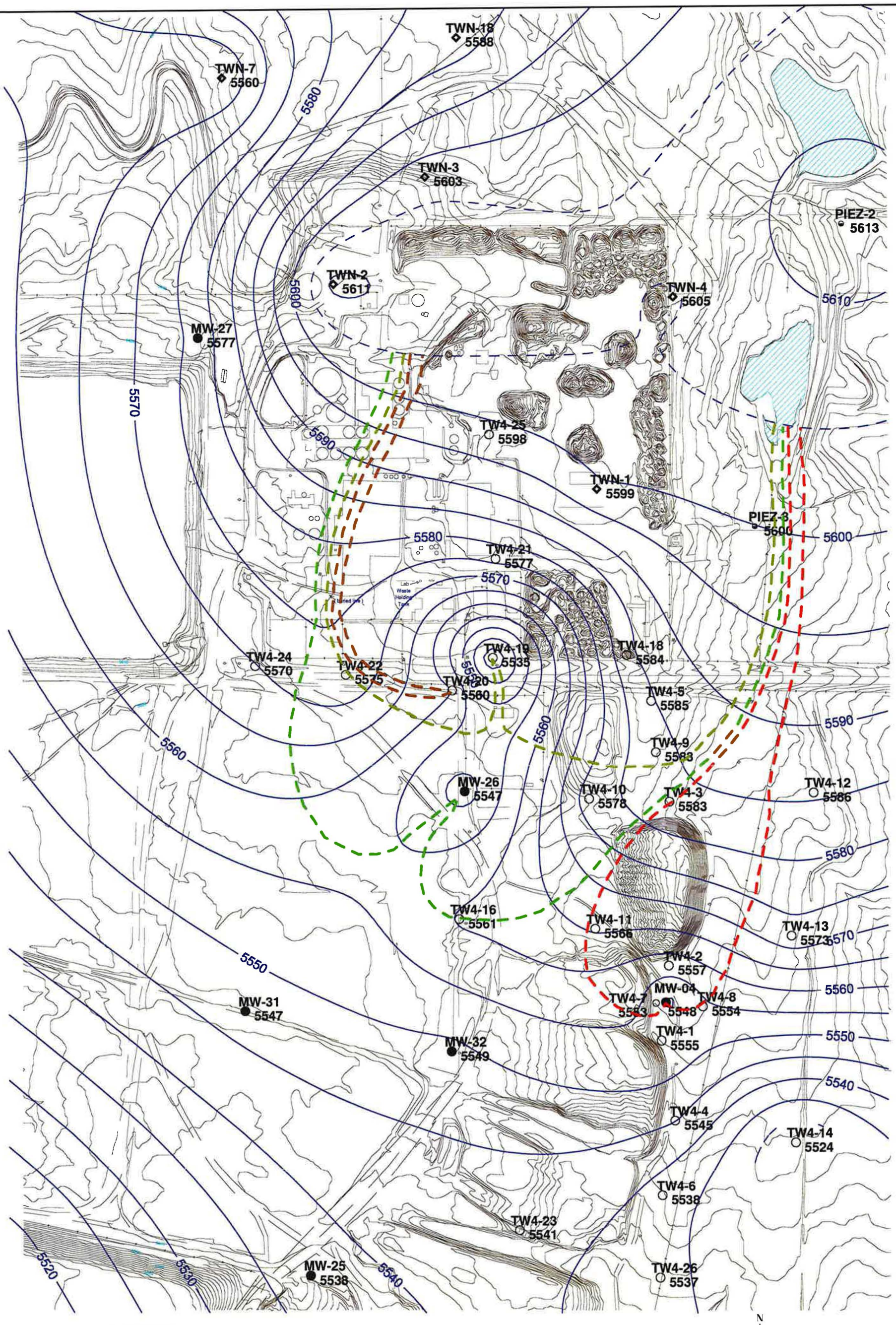
NOTE: MW-4, MW-26, TW4-4, TW4-19 and TW4-20 are pumping wells

HYDRO GEO CHEM, INC.

KRIGED 3rd QUARTER, 2010 WATER LEVELS WHITE MESA SITE

APPROVED	DATE	REFERENCE	FIGURE
SJS		H:/718000/nov10/wl0910.srf	


PROPERTY BOUNDARY
WESTWATER CREEK
US 191 TO BLANDING
US 191 TO WHITE MESA
MILL SITE
CELL NO. 1
CELL NO. 2
CELL NO. 3
CELL NO. 4A
CELL NO. 4B
T37S
T38S
29
28
32
33
4
5620
5600
5580
5560
5540
5520
5500
5480
5460
MW-01 5582
MW-02 5503
MW-03 5471
MW-04 5554
MW-05 5503
MW-11 5521
MW-12 5501
MW-14 5494
MW-15 5493
MW-17 5499
MW-18 5587
MW-19 5604
MW-20 5456
MW-21
MW-22 5450
MW-23 5493
MW-24 5507
MW-25 5538
MW-26 5547
MW-27 5577
MW-28 5543
MW-29 5512
MW-30 5538
MW-31 5547
MW-32 5549
MW-33 dry
MW-34 5492
MW-35 5487
PIEZ-1 5593
PIEZ-2 5613
PIEZ-3 5600
PIEZ-4 5542
PIEZ-5 5540
TWN-1 5577
TWN-2 5611
TWN-3 5603
TWN-4 5605
TWN-5 5585
TWN-6 5590
TWN-7 5560
TWN-8 5590
TWN-9 5583
TWN-10 5585
TWN-11 5615
TWN-12 5634
TWN-13 5587
TWN-14 5587
TWN-15 5584
TWN-16 5604
TWN-17 5597
TWN-18 5588
TWN-19 5608
TW4-4 5545
TW4-19 5535
TW4-20 5550
TW4-26 5537
5541
N
0
3000
SCALE IN FEET
EXPLANATION
MW-22 5450 perched monitoring well showing elevation in feet amsl
5555 temporary perched monitoring well showing elevation in feet amsl
PIEZ-1 5593 perched piezometer showing elevation in feet amsl
TWN-4 5605 temporary perched nitrate monitoring well showing elevation in feet amsl
TW4-26 5537 temporary perched monitoring well installed May, 2010 showing elevation in feet amsl
MW-34 5492 perched monitoring well installed August/September, 2010 showing elevation in feet amsl
estimated capture zone boundary stream tubes resulting from pumping
NOTE: MW-4, MW-26, TW4-4, TW4-19 and TW4-20 are pumping wells
HYDRO GEO CHEM, INC.
KRIGED 3rd QUARTER, 2010 WATER LEVELS AND ESTIMATED CAPTURE ZONES WHITE MESA SITE
APPROVED SJS
DATE
REFERENCE H:/718000/nov10/wl0910cz2.srf
FIGURE



EXPLANATION

estimated capture zone boundary stream tubes resulting from pumping

◆ TWN-1 5599 temporary perched nitrate monitoring well showing elevation in feet amsl

○ TW4-1 5555 temporary perched monitoring well showing elevation in feet amsl

● MW-32 5549 perched monitoring well showing elevation in feet amsl

NOTE: MW-4, MW-26, TW4-4, TW4-19, and TW4-20 are pumping wells

HYDRO GEO CHEM, INC.

KRIGED 3rd QUARTER, 2010 WATER LEVELS AND ESTIMATED CAPTURE ZONES WHITE MESA SITE (detail map)

APPROVED	DATE	REFERENCE	FIGURE
SJS		H:/718000/aug10/wl0910cz.srf	

Quarterly Depth to Water

NAME: Tanner Holliday, Garrin Palmer

DATE: 9/29/2010

MMHG:

Start time: 730

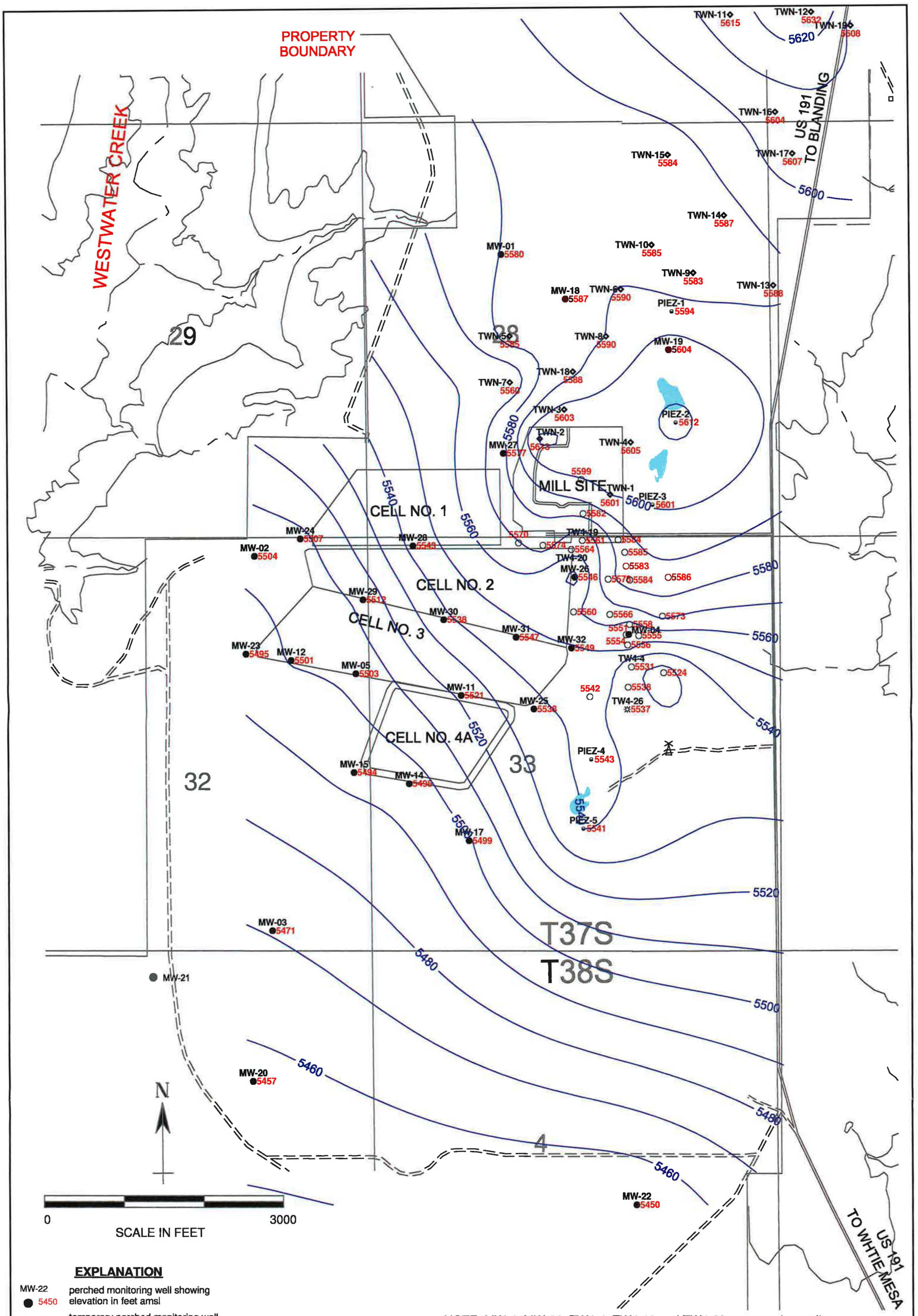
Finish Time: 1442

TIME	WELL I.D.	DEPTH	TIME	WELL I.D.	DEPTH	TIME	WELL I.D.	DEPTH
922	MW-1	65.32	812	TW4-1	63.32	846	PIEZ-1	62.11
1433	MW-2	109.74	815	TW4-2	67.48	841	PIEZ-2	15.36
1359	MW-3	84.02	816	TW4-3	48.72	830	PIEZ-3	38.07
1400	MW-3A	85.57	819	TW4-4	68.25	1345	PIEZ-4	48.85
1000	MW-4	74.00	823	TW4-5	56.15	1348	PIEZ-5	44.19
1256	MW-5	106.47	827	TW4-6	70.75			
957	MW-11	89.61	1259	TW4-7	67.62	819	TWN-1	48.91
1223	MW-12	108.55	1341	TW4-8	67.06	751	TWN-2	15.32
1236	MW-14	103.83	915	TW4-9	54.67	822	TWN-3	31.64
1240	MW-15	106.53	918	TW4-10	56.39	827	TWN-4	37.28
1354	MW-17	76.22	1317	TW4-11	57.95	1917	TWN-5	69.83
914	MW-18	70.49	835	TW4-12	38.55	909	TWN-6	74.70
843	MW-19	51.22	837	TW4-13	46.77	918	TWN-7	89.43
1412	MW-20	84.11	839	TW4-14	88.40	911	TWN-8	61.74
1418	MW-22	67.27	845	TW4-15	78.02	847	TWN-9	64.20
1219	MW-23	119.31	851	TW4-16	63.48	907	TWN-10	81.56
1214	MW-24	114.65	941	TW4-17	76.41	901	TWN-11	69.60
1249	MW-25	75.02	818	TW4-18	57.67	859	TWN-12	34.51
845	MW-26	78.02	856	TW4-19	96.13	849	TWN-13	46.95
811	MW-27	51.00	905	TW4-20	69.20	852	TWN-14	63.00
950	MW-28	77.30	815	TW4-21	62.75	904	TWN-15	92.23
947	MW-29	102.49	909	TW4-22	54.12	856	TWN-16	48.42
945	MW-30	76.13	921	TW4-23	65.90	854	TWN-17	34.78
943	MW-31	69.12	925	TW4-24	55.65	825	TWN-18	57.95
941	MW-32	76.41	813	TW4-25	46.23	740	TWN-19	53.38
1442	MW-33	107.94	927	TW4-26	64.73			
1440	MW-34	DRY						
1438	MW-35	112.31						

Comments: MW-15 was found unlocked, problem was taken care of. Tanner and Garrin split up to perform depth checks so some of the times may appear to be on top of each other but there were two technicians.

Tab E

Kriged Previous Quarter Groundwater Contour Map



NOTE: MW-4, MW-26, TW4-4, TW4-19 and TW4-20 are pumping wells

EXPLANATION

MW-22 ● 5450	perched monitoring well showing elevation in feet amsl
○ 5556	temporary perched monitoring well showing elevation in feet amsl
PIEZ-1 ◒ 5594	perched piezometer showing elevation in feet amsl
TWN-4 ◆ 5605	temporary perched nitrate monitoring well showing elevation in feet amsl
TW4-26 ✲ 5537	temporary perched monitoring well installed May, 2010 showing elevation in feet amsl

HYDRO GEO CHEM, INC.

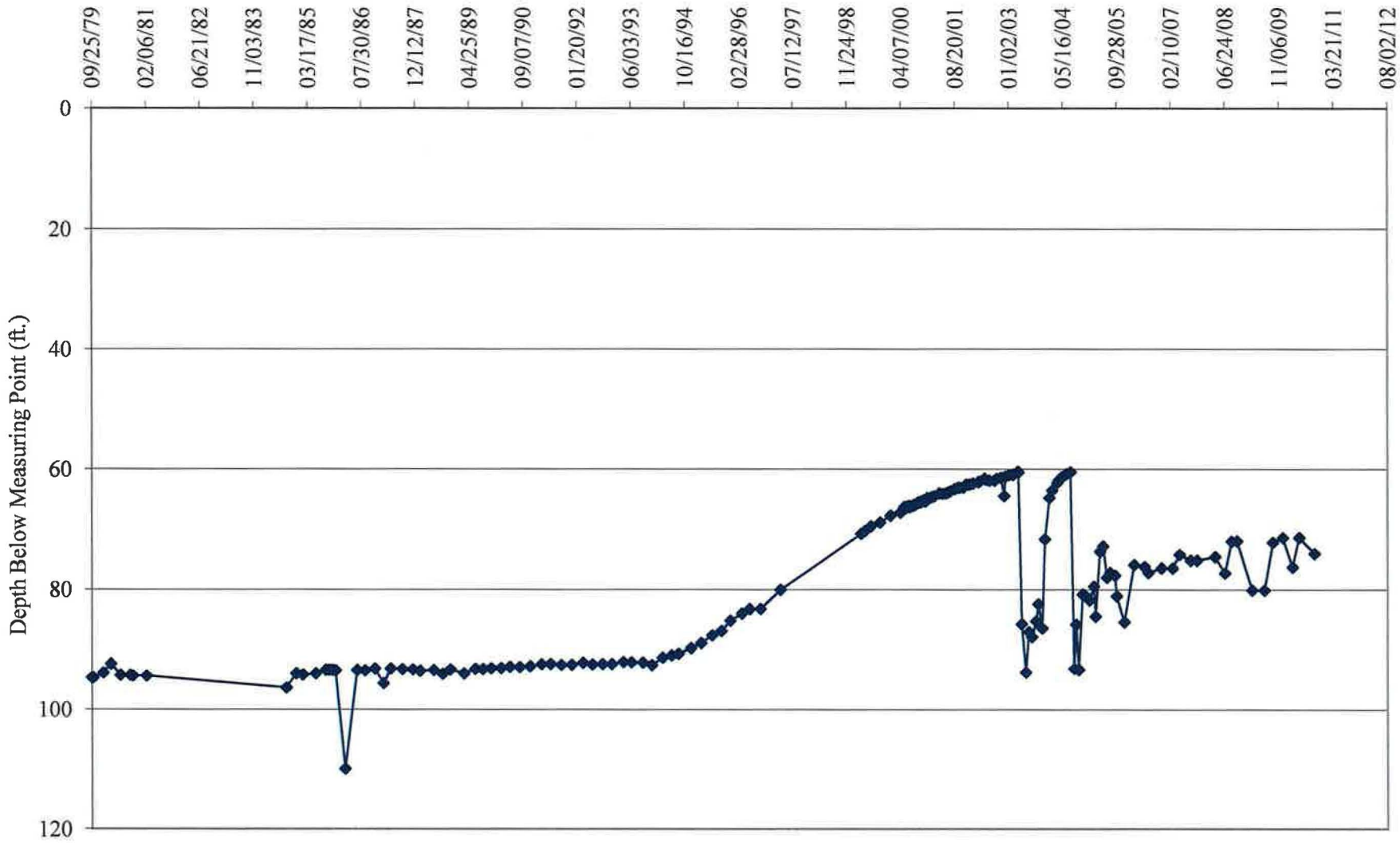
KRIGED 2nd QUARTER, 2010 WATER LEVELS
WHITE MESA SITE

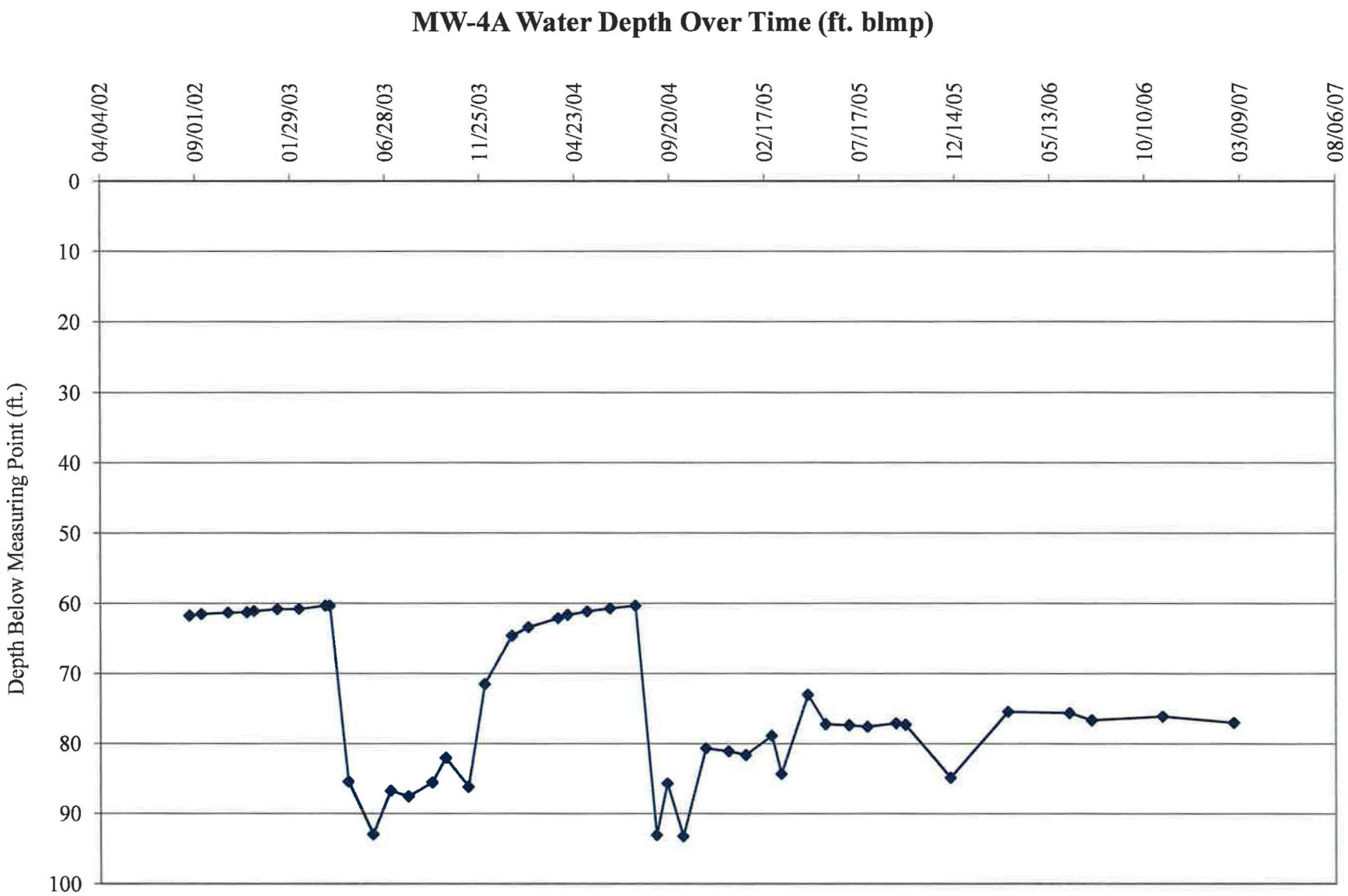
APPROVED	DATE	REFERENCE	FIGURE
SJS		H:/718000/aug10/wl0610.srf	

Tab F

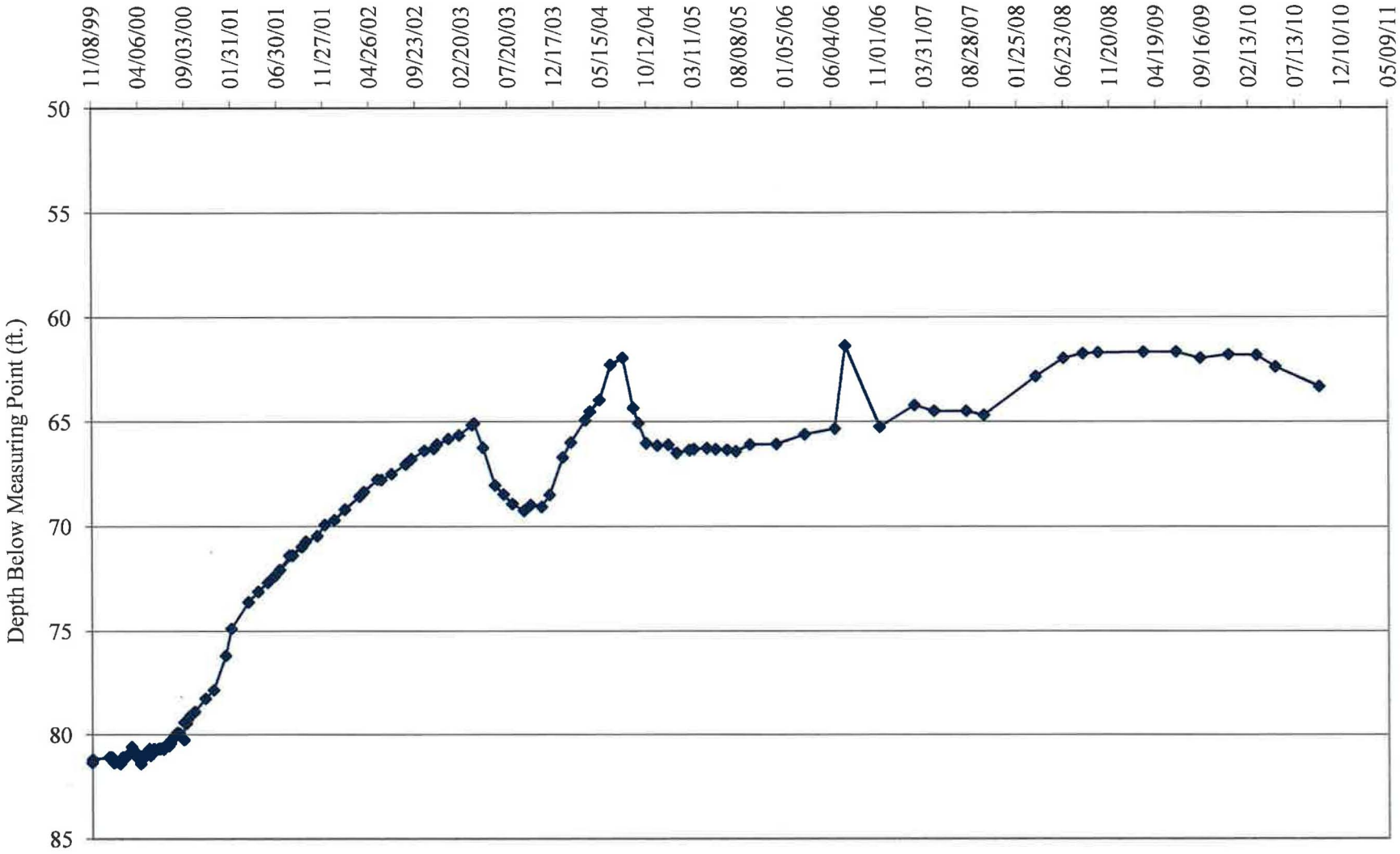
Hydrographs of Groundwater Elevations Over Time for Chloroform Monitoring Wells

MW 4 Water Depth Over Time (ft. blmp)

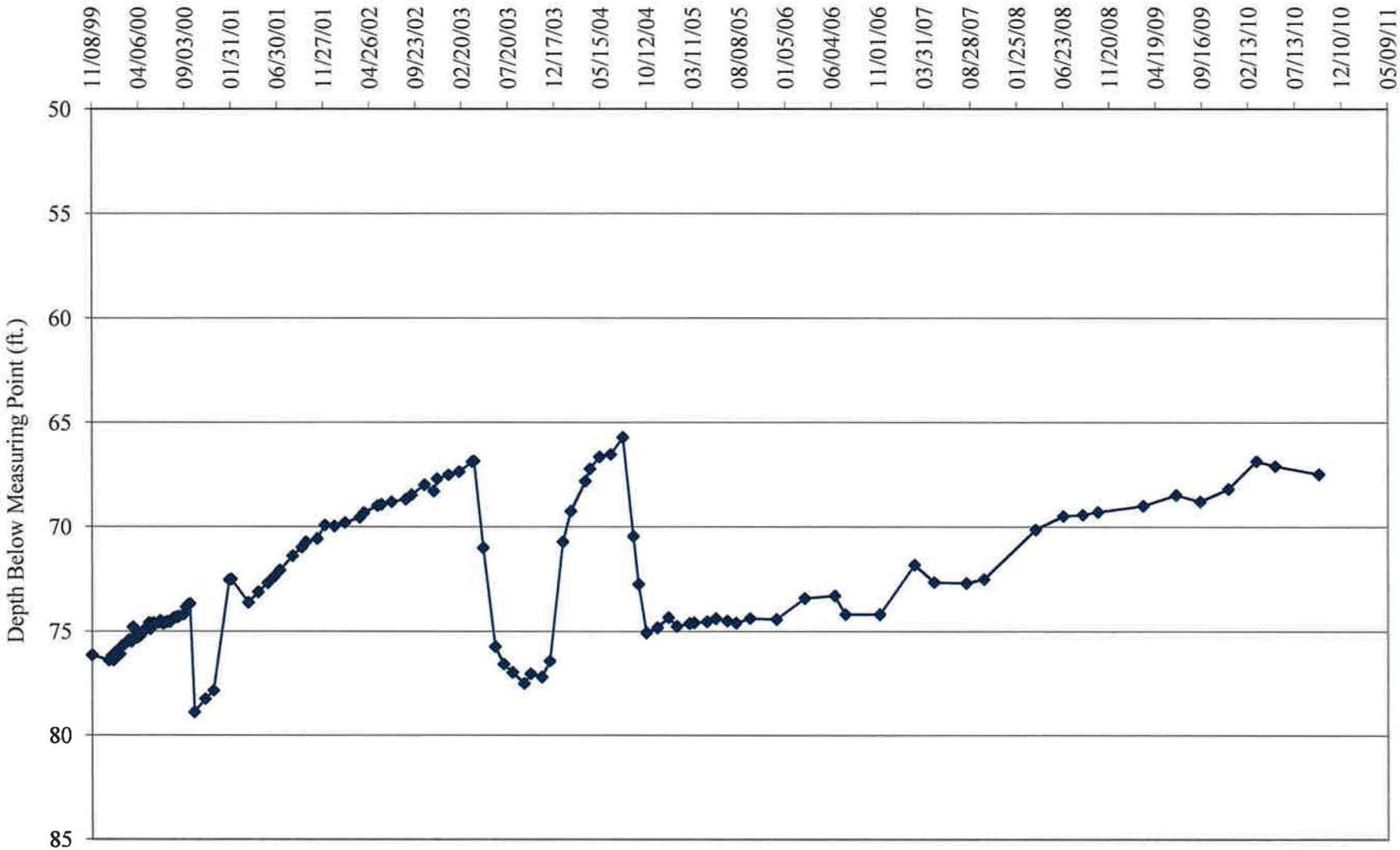


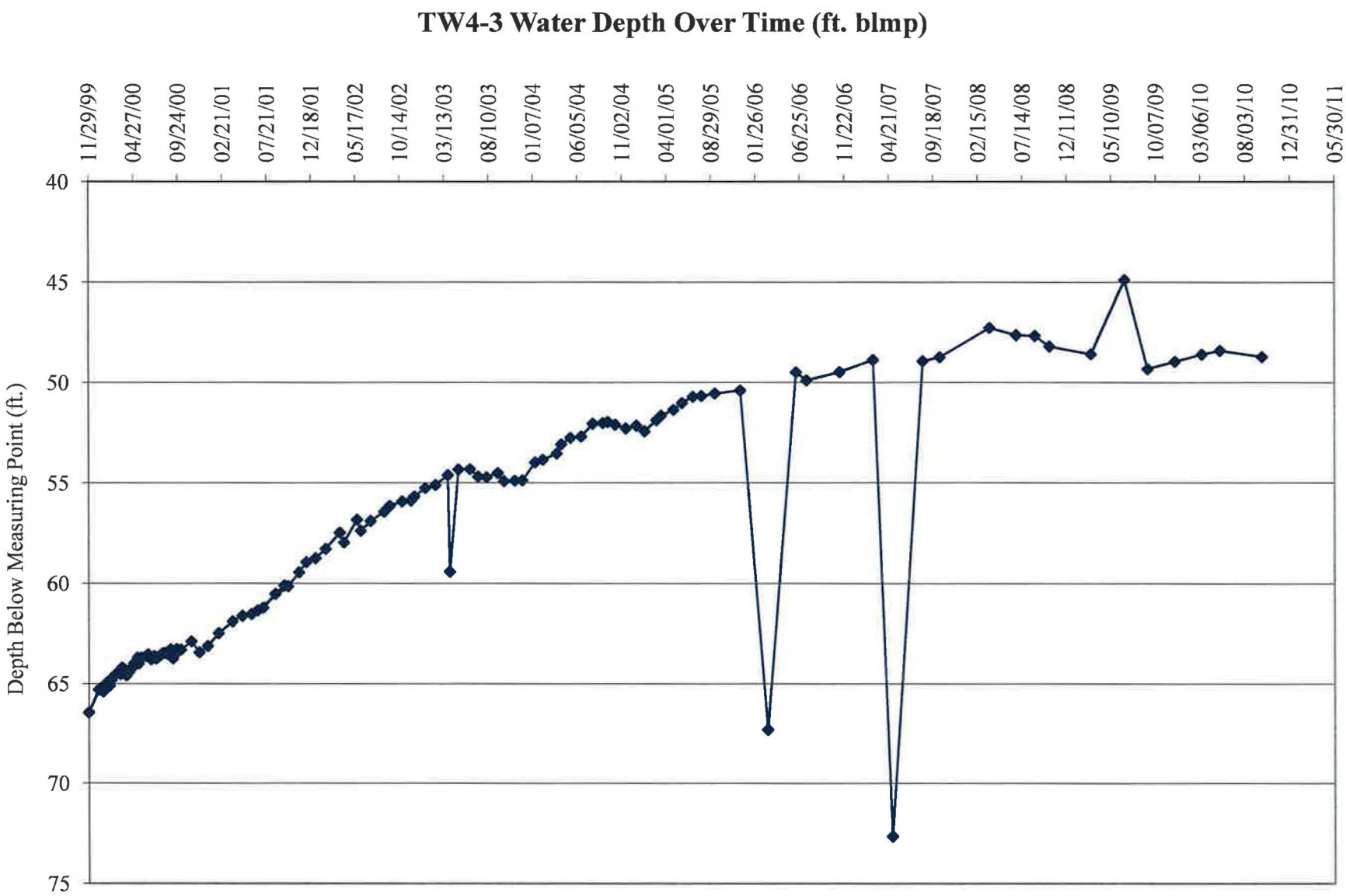

MW-4A Water Depth Over Time (ft. blmp)
Depth Below Measuring Point (ft.)
0
10
20
30
40
50
60
70
80
90
100
04/04/02
09/01/02
01/29/03
06/28/03
11/25/03
04/23/04
09/20/04
02/17/05
07/17/05
12/14/05
05/13/06
10/10/06
03/09/07
08/06/07

TW4-1 Water Depth Over Time (ft. blmp)

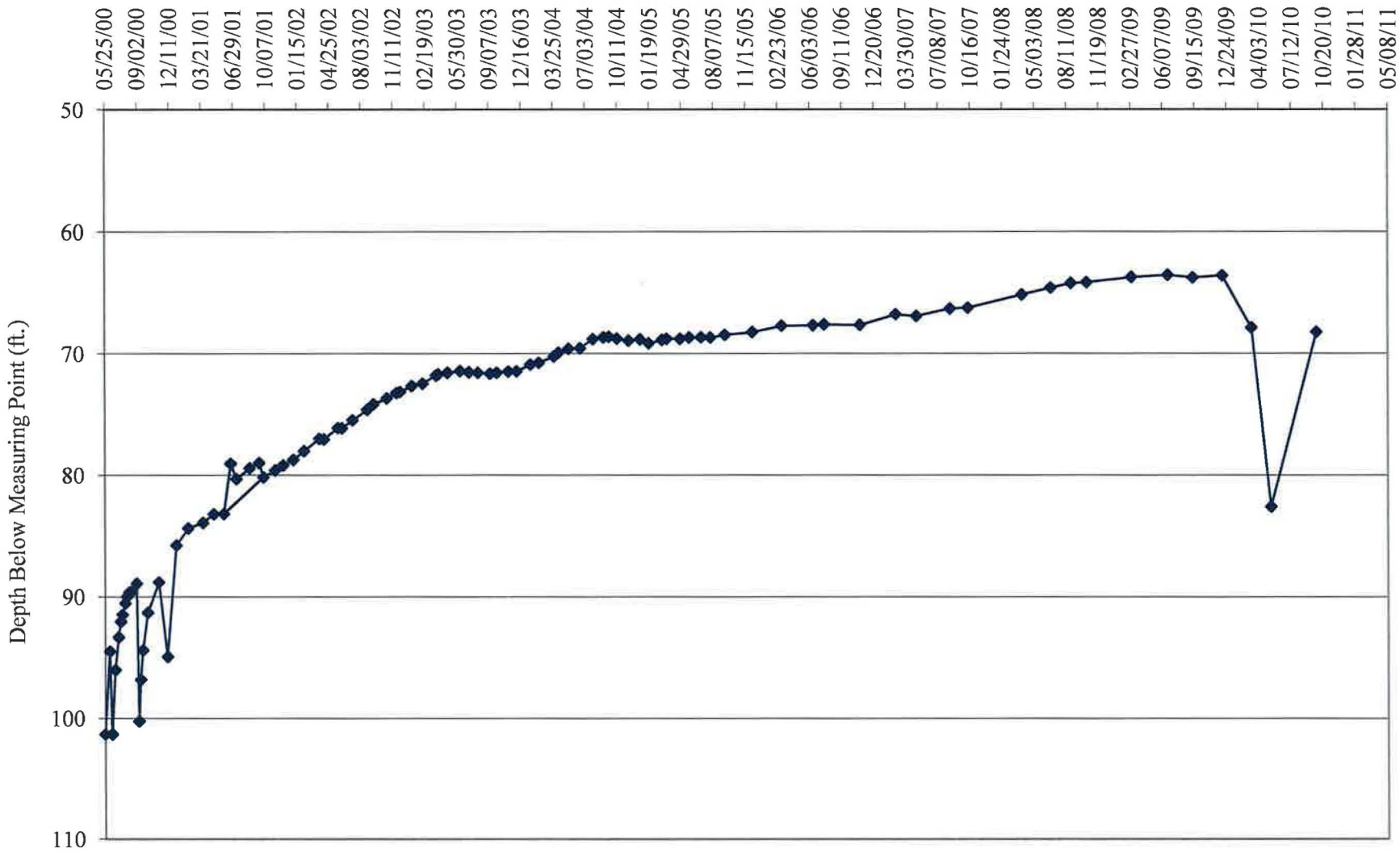


TW4-2 Water Depth Over Time (ft. blmp)

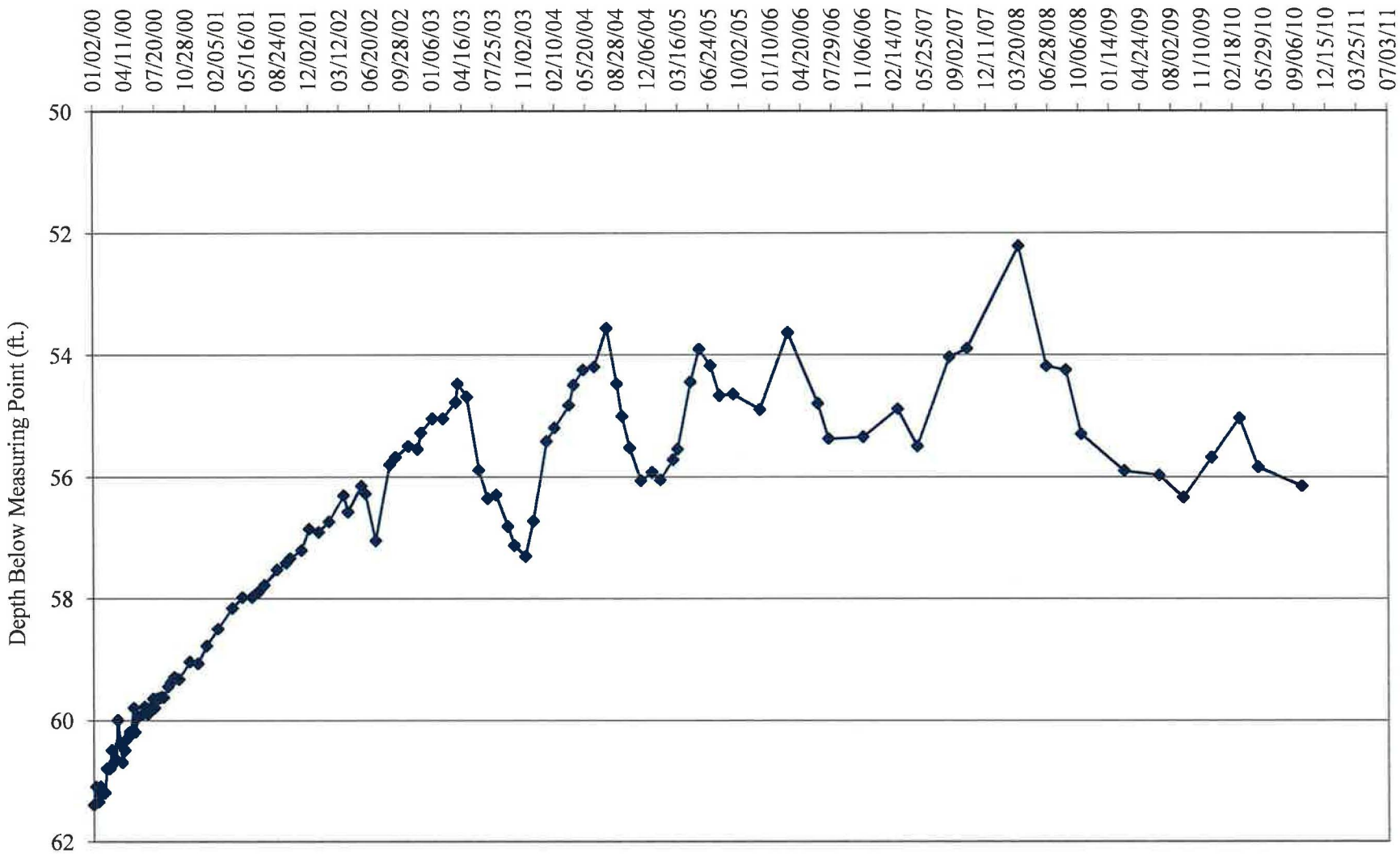



TW4-3 Water Depth Over Time (ft. blmp)
Depth Below Measuring Point (ft.)
40
45
50
55
60
65
70
75
11/29/99
04/27/00
09/24/00
02/21/01
07/21/01
12/18/01
05/17/02
10/14/02
03/13/03
08/10/03
01/07/04
06/05/04
11/02/04
04/01/05
08/29/05
01/26/06
06/25/06
11/22/06
04/21/07
09/18/07
02/15/08
07/14/08
12/11/08
05/10/09
10/07/09
03/06/10
08/03/10
12/31/10
05/30/11

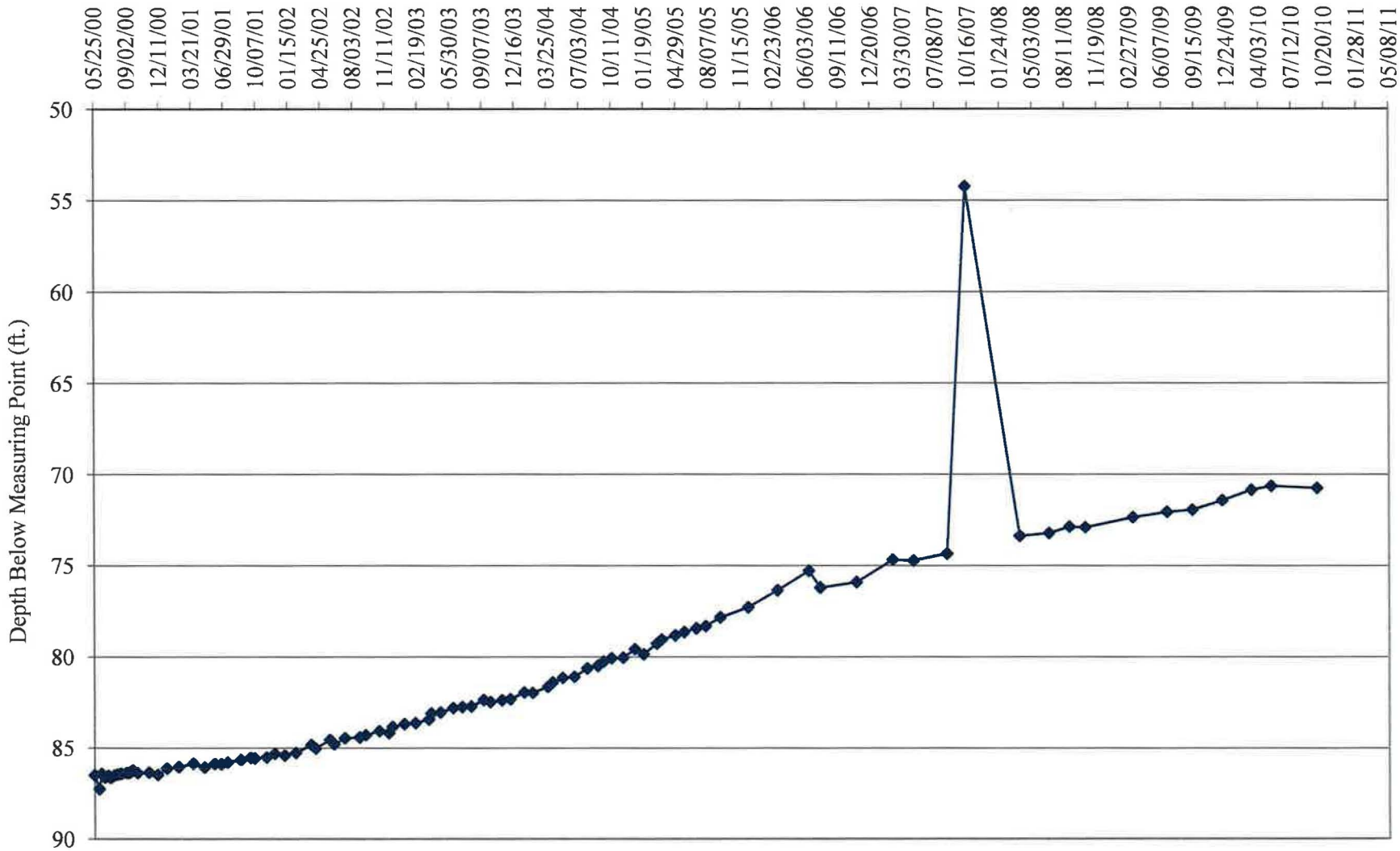
TW4-4 Water Depth Over Time (ft. blmp)



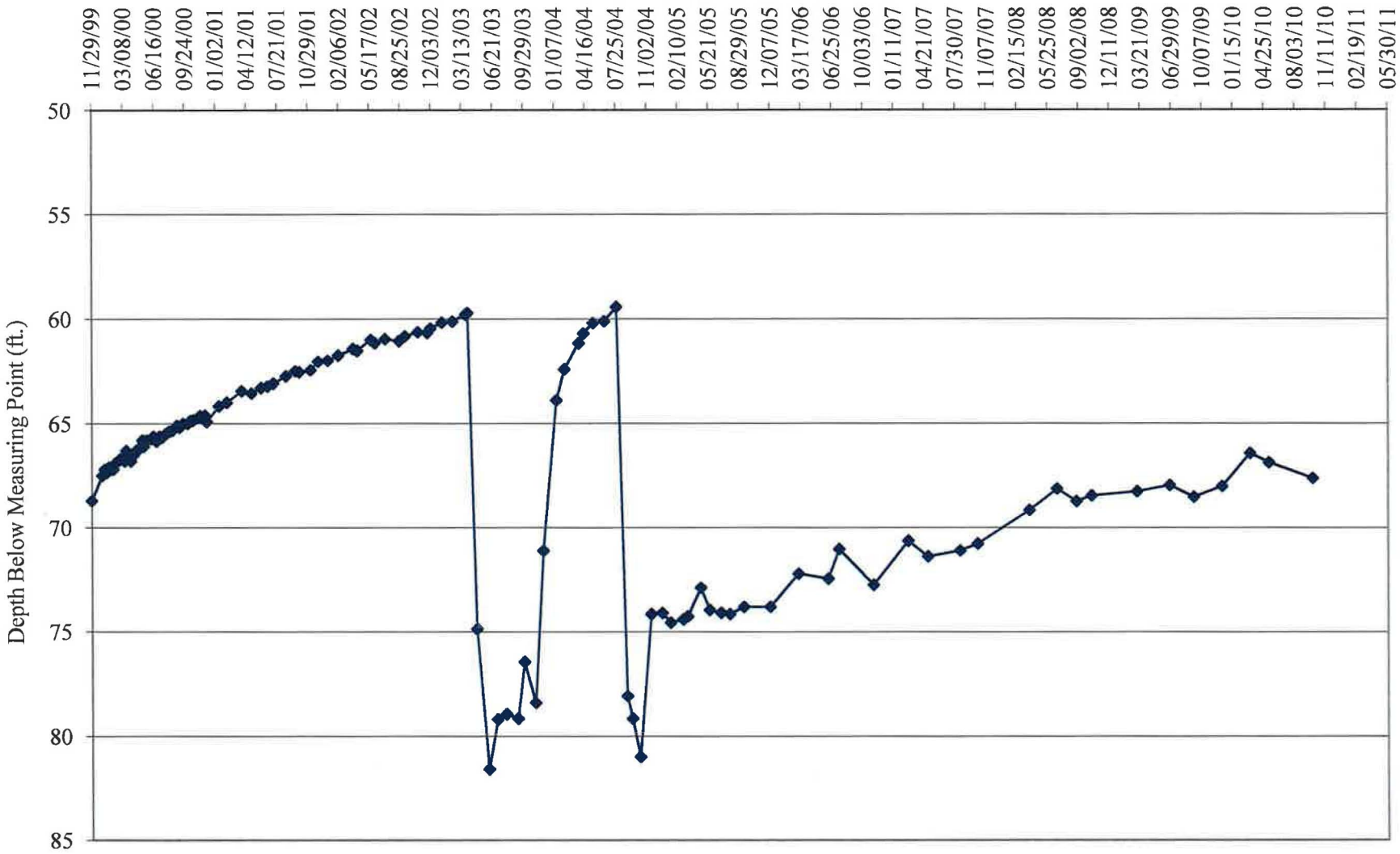
TW4-5 Water Depth Over Time (ft. blmp)



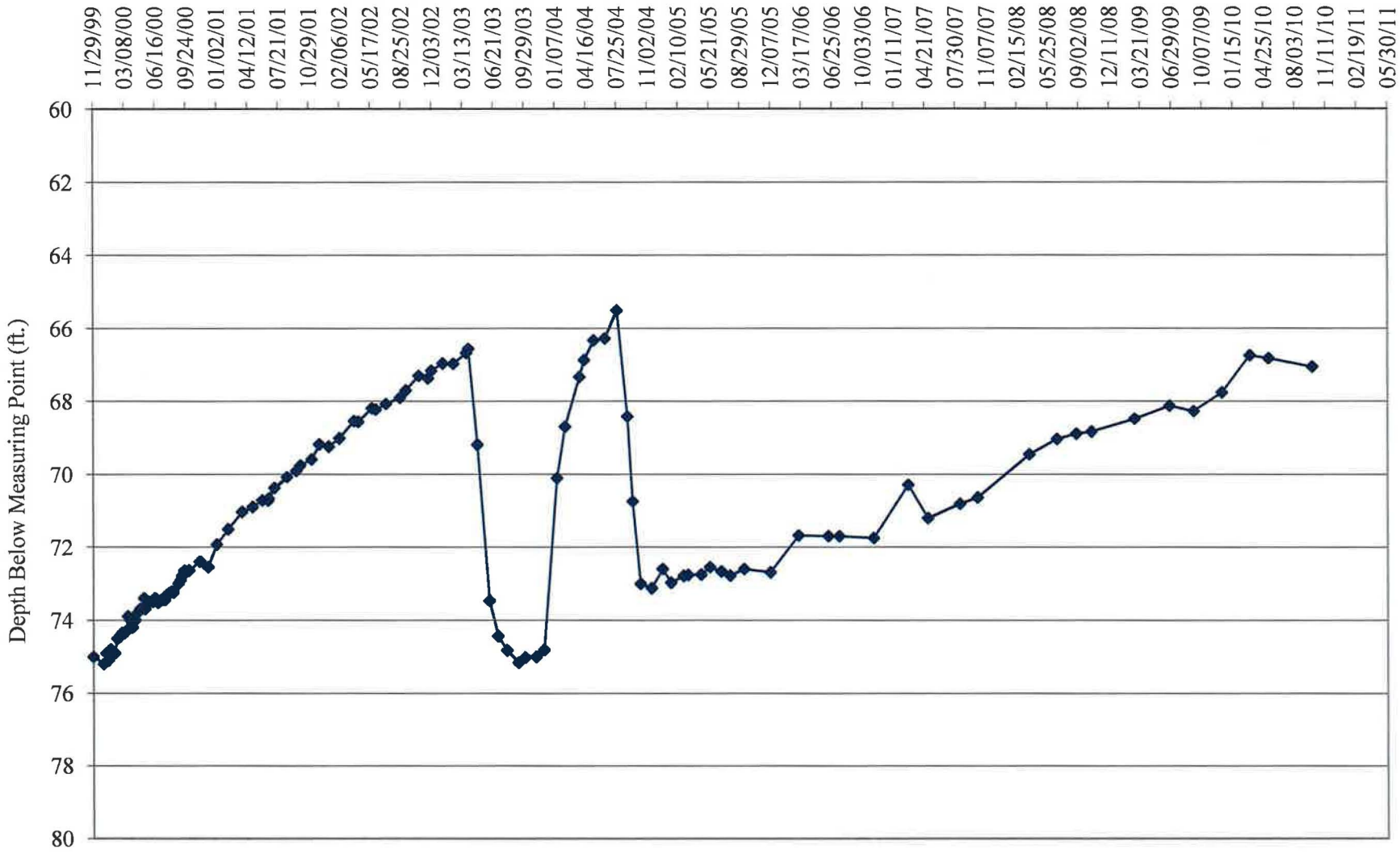
TW4-6 Water Depth Over Time (ft. blmp)

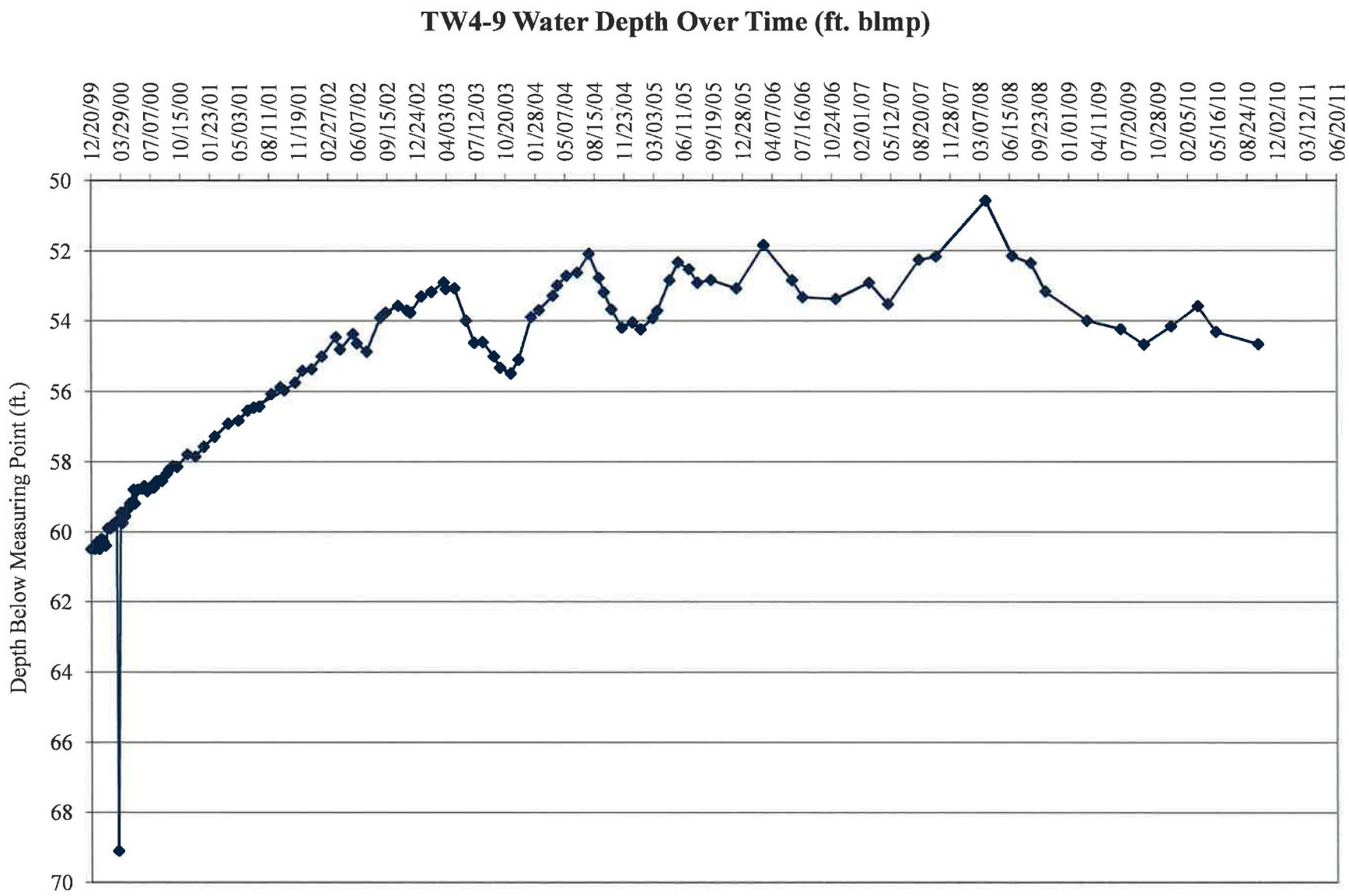


TW4-7 Water Depth Over Time (ft. blmp)

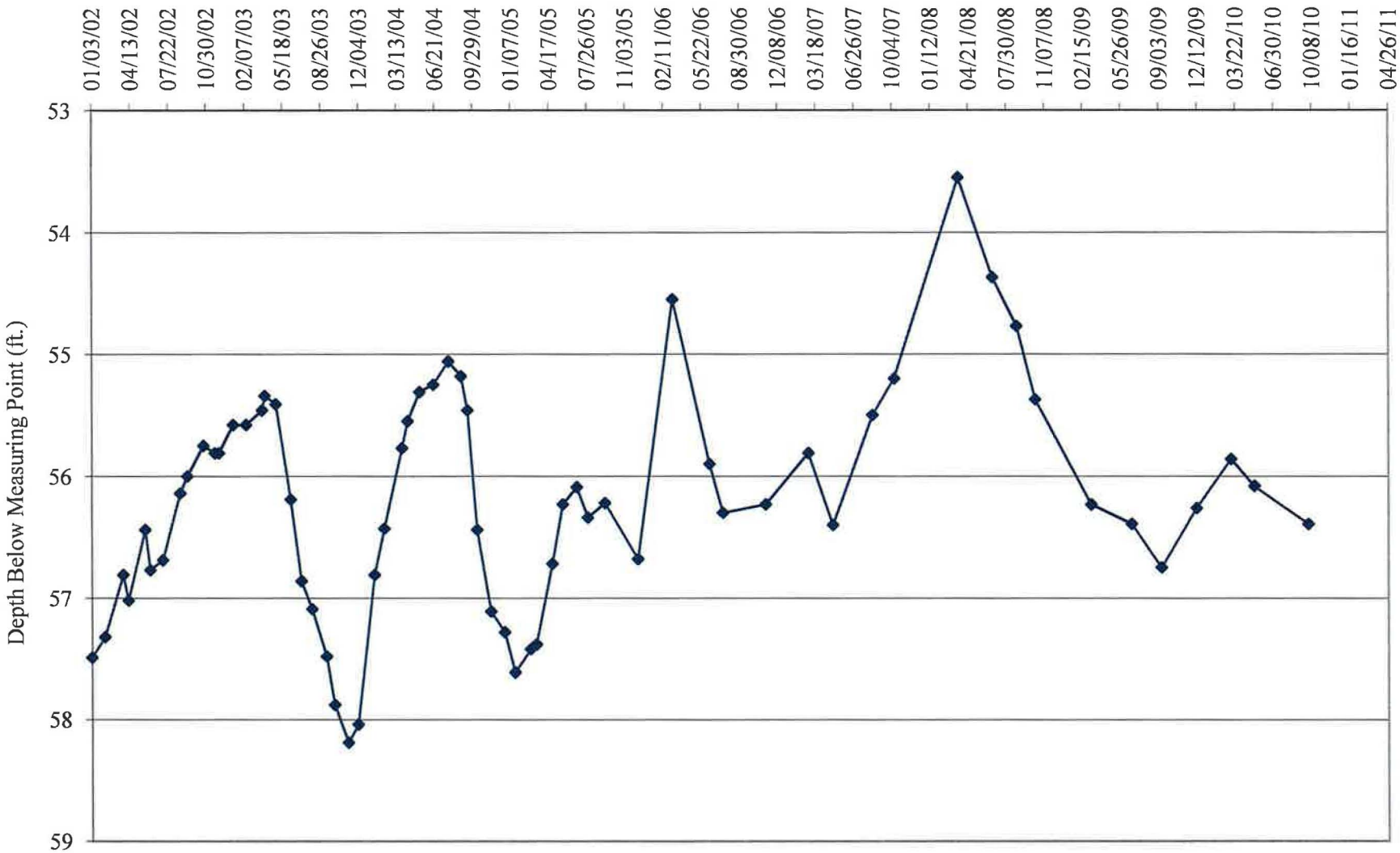


TW4-8 Water Depth Over Time (ft. blmp)

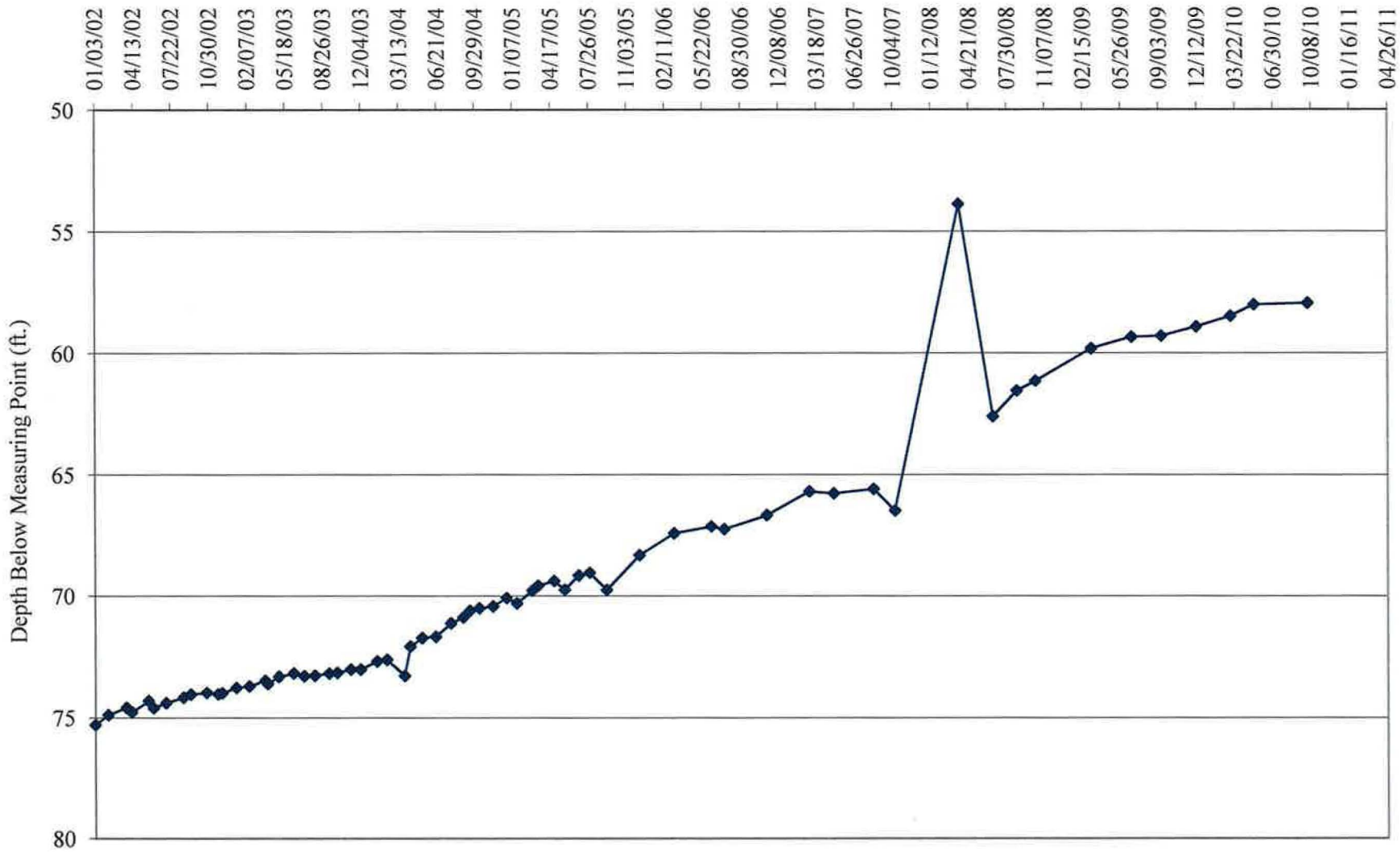


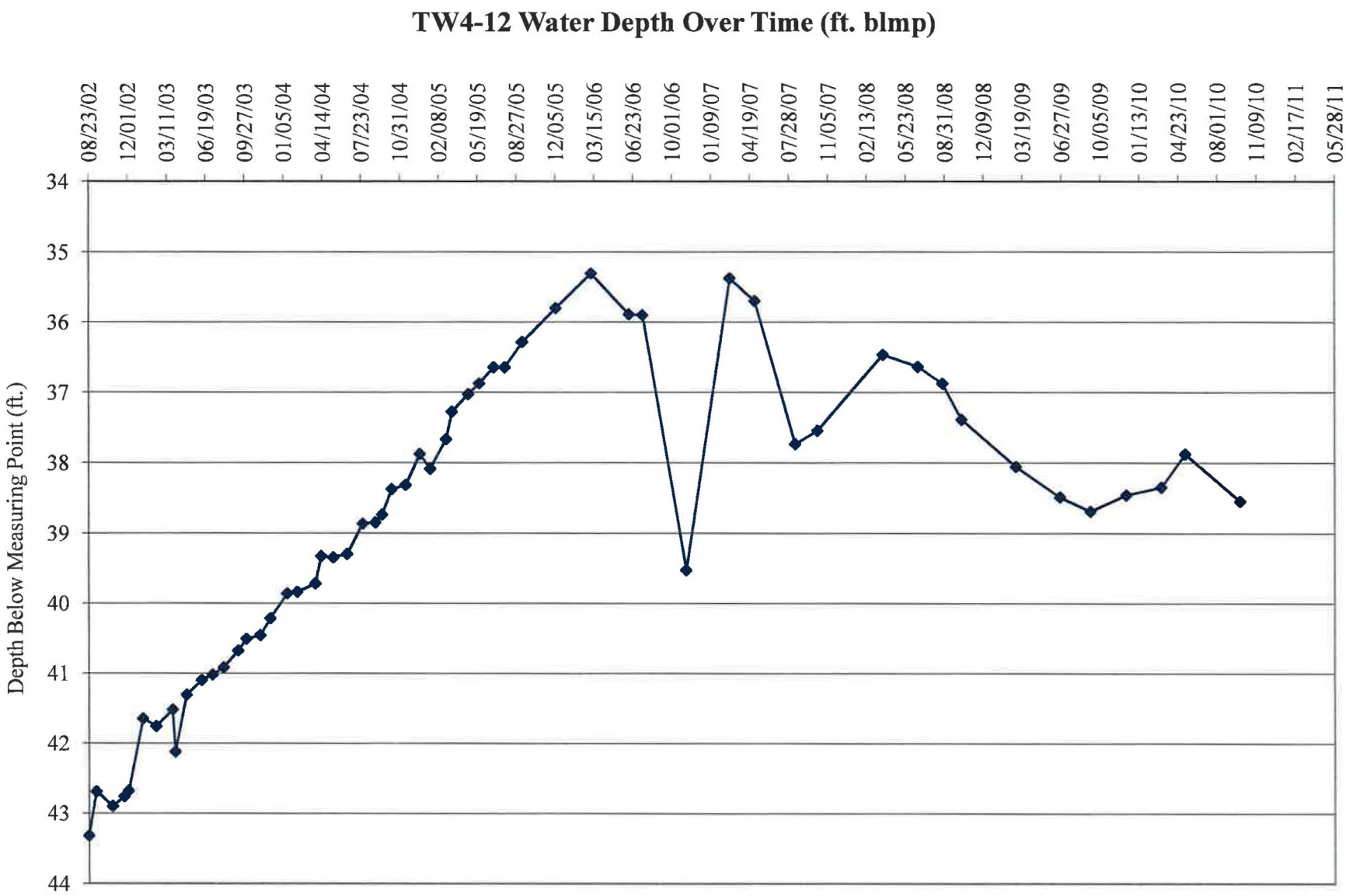

TW4-9 Water Depth Over Time (ft. blmp)
Depth Below Measuring Point (ft.)
50
52
54
56
58
60
62
64
66
68
70
12/20/99
03/29/00
07/07/00
10/15/00
01/23/01
05/03/01
08/11/01
11/19/01
02/27/02
06/07/02
09/15/02
12/24/02
04/03/03
07/12/03
10/20/03
01/28/04
05/07/04
08/15/04
11/23/04
03/03/05
06/11/05
09/19/05
12/28/05
04/07/06
07/16/06
10/24/06
02/01/07
05/12/07
08/20/07
11/28/07
03/07/08
06/15/08
09/23/08
01/01/09
04/11/09
07/20/09
10/28/09
02/05/10
05/16/10
08/24/10
12/02/10
03/12/11
06/20/11

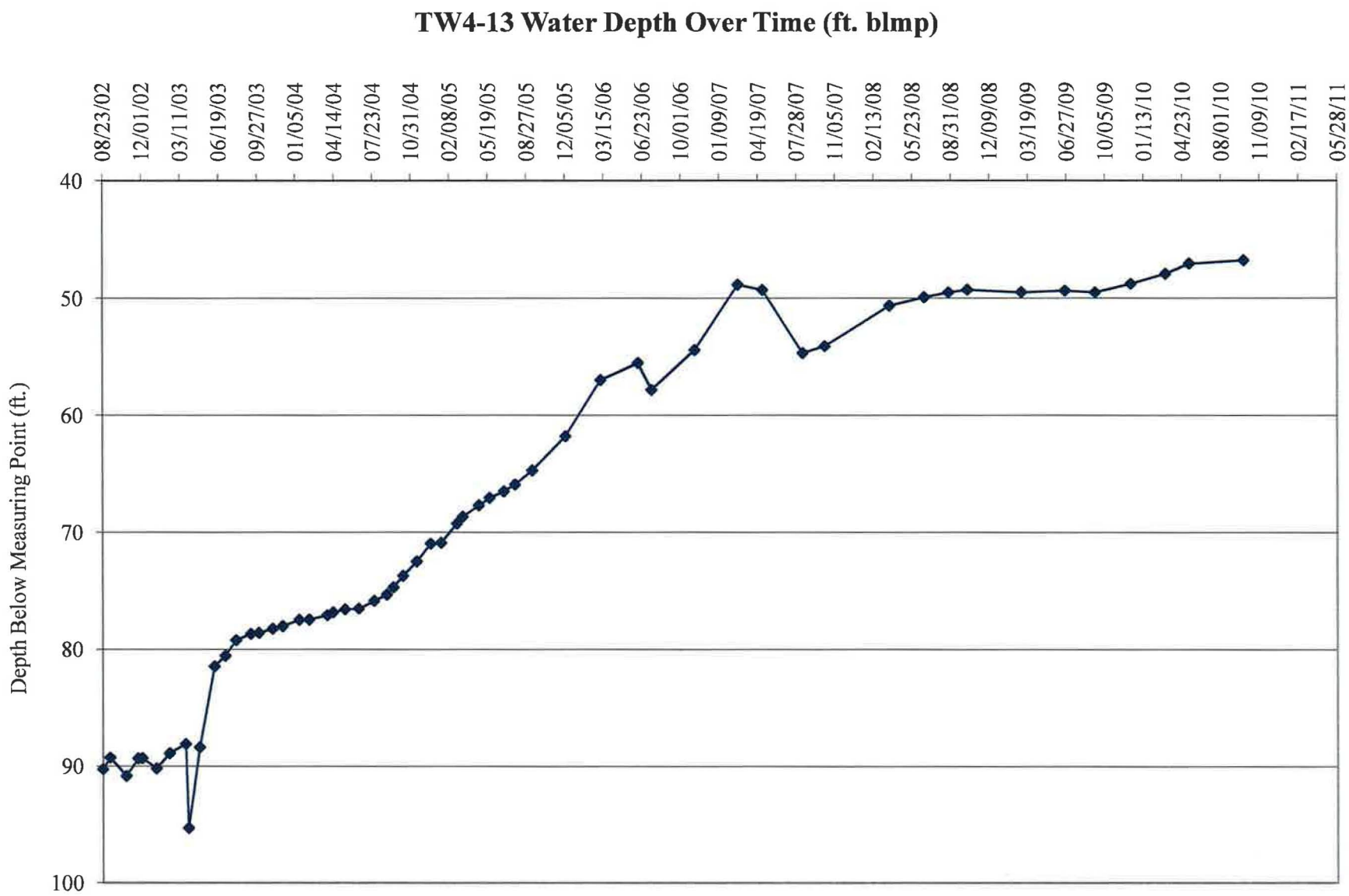
TW4-10 Water Depth Over Time (ft. blmp)



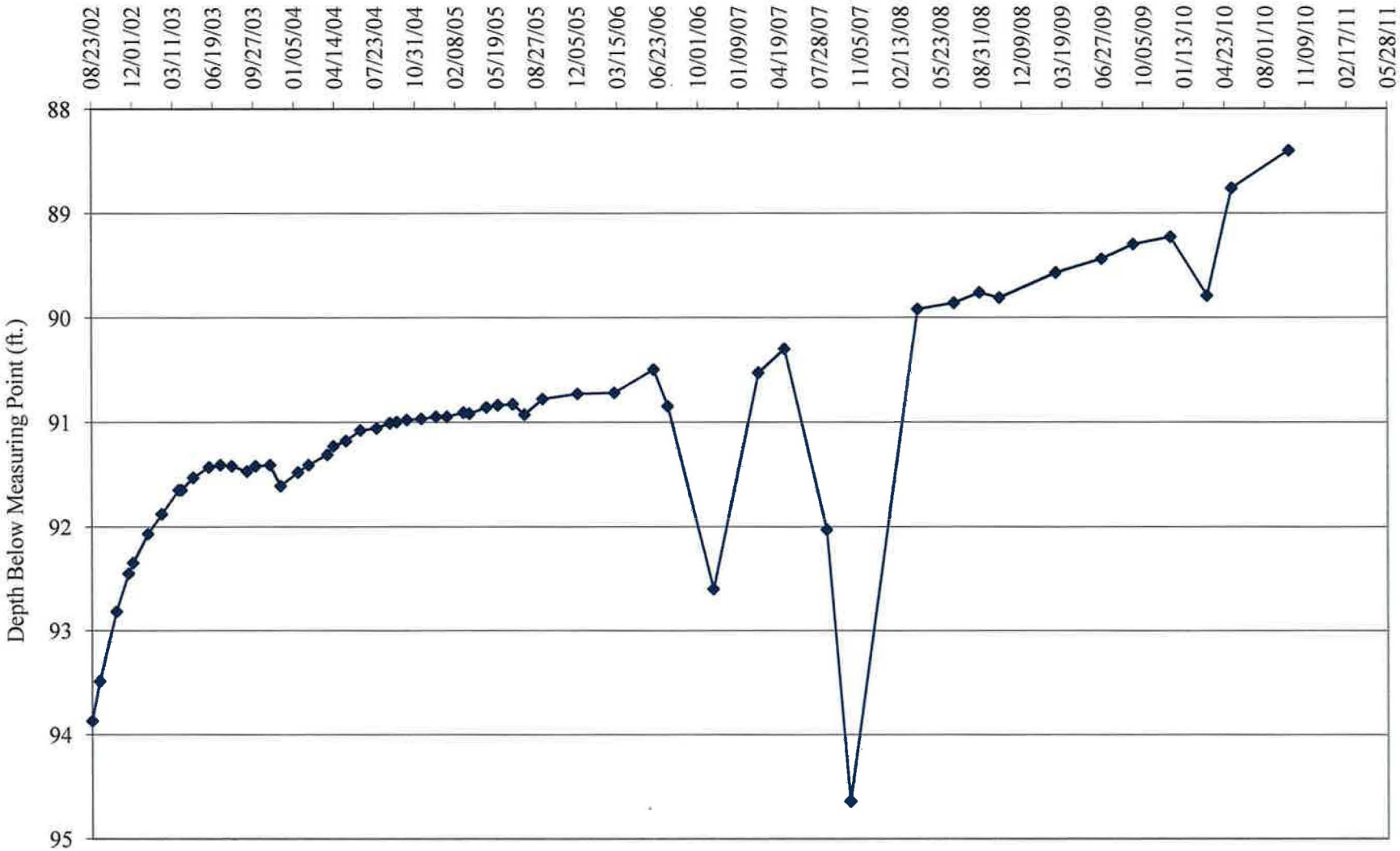
TW4-11 Water Depth Over Time (ft. blmp)



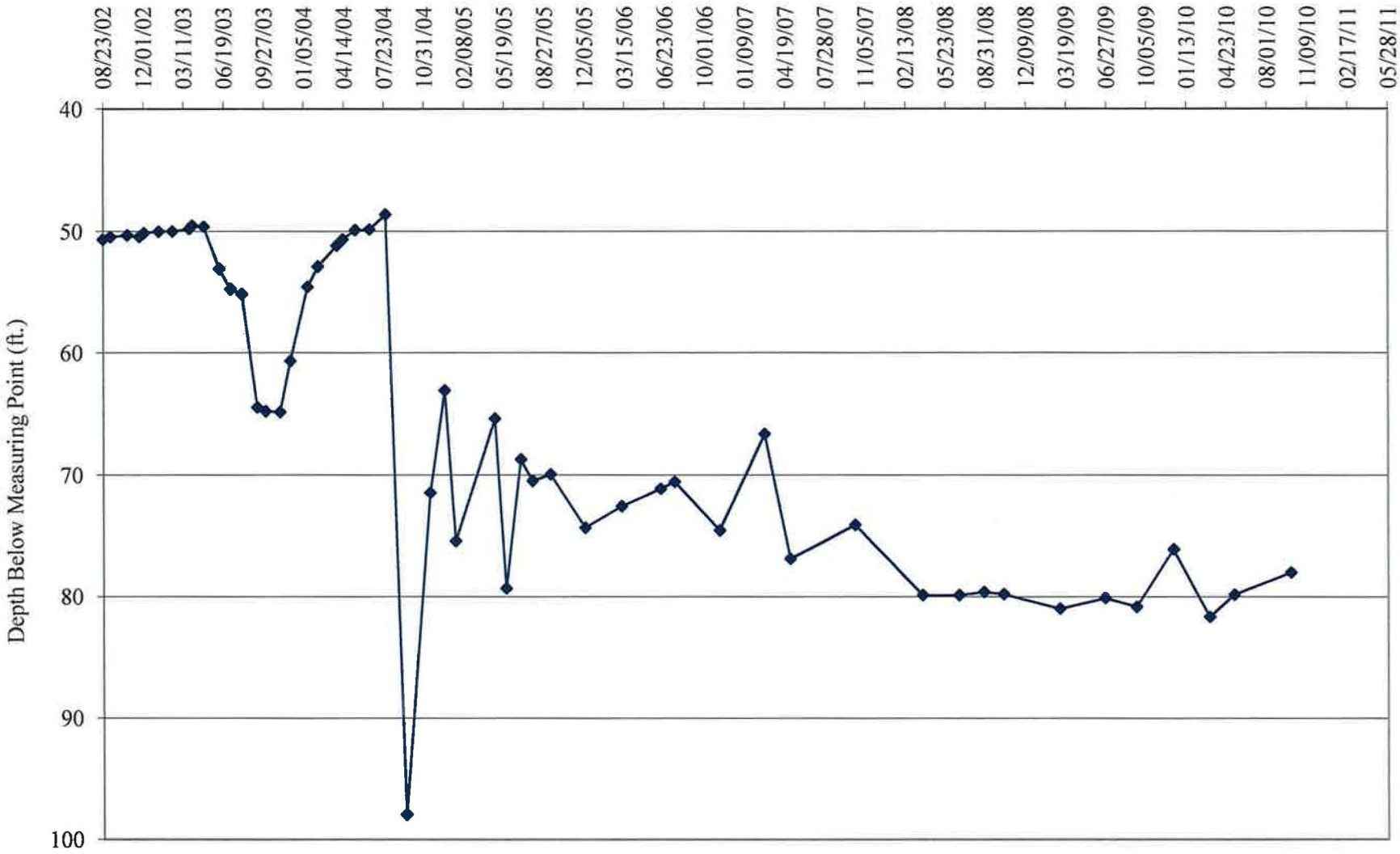

TW4-12 Water Depth Over Time (ft. blmp)
Depth Below Measuring Point (ft.)
34
35
36
37
38
39
40
41
42
43
44
08/23/02
12/01/02
03/11/03
06/19/03
09/27/03
01/05/04
04/14/04
07/23/04
10/31/04
02/08/05
05/19/05
08/27/05
12/05/05
03/15/06
06/23/06
10/01/06
01/09/07
04/19/07
07/28/07
11/05/07
02/13/08
05/23/08
08/31/08
12/09/08
03/19/09
06/27/09
10/05/09
01/13/10
04/23/10
08/01/10
11/09/10
02/17/11
05/28/11


TW4-13 Water Depth Over Time (ft. blmp)
Depth Below Measuring Point (ft.)
40
50
60
70
80
90
100
08/23/02
12/01/02
03/11/03
06/19/03
09/27/03
01/05/04
04/14/04
07/23/04
10/31/04
02/08/05
05/19/05
08/27/05
12/05/05
03/15/06
06/23/06
10/01/06
01/09/07
04/19/07
07/28/07
11/05/07
02/13/08
05/23/08
08/31/08
12/09/08
03/19/09
06/27/09
10/05/09
01/13/10
04/23/10
08/01/10
11/09/10
02/17/11
05/28/11

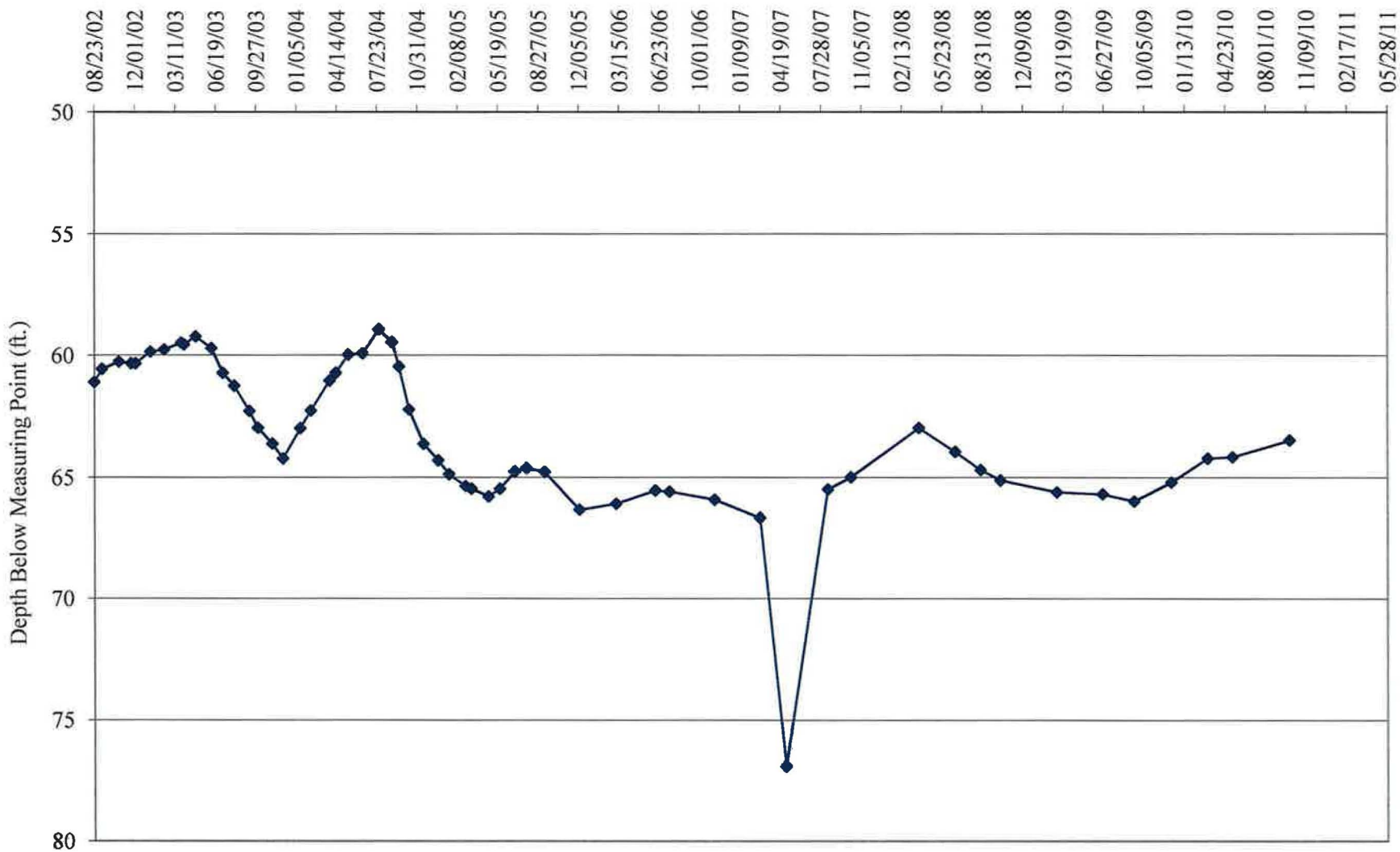
TW4-14 Water Depth Over Time (ft. blmp)



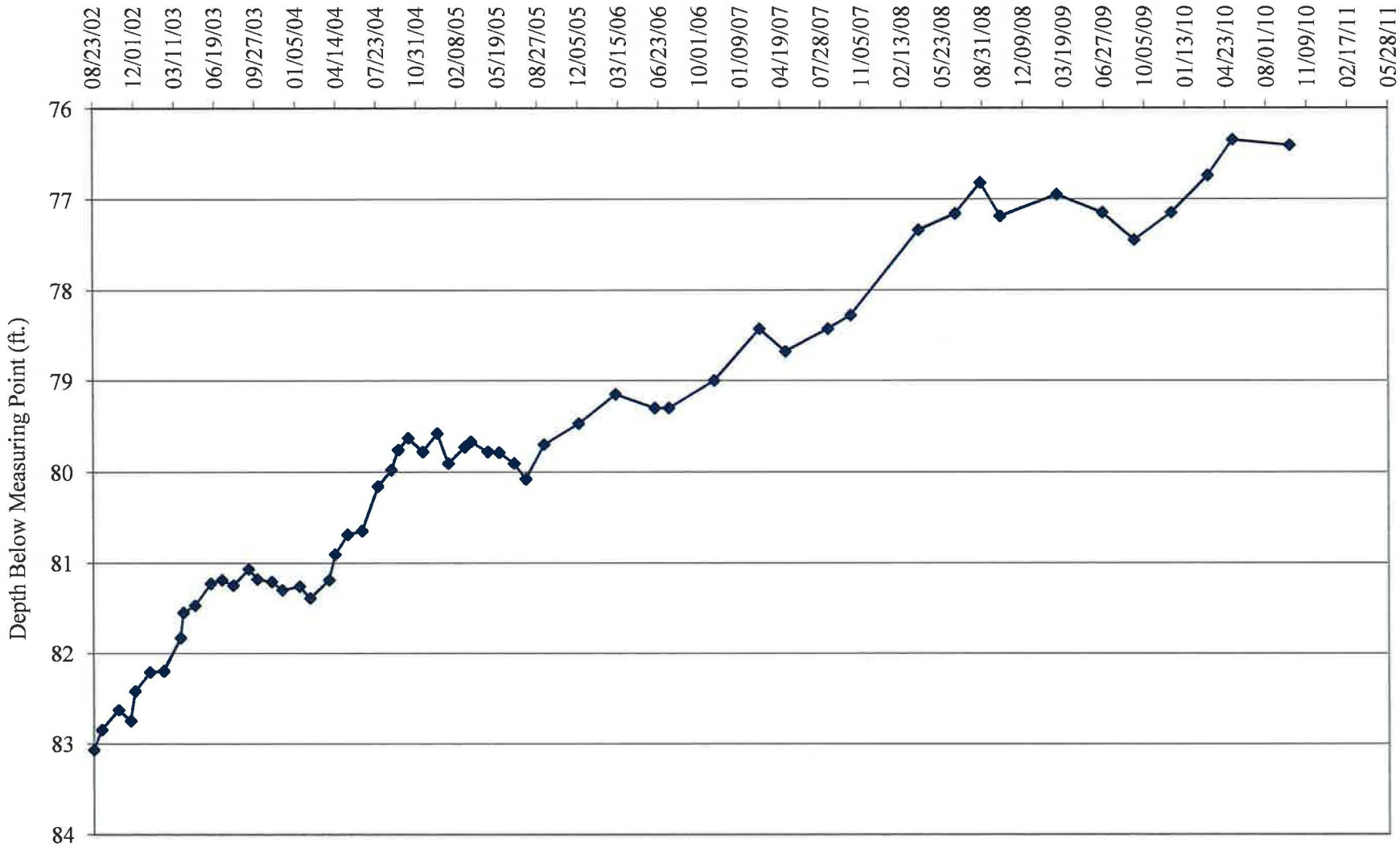
TW4-15 Water Depth Over Time (ft. blmp)



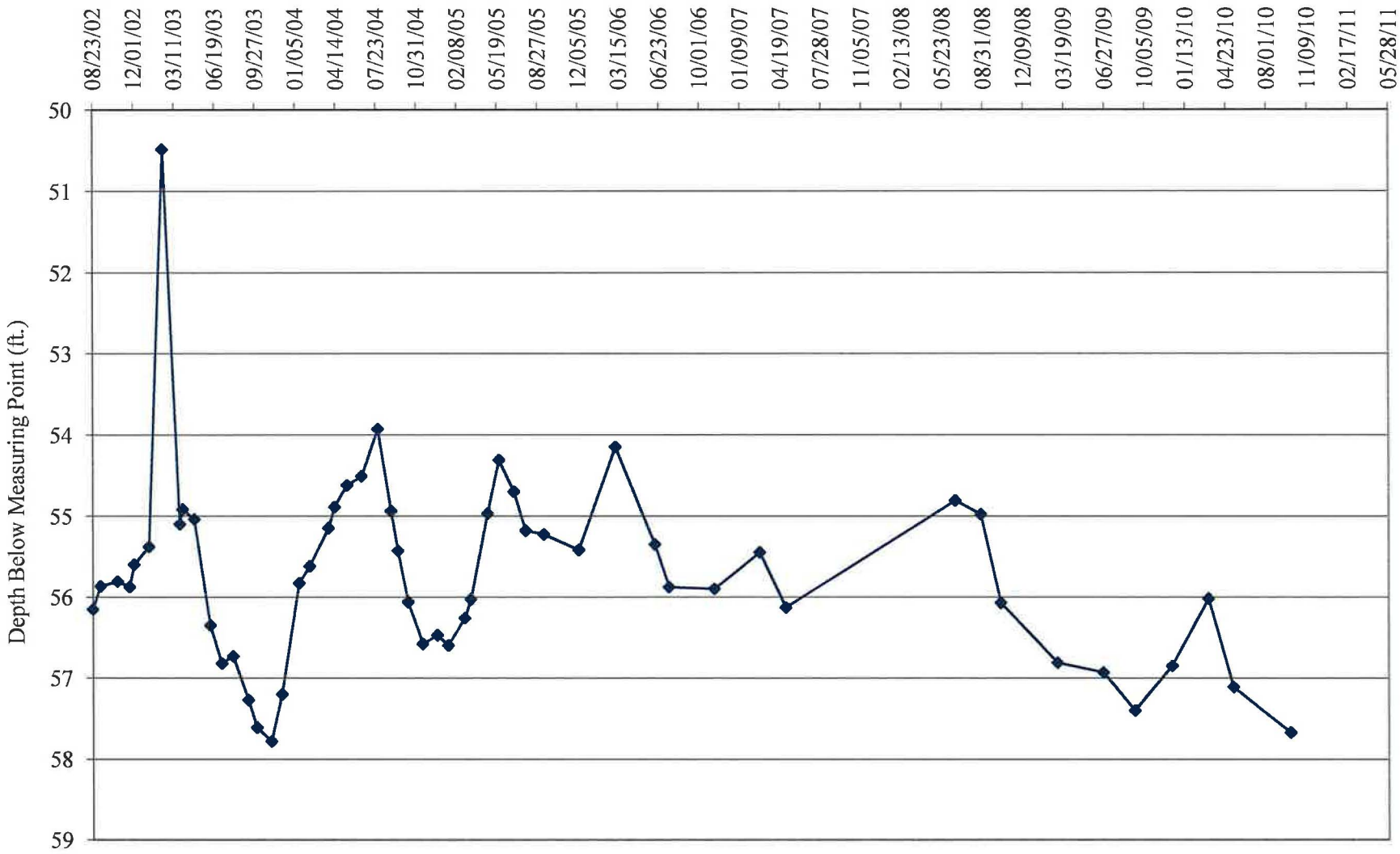
TW4-16 Water Depth Over Time (ft. blmp)



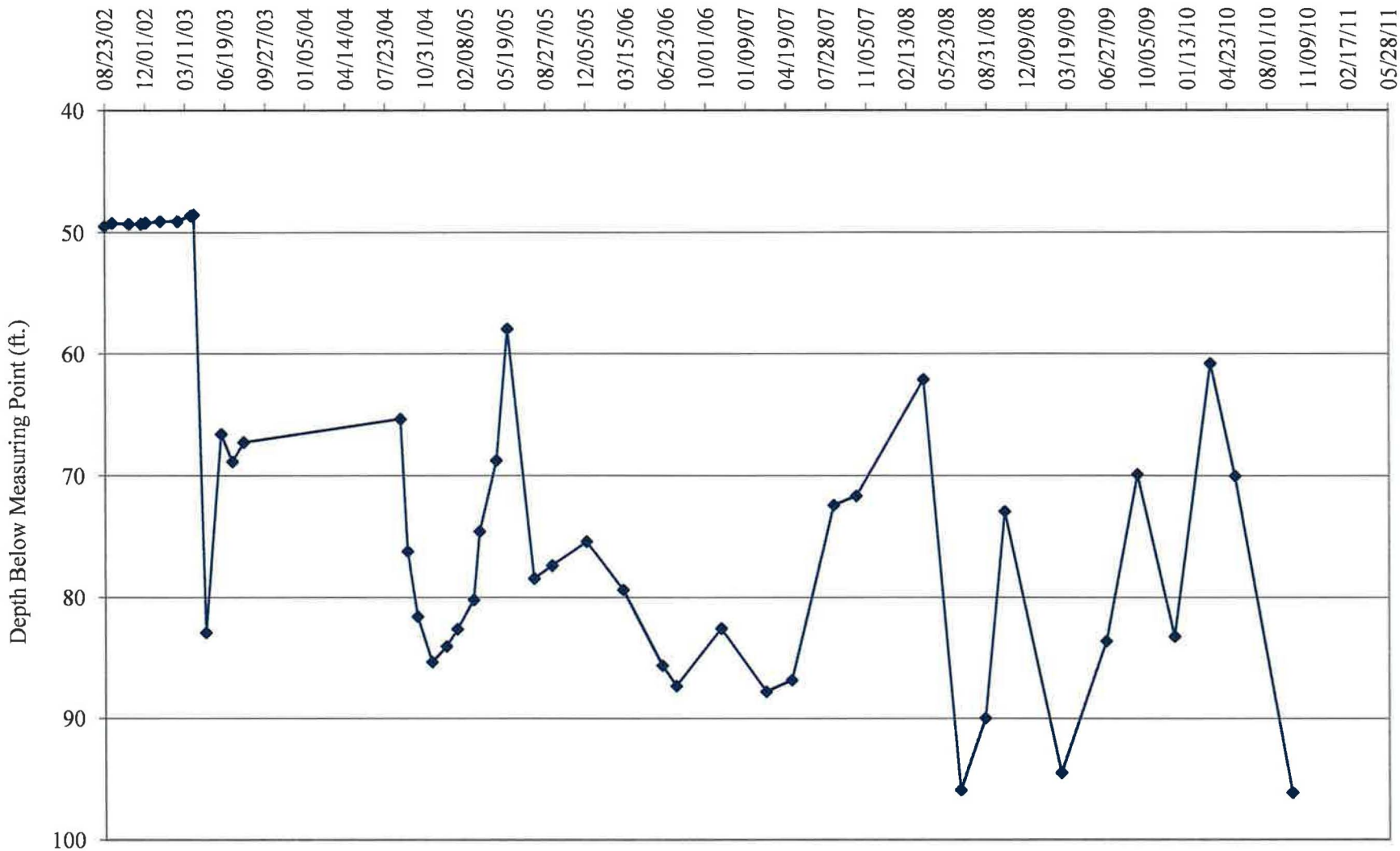
TW4-17 Water Depth Over Time (ft. blmp)

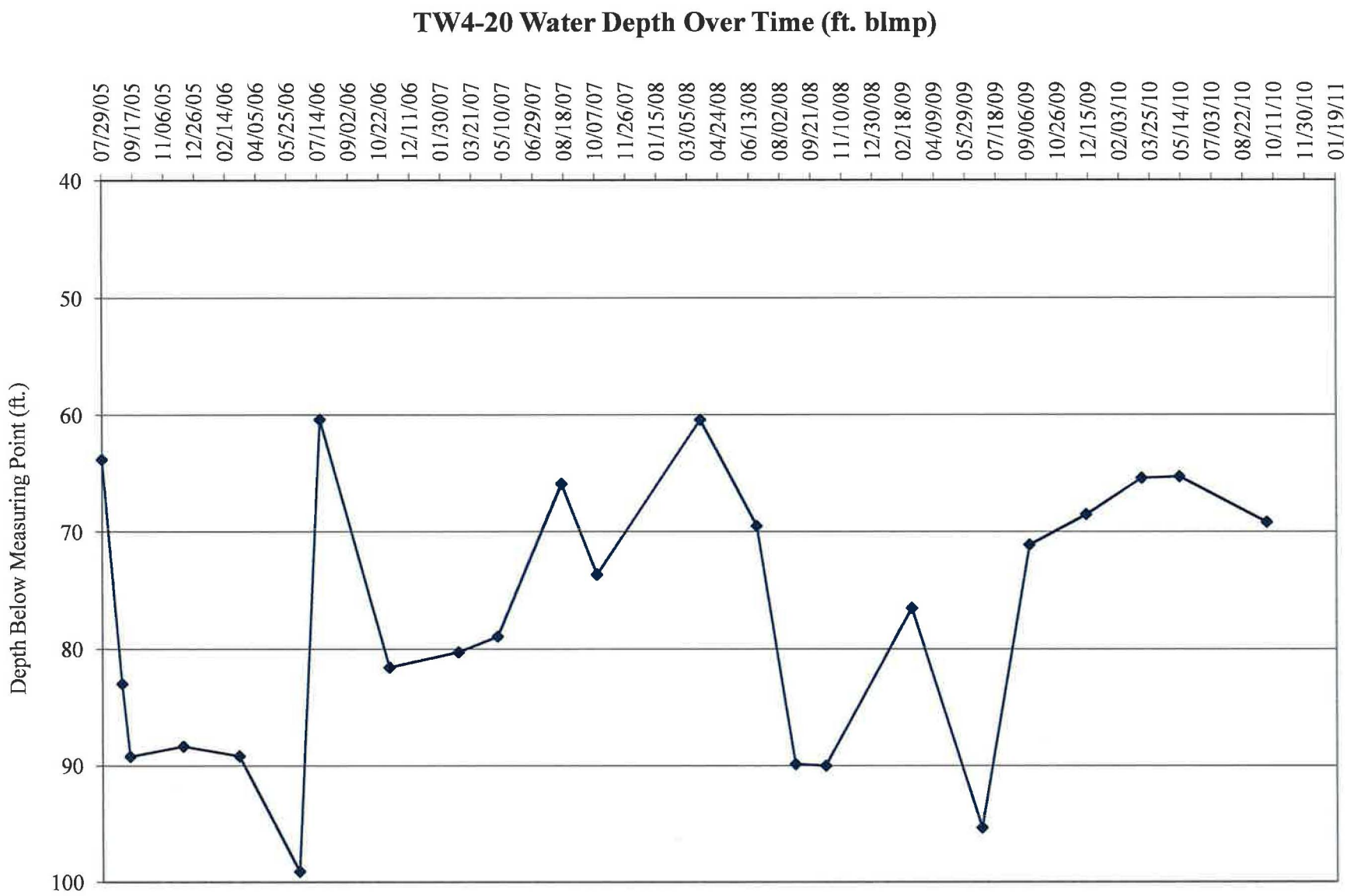


TW4-18 Water Depth Over Time (ft. blmp)

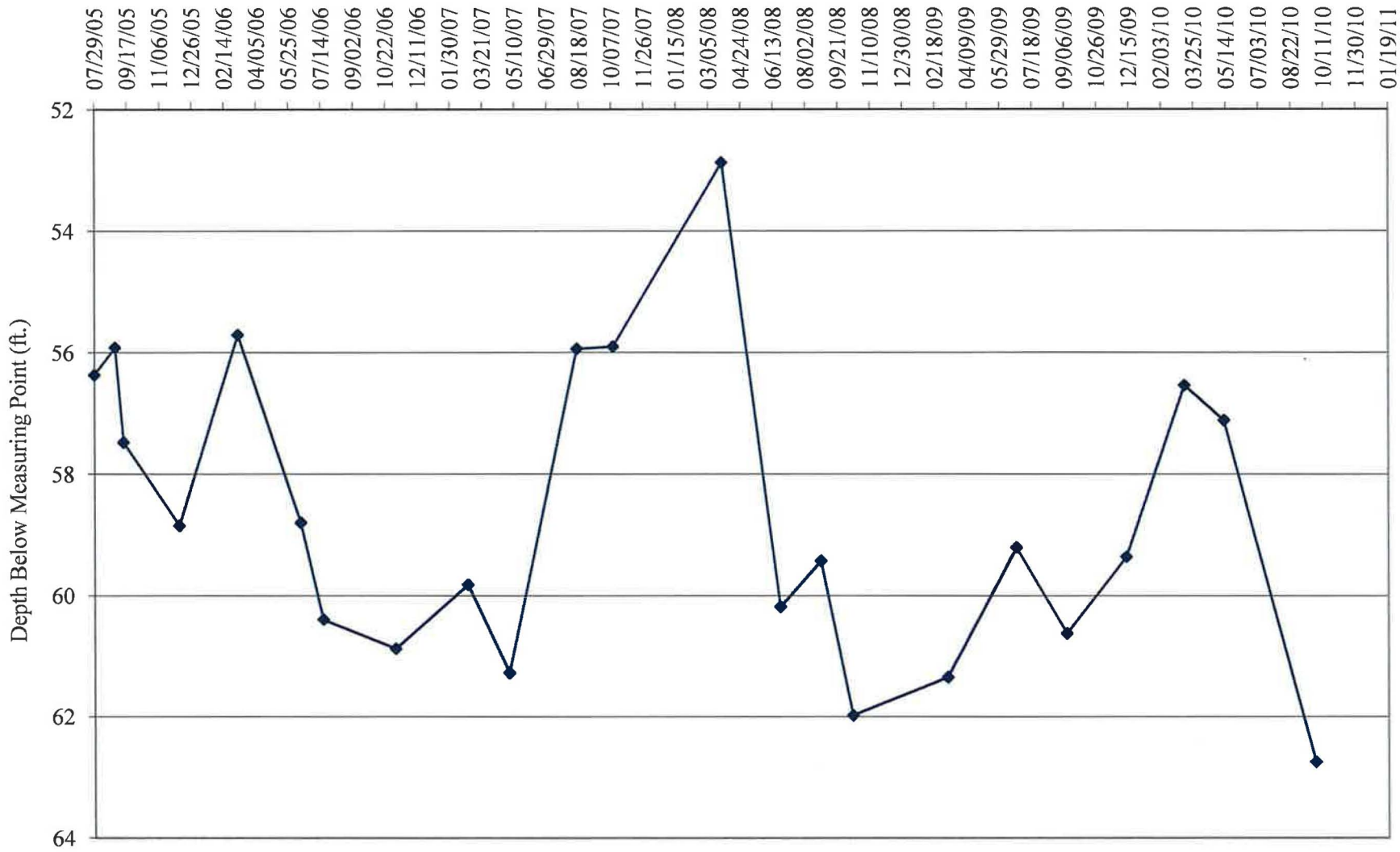


TW4-19 Water Depth Over Time (ft. blmp)

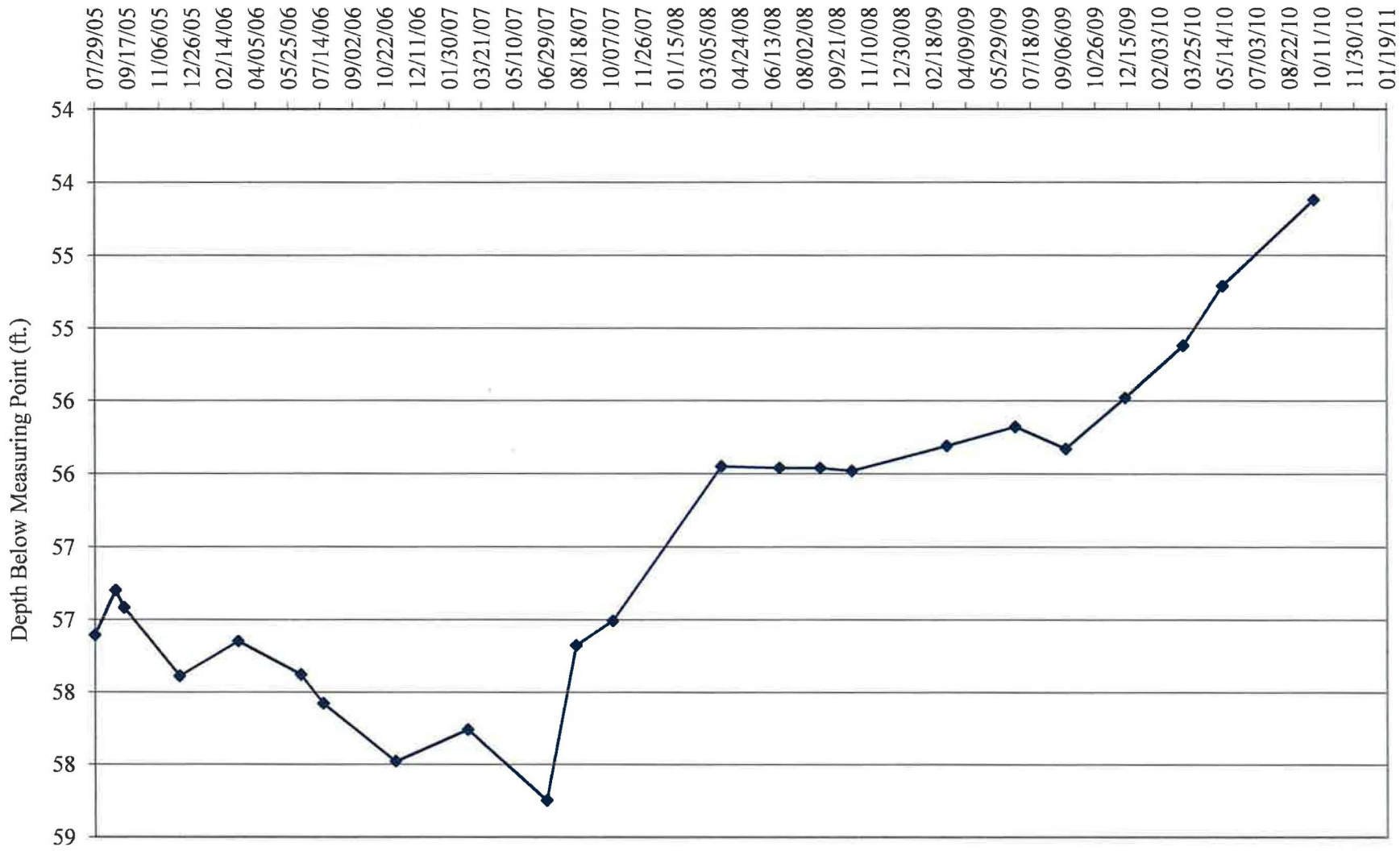



TW4-20 Water Depth Over Time (ft. blmp)
Depth Below Measuring Point (ft.)
40
50
60
70
80
90
100
07/29/05
09/17/05
11/06/05
12/26/05
02/14/06
04/05/06
05/25/06
07/14/06
09/02/06
10/22/06
12/11/06
01/30/07
03/21/07
05/10/07
06/29/07
08/18/07
10/07/07
11/26/07
01/15/08
03/05/08
04/24/08
06/13/08
08/02/08
09/21/08
11/10/08
12/30/08
02/18/09
04/09/09
05/29/09
07/18/09
09/06/09
10/26/09
12/15/09
02/03/10
03/25/10
05/14/10
07/03/10
08/22/10
10/11/10
11/30/10
01/19/11

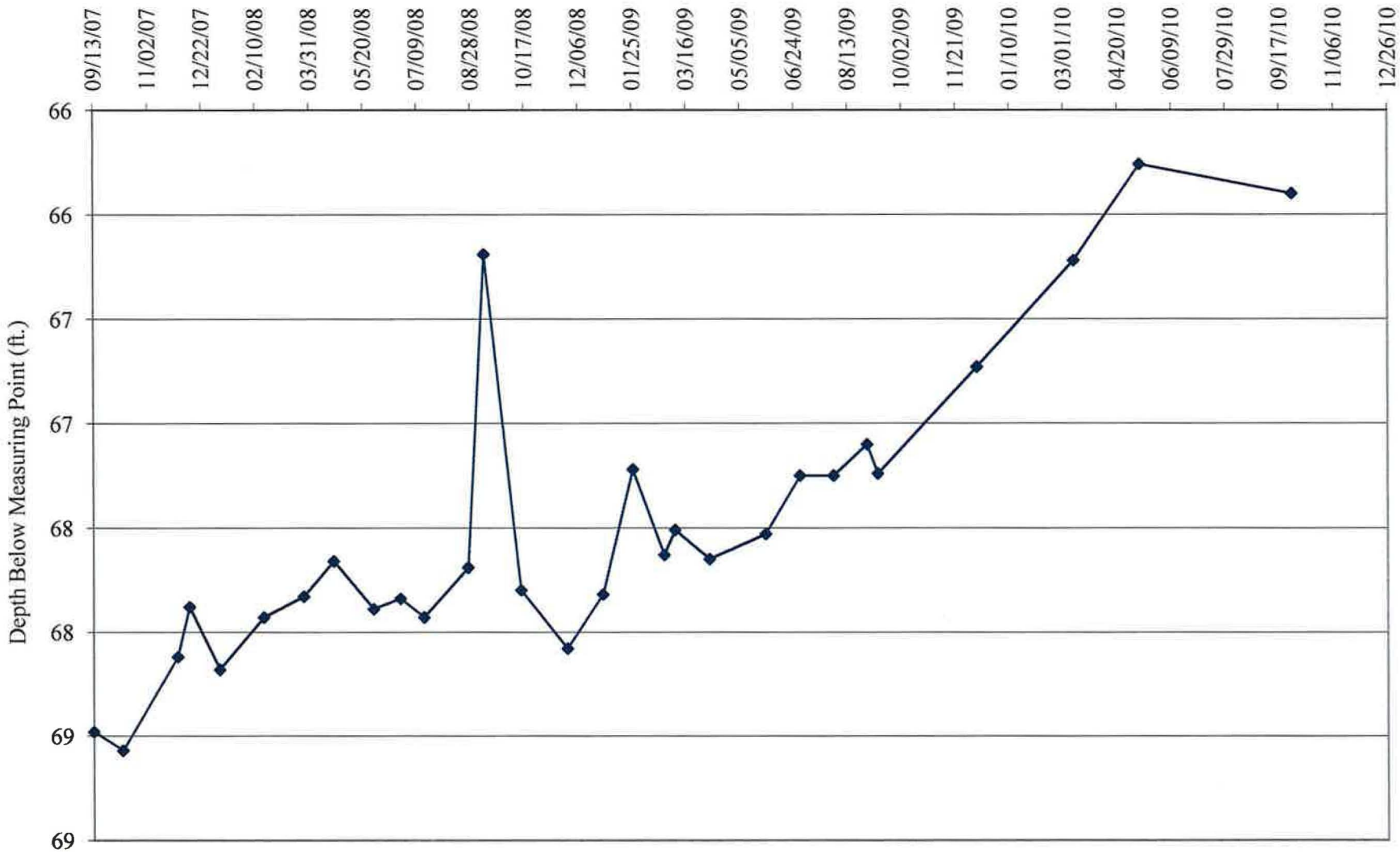
TW4-21 Water Depth Over Time (ft. blmp)

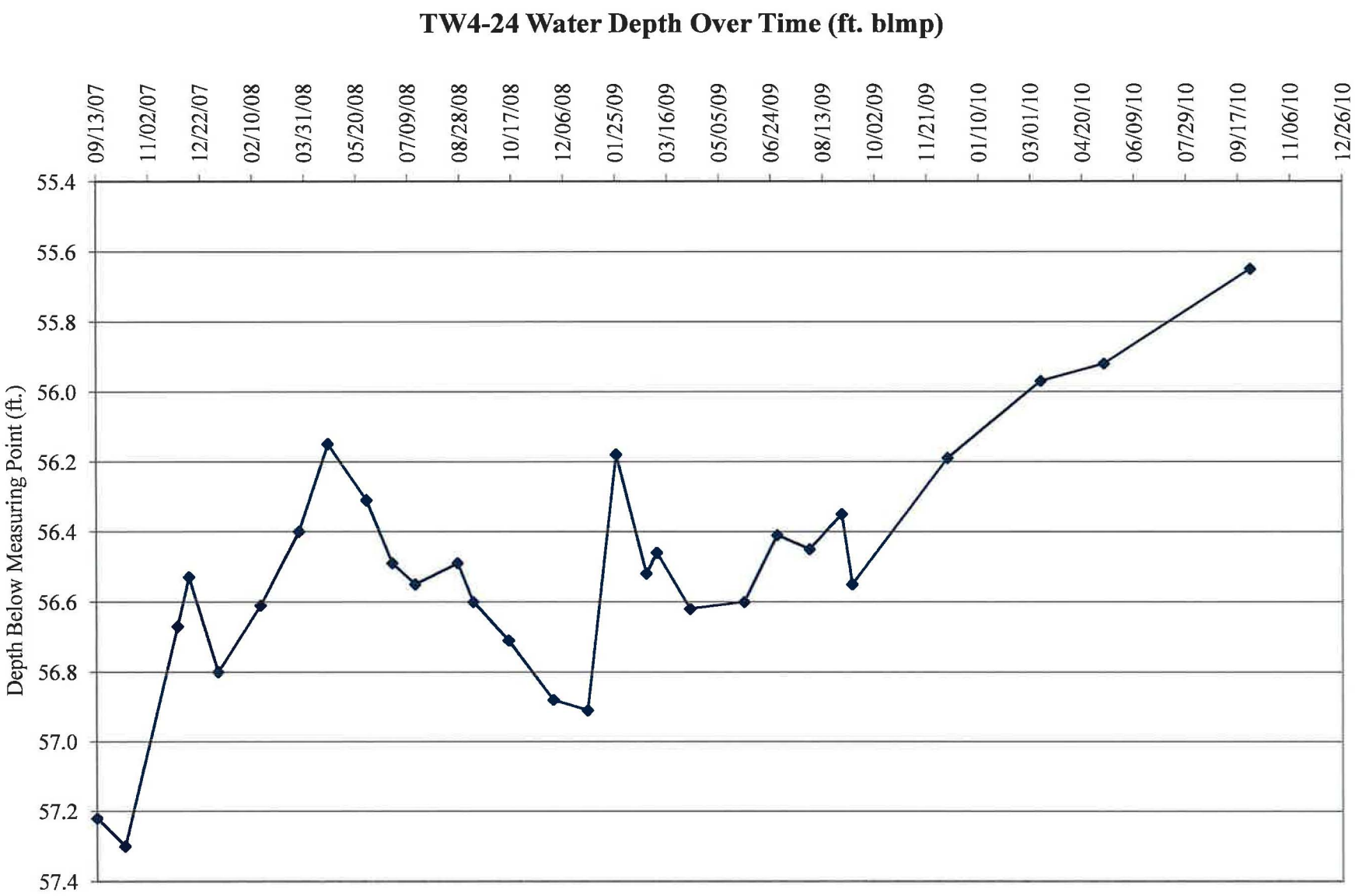


TW4-22 Water Depth Over Time (ft. blmp)

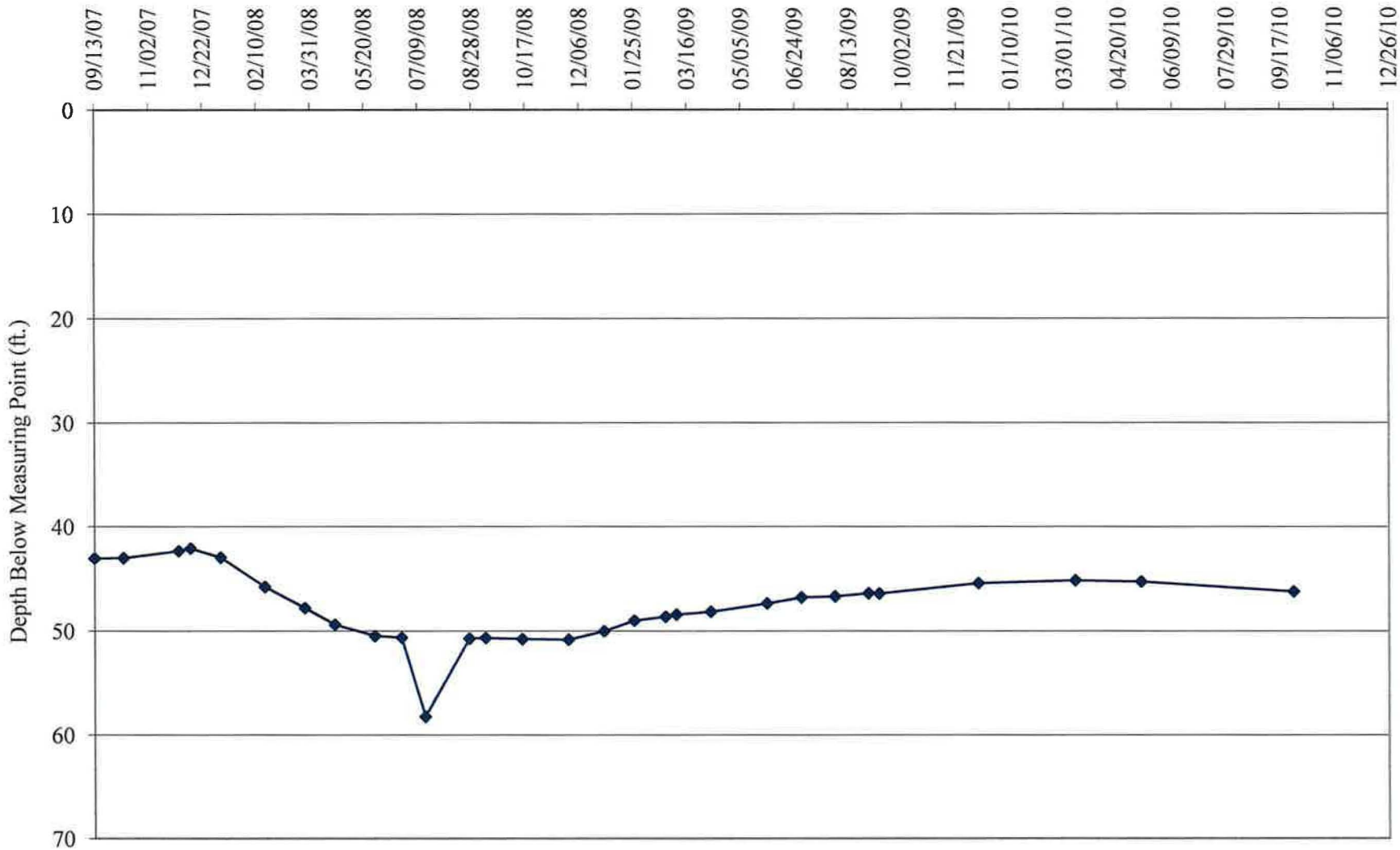


TW4-23 Water Depth Over Time (ft. blmp)

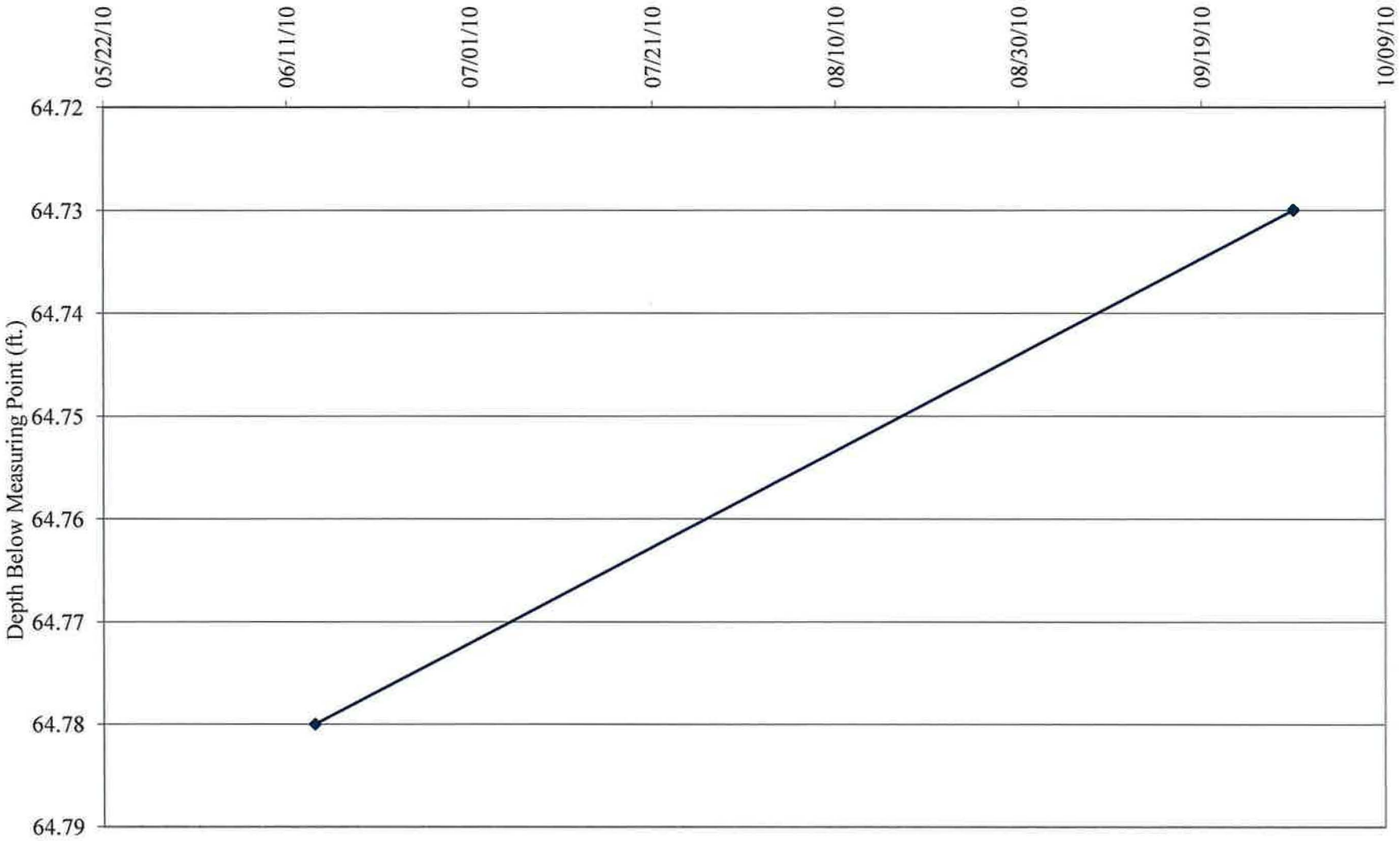



TW4-24 Water Depth Over Time (ft. blmp)
Depth Below Measuring Point (ft.)
55.4
55.6
55.8
56.0
56.2
56.4
56.6
56.8
57.0
57.2
57.4
09/13/07
11/02/07
12/22/07
02/10/08
03/31/08
05/20/08
07/09/08
08/28/08
10/17/08
12/06/08
01/25/09
03/16/09
05/05/09
06/24/09
08/13/09
10/02/09
11/21/09
01/10/10
03/01/10
04/20/10
06/09/10
07/29/10
09/17/10
11/06/10
12/26/10

TW4-25 Water Depth Over Time (ft. blmp)



TW4-26 Water Depth Over Time (ft. blmp)



Tab G

Depths to Groundwater and Elevations Over Time for Chloroform Monitoring Wells

Water Levels and Data over Time
White Mesa Mill - Well MW4

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,620.77	5,622.33	1.56				123.6
5,527.63				09/25/79	94.70	93.14	
5,527.63				10/10/79	94.70	93.14	
5,528.43				01/10/80	93.90	92.34	
5,529.93				03/20/80	92.40	90.84	
5,528.03				06/17/80	94.30	92.74	
5,528.03				09/15/80	94.30	92.74	
5,527.93				10/08/80	94.40	92.84	
5,527.93				02/12/81	94.40	92.84	
5,525.93				09/01/84	96.40	94.84	
5,528.33				12/01/84	94.00	92.44	
5,528.13				02/01/85	94.20	92.64	
5,528.33				06/01/85	94.00	92.44	
5,528.93				09/01/85	93.40	91.84	
5,528.93				10/01/85	93.40	91.84	
5,528.93				11/01/85	93.40	91.84	
5,528.83				12/01/85	93.50	91.94	
5,512.33				03/01/86	110.00	108.44	
5,528.91				06/19/86	93.42	91.86	
5,528.83				09/01/86	93.50	91.94	
5,529.16				12/01/86	93.17	91.61	
5,526.66				02/20/87	95.67	94.11	
5,529.16				04/28/87	93.17	91.61	
5,529.08				08/14/87	93.25	91.69	
5,529.00				11/20/87	93.33	91.77	
5,528.75				01/26/88	93.58	92.02	
5,528.91				06/01/88	93.42	91.86	
5,528.25				08/23/88	94.08	92.52	
5,529.00				11/02/88	93.33	91.77	
5,528.33				03/09/89	94.00	92.44	
5,529.10				06/21/89	93.23	91.67	
5,529.06				09/01/89	93.27	91.71	
5,529.21				11/15/89	93.12	91.56	
5,529.22				02/16/90	93.11	91.55	
5,529.43				05/08/90	92.90	91.34	
5,529.40				08/07/90	92.93	91.37	
5,529.53				11/13/90	92.80	91.24	
5,529.86				02/27/91	92.47	90.91	
5,529.91				05/21/91	92.42	90.86	
5,529.77				08/27/91	92.56	91.00	
5,529.79				12/03/91	92.54	90.98	
5,530.13				03/17/92	92.20	90.64	
5,529.85				06/11/92	92.48	90.92	
5,529.90				09/13/92	92.43	90.87	

Water Levels and Data over Time
White Mesa Mill - Well MW4

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,620.77	5,622.33	1.56				123.6
5,529.92				12/09/92	92.41	90.85	
5,530.25				03/24/93	92.08	90.52	
5,530.20				06/08/93	92.13	90.57	
5,530.19				09/22/93	92.14	90.58	
5,529.75				12/14/93	92.58	91.02	
5,530.98				03/24/94	91.35	89.79	
5,531.35				06/15/94	90.98	89.42	
5,531.62				08/18/94	90.71	89.15	
5,532.58				12/13/94	89.75	88.19	
5,533.42				03/16/95	88.91	87.35	
5,534.70				06/27/95	87.63	86.07	
5,535.44				09/20/95	86.89	85.33	
5,537.16				12/11/95	85.17	83.61	
5,538.37				03/28/96	83.96	82.40	
5,539.10				06/07/96	83.23	81.67	
5,539.13				09/16/96	83.20	81.64	
5,542.29				03/20/97	80.04	78.48	
5,551.58				04/07/99	70.75	69.19	
5,552.08				05/11/99	70.25	68.69	
5,552.83				07/06/99	69.50	67.94	
5,553.47				09/28/99	68.86	67.30	
5,554.63				01/03/00	67.70	66.14	
5,555.13				04/04/00	67.20	65.64	
5,555.73				05/02/00	66.60	65.04	
5,556.03				05/11/00	66.30	64.74	
5,555.73				05/15/00	66.60	65.04	
5,555.98				05/25/00	66.35	64.79	
5,556.05				06/09/00	66.28	64.72	
5,556.18				06/16/00	66.15	64.59	
5,556.05				06/26/00	66.28	64.72	
5,556.15				07/06/00	66.18	64.62	
5,556.18				07/13/00	66.15	64.59	
5,556.17				07/18/00	66.16	64.60	
5,556.26				07/25/00	66.07	64.51	
5,556.35				08/02/00	65.98	64.42	
5,556.38				08/09/00	65.95	64.39	
5,556.39				08/15/00	65.94	64.38	
5,556.57				08/31/00	65.76	64.20	
5,556.68				09/08/00	65.65	64.09	
5,556.73				09/13/00	65.60	64.04	
5,556.82				09/20/00	65.51	63.95	
5,556.84				09/29/00	65.49	63.93	
5,556.81				10/05/00	65.52	63.96	

Water Levels and Data over Time
White Mesa Mill - Well MW4

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,620.77	5,622.33	1.56				123.6
5,556.89				10/12/00	65.44	63.88	
5,556.98				10/19/00	65.35	63.79	
5,557.01				10/23/00	65.32	63.76	
5,557.14				11/09/00	65.19	63.63	
5,557.17				11/14/00	65.16	63.60	
5,556.95				11/21/00	65.38	63.82	
5,557.08				11/30/00	65.25	63.69	
5,557.55				12/07/00	64.78	63.22	
5,557.66				01/14/01	64.67	63.11	
5,557.78				02/09/01	64.55	62.99	
5,558.28				03/29/01	64.05	62.49	
5,558.23				04/30/01	64.10	62.54	
5,558.31				05/31/01	64.02	62.46	
5,558.49				06/22/01	63.84	62.28	
5,558.66				07/10/01	63.67	62.11	
5,559.01				08/20/01	63.32	61.76	
5,559.24				09/19/01	63.09	61.53	
5,559.26				10/02/01	63.07	61.51	
5,559.27				11/08/01	63.06	61.50	
5,559.77				12/03/01	62.56	61.00	
5,559.78				01/03/02	62.55	60.99	
5,559.96				02/06/02	62.37	60.81	
5,560.16				03/26/02	62.17	60.61	
5,560.28				04/09/02	62.05	60.49	
5,560.76				05/23/02	61.57	60.01	
5,560.58				06/05/02	61.75	60.19	
5,560.43				07/08/02	61.90	60.34	
5,560.44				08/23/02	61.89	60.33	
5,560.71				09/11/02	61.62	60.06	
5,560.89				10/23/02	61.44	59.88	
5,557.86				11/22/02	64.47	62.91	
5,561.10				12/03/02	61.23	59.67	
5,561.39				01/09/03	60.94	59.38	
5,561.41				02/12/03	60.92	59.36	
5,561.93				03/26/03	60.40	58.84	
5,561.85				04/02/03	60.48	58.92	
5,536.62				05/01/03	85.71	84.15	
5,528.56				06/09/03	93.77	92.21	
5,535.28				07/07/03	87.05	85.49	
5,534.44				08/04/03	87.89	86.33	
5,537.10				09/11/03	85.23	83.67	
5,539.96				10/02/03	82.37	80.81	
5,535.91				11/07/03	86.42	84.86	

Water Levels and Data over Time
White Mesa Mill - Well MW4

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,620.77	5,622.33	1.56				123.6
5,550.70				12/03/03	71.63	70.07	
5,557.58				01/15/04	64.75	63.19	
5,558.80				02/10/04	63.53	61.97	
5,560.08				03/28/04	62.25	60.69	
5,560.55				04/12/04	61.78	60.22	
5,561.06				05/13/04	61.27	59.71	
5,561.48				06/18/04	60.85	59.29	
5,561.86				07/28/04	60.47	58.91	
5,529.17				08/30/04	93.16	91.60	
5,536.55				09/16/04	85.78	84.22	
5,529.00				10/11/04	93.33	91.77	
5,541.55				11/16/04	80.78	79.22	
5,541.12				12/22/04	81.21	79.65	
5,540.59				01/18/05	81.74	80.18	
5,542.85				02/28/05	79.48	77.92	
5,537.91				03/15/05	84.42	82.86	
5,548.67				04/26/05	73.66	72.10	
5,549.53				05/24/05	72.80	71.24	
5,544.36				06/30/05	77.97	76.41	
5,545.16				07/29/05	77.17	75.61	
5,544.67				09/12/05	77.66	76.10	
5,541.28				09/27/05	81.05	79.49	
5,536.96				12/07/05	85.37	83.81	
5,546.49				03/08/06	75.84	74.28	
5,546.15				06/13/06	76.18	74.62	
5,545.15				07/18/06	77.18	75.62	
5,545.91				11/17/06	76.42	74.86	
5,545.90				02/27/07	76.43	74.87	
5,548.16				05/02/07	74.17	72.61	
5,547.20				08/13/07	75.13	73.57	
5,547.20				10/10/07	75.13	73.57	
5,547.79				03/26/08	74.54	72.98	
5,545.09				06/25/08	77.24	75.68	
5,550.36				08/26/08	71.97	70.41	
5,550.39				10/14/08	71.94	70.38	
5,542.25				03/03/09	80.08	78.52	
5,542.25				06/24/09	80.08	78.52	
5,550.19				09/10/09	72.14	70.58	
5,550.94				12/11/09	71.39	69.83	
5,546.08				03/11/10	76.25	74.69	
5,550.98				05/11/10	71.35	69.79	
5,548.33				09/29/10	74.00	72.44	

Water Levels and Data over Time
White Mesa Mill - Well MW-4A

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,620.51	5,622.31	1.80				121.33
5,560.53				8/23/02	61.78	59.98	
5,560.76				9/11/02	61.55	59.75	
5,560.96				10/23/02	61.35	59.55	
5,561.00				11/22/02	61.31	59.51	
5,561.19				12/3/02	61.12	59.32	
5,561.46				1/9/03	60.85	59.05	
5,561.48				2/12/03	60.83	59.03	
5,561.96				3/26/03	60.35	58.55	
5,561.94				4/2/03	60.37	58.57	
5,536.88				5/1/03	85.43	83.63	
5,529.35				6/9/03	92.96	91.16	
5,535.54				7/7/03	86.77	84.97	
5,534.74				8/4/03	87.57	85.77	
5,536.74				9/11/03	85.57	83.77	
5,540.24				10/2/03	82.07	80.27	
5,536.13				11/7/03	86.18	84.38	
5,550.77				12/3/03	71.54	69.74	
5,557.67				1/15/04	64.64	62.84	
5,558.87				2/10/04	63.44	61.64	
5,560.16				3/28/04	62.15	60.35	
5,560.63				4/12/04	61.68	59.88	
5,561.14				5/13/04	61.17	59.37	
5,561.56				6/18/04	60.75	58.95	
5,561.95				7/28/04	60.36	58.56	
5,529.25				8/30/04	93.06	91.26	
5,536.63				9/16/04	85.68	83.88	
5,529.08				10/11/04	93.23	91.43	
5,541.63				11/16/04	80.68	78.88	
5,541.20				12/22/04	81.11	79.31	
5,540.67				1/18/05	81.64	79.84	
5,543.45				2/28/05	78.86	77.06	
5,537.99				3/15/05	84.32	82.52	
5,549.27				4/26/05	73.04	71.24	
5,545.08				5/24/05	77.23	75.43	
5,544.94				6/30/05	77.37	75.57	
5,544.71				7/29/05	77.60	75.80	
5,545.23				9/12/05	77.08	75.28	
5,545.00				9/27/05	77.31	75.51	
5,537.45				12/7/05	84.86	83.06	
5,546.86				3/8/06	75.45	73.65	
5,546.66				6/13/06	75.65	73.85	
5,545.63				7/18/06	76.68	74.88	
5,546.18				11/7/06	76.13	74.33	

Water Levels and Data over Time
White Mesa Mill - Well MW-4A

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,620.51	5,622.31	1.80				121.33
5,545.30				2/27/07	77.01	75.21	

Water Levels and Data over Time
White Mesa Mill - Well TW4-1

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
z	5,620.77	5,622.33	1.02				111.04
5,540.98				11/08/99	81.35	80.33	
5,541.13				11/09/99	81.20	80.18	
5,541.23				01/02/00	81.10	80.08	
5,541.23				01/10/00	81.10	80.08	
5,540.98				01/17/00	81.35	80.33	
5,541.03				01/24/00	81.30	80.28	
5,541.03				02/01/00	81.30	80.28	
5,540.93				02/07/00	81.40	80.38	
5,541.23				02/14/00	81.10	80.08	
5,541.23				02/23/00	81.10	80.08	
5,541.33				03/01/00	81.00	79.98	
5,541.43				03/08/00	80.90	79.88	
5,541.73				03/15/00	80.60	79.58	
5,541.43				03/20/00	80.90	79.88	
5,541.43				03/29/00	80.90	79.88	
5,541.18				04/04/00	81.15	80.13	
5,540.93				04/13/00	81.40	80.38	
5,541.23				04/21/00	81.10	80.08	
5,541.43				04/28/00	80.90	79.88	
5,541.33				05/01/00	81.00	79.98	
5,541.63				05/11/00	80.70	79.68	
5,541.33				05/15/00	81.00	79.98	
5,541.63				05/25/00	80.70	79.68	
5,541.63				06/09/00	80.70	79.68	
5,541.65				06/16/00	80.68	79.66	
5,541.63				06/26/00	80.70	79.68	
5,541.85				07/06/00	80.48	79.46	
5,541.79				07/13/00	80.54	79.52	
5,541.91				07/18/00	80.42	79.40	
5,542.17				07/27/00	80.16	79.14	
5,542.31				08/02/00	80.02	79.00	
5,542.43				08/09/00	79.90	78.88	
5,542.41				08/15/00	79.92	78.90	
5,542.08				08/31/00	80.25	79.23	
5,542.93				09/01/00	79.40	78.38	
5,542.87				09/08/00	79.46	78.44	
5,543.09				09/13/00	79.24	78.22	
5,543.25				09/20/00	79.08	78.06	
5,543.44				10/05/00	78.89	77.87	
5,544.08				11/09/00	78.25	77.23	
5,544.49				12/06/00	77.84	76.82	
5,546.14				01/14/01	76.19	75.17	
5,547.44				02/02/01	74.89	73.87	

Water Levels and Data over Time
White Mesa Mill - Well TW4-1

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
z	5,620.77	5,622.33	1.02				111.04
5,548.71				03/29/01	73.62	72.60	
5,549.20				04/30/01	73.13	72.11	
5,549.64				05/31/01	72.69	71.67	
5,549.94				06/22/01	72.39	71.37	
5,550.25				07/10/01	72.08	71.06	
5,550.93				08/10/01	71.40	70.38	
5,551.34				09/19/01	70.99	69.97	
5,551.59				10/02/01	70.74	69.72	
5,549.64				05/31/01	72.69	71.67	
5,549.94				06/21/01	72.39	71.37	
5,550.25				07/10/01	72.08	71.06	
5,550.93				08/20/01	71.40	70.38	
5,551.34				09/19/01	70.99	69.97	
5,551.59				10/02/01	70.74	69.72	
5,551.87				11/08/01	70.46	69.44	
5,552.40				12/03/01	69.93	68.91	
5,552.62				01/03/02	69.71	68.69	
5,553.12				02/06/02	69.21	68.19	
5,553.75				03/26/02	68.58	67.56	
5,553.97				04/09/02	68.36	67.34	
5,554.56				05/23/02	67.77	66.75	
5,554.54				06/05/02	67.79	66.77	
5,554.83				07/08/02	67.50	66.48	
5,555.29				08/23/02	67.04	66.02	
5,555.54				09/11/02	66.79	65.77	
5,555.94				10/23/02	66.39	65.37	
5,556.02				11/22/02	66.31	65.29	
5,556.23				12/03/02	66.10	65.08	
5,556.49				01/09/03	65.84	64.82	
5,556.67				02/12/03	65.66	64.64	
5,557.15				03/26/03	65.18	64.16	
5,557.23				04/02/03	65.10	64.08	
5,556.07				05/01/03	66.26	65.24	
5,554.28				06/09/03	68.05	67.03	
5,553.84				07/07/03	68.49	67.47	
5,553.39				08/04/03	68.94	67.92	
5,553.06				09/11/03	69.27	68.25	
5,553.33				10/02/03	69.00	67.98	
5,553.25				11/07/03	69.08	68.06	
5,553.82				12/03/03	68.51	67.49	
5,555.61				01/15/04	66.72	65.70	
5,556.32				02/10/04	66.01	64.99	
5,557.38				03/28/04	64.95	63.93	

Water Levels and Data over Time
White Mesa Mill - Well TW4-1

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
z	5,620.77	5,622.33	1.02				111.04
5,557.79				04/12/04	64.54	63.52	
5,558.35				05/13/04	63.98	62.96	
5,560.03				06/18/04	62.30	61.28	
5,560.36				07/28/04	61.97	60.95	
5,557.96				08/30/04	64.37	63.35	
5,557.24				09/16/04	65.09	64.07	
5,556.28				10/11/04	66.05	65.03	
5,556.17				11/16/04	66.16	65.14	
5,556.21				12/22/04	66.12	65.10	
5,555.82				01/18/05	66.51	65.49	
5,555.96				02/28/05	66.37	65.35	
5,556.01				03/15/05	66.32	65.30	
5,556.05				04/26/05	66.28	65.26	
5,556.00				05/24/05	66.33	65.31	
5,555.97				06/30/05	66.36	65.34	
5,555.90				07/29/05	66.43	65.41	
5,556.22				09/12/05	66.11	65.09	
5,556.25				12/07/05	66.08	65.06	
5,556.71				03/08/06	65.62	64.60	
5,556.98				06/14/06	65.35	64.33	
5,560.95				07/18/06	61.38	60.36	
5,557.07				11/07/06	65.26	64.24	
5,558.10				02/27/07	64.23	63.21	
5,557.82				05/02/07	64.51	63.49	
5,557.82				08/14/07	64.51	63.49	
5,557.63				10/10/07	64.70	63.68	
5,559.48				03/26/08	62.85	61.83	
5,560.35				06/24/08	61.98	60.96	
5,560.58				08/26/08	61.75	60.73	
5,560.62				10/14/08	61.71	60.69	
5,560.65				03/10/09	61.68	60.66	
5,560.66				06/24/09	61.67	60.65	
5,560.36				09/10/09	61.97	60.95	
5,560.53				12/11/09	61.8	60.78	
5,560.50				03/11/10	61.83	60.81	
5,559.94				05/11/10	62.39	61.37	
5,559.01				09/29/10	63.32	62.30	

Water Levels and Data over Time
White Mesa Mill - Well TW4-2

Water Elevation (z)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,623.10	5,625.00	1.90				121.125
5,548.85				11/08/99	76.15	74.25	
5,548.85				11/09/99	76.15	74.25	
5,548.60				01/02/00	76.40	74.50	
5,548.80				01/10/00	76.20	74.30	
5,548.60				01/17/00	76.40	74.50	
5,549.00				01/24/00	76.00	74.10	
5,548.90				02/01/00	76.10	74.20	
5,548.90				02/07/00	76.10	74.20	
5,549.30				02/14/00	75.70	73.80	
5,549.40				02/23/00	75.60	73.70	
5,549.50				03/01/00	75.50	73.60	
5,549.60				03/08/00	75.40	73.50	
5,549.50				03/15/00	75.50	73.60	
5,550.20				03/20/00	74.80	72.90	
5,550.00				03/29/00	75.00	73.10	
5,549.70				04/04/00	75.30	73.40	
5,549.80				04/13/00	75.20	73.30	
5,550.00				04/21/00	75.00	73.10	
5,550.10				04/28/00	74.90	73.00	
5,550.10				05/01/00	74.90	73.00	
5,550.40				05/11/00	74.60	72.70	
5,550.10				05/15/00	74.90	73.00	
5,550.40				05/25/00	74.60	72.70	
5,550.40				06/09/00	74.60	72.70	
5,550.50				06/16/00	74.50	72.60	
5,550.35				06/26/00	74.65	72.75	
5,550.45				07/06/00	74.55	72.65	
5,550.45				07/13/00	74.55	72.65	
5,550.46				07/18/00	74.54	72.64	
5,550.61				07/27/00	74.39	72.49	
5,550.66				08/02/00	74.34	72.44	
5,550.68				08/09/00	74.32	72.42	
5,550.70				08/15/00	74.30	72.40	
5,550.82				08/31/00	74.18	72.28	
5,551.15				09/08/00	73.85	71.95	
5,551.25				09/13/00	73.75	71.85	
5,551.32				09/20/00	73.68	71.78	
5,546.11				10/05/00	78.89	76.99	
5,546.75				11/09/00	78.25	76.35	
5,547.16				12/06/00	77.84	75.94	
5,552.46				01/26/01	72.54	70.64	
5,552.48				02/02/01	72.52	70.62	
5,551.38				03/29/01	73.62	71.72	

Water Levels and Data over Time
White Mesa Mill - Well TW4-2

Water Elevation (z)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,623.10	5,625.00	1.90				121.125
5,551.87				04/30/01	73.13	71.23	
5,552.31				05/31/01	72.69	70.79	
5,552.61				06/21/01	72.39	70.49	
5,552.92				07/10/01	72.08	70.18	
5,553.60				08/20/01	71.40	69.50	
5,554.01				09/19/01	70.99	69.09	
5,554.26				10/02/01	70.74	68.84	
5,554.42				11/08/01	70.58	68.68	
5,555.07				12/03/01	69.93	68.03	
5,555.02				01/03/02	69.98	68.08	
5,555.19				02/06/02	69.81	67.91	
5,555.43				03/26/02	69.57	67.67	
5,555.67				04/09/02	69.33	67.43	
5,556.01				05/23/02	68.99	67.09	
5,556.07				06/05/02	68.93	67.03	
5,556.19				07/08/02	68.81	66.91	
5,556.32				08/23/02	68.68	66.78	
5,556.53				09/11/02	68.47	66.57	
5,557.00				10/23/02	68.00	66.10	
5,556.70				11/22/02	68.30	66.40	
5,557.29				12/03/02	67.71	65.81	
5,557.48				01/09/03	67.52	65.62	
5,557.63				02/12/03	67.37	65.47	
5,558.11				03/26/03	66.89	64.99	
5,558.15				04/02/03	66.85	64.95	
5,553.99				05/01/03	71.01	69.11	
5,549.26				06/09/03	75.74	73.84	
5,548.42				07/07/03	76.58	74.68	
5,548.03				08/04/03	76.97	75.07	
5,547.50				09/11/03	77.50	75.60	
5,547.96				10/02/03	77.04	75.14	
5,547.80				11/07/03	77.20	75.30	
5,548.57				12/03/03	76.43	74.53	
5,554.28				01/15/04	70.72	68.82	
5,555.74				02/10/04	69.26	67.36	
5,557.18				03/28/04	67.82	65.92	
5,557.77				04/12/04	67.23	65.33	
5,558.35				05/13/04	66.65	64.75	
5,558.47				06/18/04	66.53	64.63	
5,559.28				07/28/04	65.72	63.82	
5,554.54				08/30/04	70.46	68.56	
5,552.25				09/16/04	72.75	70.85	
5,549.93				10/11/04	75.07	73.17	

Water Levels and Data over Time
White Mesa Mill - Well TW4-2

Water Elevation (z)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,623.10	5,625.00	1.90				121.125
5,550.17				11/16/04	74.83	72.93	
5,550.65				12/22/04	74.35	72.45	
5,550.23				01/18/05	74.77	72.87	
5,550.37				02/28/05	74.63	72.73	
5,550.41				03/15/05	74.59	72.69	
5,550.46				04/26/05	74.54	72.64	
5,550.60				05/24/05	74.40	72.50	
5,550.49				06/30/05	74.51	72.61	
5,550.39				07/29/05	74.61	72.71	
5,550.61				09/12/05	74.39	72.49	
5,550.57				12/07/05	74.43	72.53	
5,551.58				03/08/06	73.42	71.52	
5,551.70				06/14/06	73.3	71.40	
5,550.80				07/18/06	74.20	72.30	
5550.80				11/07/06	74.20	72.30	
5553.17				02/27/07	71.83	69.93	
5,552.34				05/02/07	72.66	70.76	
5,552.30				08/14/07	72.7	70.80	
5,552.48				10/10/07	72.52	70.62	
5,554.86				03/26/08	70.14	68.24	
5,555.51				06/24/08	69.49	67.59	
5,555.57				08/26/08	69.43	67.53	
5,555.71				10/14/08	69.29	67.39	
5,556.01				03/10/09	68.99	67.09	
5,556.53				06/24/09	68.47	66.57	
5,556.22				09/10/09	68.78	66.88	
5,556.81				12/11/09	68.19	66.29	
5,558.15				03/11/10	66.85	64.95	
5,557.91				05/11/10	67.09	65.19	
5,557.52				09/29/10	67.48	65.58	

Water Levels and Data over Time
White Mesa Mill - Well TW4-3

Water Elevation (z)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,631.21	5,632.23	1.02				141
5,565.78				11/29/99	66.45	65.43	
5,566.93				01/02/00	65.30	64.28	
5,567.03				01/10/00	65.20	64.18	
5,566.83				01/17/00	65.40	64.38	
5,567.13				01/24/00	65.10	64.08	
5,567.33				02/01/00	64.90	63.88	
5,567.13				02/07/00	65.10	64.08	
5,567.43				02/14/00	64.80	63.78	
5,567.63				02/23/00	64.60	63.58	
5,567.73				03/01/00	64.50	63.48	
5,567.83				03/08/00	64.40	63.38	
5,567.70				03/15/00	64.53	63.51	
5,568.03				03/20/00	64.20	63.18	
5,567.93				03/29/00	64.30	63.28	
5,567.63				04/04/00	64.60	63.58	
5,567.83				04/13/00	64.40	63.38	
5,568.03				04/21/00	64.20	63.18	
5,568.23				04/28/00	64.00	62.98	
5,568.13				05/01/00	64.10	63.08	
5,568.53				05/11/00	63.70	62.68	
5,568.23				05/15/00	64.00	62.98	
5,568.53				05/25/00	63.70	62.68	
5,568.61				06/09/00	63.62	62.60	
5,568.69				06/16/00	63.54	62.52	
5,568.45				06/26/00	63.78	62.76	
5,568.61				07/06/00	63.62	62.60	
5,568.61				07/06/00	63.62	62.60	
5,568.49				07/13/00	63.74	62.72	
5,568.55				07/18/00	63.68	62.66	
5,568.65				07/27/00	63.58	62.56	
5,568.73				08/02/00	63.50	62.48	
5,568.77				08/09/00	63.46	62.44	
5,568.76				08/16/00	63.47	62.45	
5,568.95				08/31/00	63.28	62.26	
5,568.49				09/08/00	63.74	62.72	
5,568.67				09/13/00	63.56	62.54	
5,568.96				09/20/00	63.27	62.25	
5,568.93				10/05/00	63.3	62.28	
5,569.34				11/09/00	62.89	61.87	
5,568.79				12/06/00	63.44	62.42	
5,569.11				01/03/01	63.12	62.10	
5,569.75				02/09/01	62.48	61.46	
5,570.34				03/28/01	61.89	60.87	

Water Levels and Data over Time
White Mesa Mill - Well TW4-3

Water Elevation (z)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,631.21	5,632.23	1.02				141
5,570.61				04/30/01	61.62	60.60	
5,570.70				05/31/01	61.53	60.51	
5,570.88				06/21/01	61.35	60.33	
5,571.02				07/10/01	61.21	60.19	
5,571.70				08/20/01	60.53	59.51	
5,572.12				09/19/01	60.11	59.09	
5,572.08				10/02/01	60.15	59.13	
5,570.70				05/31/01	61.53	60.51	
5,570.88				06/21/01	61.35	60.33	
5,571.02				07/10/01	61.21	60.19	
5,571.70				08/20/01	60.53	59.51	
5,572.12				09/19/01	60.11	59.09	
5,572.08				10/02/01	60.15	59.13	
5,572.78				11/08/01	59.45	58.43	
5,573.27				12/03/01	58.96	57.94	
5,573.47				01/03/02	58.76	57.74	
5,573.93				02/06/02	58.30	57.28	
5,574.75				03/26/02	57.48	56.46	
5,574.26				04/09/02	57.97	56.95	
5,575.39				05/23/02	56.84	55.82	
5,574.84				06/05/02	57.39	56.37	
5,575.33				07/08/02	56.90	55.88	
5,575.79				08/23/02	56.44	55.42	
5,576.08				09/11/02	56.15	55.13	
5,576.30				10/23/02	55.93	54.91	
5,576.35				11/22/02	55.88	54.86	
5,576.54				12/03/02	55.69	54.67	
5,576.96				01/09/03	55.27	54.25	
5,577.11				02/12/03	55.12	54.10	
5,577.61				03/26/03	54.62	53.60	
5,572.80				04/02/03	59.43	58.41	
5,577.89				05/01/03	54.34	53.32	
5,577.91				06/09/03	54.32	53.30	
5,577.53				07/07/03	54.70	53.68	
5,577.50				08/04/03	54.73	53.71	
5,577.71				09/11/03	54.52	53.50	
5,577.31				10/02/03	54.92	53.90	
5,577.33				11/07/03	54.90	53.88	
5,577.34				12/03/03	54.89	53.87	
5,578.24				01/15/04	53.99	52.97	
5,578.38				02/10/04	53.85	52.83	
5,578.69				03/28/04	53.54	52.52	
5,579.15				04/12/04	53.08	52.06	

Water Levels and Data over Time
White Mesa Mill - Well TW4-3

Water Elevation (z)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,631.21	5,632.23	1.02				141
5,579.47				05/13/04	52.76	51.74	
5,579.53				06/18/04	52.70	51.68	
5,580.17				07/28/04	52.06	51.04	
5,580.20				08/30/04	52.03	51.01	
5,580.26				09/16/04	51.97	50.95	
5,580.12				10/11/04	52.11	51.09	
5,579.93				11/16/04	52.30	51.28	
5,580.07				12/22/04	52.16	51.14	
5,579.80				01/18/05	52.43	51.41	
5,580.35				02/28/05	51.88	50.86	
5,580.57				03/15/05	51.66	50.64	
5,580.86				04/26/05	51.37	50.35	
5,581.20				05/24/05	51.03	50.01	
5,581.51				06/30/05	50.72	49.70	
5,581.55				07/29/05	50.68	49.66	
5,581.68				09/12/05	50.55	49.53	
5,581.83				12/07/05	50.4	49.38	
5,564.92				03/08/06	67.31	66.29	
5,582.73				06/13/06	49.50	48.48	
5,582.33				07/18/06	49.90	48.88	
5,582.75				11/07/06	49.48	48.46	
5583.35				02/27/07	48.88	47.86	
5,559.57				05/02/07	72.66	71.64	
5,583.29				08/14/07	48.94	47.92	
5,583.49				10/10/07	48.74	47.72	
5,584.95				03/26/08	47.28	46.26	
5,584.59				06/24/08	47.64	46.62	
5,584.55				08/26/08	47.68	46.66	
5,584.03				10/14/08	48.2	47.18	
5,583.64				03/03/09	48.59	47.57	
5,587.34				06/24/09	44.89	43.87	
5,582.90				09/10/09	49.33	48.31	
5,583.27				12/11/09	48.96	47.94	
5,583.63				03/11/10	48.6	47.58	
5,583.82				05/11/10	48.41	47.39	
5,583.51				09/29/10	48.72	47.70	

Water Levels and Data over Time
White Mesa Mill - Well TW4-4

Water Elevation (z)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,612.301	5,613.485	1.184				114.5
5,512.145				05/25/00	101.34	100.16	
5,518.985				06/09/00	94.50	93.32	
5,512.145				06/16/00	101.34	100.16	
5,517.465				06/26/00	96.02	94.84	
5,520.145				07/06/00	93.34	92.16	
5,521.435				07/13/00	92.05	90.87	
5,522.005				07/18/00	91.48	90.30	
5,522.945				07/27/00	90.54	89.36	
5,523.485				08/02/00	90.00	88.82	
5,523.845				08/09/00	89.64	88.46	
5,523.885				08/15/00	89.60	88.42	
5,524.555				09/01/00	88.93	87.75	
5,513.235				09/08/00	100.25	99.07	
5,516.665				09/13/00	96.82	95.64	
5,519.085				09/20/00	94.40	93.22	
5,522.165				10/05/00	91.32	90.14	
5,524.665				11/09/00	88.82	87.64	
5,518.545				12/06/00	94.94	93.76	
5,527.695				01/03/01	85.79	84.61	
5,529.085				02/09/01	84.40	83.22	
5,529.535				03/27/01	83.95	82.77	
5,530.235				04/30/01	83.25	82.07	
5,530.265				05/31/01	83.22	82.04	
5,534.405				06/22/01	79.08	77.90	
5,533.145				07/10/01	80.34	79.16	
5,534.035				08/20/01	79.45	78.27	
5,534.465				09/19/01	79.02	77.84	
5,533.285				10/02/01	80.20	79.02	
5,530.265				05/31/01	83.22	82.04	
5,534.405				06/21/01	79.08	77.90	
5,533.145				07/10/01	80.34	79.16	
5,534.035				08/20/01	79.45	78.27	
5,534.465				09/19/01	79.02	77.84	
5,533.285				10/02/01	80.20	79.02	
5,533.865				11/08/01	79.62	78.44	
5,534.275				12/03/01	79.21	78.03	
5,534.715				01/03/02	78.77	77.59	
5,535.435				02/06/02	78.05	76.87	
5,536.445				03/26/02	77.04	75.86	
5,536.405				04/09/02	77.08	75.90	
5,537.335				05/23/02	76.15	74.97	
5,537.325				06/05/02	76.16	74.98	
5,537.975				07/08/02	75.51	74.33	

Water Levels and Data over Time
White Mesa Mill - Well TW4-4

Water Elevation (z)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,612.301	5,613.485	1.184				114.5
5,538.825				08/23/02	74.66	73.48	
5,539.275				09/11/02	74.21	73.03	
5,539.765				10/23/02	73.72	72.54	
5,540.205				11/22/02	73.28	72.10	
5,540.295				12/03/02	73.19	72.01	
5,540.795				01/09/03	72.69	71.51	
5,540.985				02/12/03	72.50	71.32	
5,541.675				03/26/03	71.81	70.63	
5,541.765				04/02/03	71.72	70.54	
5,541.885				05/01/03	71.60	70.42	
5,542.025				06/09/03	71.46	70.28	
5,541.925				07/07/03	71.56	70.38	
5,541.885				08/04/03	71.60	70.42	
5,541.825				09/11/03	71.66	70.48	
5,541.885				10/02/03	71.60	70.42	
5,541.995				11/07/03	71.49	70.31	
5,542.005				12/03/03	71.48	70.30	
5,542.555				01/15/04	70.93	69.75	
5,542.705				02/10/04	70.78	69.60	
5,543.225				03/28/04	70.26	69.08	
5,543.555				04/12/04	69.93	68.75	
5,543.865				05/13/04	69.62	68.44	
5,543.915				06/18/04	69.57	68.39	
5,544.655				07/28/04	68.83	67.65	
5,544.795				08/30/04	68.69	67.51	
5,544.845				09/16/04	68.64	67.46	
5,544.705				10/11/04	68.78	67.60	
5,544.525				11/16/04	68.96	67.78	
5,544.625				12/22/04	68.86	67.68	
5,544.305				01/18/05	69.18	68.00	
5,544.585				02/28/05	68.90	67.72	
5,544.685				03/15/05	68.80	67.62	
5,544.675				04/26/05	68.81	67.63	
5,544.785				05/24/05	68.70	67.52	
5,544.795				06/30/05	68.69	67.51	
5,544.775				07/29/05	68.71	67.53	
5,545.005				09/12/05	68.48	67.30	
5,545.225				12/07/05	68.26	67.08	
5,545.735				03/08/06	67.75	66.57	
5,545.785				06/14/06	67.70	66.52	
5,545.855				07/18/06	67.63	66.45	
5,545.805				11/07/06	67.68	66.50	
5546.675				02/27/07	66.81	65.63	

Water Levels and Data over Time
White Mesa Mill - Well TW4-4

Water Elevation (z)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,612.301	5,613.485	1.184				114.5
5,546.535				05/02/07	66.95	65.77	
5,547.155				08/15/07	66.33	65.15	
5,547.215				10/10/07	66.27	65.09	
5,548.305				03/26/08	65.18	64.00	
5,548.865				06/24/08	64.62	63.44	
5,549.235				08/26/08	64.25	63.07	
5,549.305				10/14/08	64.18	63.00	
5,549.725				03/03/09	63.76	62.58	
5,549.905				06/24/09	63.58	62.40	
5,549.695				09/10/09	63.79	62.61	
5,549.865				12/11/09	63.62	62.44	
5,545.60				03/11/10	67.89	66.71	
5,530.88				05/11/10	82.61	81.43	
5,545.24				09/29/10	68.25	67.07	

Water Levels and Data over Time
White Mesa Mill - Well TW4-5

Water Elevation (z)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,638.75	5,640.70	1.95				121.75
5,579.30				01/02/00	61.40	59.45	
5,579.60				01/10/00	61.10	59.15	
5,579.35				01/17/00	61.35	59.40	
5,579.60				01/24/00	61.10	59.15	
5,579.50				02/01/00	61.20	59.25	
5,579.50				02/07/00	61.20	59.25	
5,579.90				02/14/00	60.80	58.85	
5,579.90				02/23/00	60.80	58.85	
5,580.20				03/01/00	60.50	58.55	
5,580.00				03/08/00	60.70	58.75	
5,580.04				03/15/00	60.66	58.71	
5,580.70				03/20/00	60.00	58.05	
5,580.30				03/29/00	60.40	58.45	
5,580.00				04/04/00	60.70	58.75	
5,580.20				04/13/00	60.50	58.55	
5,580.40				04/21/00	60.30	58.35	
5,580.50				04/28/00	60.20	58.25	
5,580.50				05/01/00	60.20	58.25	
5,580.90				05/11/00	59.80	57.85	
5,580.50				05/15/00	60.20	58.25	
5,580.75				05/25/00	59.95	58.00	
5,580.80				06/09/00	59.90	57.95	
5,580.92				06/16/00	59.78	57.83	
5,580.80				06/26/00	59.90	57.95	
5,580.90				07/06/00	59.80	57.85	
5,581.05				07/13/00	59.65	57.70	
5,580.90				07/18/00	59.80	57.85	
5,581.05				07/27/00	59.65	57.70	
5,581.06				08/02/00	59.64	57.69	
5,581.08				08/09/00	59.62	57.67	
5,581.07				08/16/00	59.63	57.68	
5,581.25				08/31/00	59.45	57.50	
5,581.32				09/08/00	59.38	57.43	
5,581.34				09/13/00	59.36	57.41	
5,581.41				09/20/00	59.29	57.34	
5,581.37				10/05/00	59.33	57.38	
5,581.66				11/09/00	59.04	57.09	
5,581.63				12/06/00	59.07	57.12	
5,581.92				01/03/01	58.78	56.83	
5,582.20				02/09/01	58.50	56.55	
5,582.54				03/28/01	58.16	56.21	
5,582.72				04/30/01	57.98	56.03	
5,582.72				05/31/01	57.98	56.03	

Water Levels and Data over Time
White Mesa Mill - Well TW4-5

Water Elevation (z)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,638.75	5,640.70	1.95				121.75
5,582.81				06/22/01	57.89	55.94	
5,582.92				07/10/01	57.78	55.83	
5,583.17				08/20/01	57.53	55.58	
5,583.28				09/19/01	57.42	55.47	
5,583.36				10/02/01	57.34	55.39	
5,582.72				05/31/01	57.98	56.03	
5,582.81				06/21/01	57.89	55.94	
5,582.92				07/10/01	57.78	55.83	
5,583.17				08/20/01	57.53	55.58	
5,583.28				09/19/01	57.42	55.47	
5,583.36				10/02/01	57.34	55.39	
5,583.49				11/08/01	57.21	55.26	
5,583.84				12/03/01	56.86	54.91	
5,583.79				01/03/02	56.91	54.96	
5,583.96				02/06/02	56.74	54.79	
5,584.39				03/26/02	56.31	54.36	
5,584.12				04/09/02	56.58	54.63	
5,584.55				05/23/02	56.15	54.20	
5,584.42				06/05/02	56.28	54.33	
5,583.65				07/08/02	57.05	55.10	
5,584.90				08/23/02	55.80	53.85	
5,585.02				09/11/02	55.68	53.73	
5,585.20				10/23/02	55.50	53.55	
5,585.15				11/22/02	55.55	53.60	
5,585.42				12/03/02	55.28	53.33	
5,585.65				01/09/03	55.05	53.10	
5,585.65				02/12/03	55.05	53.10	
5,585.92				03/26/03	54.78	52.83	
5,586.22				04/02/03	54.48	52.53	
5,586.01				05/01/03	54.69	52.74	
5,584.81				06/09/03	55.89	53.94	
5,584.34				07/07/03	56.36	54.41	
5,584.40				08/04/03	56.30	54.35	
5,583.88				09/11/03	56.82	54.87	
5,583.57				10/02/03	57.13	55.18	
5,583.39				11/07/03	57.31	55.36	
5,583.97				12/03/03	56.73	54.78	
5,585.28				01/15/04	55.42	53.47	
5,585.50				02/10/04	55.20	53.25	
5,585.87				03/28/04	54.83	52.88	
5,586.20				04/12/04	54.50	52.55	
5,586.45				05/13/04	54.25	52.30	
5,586.50				06/18/04	54.20	52.25	

Water Levels and Data over Time
White Mesa Mill - Well TW4-5

Water Elevation (z)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,638.75	5,640.70	1.95				121.75
5,587.13				07/28/04	53.57	51.62	
5,586.22				08/30/04	54.48	52.53	
5,585.69				09/16/04	55.01	53.06	
5,585.17				10/11/04	55.53	53.58	
5,584.64				11/16/04	56.06	54.11	
5,584.77				12/22/04	55.93	53.98	
5,584.65				01/18/05	56.05	54.10	
5,584.98				02/28/05	55.72	53.77	
5,585.15				03/15/05	55.55	53.60	
5,586.25				04/26/05	54.45	52.50	
5,586.79				05/24/05	53.91	51.96	
5,586.52				06/30/05	54.18	52.23	
5,586.03				07/29/05	54.67	52.72	
5,586.05				09/12/05	54.65	52.70	
5,585.80				12/07/05	54.90	52.95	
5,587.06				03/08/06	53.64	51.69	
5,585.90				06/13/06	54.80	52.85	
5,585.32				07/18/06	55.38	53.43	
5,585.35				11/07/06	55.35	53.40	
5585.81				02/27/07	54.89	52.94	
5,585.20				05/02/07	55.50	53.55	
5,586.66				08/14/07	54.04	52.09	
5,586.80				10/10/07	53.90	51.95	
5,588.48				03/26/08	52.22	50.27	
5,586.51				06/24/08	54.19	52.24	
5,586.45				08/26/08	54.25	52.30	
5,585.40				10/14/08	55.3	53.35	
5,584.80				03/03/09	55.9	53.95	
5,584.73				06/24/09	55.97	54.02	
5,584.36				09/10/09	56.34	54.39	
5,585.02				12/11/09	55.68	53.73	
5,585.66				03/11/10	55.04	53.09	
5,584.86				05/11/10	55.84	53.89	
5,584.55				09/29/10	56.15	54.20	

Water Levels and Data over Time
White Mesa Mill - Well TW4-6

Water Elevation (z)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well (blw.LSD)
	5,607.33	5,608.78	1.450				98.55
5,522.28				05/25/00	86.50	85.05	
5,521.51				06/09/00	87.27	85.82	
5,522.35				06/16/00	86.43	84.98	
5,522.14				06/26/00	86.64	85.19	
5,522.25				07/06/00	86.53	85.08	
5,522.13				07/13/00	86.65	85.20	
5,522.17				07/18/00	86.61	85.16	
5,522.26				07/25/00	86.52	85.07	
5,522.31				08/02/00	86.47	85.02	
5,522.33				08/09/00	86.45	85.00	
5,522.35				08/15/00	86.43	84.98	
5,522.40				08/31/00	86.38	84.93	
5,522.40				09/08/00	86.38	84.93	
5,522.45				09/13/00	86.33	84.88	
5,522.53				09/20/00	86.25	84.80	
5,522.39				10/05/00	86.39	84.94	
5,522.42				11/09/00	86.36	84.91	
5,522.29				12/06/00	86.49	85.04	
5,522.63				01/03/01	86.15	84.70	
5,522.72				02/09/01	86.06	84.61	
5,522.90				03/26/01	85.88	84.43	
5,522.70				04/30/01	86.08	84.63	
5,522.89				05/31/01	85.89	84.44	
5,522.88				06/20/01	85.90	84.45	
5,522.96				07/10/01	85.82	84.37	
5,523.10				08/20/01	85.68	84.23	
5,523.23				09/19/01	85.55	84.10	
5,523.21				10/02/01	85.57	84.12	
5,522.89				05/31/01	85.89	84.44	
5,522.88				06/21/01	85.90	84.45	
5,522.96				07/10/01	85.82	84.37	
5,523.10				08/20/01	85.68	84.23	
5,523.23				09/19/01	85.55	84.10	
5,523.21				10/02/01	85.57	84.12	
5,523.25				11/08/01	85.53	84.08	
5,523.46				12/03/01	85.32	83.87	
5,523.36				01/03/02	85.42	83.97	
5,523.50				02/06/02	85.28	83.83	
5,523.94				03/26/02	84.84	83.39	
5,523.75				04/09/02	85.03	83.58	
5,524.23				05/23/02	84.55	83.10	
5,523.98				06/05/02	84.80	83.35	
5,524.31				07/08/02	84.47	83.02	

Water Levels and Data over Time
White Mesa Mill - Well TW4-6

Water Elevation (z)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well (blw.LSD)
	5,607.33	5,608.78	1.450				98.55
5,524.36				08/23/02	84.42	82.97	
5,524.49				09/11/02	84.29	82.84	
5,524.71				10/23/02	84.07	82.62	
5,524.60				11/22/02	84.18	82.73	
5,524.94				12/03/02	83.84	82.39	
5,525.10				01/09/03	83.68	82.23	
5,525.15				02/12/03	83.63	82.18	
5,525.35				03/26/03	83.43	81.98	
5,525.68				04/02/03	83.10	81.65	
5,525.74				05/01/03	83.04	81.59	
5,525.98				06/09/03	82.80	81.35	
5,526.04				07/07/03	82.74	81.29	
5,526.07				08/04/03	82.71	81.26	
5,526.42				09/11/03	82.36	80.91	
5,526.30				10/02/03	82.48	81.03	
5,526.41				11/07/03	82.37	80.92	
5,526.46				12/03/03	82.32	80.87	
5,526.83				01/15/04	81.95	80.50	
5,526.81				02/10/04	81.97	80.52	
5,527.14				03/28/04	81.64	80.19	
5,527.39				04/12/04	81.39	79.94	
5,527.64				05/13/04	81.14	79.69	
5,527.70				06/18/04	81.08	79.63	
5,528.16				07/28/04	80.62	79.17	
5,528.30				08/30/04	80.48	79.03	
5,528.52				09/16/04	80.26	78.81	
5,528.71				10/11/04	80.07	78.62	
5,528.74				11/16/04	80.04	78.59	
5,529.20				12/22/04	79.58	78.13	
5,528.92				01/18/05	79.86	78.41	
5,529.51				02/28/05	79.27	77.82	
5,529.74				03/15/05	79.04	77.59	
5,529.96				04/26/05	78.82	77.37	
5,530.15				05/24/05	78.63	77.18	
5,530.35				06/30/05	78.43	76.98	
5,530.47				07/29/05	78.31	76.86	
5,530.95				09/12/05	77.83	76.38	
5,531.50				12/07/05	77.28	75.83	
5,532.43				03/08/06	76.35	74.90	
5,533.49				06/13/06	75.29	73.84	
5,532.58				07/18/06	76.20	74.75	
5,532.88				11/07/06	75.90	74.45	
5534.09				02/27/07	74.69	73.24	

Water Levels and Data over Time
White Mesa Mill - Well TW4-6

Water Elevation (z)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well (blw.LSD)
	5,607.33	5,608.78	1.450				98.55
5,534.04				05/02/07	74.74	73.29	
5,534.43				08/14/07	74.35	72.90	
5,554.54				10/10/07	54.24	52.79	
5,535.40				03/26/08	73.38	71.93	
5,535.55				06/24/08	73.23	71.78	
5,535.90				08/26/08	72.88	71.43	
5,535.87				10/14/08	72.91	71.46	
5,536.42				03/10/09	72.36	70.91	
5,536.71				06/24/09	72.07	70.62	
5,536.83				09/10/09	71.95	70.50	
5,537.35				12/11/09	71.43	69.98	
5,537.93				03/11/10	70.85	69.40	
5,538.14				05/11/10	70.64	69.19	
5,538.03				09/29/10	70.75	69.30	

Water Levels and Data over Time
White Mesa Mill - Well TW4-7

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well (blw.LSD)
	5,619.87	5,621.07	1.20				119.8
5,552.37				11/29/99	68.70	67.50	
5,553.57				01/02/00	67.50	66.30	
5,553.87				01/10/00	67.20	66.00	
5,553.72				01/17/00	67.35	66.15	
5,553.97				01/24/00	67.10	65.90	
5,553.87				02/01/00	67.20	66.00	
5,553.87				02/07/00	67.20	66.00	
5,554.17				02/14/00	66.90	65.70	
5,554.27				02/23/00	66.80	65.60	
5,554.37				03/01/00	66.70	65.50	
5,554.37				03/08/00	66.70	65.50	
5,554.27				03/15/00	66.80	65.60	
5,554.77				03/20/00	66.30	65.10	
5,554.57				03/29/00	66.50	65.30	
5,554.27				04/04/00	66.80	65.60	
5,554.57				04/13/00	66.50	65.30	
5,554.77				04/21/00	66.30	65.10	
5,554.87				04/28/00	66.20	65.00	
5,554.87				05/01/00	66.20	65.00	
5,555.27				05/11/00	65.80	64.60	
5,554.97				05/15/00	66.10	64.90	
5,555.27				05/25/00	65.80	64.60	
5,555.33				06/09/00	65.74	64.54	
5,555.45				06/16/00	65.62	64.42	
5,555.22				06/26/00	65.85	64.65	
5,555.45				07/06/00	65.62	64.42	
5,555.40				07/13/00	65.67	64.47	
5,555.45				07/18/00	65.62	64.42	
5,555.59				07/27/00	65.48	64.28	
5,555.65				08/02/00	65.42	64.22	
5,555.70				08/09/00	65.37	64.17	
5,555.74				08/16/00	65.33	64.13	
5,555.96				08/31/00	65.11	63.91	
5,555.87				09/08/00	65.20	64.00	
5,555.95				09/13/00	65.12	63.92	
5,556.05				09/20/00	65.02	63.82	
5,556.06				10/05/00	65.01	63.81	
5,556.17				10/12/00	64.90	63.70	
5,556.20				10/19/00	64.87	63.67	
5,556.22				10/23/00	64.85	63.65	
5,556.36				11/09/00	64.71	63.51	
5,556.42				11/14/00	64.65	63.45	
5,556.45				11/30/00	64.62	63.42	

Water Levels and Data over Time
White Mesa Mill - Well TW4-7

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well (blw.LSD)
	5,619.87	5,621.07	1.20				119.8
5,556.15				12/06/00	64.92	63.72	
5,556.89				01/14/01	64.18	62.98	
5,557.07				02/09/01	64.00	62.80	
5,557.62				03/29/01	63.45	62.25	
5,557.51				04/30/01	63.56	62.36	
5,557.77				05/31/01	63.30	62.10	
5,557.84				06/21/01	63.23	62.03	
5,557.98				07/10/01	63.09	61.89	
5,558.33				08/20/01	62.74	61.54	
5,558.57				09/19/01	62.50	61.30	
5,558.53				10/02/01	62.54	61.34	
5,558.62				11/08/01	62.45	61.25	
5,559.03				12/03/01	62.04	60.84	
5,559.08				01/03/02	61.99	60.79	
5,559.32				02/06/02	61.75	60.55	
5,559.63				03/26/02	61.44	60.24	
5,559.55				04/09/02	61.52	60.32	
5,560.06				05/23/02	61.01	59.81	
5,559.91				06/05/02	61.16	59.96	
5,560.09				07/08/02	60.98	59.78	
5,560.01				08/23/02	61.06	59.86	
5,560.23				09/11/02	60.84	59.64	
5,560.43				10/23/02	60.64	59.44	
5,560.39				11/22/02	60.68	59.48	
5,560.61				12/03/02	60.46	59.26	
5,560.89				01/09/03	60.18	58.98	
5,560.94				02/12/03	60.13	58.93	
5,561.28				03/26/03	59.79	58.59	
5,561.35				04/02/03	59.72	58.52	
5,546.20				05/01/03	74.87	73.67	
5,539.47				06/09/03	81.60	80.40	
5,541.87				07/07/03	79.20	78.00	
5,542.12				08/04/03	78.95	77.75	
5,541.91				09/11/03	79.16	77.96	
5,544.62				10/02/03	76.45	75.25	
5,542.67				11/07/03	78.40	77.20	
5,549.96				12/03/03	71.11	69.91	
5,557.17				01/15/04	63.90	62.70	
5,558.65				02/10/04	62.42	61.22	
5,559.90				03/28/04	61.17	59.97	
5,560.36				04/12/04	60.71	59.51	
5,560.87				05/13/04	60.20	59.00	
5,560.95				06/18/04	60.12	58.92	

Water Levels and Data over Time
White Mesa Mill - Well TW4-7

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well (blw.LSD)
	5,619.87	5,621.07	1.20				119.8
5,561.64				07/28/04	59.43	58.23	
5,543.00				08/30/04	78.07	76.87	
5,541.91				09/16/04	79.16	77.96	
5,540.08				10/11/04	80.99	79.79	
5,546.92				11/16/04	74.15	72.95	
5,546.97				12/22/04	74.10	72.90	
5,546.51				01/18/05	74.56	73.36	
5,546.66				02/28/05	74.41	73.21	
5,546.81				03/15/05	74.26	73.06	
5,548.19				04/26/05	72.88	71.68	
5,547.11				05/24/05	73.96	72.76	
5,546.98				06/30/05	74.09	72.89	
5,546.92				07/29/05	74.15	72.95	
5,547.26				09/12/05	73.81	72.61	
5,547.26				12/07/05	73.81	72.61	
5,548.86				03/08/06	72.21	71.01	
5,548.62				06/13/06	72.45	71.25	
5,550.04				07/18/06	71.03	69.83	
5,548.32				11/07/06	72.75	71.55	
5,550.44				02/27/07	70.63	69.43	
5,549.69				05/02/07	71.38	70.18	
5,549.97				08/14/07	71.10	69.90	
5,550.30				10/10/07	70.77	69.57	
5,551.92				03/26/08	69.15	67.95	
5,552.94				06/24/08	68.13	66.93	
5,552.34				08/26/08	68.73	67.53	
5,552.61				10/14/08	68.46	67.26	
5,552.81				03/10/09	68.26	67.06	
5,553.11				06/24/09	67.96	66.76	
5,552.55				09/10/09	68.52	67.32	
5,553.06				12/11/09	68.01	66.81	
5,554.64				03/11/10	66.43	65.23	
5,554.20				05/11/10	66.87	65.67	
5,553.45				09/29/10	67.62	66.42	

Water Levels and Data over Time
White Mesa Mill - Well TW4-8

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,616.80	5,618.21	1.41				126.00
5,543.21				11/29/99	75.00	73.59	
5,543.01				01/02/00	75.20	73.79	
5,543.31				01/10/00	74.90	73.49	
5,543.11				01/17/00	75.10	73.69	
5,543.41				01/24/00	74.80	73.39	
5,543.31				02/01/00	74.90	73.49	
5,543.31				02/07/00	74.90	73.49	
5,543.71				02/14/00	74.50	73.09	
5,543.76				02/23/00	74.45	73.04	
5,543.86				03/01/00	74.35	72.94	
5,543.86				03/08/00	74.35	72.94	
5,543.91				03/15/00	74.30	72.89	
5,544.31				03/20/00	73.90	72.49	
5,544.21				03/29/00	74.00	72.59	
5,544.01				04/04/00	74.20	72.79	
5,544.21				04/13/00	74.00	72.59	
5,544.41				04/21/00	73.80	72.39	
5,544.51				04/28/00	73.70	72.29	
5,544.51				05/01/00	73.70	72.29	
5,544.81				05/11/00	73.40	71.99	
5,544.51				05/15/00	73.70	72.29	
5,544.71				05/25/00	73.50	72.09	
5,544.71				06/09/00	73.50	72.09	
5,544.81				06/16/00	73.40	71.99	
5,544.68				06/26/00	73.53	72.12	
5,544.76				07/06/00	73.45	72.04	
5,544.77				07/13/00	73.44	72.03	
5,544.76				07/18/00	73.45	72.04	
5,544.92				07/27/00	73.29	71.88	
5,544.96				08/02/00	73.25	71.84	
5,544.98				08/09/00	73.23	71.82	
5,544.97				08/15/00	73.24	71.83	
5,545.21				08/31/00	73.00	71.59	
5,545.31				09/08/00	72.90	71.49	
5,545.43				09/13/00	72.78	71.37	
5,545.56				09/20/00	72.65	71.24	
5,545.57				10/05/00	72.64	71.23	
5,545.81				11/09/00	72.40	70.99	
5,545.66				12/06/00	72.55	71.14	
5,546.28				01/03/01	71.93	70.52	
5,546.70				02/09/01	71.51	70.10	
5,547.18				03/27/01	71.03	69.62	
5,547.31				04/30/01	70.90	69.49	

Water Levels and Data over Time
White Mesa Mill - Well TW4-8

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,616.80	5,618.21	1.41				126.00
5,547.49				05/31/01	70.72	69.31	
5,547.49				06/20/01	70.72	69.31	
5,547.83				07/10/01	70.38	68.97	
5,548.13				08/20/01	70.08	68.67	
5,548.30				09/19/01	69.91	68.50	
5,548.45				10/02/01	69.76	68.35	
5,547.49				05/31/01	70.72	69.31	
5,547.54				06/21/01	70.67	69.26	
5,547.83				07/10/01	70.38	68.97	
5,548.13				08/20/01	70.08	68.67	
5,548.30				09/19/01	69.91	68.50	
5,548.45				10/02/01	69.76	68.35	
5,548.62				11/08/01	69.59	68.18	
5,549.03				12/03/01	69.18	67.77	
5,548.97				01/03/02	69.24	67.83	
5,549.19				02/06/02	69.02	67.61	
5,549.66				03/26/02	68.55	67.14	
5,549.64				04/09/02	68.57	67.16	
5,550.01				05/23/02	68.20	66.79	
5,549.97				06/05/02	68.24	66.83	
5,550.13				07/08/02	68.08	66.67	
5,550.30				08/23/02	67.91	66.50	
5,550.50				09/11/02	67.71	66.30	
5,550.90				10/23/02	67.31	65.90	
5,550.83				11/22/02	67.38	65.97	
5,551.04				12/03/02	67.17	65.76	
5,551.24				01/09/03	66.97	65.56	
5,551.23				02/12/03	66.98	65.57	
5,551.52				03/26/03	66.69	65.28	
5,551.64				04/02/03	66.57	65.16	
5,549.02				05/01/03	69.19	67.78	
5,544.74				06/09/03	73.47	72.06	
5,543.78				07/07/03	74.43	73.02	
5,543.39				08/04/03	74.82	73.41	
5,543.05				09/11/03	75.16	73.75	
5,543.19				10/02/03	75.02	73.61	
5,543.21				11/07/03	75.00	73.59	
5,543.40				12/03/03	74.81	73.40	
5,548.10				01/15/04	70.11	68.70	
5,549.50				02/10/04	68.71	67.30	
5,550.87				03/28/04	67.34	65.93	
5,551.33				04/12/04	66.88	65.47	
5,551.87				05/13/04	66.34	64.93	

Water Levels and Data over Time
White Mesa Mill - Well TW4-8

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,616.80	5,618.21	1.41				126.00
5,551.92				06/18/04	66.29	64.88	
5,552.69				07/28/04	65.52	64.11	
5,549.78				08/30/04	68.43	67.02	
5,547.46				09/16/04	70.75	69.34	
5,545.21				10/11/04	73.00	71.59	
5,545.09				11/16/04	73.12	71.71	
5,545.61				12/22/04	72.60	71.19	
5,545.24				01/18/05	72.97	71.56	
5,545.42				02/28/05	72.79	71.38	
5,545.45				03/15/05	72.76	71.35	
5,545.46				04/26/05	72.75	71.34	
5,545.66				05/24/05	72.55	71.14	
5,545.54				06/30/05	72.67	71.26	
5,545.43				07/29/05	72.78	71.37	
5,545.61				09/12/05	72.60	71.19	
5,545.52				12/07/05	72.69	71.28	
5,546.53				03/08/06	71.68	70.27	
5,546.51				06/13/06	71.70	70.29	
5,546.51				07/18/06	71.70	70.29	
5,546.46				11/07/06	71.75	70.34	
5,547.92				02/27/07	70.29	68.88	
5,547.01				05/02/07	71.20	69.79	
5,547.40				08/14/07	70.81	69.40	
5,547.57				10/10/07	70.64	69.23	
5,548.76				03/26/08	69.45	68.04	
5,549.17				06/24/08	69.04	67.63	
5,549.31				08/26/08	68.9	67.49	
5,549.37				10/14/08	68.84	67.43	
5,549.72				03/03/09	68.49	67.08	
5,550.08				06/24/09	68.13	66.72	
5,549.93				09/10/09	68.28	66.87	
5,550.44				12/11/09	67.77	66.36	
5,551.46				03/11/10	66.75	65.34	
5,551.38				05/11/10	66.83	65.42	
5,551.15				09/29/10	67.06	65.65	

Water Levels and Data over Time
White Mesa Mill - Well TW4-9

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,636.11	5,637.59	1.48				121.33
5,577.09				12/20/99	60.5	59.02	
5,577.09				01/02/00	60.5	59.02	
5,577.29				01/10/00	60.3	58.82	
5,577.09				01/17/00	60.5	59.02	
5,577.39				01/24/00	60.2	58.72	
5,577.29				02/01/00	60.3	58.82	
5,577.19				02/07/00	60.4	58.92	
5,577.69				02/14/00	59.9	58.42	
5,577.69				02/23/00	59.9	58.42	
5,577.79				03/01/00	59.8	58.32	
5,577.79				03/08/00	59.8	58.32	
5,577.89				03/15/00	59.7	58.22	
5,568.49				03/20/00	69.1	67.62	
5,578.14				03/29/00	59.45	57.97	
5,577.84				04/04/00	59.75	58.27	
5,578.04				04/13/00	59.55	58.07	
5,578.24				04/21/00	59.35	57.87	
5,578.39				04/28/00	59.2	57.72	
5,578.39				05/01/00	59.2	57.72	
5,578.79				05/11/00	58.8	57.32	
5,578.39				05/15/00	59.2	57.72	
5,578.79				05/25/00	58.8	57.32	
5,578.81				06/09/00	58.78	57.30	
5,578.89				06/16/00	58.7	57.22	
5,578.74				06/26/00	58.85	57.37	
5,578.86				07/06/00	58.73	57.25	
5,578.87				07/13/00	58.72	57.24	
5,578.84				07/18/00	58.75	57.27	
5,579.03				07/27/00	58.56	57.08	
5,579.03				08/02/00	58.56	57.08	
5,579.05				08/09/00	58.54	57.06	
5,579.04				08/15/00	58.55	57.07	
5,579.25				08/31/00	58.34	56.86	
5,579.35				09/08/00	58.24	56.76	
5,579.40				09/13/00	58.19	56.71	
5,579.46				09/20/00	58.13	56.65	
5,579.44				10/05/00	58.15	56.67	
5,579.79				11/09/00	57.8	56.32	
5,579.73				12/06/00	57.86	56.38	
5,580.01				01/03/01	57.58	56.10	
5,580.30				02/09/01	57.29	55.81	
5,580.66				03/27/01	56.93	55.45	
5,580.75				04/30/01	56.84	55.36	

Water Levels and Data over Time
White Mesa Mill - Well TW4-9

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,636.11	5,637.59	1.48				121.33
5,581.04				05/31/01	56.55	55.07	
5,581.12				06/21/01	56.47	54.99	
5,581.15				07/10/01	56.44	54.96	
5,581.51				08/20/01	56.08	54.60	
5,581.70				09/19/01	55.89	54.41	
5,581.61				10/02/01	55.98	54.50	
5,581.04				05/31/01	56.55	55.07	
5,581.12				06/21/01	56.47	54.99	
5,581.15				07/10/01	56.44	54.96	
5,581.51				08/20/01	56.08	54.60	
5,581.70				09/19/01	55.89	54.41	
5,581.61				10/02/01	55.98	54.50	
5,581.83				11/08/01	55.76	54.28	
5,582.17				12/03/01	55.42	53.94	
5,582.21				01/03/02	55.38	53.90	
5,582.57				02/06/02	55.02	53.54	
5,583.12				03/26/02	54.47	52.99	
5,582.77				04/09/02	54.82	53.34	
5,583.21				05/23/02	54.38	52.90	
5,582.94				06/05/02	54.65	53.17	
5,582.71				07/08/02	54.88	53.40	
5,583.67				08/23/02	53.92	52.44	
5,583.82				09/11/02	53.77	52.29	
5,584.01				10/23/02	53.58	52.10	
5,583.88				11/22/02	53.71	52.23	
5,583.81				12/03/02	53.78	52.30	
5,584.28				01/09/03	53.31	51.83	
5,584.41				02/12/03	53.18	51.70	
5,584.68				03/26/03	52.91	51.43	
5,584.49				04/02/03	53.10	51.62	
5,584.51				05/01/03	53.08	51.60	
5,583.59				06/09/03	54.00	52.52	
5,582.96				07/07/03	54.63	53.15	
5,582.98				08/04/03	54.61	53.13	
5,582.57				09/11/03	55.02	53.54	
5,582.25				10/02/03	55.34	53.86	
5,582.09				11/07/03	55.50	54.02	
5,582.48				12/03/03	55.11	53.63	
5,583.69				01/15/04	53.90	52.42	
5,583.89				02/10/04	53.70	52.22	
5,584.30				03/28/04	53.29	51.81	
5,584.59				04/12/04	53.00	51.52	
5,584.87				05/13/04	52.72	51.24	

Water Levels and Data over Time
White Mesa Mill - Well TW4-9

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,636.11	5,637.59	1.48				121.33
5,584.96				06/18/04	52.63	51.15	
5,585.50				07/28/04	52.09	50.61	
5,584.81				08/30/04	52.78	51.30	
5,584.40				09/16/04	53.19	51.71	
5,583.91				10/11/04	53.68	52.20	
5,583.39				11/16/04	54.20	52.72	
5,583.54				12/22/04	54.05	52.57	
5,583.34				01/18/05	54.25	52.77	
5,583.66				02/28/05	53.93	52.45	
5,583.87				03/15/05	53.72	52.24	
5,584.74				04/26/05	52.85	51.37	
5,585.26				05/24/05	52.33	50.85	
5,585.06				06/30/05	52.53	51.05	
5,584.67				07/29/05	52.92	51.44	
5,584.75				09/12/05	52.84	51.36	
5,584.51				12/07/05	53.08	51.60	
5,585.74				03/08/06	51.85	50.37	
5,584.74				06/13/06	52.85	51.37	
5,584.26				07/18/06	53.33	51.85	
5,584.21				11/07/06	53.38	51.90	
5,584.67				02/27/07	52.92	51.44	
5,584.06				05/02/07	53.53	52.05	
5,585.33				08/14/07	52.26	50.78	
5,585.42				10/10/07	52.17	50.69	
5,587.01				03/26/08	50.58	49.10	
5,585.44				06/24/08	52.15	50.67	
5,585.23				08/26/08	52.36	50.88	
5,584.42				10/14/08	53.17	51.69	
5,583.59				03/03/09	54	52.52	
5,583.35				06/24/09	54.24	52.76	
5,582.91				09/10/09	54.68	53.20	
5,583.43				12/11/09	54.16	52.68	
5,584.00				03/11/10	53.59	52.11	
5,583.27				05/11/10	54.32	52.84	
5,582.92				09/29/10	54.67	53.19	

Water Levels and Data over Time
White Mesa Mill - Well TW4-10

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,631.99	5,634.24	2.25				121.33
5,576.75				01/03/02	57.49	55.24	
5,576.92				02/06/02	57.32	55.07	
5,577.43				03/26/02	56.81	54.56	
5,577.22				04/09/02	57.02	54.77	
5,577.80				05/23/02	56.44	54.19	
5,577.47				06/05/02	56.77	54.52	
5,577.55				07/08/02	56.69	54.44	
5,578.10				08/23/02	56.14	53.89	
5,578.24				09/11/02	56.00	53.75	
5,578.49				10/23/02	55.75	53.50	
5,578.43				11/22/02	55.81	53.56	
5,578.43				12/03/02	55.81	53.56	
5,578.66				01/09/03	55.58	53.33	
5,578.66				02/12/03	55.58	53.33	
5,578.78				03/26/03	55.46	53.21	
5,578.90				04/02/03	55.34	53.09	
5,578.83				05/01/03	55.41	53.16	
5,578.05				06/09/03	56.19	53.94	
5,577.38				07/07/03	56.86	54.61	
5,577.15				08/04/03	57.09	54.84	
5,576.76				09/11/03	57.48	55.23	
5,576.36				10/02/03	57.88	55.63	
5,576.05				11/07/03	58.19	55.94	
5,576.20				12/03/03	58.04	55.79	
5,577.43				01/15/04	56.81	54.56	
5,577.81				02/10/04	56.43	54.18	
5,578.47				03/28/04	55.77	53.52	
5,578.69				04/12/04	55.55	53.30	
5,578.93				05/13/04	55.31	53.06	
5,578.99				06/18/04	55.25	53.00	
5,579.18				07/28/04	55.06	52.81	
5,579.06				08/30/04	55.18	52.93	
5,578.78				09/16/04	55.46	53.21	
5,577.80				10/11/04	56.44	54.19	
5,577.13				11/16/04	57.11	54.86	
5,576.96				12/22/04	57.28	55.03	
5,576.63				01/18/05	57.61	55.36	
5,576.82				02/28/05	57.42	55.17	
5,576.86				03/15/05	57.38	55.13	
5,577.52				04/26/05	56.72	54.47	
5,578.01				05/24/05	56.23	53.98	
5,578.15				06/30/05	56.09	53.84	
5,577.90				07/29/05	56.34	54.09	

Water Levels and Data over Time
White Mesa Mill - Well TW4-10

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,631.99	5,634.24	2.25				121.33
5,578.02				09/12/05	56.22	53.97	
5,577.56				12/07/05	56.68	54.43	
5,579.69				03/08/06	54.55	52.30	
5,578.34				06/13/06	55.90	53.65	
5,577.94				07/18/06	56.30	54.05	
5,578.01				11/07/06	56.23	53.98	
5578.43				02/27/07	55.81	53.56	
5,577.84				05/02/07	56.40	54.15	
5,578.74				08/14/07	55.50	53.25	
5,579.04				10/10/07	55.20	52.95	
5,580.69				03/26/08	53.55	51.30	
5,579.87				06/24/08	54.37	52.12	
5,579.47				08/26/08	54.77	52.52	
5,578.87				10/14/08	55.37	53.12	
5,578.01				03/10/09	56.23	53.98	
5,577.85				06/24/09	56.39	54.14	
5,577.49				09/10/09	56.75	54.50	
5,577.98				12/11/09	56.26	54.01	
5,578.38				03/11/10	55.86	53.61	
5,578.16				05/11/10	56.08	53.83	
5,577.85				09/29/10	56.39	54.14	

Water Levels and Data over Time
White Mesa Mill - Well TW4-11

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,621.92	5,623.62	1.70				121.33
5,548.32				01/03/02	75.30	73.60	
5,548.73				02/06/02	74.89	73.19	
5,549.03				03/26/02	74.59	72.89	
5,548.84				04/09/02	74.78	73.08	
5,549.30				05/23/02	74.32	72.62	
5,549.01				06/05/02	74.61	72.91	
5,549.22				07/08/02	74.40	72.70	
5,549.44				08/23/02	74.18	72.48	
5,549.57				09/11/02	74.05	72.35	
5,549.64				10/23/02	73.98	72.28	
5,549.58				11/22/02	74.04	72.34	
5,549.62				12/03/02	74.00	72.30	
5,549.85				01/09/03	73.77	72.07	
5,549.91				02/12/03	73.71	72.01	
5,550.15				03/26/03	73.47	71.77	
5,550.01				04/02/03	73.61	71.91	
5,550.31				05/01/03	73.31	71.61	
5,550.44				06/09/03	73.18	71.48	
5,550.33				07/07/03	73.29	71.59	
5,550.35				08/04/03	73.27	71.57	
5,550.44				09/11/03	73.18	71.48	
5,550.47				10/02/03	73.15	71.45	
5,550.60				11/07/03	73.02	71.32	
5,550.60				12/03/03	73.02	71.32	
5,550.94				01/15/04	72.68	70.98	
5,551.00				02/10/04	72.62	70.92	
5,550.34				03/28/04	73.28	71.58	
5,551.54				04/12/04	72.08	70.38	
5,551.89				05/13/04	71.73	70.03	
5,551.94				06/18/04	71.68	69.98	
5,552.49				07/28/04	71.13	69.43	
5,552.74				08/30/04	70.88	69.18	
5,553.01				09/16/04	70.61	68.91	
5,553.11				10/11/04	70.51	68.81	
5,553.19				11/16/04	70.43	68.73	
5,553.53				12/22/04	70.09	68.39	
5,553.31				01/18/05	70.31	68.61	
5,553.84				02/28/05	69.78	68.08	
5,554.04				03/15/05	69.58	67.88	
5,554.23				04/26/05	69.39	67.69	
5,553.87				05/24/05	69.75	68.05	
5,554.46				06/30/05	69.16	67.46	
5,554.57				07/29/05	69.05	67.35	

Water Levels and Data over Time
White Mesa Mill - Well TW4-11

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,621.92	5,623.62	1.70				121.33
5,553.86				09/12/05	69.76	68.06	
5,555.30				12/07/05	68.32	66.62	
5,556.20				03/08/06	67.42	65.72	
5,556.48				06/14/06	67.14	65.44	
5,556.37				07/18/06	67.25	65.55	
5,556.94				11/07/06	66.68	64.98	
5557.92				02/27/07	65.7	64	
5,557.84				05/02/07	65.78	64.08	
5,558.02				08/15/07	65.60	63.90	
5,557.13				10/10/07	66.49	64.79	
5,569.74				03/26/08	53.88	52.18	
5,561.01				06/24/08	62.61	60.91	
5,562.07				08/26/08	61.55	59.85	
5,562.47				10/14/08	61.15	59.45	
5,563.80				03/10/09	59.82	58.12	
5,564.27				06/24/09	59.35	57.65	
5,564.32				09/10/09	59.3	57.60	
5,564.70				12/11/09	58.92	57.22	
5,565.14				03/11/10	58.48	56.78	
5,565.61				05/11/10	58.01	56.31	
5,565.67				09/29/10	57.95	56.25	

Water Levels and Data over Time
White Mesa Mill - Well TW4-12

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,622.38	5,624.03	1.65				121.33
5,580.71				08/23/02	43.32	41.67	
5,581.34				09/11/02	42.69	41.04	
5,581.13				10/23/02	42.90	41.25	
5,581.27				11/22/02	42.76	41.11	
5,581.35				12/03/02	42.68	41.03	
5,582.38				01/09/03	41.65	40.00	
5,582.27				02/12/03	41.76	40.11	
5,582.51				03/26/03	41.52	39.87	
5,581.91				04/02/03	42.12	40.47	
5,582.72				05/01/03	41.31	39.66	
5,582.93				06/09/03	41.10	39.45	
5,583.01				07/07/03	41.02	39.37	
5,583.11				08/04/03	40.92	39.27	
5,583.35				09/11/03	40.68	39.03	
5,583.52				10/02/03	40.51	38.86	
5,583.57				11/07/03	40.46	38.81	
5,583.81				12/03/03	40.22	38.57	
5,584.17				01/15/04	39.86	38.21	
5,584.19				02/10/04	39.84	38.19	
5,584.31				03/28/04	39.72	38.07	
5,584.70				04/12/04	39.33	37.68	
5,584.68				05/13/04	39.35	37.70	
5,584.73				06/18/04	39.30	37.65	
5,585.16				07/28/04	38.87	37.22	
5,585.18				08/30/04	38.85	37.20	
5,585.29				09/16/04	38.74	37.09	
5,585.65				10/11/04	38.38	36.73	
5,585.71				11/16/04	38.32	36.67	
5,586.15				12/22/04	37.88	36.23	
5,585.94				01/18/05	38.09	36.44	
5,586.36				02/28/05	37.67	36.02	
5,586.75				03/15/05	37.28	35.63	
5,587.00				04/26/05	37.03	35.38	
5,587.15				05/24/05	36.88	35.23	
5,587.38				06/30/05	36.65	35.00	
5,587.38				07/29/05	36.65	35.00	
5,587.74				09/12/05	36.29	34.64	
5,588.23				12/07/05	35.80	34.15	
5,588.72				03/08/06	35.31	33.66	
5,588.14				06/13/06	35.89	34.24	
5,588.13				07/18/06	35.90	34.25	
5,584.50				11/07/06	39.53	37.88	
5588.65				02/27/07	35.38	33.73	

Water Levels and Data over Time
White Mesa Mill - Well TW4-12

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,622.38	5,624.03	1.65				121.33
5,588.33				05/02/07	35.70	34.05	
5,586.29				08/14/07	37.74	36.09	
5,586.48				10/10/07	37.55	35.90	
5,587.56				03/26/08	36.47	34.82	
5,587.39				06/24/08	36.64	34.99	
5,587.15				08/26/08	36.88	35.23	
5,586.64				10/14/08	37.39	35.74	
5,585.97				03/03/09	38.06	36.41	
5,585.54				06/24/09	38.49	36.84	
5,585.34				09/10/09	38.69	37.04	
5,585.57				12/11/09	38.46	36.81	
5,585.68				03/11/10	38.35	36.70	
5,586.15				05/11/10	37.88	36.23	
5,585.48				09/29/10	38.55	36.90	

Water Levels and Data over Time
White Mesa Mill - Well TW4-13

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,618.09	5,619.94	1.85				121.33
5,529.66				08/23/02	90.28	88.43	
5,530.66				09/11/02	89.28	87.43	
5,529.10				10/23/02	90.84	88.99	
5,530.58				11/22/02	89.36	87.51	
5,530.61				12/03/02	89.33	87.48	
5,529.74				01/09/03	90.20	88.35	
5,531.03				02/12/03	88.91	87.06	
5,531.82				03/26/03	88.12	86.27	
5,524.63				04/02/03	95.31	93.46	
5,531.54				05/01/03	88.40	86.55	
5,538.46				06/09/03	81.48	79.63	
5,539.38				07/07/03	80.56	78.71	
5,540.72				08/04/03	79.22	77.37	
5,541.25				09/11/03	78.69	76.84	
5,541.34				10/02/03	78.60	76.75	
5,541.69				11/07/03	78.25	76.40	
5,541.91				12/03/03	78.03	76.18	
5,542.44				01/15/04	77.50	75.65	
5,542.47				02/10/04	77.47	75.62	
5,542.84				03/28/04	77.10	75.25	
5,543.08				04/12/04	76.86	75.01	
5,543.34				05/13/04	76.60	74.75	
5,543.40				06/18/04	76.54	74.69	
5,544.06				07/28/04	75.88	74.03	
5,544.61				08/30/04	75.33	73.48	
5,545.23				09/16/04	74.71	72.86	
5,546.20				10/11/04	73.74	71.89	
5,547.43				11/16/04	72.51	70.66	
5,548.96				12/22/04	70.98	69.13	
5,549.02				01/18/05	70.92	69.07	
5,550.66				02/28/05	69.28	67.43	
5,551.26				03/15/05	68.68	66.83	
5,552.23				04/26/05	67.71	65.86	
5,552.87				05/24/05	67.07	65.22	
5,553.42				06/30/05	66.52	64.67	
5,554.00				07/29/05	65.94	64.09	
5,555.21				09/12/05	64.73	62.88	
5,558.13				12/07/05	61.81	59.96	
5,562.93				03/08/06	57.01	55.16	
5,564.39				06/13/06	55.55	53.70	
5,562.09				07/18/06	57.85	56.00	
5,565.49				11/07/06	54.45	52.60	
5571.08				02/27/07	48.86	47.01	

Water Levels and Data over Time
White Mesa Mill - Well TW4-13

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,618.09	5,619.94	1.85				121.33
5,570.63				05/02/07	49.31	47.46	
5,565.24				08/14/07	54.7	52.85	
5,565.83				10/10/07	54.11	52.26	
5,569.29				03/26/08	50.65	48.80	
5,570.00				06/24/08	49.94	48.09	
5,570.41				08/26/08	49.53	47.68	
5,570.64				10/14/08	49.3	47.45	
5,570.43				03/03/09	49.51	47.66	
5,570.56				06/24/09	49.38	47.53	
5,570.42				09/10/09	49.52	47.67	
5,571.15				12/11/09	48.79	46.94	
5,572.01				03/11/10	47.93	46.08	
5,572.88				05/11/10	47.06	45.21	
5,573.17				09/29/10	46.77	44.92	

Water Levels and Data over Time
White Mesa Mill - Well TW4-14

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,610.92	5,612.77	1.85				121.33
5,518.90				08/23/02	93.87	92.02	
5,519.28				09/11/02	93.49	91.64	
5,519.95				10/23/02	92.82	90.97	
5,520.32				11/22/02	92.45	90.60	
5,520.42				12/03/02	92.35	90.50	
5,520.70				01/09/03	92.07	90.22	
5,520.89				02/12/03	91.88	90.03	
5,521.12				03/26/03	91.65	89.80	
5,521.12				04/02/03	91.65	89.80	
5,521.24				05/01/03	91.53	89.68	
5,521.34				06/09/03	91.43	89.58	
5,521.36				07/07/03	91.41	89.56	
5,521.35				08/04/03	91.42	89.57	
5,521.30				09/11/03	91.47	89.62	
5,521.35				10/02/03	91.42	89.57	
5,521.36				11/07/03	91.41	89.56	
5,521.16				12/03/03	91.61	89.76	
5,521.29				01/15/04	91.48	89.63	
5,521.36				02/10/04	91.41	89.56	
5,521.46				03/28/04	91.31	89.46	
5,521.54				04/12/04	91.23	89.38	
5,521.59				05/13/04	91.18	89.33	
5,521.69				06/18/04	91.08	89.23	
5,521.71				07/28/04	91.06	89.21	
5,521.76				08/30/04	91.01	89.16	
5,521.77				09/16/04	91.00	89.15	
5,521.79				10/11/04	90.98	89.13	
5,521.80				11/16/04	90.97	89.12	
5,521.82				12/22/04	90.95	89.10	
5,521.82				01/18/05	90.95	89.10	
5,521.86				02/28/05	90.91	89.06	
5,521.85				03/15/05	90.92	89.07	
5,521.91				04/26/05	90.86	89.01	
5,521.93				05/24/05	90.84	88.99	
5,521.94				06/30/05	90.83	88.98	
5,521.84				07/29/05	90.93	89.08	
5,521.99				09/12/05	90.78	88.93	
5,522.04				12/07/05	90.73	88.88	
5,522.05				03/08/06	90.72	88.87	
5,522.27				06/13/06	90.50	88.65	
5,521.92				07/18/06	90.85	89.00	
5,520.17				11/07/06	92.60	90.75	
5522.24				02/27/07	90.53	88.68	

Water Levels and Data over Time
White Mesa Mill - Well TW4-14

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,610.92	5,612.77	1.85				121.33
5,522.47				05/02/07	90.30	88.45	
5,520.74				08/14/07	92.03	90.18	
5,518.13				10/10/07	94.64	92.79	
5,522.85				03/26/08	89.92	88.07	
5,522.91				06/24/08	89.86	88.01	
5,523.01				08/26/08	89.76	87.91	
5,522.96				10/14/08	89.81	87.96	
5,523.20				03/03/09	89.57	87.72	
5,523.33				06/24/09	89.44	87.59	
5,523.47				09/10/09	89.3	87.45	
5,523.54				12/11/09	89.23	87.38	
5,522.98				03/11/10	89.79	87.94	
5,524.01				05/11/10	88.76	86.91	
5,524.37				09/29/10	88.40	86.55	

Water Levels and Data over Time
White Mesa Mill - Well TW4-15 (MW-26)

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,624.15	5,625.45	1.30				121.33
5,574.75				08/23/02	50.70	49.40	
5,574.97				09/11/02	50.48	49.18	
5,575.10				10/23/02	50.35	49.05	
5,574.99				11/22/02	50.46	49.16	
5,575.28				12/03/02	50.17	48.87	
5,575.41				01/09/03	50.04	48.74	
5,575.43				02/12/03	50.02	48.72	
5,575.63				03/26/03	49.82	48.52	
5,575.91				04/02/03	49.54	48.24	
5,575.81				05/01/03	49.64	48.34	
5,572.36				06/09/03	53.09	51.79	
5,570.70				07/07/03	54.75	53.45	
5,570.29				08/04/03	55.16	53.86	
5,560.94				09/11/03	64.51	63.21	
5,560.63				10/02/03	64.82	63.52	
5,560.56				11/07/03	64.89	63.59	
5,564.77				12/03/03	60.68	59.38	
5,570.89				01/15/04	54.56	53.26	
5,572.55				02/10/04	52.90	51.60	
5,574.25				03/28/04	51.20	49.90	
5,574.77				04/12/04	50.68	49.38	
5,575.53				05/13/04	49.92	48.62	
5,575.59				06/18/04	49.86	48.56	
5,576.82				07/28/04	48.63	47.33	
5,527.47				09/16/04	97.98	96.68	
5,553.97				11/16/04	71.48	70.18	
5,562.33				12/22/04	63.12	61.82	
5,550.00				01/18/05	75.45	74.15	
5,560.02				04/26/05	65.43	64.13	
5,546.11				05/24/05	79.34	78.04	
5,556.71				06/30/05	68.74	67.44	
5,554.95				07/29/05	70.50	69.20	
5,555.48				09/12/05	69.97	68.67	
5,551.09				12/07/05	74.36	73.06	
5,552.85				03/08/06	72.60	71.30	
5,554.30				06/13/06	71.15	69.85	
5,554.87				07/18/06	70.58	69.28	
5,550.88				11/07/06	74.57	73.27	
5558.77				02/27/07	66.68	65.38	
5,548.54				05/02/07	76.91	75.61	
5,551.33				10/10/07	74.12	72.82	
5,545.56				03/26/08	79.89	78.59	
5,545.56				06/25/08	79.89	78.59	

Water Levels and Data over Time
White Mesa Mill - Well TW4-15 (MW-26)

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,624.15	5,625.45	1.30				121.33
5,545.82				08/26/08	79.63	78.33	
5,545.64				10/14/08	79.81	78.51	
5,544.45				03/03/09	81.00	79.70	
5,545.32				06/24/09	80.13	78.83	
5,544.61				09/10/09	80.84	79.54	
5,549.33				12/11/09	76.12	74.82	
5,543.78				03/11/10	81.67	80.37	
5,545.61				05/11/10	79.84	78.54	
5,547.43				09/29/10	78.02	76.72	

Water Levels and Data over Time
White Mesa Mill - Well TW4-16

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,622.19	5,624.02	1.83				121.33
5,562.91				08/23/02	61.11	59.28	
5,563.45				09/11/02	60.57	58.74	
5,563.75				10/23/02	60.27	58.44	
5,563.68				11/22/02	60.34	58.51	
5,563.68				12/03/02	60.34	58.51	
5,564.16				01/09/03	59.86	58.03	
5,564.25				02/12/03	59.77	57.94	
5,564.53				03/26/03	59.49	57.66	
5,564.46				04/02/03	59.56	57.73	
5,564.79				05/01/03	59.23	57.40	
5,564.31				06/09/03	59.71	57.88	
5,563.29				07/07/03	60.73	58.90	
5,562.76				08/04/03	61.26	59.43	
5,561.73				09/11/03	62.29	60.46	
5,561.04				10/02/03	62.98	61.15	
5,560.39				11/07/03	63.63	61.80	
5,559.79				12/03/03	64.23	62.40	
5,561.02				01/15/04	63	61.17	
5,561.75				02/10/04	62.27	60.44	
5,562.98				03/28/04	61.04	59.21	
5,563.29				04/12/04	60.73	58.90	
5,564.03				05/13/04	59.99	58.16	
5,564.09				06/18/04	59.93	58.10	
5,565.08				07/28/04	58.94	57.11	
5,564.56				08/30/04	59.46	57.63	
5,563.55				09/16/04	60.47	58.64	
5,561.79				10/11/04	62.23	60.40	
5,560.38				11/16/04	63.64	61.81	
5,559.71				12/22/04	64.31	62.48	
5,559.14				01/18/05	64.88	63.05	
5,558.65				02/28/05	65.37	63.54	
5,558.54				03/15/05	65.48	63.65	
5,558.22				04/26/05	65.8	63.97	
5,558.54				05/24/05	65.48	63.65	
5,559.24				06/30/05	64.78	62.95	
5,559.38				07/29/05	64.64	62.81	
5,559.23				09/12/05	64.79	62.96	
5,557.67				12/07/05	66.35	64.52	
5,557.92				03/08/06	66.10	64.27	
5,558.47				06/13/06	65.55	63.72	
5,558.42				07/18/06	65.60	63.77	
5,558.09				11/07/06	65.93	64.10	
5557.34				02/27/07	66.68	64.85	

Water Levels and Data over Time
White Mesa Mill - Well TW4-16

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,622.19	5,624.02	1.83				121.33
5,547.11				05/02/07	76.91	75.08	
5,558.52				08/14/07	65.5	63.67	
5,559.02				10/10/07	65.00	63.17	
5,561.04				03/26/08	62.98	61.15	
5,560.06				06/24/08	63.96	62.13	
5,559.32				08/26/08	64.7	62.87	
5,558.89				10/14/08	65.13	63.30	
5,558.40				03/03/09	65.62	63.79	
5,558.32				06/24/09	65.7	63.87	
5,558.03				09/10/09	65.99	64.16	
5,558.81				12/11/09	65.21	63.38	
5,559.80				03/11/10	64.22	62.39	
5,559.85				05/11/10	64.17	62.34	
5,560.54				09/29/10	63.48	61.65	

Water Levels and Data over Time
White Mesa Mill - Well TW4-17 (MW-32)

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,623.41	5,625.24	1.83				121.33
5,542.17				08/23/02	83.07	81.24	
5,542.39				09/11/02	82.85	81.02	
5,542.61				10/23/02	82.63	80.80	
5,542.49				11/22/02	82.75	80.92	
5,542.82				12/03/02	82.42	80.59	
5,543.03				01/09/03	82.21	80.38	
5,543.04				02/12/03	82.20	80.37	
5,543.41				03/26/03	81.83	80.00	
5,543.69				04/02/03	81.55	79.72	
5,543.77				05/01/03	81.47	79.64	
5,544.01				06/09/03	81.23	79.40	
5,544.05				07/07/03	81.19	79.36	
5,543.99				08/04/03	81.25	79.42	
5,544.17				09/11/03	81.07	79.24	
5,544.06				10/02/03	81.18	79.35	
5,544.03				11/07/03	81.21	79.38	
5,543.94				12/03/03	81.30	79.47	
5,543.98				01/15/04	81.26	79.43	
5,543.85				02/10/04	81.39	79.56	
5,544.05				03/28/04	81.19	79.36	
5,544.33				04/12/04	80.91	79.08	
5,544.55				05/13/04	80.69	78.86	
5,544.59				06/18/04	80.65	78.82	
5,545.08				07/28/04	80.16	78.33	
5,545.26				08/30/04	79.98	78.15	
5,545.48				09/16/04	79.76	77.93	
5,545.61				10/11/04	79.63	77.80	
5,545.46				11/16/04	79.78	77.95	
5,545.66				12/22/04	79.58	77.75	
5,545.33				01/18/05	79.91	78.08	
5,545.51				02/28/05	79.73	77.90	
5,545.57				03/15/05	79.67	77.84	
5,545.46				04/26/05	79.78	77.95	
5,545.45				05/24/05	79.79	77.96	
5,545.33				06/30/05	79.91	78.08	
5,545.16				07/29/05	80.08	78.25	
5,545.54				09/12/05	79.70	77.87	
5,545.77				12/07/05	79.47	77.64	
5,546.09				03/08/06	79.15	77.32	
5,545.94				06/13/06	79.30	77.47	
5,545.94				07/18/06	79.30	77.47	
5,546.24				11/07/06	79.00	77.17	
5546.81				02/27/07	78.43	76.6	

Water Levels and Data over Time
White Mesa Mill - Well TW4-17 (MW-32)

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,623.41	5,625.24	1.83				121.33
5546.56				05/02/07	78.68	76.85	
5546.81				08/15/07	78.43	76.6	
5546.96				10/10/07	78.28	76.45	
5547.9				03/26/08	77.34	75.51	
5548.08				06/25/08	77.16	75.33	
5548.42				08/26/08	76.82	74.99	
5548.05				10/14/08	77.19	75.36	
5548.29				03/03/09	76.95	75.12	
5548.09				06/24/09	77.15	75.32	
5547.79				09/10/09	77.45	75.62	
5548.09				12/11/09	77.15	75.32	
5,548.50				03/11/10	76.74	74.91	
5,548.89				05/11/10	76.35	74.52	
5,548.83				09/29/10	76.41	74.58	

Water Levels and Data over Time
White Mesa Mill - Well TW4-18

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,639.13	5,641.28	2.15				121.33
5,585.13				08/23/02	56.15	54.00	
5,585.41				09/11/02	55.87	53.72	
5,585.47				10/23/02	55.81	53.66	
5,585.40				11/22/02	55.88	53.73	
5,585.68				12/03/02	55.60	53.45	
5,585.90				01/09/03	55.38	53.23	
5,590.79				02/12/03	50.49	48.34	
5,586.18				03/26/03	55.10	52.95	
5,586.36				04/02/03	54.92	52.77	
5,586.24				05/01/03	55.04	52.89	
5,584.93				06/09/03	56.35	54.20	
5,584.46				07/07/03	56.82	54.67	
5,584.55				08/04/03	56.73	54.58	
5,584.01				09/11/03	57.27	55.12	
5,583.67				10/02/03	57.61	55.46	
5,583.50				11/07/03	57.78	55.63	
5,584.08				12/03/03	57.20	55.05	
5,585.45				01/15/04	55.83	53.68	
5,585.66				02/10/04	55.62	53.47	
5,586.13				03/28/04	55.15	53.00	
5,586.39				04/12/04	54.89	52.74	
5,586.66				05/13/04	54.62	52.47	
5,586.77				06/18/04	54.51	52.36	
5,587.35				07/28/04	53.93	51.78	
5,586.34				08/30/04	54.94	52.79	
5,585.85				09/16/04	55.43	53.28	
5,585.22				10/11/04	56.06	53.91	
5,584.70				11/16/04	56.58	54.43	
5,584.81				12/22/04	56.47	54.32	
5,584.68				01/18/05	56.60	54.45	
5,585.02				02/28/05	56.26	54.11	
5,585.25				03/15/05	56.03	53.88	
5,586.31				04/26/05	54.97	52.82	
5,586.97				05/24/05	54.31	52.16	
5,586.58				06/30/05	54.70	52.55	
5,586.10				07/29/05	55.18	53.03	
5,586.05				09/12/05	55.23	53.08	
5,585.86				12/07/05	55.42	53.27	
5,587.13				03/08/06	54.15	52.00	
5,585.93				06/13/06	55.35	53.20	
5,585.40				07/18/06	55.88	53.73	
5,585.38				11/07/06	55.90	53.75	
5585.83				02/27/07	55.45	53.30	

Water Levels and Data over Time
White Mesa Mill - Well TW4-18

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,639.13	5,641.28	2.15				121.33
5585.15				05/02/07	56.13	53.98	
5586.47				06/24/08	54.81	52.66	
5586.3				08/26/08	54.98	52.83	
5585.21				10/14/08	56.07	53.92	
5584.47				03/03/09	56.81	54.66	
5584.35				06/24/09	56.93	54.78	
5583.88				09/10/09	57.4	55.25	
5584.43				12/11/09	56.85	54.70	
5,585.26				03/11/10	56.02	53.87	
5,584.17				05/11/10	57.11	54.96	
5,583.61				09/29/10	57.67	55.52	

Water Levels and Data over Time
White Mesa Mill - Well TW4-19

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,629.53	5,631.39	1.86				121.33
5,581.88				08/23/02	49.51	47.65	
5,582.14				09/11/02	49.25	47.39	
5,582.06				10/23/02	49.33	47.47	
5,582.07				11/22/02	49.32	47.46	
5,582.16				12/03/02	49.23	47.37	
5,582.28				01/09/03	49.11	47.25	
5,582.29				02/21/03	49.10	47.24	
5,582.74				03/26/03	48.65	46.79	
5,582.82				04/02/03	48.57	46.71	
5,548.47				05/01/03	82.92	81.06	
5,564.76				06/09/03	66.63	64.77	
5,562.53				07/07/03	68.86	67.00	
5,564.10				08/04/03	67.29	65.43	
5,566.01				08/30/04	65.38	63.52	
5,555.16				09/16/04	76.23	74.37	
5,549.80				10/11/04	81.59	79.73	
5,546.04				11/16/04	85.35	83.49	
5,547.34				12/22/04	84.05	82.19	
5,548.77				01/18/05	82.62	80.76	
5,551.18				02/28/05	80.21	78.35	
5,556.81				03/15/05	74.58	72.72	
5,562.63				04/26/05	68.76	66.90	
5,573.42				05/24/05	57.97	56.11	
5,552.94				07/29/05	78.45	76.59	
5,554.00				09/12/05	77.39	75.53	
5,555.98				12/07/05	75.41	73.55	
5,552.00				03/08/06	79.39	77.53	
5,545.74				06/13/06	85.65	83.79	
5,544.06				07/18/06	87.33	85.47	
5,548.81				11/07/06	82.58	80.72	
5543.59				02/27/07	87.8	85.94	
5544.55				05/02/07	86.84	84.98	
5558.97				08/15/07	72.42	70.56	
5559.73				10/10/07	71.66	69.8	
5569.26				03/26/08	62.13	60.27	
5535.47				06/25/08	95.92	94.06	
5541.41				08/26/08	89.98	88.12	
5558.45				10/14/08	72.94	71.08	
5536.9				03/03/09	94.49	92.63	
5547.76				06/24/09	83.63	81.77	
5561.48				09/10/09	69.91	68.05	
5548.14				12/11/09	83.25	81.39	
5,570.58				03/11/10	60.81	58.95	

Water Levels and Data over Time
White Mesa Mill - Well TW4-19

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,629.53	5,631.39	1.86				121.33
5,561.35				05/11/10	70.04	68.18	
5,535.26				09/29/10	96.13	94.27	

Water Levels and Data over Time
White Mesa Mill - Well TW4-20

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,628.52	5,629.53	1.01				106.0
5,565.70				07/29/05	63.83	62.82	
5,546.53				08/30/05	83.00	81.99	
5,540.29				09/12/05	89.24	88.23	
5,541.17				12/07/05	88.36	87.35	
5,540.33				03/08/06	89.20	88.19	
5,530.43				06/13/06	99.10	98.09	
5,569.13				07/18/06	60.40	59.39	
5,547.95				11/07/06	81.58	80.57	
5,549.25				02/27/07	80.28	79.27	
5,550.58				05/02/07	78.95	77.94	
5,563.60				08/14/07	65.93	64.92	
5,555.85				10/10/07	73.68	72.67	
5,569.10				03/26/08	60.43	59.42	
5,560.00				06/25/08	69.53	68.52	
5,539.64				08/26/08	89.89	88.88	
5,539.51				10/14/08	90.02	89.01	
5,553.00				03/03/09	76.53	75.52	
5,534.18				06/24/09	95.35	94.34	
5,558.39				09/10/09	71.14	70.13	
5,560.99				12/11/09	68.54	67.53	
5,564.09				03/11/10	65.44	64.43	
5,564.22				05/11/10	65.31	64.30	
5,560.33				09/29/10	69.20	68.19	

Water Levels and Data over Time
White Mesa Mill - Well TW4-21

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,638.20	5,639.35	1.15				120.92
5,582.98				07/29/05	56.37	55.22	
5,583.43				08/30/05	55.92	54.77	
5,581.87				09/12/05	57.48	56.33	
5,580.50				12/07/05	58.85	57.70	
5,583.64				03/08/06	55.71	54.56	
5,580.55				06/13/06	58.80	57.65	
5,578.95				07/18/06	60.40	59.25	
5,578.47				11/07/06	60.88	59.73	
5,579.53				02/27/07	59.82	58.67	
5,578.07				05/02/07	61.28	60.13	
5,583.41				08/15/07	55.94	54.79	
5,583.45				10/10/07	55.9	54.75	
5,586.47				03/26/08	52.88	51.73	
5,579.16				06/24/08	60.19	59.04	
5,579.92				08/26/08	59.43	58.28	
5,577.37				10/14/08	61.98	60.83	
5,578.00				03/10/09	61.35	60.20	
5,580.14				06/24/09	59.21	58.06	
5,578.72				09/10/09	60.63	59.48	
5,579.99				12/11/09	59.36	58.21	
5,582.81				03/11/10	56.54	55.39	
5,582.23				05/11/10	57.12	55.97	
5,576.60				09/29/10	62.75	61.60	

Water Levels and Data over Time
White Mesa Mill - Well TW4-22

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,627.83	5,629.00	1.17				113.5
5,571.89				07/29/05	57.11	55.94	
5,572.20				08/30/05	56.80	55.63	
5,572.08				09/12/05	56.92	55.75	
5,571.61				12/07/05	57.39	56.22	
5,571.85				03/08/06	57.15	55.98	
5,571.62				06/13/06	57.38	56.21	
5,571.42				07/18/06	57.58	56.41	
5,571.02				11/07/06	57.98	56.81	
5571.24				02/27/07	57.76	56.59	
5,570.75				06/29/07	58.25	57.08	
5,571.82				08/14/07	57.18	56.01	
5,571.99				10/10/07	57.01	55.84	
5,573.05				03/26/08	55.95	54.78	
5,573.04				06/24/08	55.96	54.79	
5,573.04				08/26/08	55.96	54.79	
5,573.02				10/14/08	55.98	54.81	
5,573.19				03/10/09	55.81	54.64	
5,573.32				06/24/09	55.68	54.51	
5,573.17				09/10/09	55.83	54.66	
5,573.52				12/11/09	55.48	54.31	
5,573.88				03/11/10	55.12	53.95	
5,574.29				05/11/10	54.71	53.54	
5,574.88				09/29/10	54.12	52.95	

Water Levels and Data over Time
White Mesa Mill - Well TW4-23

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,627.83	5,629.00	1.17				113.5
5,560.52				09/13/07	68.48	67.31	
5,560.43				10/10/07	68.57	67.40	
5,560.88				11/30/07	68.12	66.95	
5,561.12				12/11/07	67.88	66.71	
5,560.82				01/08/08	68.18	67.01	
5,561.07				02/18/08	67.93	66.76	
5,561.17				03/26/08	67.83	66.66	
5,561.34				04/23/08	67.66	66.49	
5561.11				05/30/08	67.89	66.72	
5,561.16				06/24/08	67.84	66.67	
5,561.07				07/16/08	67.93	66.76	
5,561.31				08/26/08	67.69	66.52	
5,562.81				09/10/08	66.19	65.02	
5,561.20				10/14/08	67.8	66.63	
5,560.92				11/26/08	68.08	66.91	
5,561.18				12/29/08	67.82	66.65	
5,561.78				01/26/09	67.22	66.05	
5,561.37				02/24/09	67.63	66.46	
5,561.49				03/06/09	67.51	66.34	
5,561.35				04/07/09	67.65	66.48	
5,561.47				05/29/09	67.53	66.36	
5,561.75				06/30/09	67.25	66.08	
5,561.75				07/31/09	67.25	66.08	
5,561.90				08/31/09	67.1	65.93	
5,561.76				09/10/09	67.24	66.07	
5,562.27				12/11/09	66.73	65.56	
5,562.78				03/11/10	66.22	65.05	
5,563.24				05/11/10	65.76	64.59	
5,563.10				09/29/10	65.90	64.73	

Water Levels and Data over Time
White Mesa Mill - Well TW4-24

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,627.83	5,625.70	-2.13				113.5
5,568.48				09/13/07	57.22	59.35	
5,568.40				10/10/07	57.30	59.43	
5,569.03				11/30/07	56.67	58.80	
5,569.17				12/11/07	56.53	58.66	
5,568.90				01/08/08	56.80	58.93	
5,569.09				02/18/08	56.61	58.74	
5,569.30				03/26/08	56.40	58.53	
5,569.55				04/23/08	56.15	58.28	
5569.39				05/30/08	56.31	58.44	
5,569.21				06/24/08	56.49	58.62	
5,569.15				07/16/08	56.55	58.68	
5,569.21				08/26/08	56.49	58.62	
5,569.10				09/10/08	56.60	58.73	
5,568.99				10/14/08	56.71	58.84	
5,568.82				11/26/08	56.88	59.01	
5,568.79				12/29/08	56.91	59.04	
5,569.52				01/26/09	56.18	58.31	
5,569.18				02/24/09	56.52	58.65	
5,569.24				03/06/09	56.46	58.59	
5,569.08				04/07/09	56.62	58.75	
5,569.10				05/29/09	56.60	58.73	
5,569.29				06/30/09	56.41	58.54	
5,569.25				07/31/09	56.45	58.58	
5,569.35				08/31/09	56.35	58.48	
5,569.15				09/10/09	56.55	58.68	
5,569.51				12/11/09	56.19	58.32	
5,569.73				03/11/10	55.97	58.10	
5,569.78				05/11/10	55.92	58.05	

Water Levels and Data over Time
White Mesa Mill - Well TW4-25

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,627.83	5,644.91	17.08				113.5
5,601.86				09/13/07	43.05	25.97	
5,601.89				10/10/07	43.02	25.94	
5,602.57				11/30/07	42.34	25.26	
5,602.82				12/11/07	42.09	25.01	
5,601.94				01/08/08	42.97	25.89	
5,599.13				02/18/08	45.78	28.70	
5,597.11				03/26/08	47.80	30.72	
5,595.51				04/23/08	49.40	32.32	
5594.42				05/30/08	50.49	33.41	
5,594.26				06/24/08	50.65	33.57	
5,586.67				07/16/08	58.24	41.16	
5,594.17				08/26/08	50.74	33.66	
5,594.23				09/10/08	50.68	33.60	
5,594.12				10/14/08	50.79	33.71	
5,594.06				11/26/08	50.85	33.77	
5,594.87				12/29/08	50.04	32.96	
5,595.89				01/26/09	49.02	31.94	
5,596.27				02/24/09	48.64	31.56	
5,596.47				03/06/09	48.44	31.36	
5,596.74				04/07/09	48.17	31.09	
5,597.55				05/29/09	47.36	30.28	
5,598.11				06/30/09	46.8	29.72	
5,598.22				07/31/09	46.69	29.61	
5,598.52				08/31/09	46.39	29.31	
5,598.49				09/10/09	46.42	29.34	
5,599.48				12/11/09	45.43	28.35	
5,599.75				03/11/10	45.16	28.08	
5,599.63				05/11/10	45.28	28.20	
5,598.68				09/29/10	46.23	29.15	

Water Levels and Data over Time
White Mesa Mill - Well TW4-26

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,599.98	5,601.68	1.70				86
5,536.90				06/14/10	64.78	63.08	
5,536.95				09/29/10	64.73	63.03	

Tab H

Laboratory Analytical Reports

LABORATORY ANALYTICAL REPORT

Revised Date: 10/22/10
Report Date: 09/08/10
Collection Date: 08/16/10 10:33
DateReceived: 08/20/10
Matrix: Aqueous

Client: Denison Mines USA Corp
Project: 3rd Quarter Chloroform
Lab ID: C10080785-007
Client Sample ID: MW-4

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	38	mg/L		1		A4500-Cl B	08/31/10 14:14 / ljl
Nitrogen, Nitrate+Nitrite as N	4.8	mg/L	D	0.5		E353.2	09/02/10 14:15 / ljl
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	1.5	ug/L		1.0		SW8260B	08/30/10 18:40 / jlr
Chloroform	1900	ug/L	D	100		SW8260B	08/27/10 19:52 / jlr
Chloromethane	ND	ug/L		1.0		SW8260B	08/30/10 18:40 / jlr
Methylene chloride	ND	ug/L		1.0		SW8260B	08/30/10 18:40 / jlr
Surr: 1,2-Dichlorobenzene-d4	105	%REC		80-120		SW8260B	08/30/10 18:40 / jlr
Surr: Dibromofluoromethane	107	%REC		70-130		SW8260B	08/30/10 18:40 / jlr
Surr: p-Bromofluorobenzene	112	%REC		80-120		SW8260B	08/30/10 18:40 / jlr
Surr: Toluene-d8	87.0	%REC		80-120		SW8260B	08/30/10 18:40 / jlr

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Client: Denison Mines USA Corp
Project: 3rd Quarter Chloroform
Lab ID: C10080785-005
Client Sample ID: TW4-1

Revised Date: 10/22/10
Report Date: 09/08/10
Collection Date: 08/18/10 08:37
DateReceived: 08/20/10
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	35	mg/L		1		A4500-Cl B	08/31/10 14:10 / ljl
Nitrogen, Nitrate+Nitrite as N	6.7	mg/L	D	0.5		E353.2	09/02/10 14:10 / ljl
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	1.0	ug/L		1.0		SW8260B	08/30/10 21:02 / jlr
Chloroform	1600	ug/L	D	100		SW8260B	08/27/10 18:42 / jlr
Chloromethane	ND	ug/L		1.0		SW8260B	08/30/10 21:02 / jlr
Methylene chloride	ND	ug/L		1.0		SW8260B	08/30/10 21:02 / jlr
Surr: 1,2-Dichlorobenzene-d4	105	%REC		80-120		SW8260B	08/30/10 21:02 / jlr
Surr: Dibromofluoromethane	109	%REC		70-130		SW8260B	08/30/10 21:02 / jlr
Surr: p-Bromofluorobenzene	112	%REC		80-120		SW8260B	08/30/10 21:02 / jlr
Surr: Toluene-d8	86.0	%REC		80-120		SW8260B	08/30/10 21:02 / jlr

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Revised Date: 10/22/10
Client: Denison Mines USA Corp
Report Date: 09/08/10
Project: 3rd Quarter Chloroform
Collection Date: 08/17/10 09:20
Lab ID: C10080785-014
DateReceived: 08/20/10
Client Sample ID: TW4-1R
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	ND	mg/L		1		A4500-Cl B	08/31/10 14:40 / ljl
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	09/02/10 14:38 / ljl
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	08/30/10 22:50 / jlr
Chloroform	1.6	ug/L		1.0		SW8260B	08/30/10 22:50 / jlr
Chloromethane	ND	ug/L		1.0		SW8260B	08/30/10 22:50 / jlr
Methylene chloride	ND	ug/L		1.0		SW8260B	08/30/10 22:50 / jlr
Surr: 1,2-Dichlorobenzene-d4	104	%REC		80-120		SW8260B	08/30/10 22:50 / jlr
Surr: Dibromofluoromethane	104	%REC		70-130		SW8260B	08/30/10 22:50 / jlr
Surr: p-Bromofluorobenzene	112	%REC		80-120		SW8260B	08/30/10 22:50 / jlr
Surr: Toluene-d8	87.0	%REC		80-120		SW8260B	08/30/10 22:50 / jlr

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Client: Denison Mines USA Corp
Project: 3rd Quarter Chloroform
Lab ID: C10080785-008
Client Sample ID: TW4-2

Revised Date: 10/22/10
Report Date: 09/08/10
Collection Date: 08/18/10 08:17
DateReceived: 08/20/10
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	43	mg/L		1		A4500-Cl B	08/31/10 14:16 / ljl
Nitrogen, Nitrate+Nitrite as N	6.6	mg/L	D	0.5		E353.2	09/02/10 14:18 / ljl
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	2.5	ug/L		1.0		SW8260B	08/30/10 19:16 / jlr
Chloroform	3300	ug/L	D	1000		SW8260B	08/27/10 20:28 / jlr
Chloromethane	ND	ug/L		1.0		SW8260B	08/30/10 19:16 / jlr
Methylene chloride	ND	ug/L		1.0		SW8260B	08/30/10 19:16 / jlr
Surr: 1,2-Dichlorobenzene-d4	105	%REC		80-120		SW8260B	08/30/10 19:16 / jlr
Surr: Dibromofluoromethane	103	%REC		70-130		SW8260B	08/30/10 19:16 / jlr
Surr: p-Bromofluorobenzene	113	%REC		80-120		SW8260B	08/30/10 19:16 / jlr
Surr: Toluene-d8	87.0	%REC		80-120		SW8260B	08/30/10 19:16 / jlr

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Client: Denison Mines USA Corp
Project: 3rd Quarter Chloroform
Lab ID: C10080785-015
Client Sample ID: TW4-2R

Revised Date: 10/22/10
Report Date: 09/08/10
Collection Date: 08/17/10 10:03
DateReceived: 08/20/10
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	ND	mg/L		1		A4500-Cl B	08/31/10 14:42 / ljl
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	09/02/10 14:40 / ljl
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	08/31/10 00:03 / jlr
Chloroform	1.7	ug/L		1.0		SW8260B	08/31/10 00:03 / jlr
Chloromethane	ND	ug/L		1.0		SW8260B	08/31/10 00:03 / jlr
Methylene chloride	ND	ug/L		1.0		SW8260B	08/31/10 00:03 / jlr
Surr: 1,2-Dichlorobenzene-d4	103	%REC		80-120		SW8260B	08/31/10 00:03 / jlr
Surr: Dibromofluoromethane	106	%REC		70-130		SW8260B	08/31/10 00:03 / jlr
Surr: p-Bromofluorobenzene	112	%REC		80-120		SW8260B	08/31/10 00:03 / jlr
Surr: Toluene-d8	87.0	%REC		80-120		SW8260B	08/31/10 00:03 / jlr

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Client: Denison Mines USA Corp
Project: 3rd Quarter Chloroform 2010
Lab ID: C10080518-001
Client Sample ID: TW4-3

Report Date: 09/03/10
Collection Date: 08/10/10 06:27
DateReceived: 08/13/10
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	22	mg/L		1		A4500-Cl B	08/24/10 10:49 / lr
Nitrogen, Nitrate+Nitrite as N	3.1	mg/L	D	0.2		E353.2	08/26/10 12:49 / ljl
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	08/18/10 13:35 / jlr
Chloroform	ND	ug/L		1.0		SW8260B	08/18/10 13:35 / jlr
Chloromethane	ND	ug/L		1.0		SW8260B	08/18/10 13:35 / jlr
Methylene chloride	ND	ug/L		1.0		SW8260B	08/18/10 13:35 / jlr
Surr: 1,2-Dichlorobenzene-d4	106	%REC		80-120		SW8260B	08/18/10 13:35 / jlr
Surr: Dibromofluoromethane	108	%REC		70-130		SW8260B	08/18/10 13:35 / jlr
Surr: p-Bromofluorobenzene	107	%REC		80-120		SW8260B	08/18/10 13:35 / jlr
Surr: Toluene-d8	86.0	%REC		80-120		SW8260B	08/18/10 13:35 / jlr

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Client: Denison Mines USA Corp
Project: 3rd Quarter Chloroform 2010
Lab ID: C10080518-011
Client Sample ID: TW4-3R

Report Date: 09/03/10
Collection Date: 08/09/10 08:41
DateReceived: 08/13/10
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	ND	mg/L		1		A4500-Cl B	08/24/10 11:25 / lr
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	08/26/10 13:26 / ljl
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	08/18/10 23:37 / jlr
Chloroform	ND	ug/L		1.0		SW8260B	08/18/10 23:37 / jlr
Chloromethane	ND	ug/L		1.0		SW8260B	08/18/10 23:37 / jlr
Methylene chloride	ND	ug/L		1.0		SW8260B	08/18/10 23:37 / jlr
Surr: 1,2-Dichlorobenzene-d4	103	%REC		80-120		SW8260B	08/18/10 23:37 / jlr
Surr: Dibromofluoromethane	103	%REC		70-130		SW8260B	08/18/10 23:37 / jlr
Surr: p-Bromofluorobenzene	106	%REC		80-120		SW8260B	08/18/10 23:37 / jlr
Surr: Toluene-d8	88.0	%REC		80-120		SW8260B	08/18/10 23:37 / jlr

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Revised Date: 10/22/10
Report Date: 09/08/10
Collection Date: 08/16/10 10:52
DateReceived: 08/20/10
Matrix: Aqueous

Client: Denison Mines USA Corp
Project: 3rd Quarter Chloroform
Lab ID: C10080785-006
Client Sample ID: TW4-4

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	36	mg/L		1		A4500-Cl B	08/31/10 14:12 / ljl
Nitrogen, Nitrate+Nitrite as N	7.3	mg/L	D	0.5		E353.2	09/02/10 14:13 / ljl
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	1.3	ug/L		1.0		SW8260B	08/30/10 18:04 / jlr
Chloroform	2100	ug/L	D	100		SW8260B	08/27/10 19:17 / jlr
Chloromethane	ND	ug/L		1.0		SW8260B	08/30/10 18:04 / jlr
Methylene chloride	ND	ug/L		1.0		SW8260B	08/30/10 18:04 / jlr
Surr: 1,2-Dichlorobenzene-d4	104	%REC		80-120		SW8260B	08/30/10 18:04 / jlr
Surr: Dibromofluoromethane	107	%REC		70-130		SW8260B	08/30/10 18:04 / jlr
Surr: p-Bromofluorobenzene	112	%REC		80-120		SW8260B	08/30/10 18:04 / jlr
Surr: Toluene-d8	87.0	%REC		80-120		SW8260B	08/30/10 18:04 / jlr

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Client: Denison Mines USA Corp
Project: 3rd Quarter Chloroform 2010
Lab ID: C10080518-021
Client Sample ID: TW4-5

Report Date: 09/03/10
Collection Date: 08/11/10 06:17
DateReceived: 08/13/10
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	38	mg/L		1		A4500-Cl B	08/24/10 11:52 / lr
Nitrogen, Nitrate+Nitrite as N	7	mg/L	D	1		E353.2	08/26/10 14:09 / ljl
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	08/20/10 17:30 / jlr
Chloroform	12	ug/L		1.0		SW8260B	08/20/10 17:30 / jlr
Chloromethane	ND	ug/L		1.0		SW8260B	08/20/10 17:30 / jlr
Methylene chloride	ND	ug/L		1.0		SW8260B	08/20/10 17:30 / jlr
Surr: 1,2-Dichlorobenzene-d4	111	%REC		80-120		SW8260B	08/20/10 17:30 / jlr
Surr: Dibromofluoromethane	100	%REC		70-130		SW8260B	08/20/10 17:30 / jlr
Surr: p-Bromofluorobenzene	122	%REC	S	80-120		SW8260B	08/20/10 17:30 / jlr
Surr: Toluene-d8	95.0	%REC		80-120		SW8260B	08/20/10 17:30 / jlr

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

LABORATORY ANALYTICAL REPORT

Client: Denison Mines USA Corp
Project: 3rd Quarter Chloroform 2010
Lab ID: C10080518-030
Client Sample ID: TW4-5R

Report Date: 09/03/10
Collection Date: 08/10/10 12:50
DateReceived: 08/13/10
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	ND	mg/L		1		A4500-Cl B	08/24/10 12:13 / lr
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	08/26/10 14:44 / ljl
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	08/20/10 16:20 / jlr
Chloroform	ND	ug/L		1.0		SW8260B	08/20/10 16:20 / jlr
Chloromethane	ND	ug/L		1.0		SW8260B	08/20/10 16:20 / jlr
Methylene chloride	ND	ug/L		1.0		SW8260B	08/20/10 16:20 / jlr
Surr: 1,2-Dichlorobenzene-d4	111	%REC		80-120		SW8260B	08/20/10 16:20 / jlr
Surr: Dibromofluoromethane	92.0	%REC		70-130		SW8260B	08/20/10 16:20 / jlr
Surr: p-Bromofluorobenzene	119	%REC		80-120		SW8260B	08/20/10 16:20 / jlr
Surr: Toluene-d8	94.0	%REC		80-120		SW8260B	08/20/10 16:20 / jlr

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Client: Denison Mines USA Corp
Project: 3rd Quarter Chloroform 2010
Lab ID: C10080518-027
Client Sample ID: TW4-6

Report Date: 09/03/10
Collection Date: 08/12/10 08:07
DateReceived: 08/13/10
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	31	mg/L		1		A4500-Cl B	08/24/10 12:07 / lr
Nitrogen, Nitrate+Nitrite as N	3.9	mg/L	D	0.2		E353.2	08/26/10 14:36 / ljl
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	08/26/10 18:56 / jlr
Chloroform	630	ug/L	D	100		SW8260B	08/21/10 04:07 / jlr
Chloromethane	ND	ug/L		1.0		SW8260B	08/26/10 18:56 / jlr
Methylene chloride	ND	ug/L		1.0		SW8260B	08/26/10 18:56 / jlr
Surr: 1,2-Dichlorobenzene-d4	105	%REC		80-120		SW8260B	08/26/10 18:56 / jlr
Surr: Dibromofluoromethane	112	%REC		70-130		SW8260B	08/26/10 18:56 / jlr
Surr: p-Bromofluorobenzene	111	%REC		80-120		SW8260B	08/26/10 18:56 / jlr
Surr: Toluene-d8	98.0	%REC		80-120		SW8260B	08/26/10 18:56 / jlr

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Client: Denison Mines USA Corp
Project: 3rd Quarter Chloroform 2010
Lab ID: C10080518-036
Client Sample ID: TW4-6R

Report Date: 09/03/10
Collection Date: 08/11/10 10:56
DateReceived: 08/13/10
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	ND	mg/L		1		A4500-Cl B	08/24/10 12:37 / lr
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	08/26/10 15:06 / ljl
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	08/20/10 23:58 / jlr
Chloroform	6.2	ug/L		1.0		SW8260B	08/20/10 23:58 / jlr
Chloromethane	ND	ug/L		1.0		SW8260B	08/20/10 23:58 / jlr
Methylene chloride	ND	ug/L		1.0		SW8260B	08/20/10 23:58 / jlr
Surr: 1,2-Dichlorobenzene-d4	114	%REC		80-120		SW8260B	08/20/10 23:58 / jlr
Surr: Dibromofluoromethane	119	%REC		70-130		SW8260B	08/20/10 23:58 / jlr
Surr: p-Bromofluorobenzene	113	%REC		80-120		SW8260B	08/20/10 23:58 / jlr
Surr: Toluene-d8	97.0	%REC		80-120		SW8260B	08/20/10 23:58 / jlr

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Revised Date: 10/22/10
Report Date: 09/08/10
Collection Date: 08/18/10 08:27
DateReceived: 08/20/10
Matrix: Aqueous

Client: Denison Mines USA Corp
Project: 3rd Quarter Chloroform
Lab ID: C10080785-004
Client Sample ID: TW4-7

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	36	mg/L		1		A4500-Cl B	08/31/10 14:08 / ljl
Nitrogen, Nitrate+Nitrite as N	3.9	mg/L	D	0.5		E353.2	09/02/10 14:00 / ljl
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	1.1	ug/L		1.0		SW8260B	08/30/10 20:27 / jlr
Chloroform	1500	ug/L	D	100		SW8260B	08/27/10 18:07 / jlr
Chloromethane	ND	ug/L		1.0		SW8260B	08/30/10 20:27 / jlr
Methylene chloride	ND	ug/L		1.0		SW8260B	08/30/10 20:27 / jlr
Surr: 1,2-Dichlorobenzene-d4	104	%REC		80-120		SW8260B	08/30/10 20:27 / jlr
Surr: Dibromofluoromethane	111	%REC		70-130		SW8260B	08/30/10 20:27 / jlr
Surr: p-Bromofluorobenzene	111	%REC		80-120		SW8260B	08/30/10 20:27 / jlr
Surr: Toluene-d8	86.0	%REC		80-120		SW8260B	08/30/10 20:27 / jlr

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Revised Date: 10/22/10
Report Date: 09/08/10
Collection Date: 08/17/10 08:36
DateReceived: 08/20/10
Matrix: Aqueous

Client: Denison Mines USA Corp
Project: 3rd Quarter Chloroform
Lab ID: C10080785-013
Client Sample ID: TW4-7R

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	ND	mg/L		1		A4500-Cl B	08/31/10 14:37 / ljl
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	09/02/10 14:35 / ljl
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	08/30/10 22:14 / jlr
Chloroform	1.1	ug/L		1.0		SW8260B	08/30/10 22:14 / jlr
Chloromethane	ND	ug/L		1.0		SW8260B	08/30/10 22:14 / jlr
Methylene chloride	ND	ug/L		1.0		SW8260B	08/30/10 22:14 / jlr
Surr: 1,2-Dichlorobenzene-d4	102	%REC		80-120		SW8260B	08/30/10 22:14 / jlr
Surr: Dibromofluoromethane	106	%REC		70-130		SW8260B	08/30/10 22:14 / jlr
Surr: p-Bromofluorobenzene	108	%REC		80-120		SW8260B	08/30/10 22:14 / jlr
Surr: Toluene-d8	86.0	%REC		80-120		SW8260B	08/30/10 22:14 / jlr

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Client: Denison Mines USA Corp
Project: 3rd Quarter Chloroform 2010
Lab ID: C10080518-007
Client Sample ID: TW4-8

Report Date: 09/03/10
Collection Date: 08/11/10 06:48
DateReceived: 08/13/10
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	45	mg/L		1		A4500-Cl B	08/24/10 11:06 / lr
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	08/26/10 13:16 / ljl
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	08/18/10 17:07 / jlr
Chloroform	ND	ug/L		1.0		SW8260B	08/18/10 17:07 / jlr
Chloromethane	ND	ug/L		1.0		SW8260B	08/18/10 17:07 / jlr
Methylene chloride	ND	ug/L		1.0		SW8260B	08/18/10 17:07 / jlr
Surr: 1,2-Dichlorobenzene-d4	106	%REC		80-120		SW8260B	08/18/10 17:07 / jlr
Surr: Dibromofluoromethane	109	%REC		70-130		SW8260B	08/18/10 17:07 / jlr
Surr: p-Bromofluorobenzene	109	%REC		80-120		SW8260B	08/18/10 17:07 / jlr
Surr: Toluene-d8	88.0	%REC		80-120		SW8260B	08/18/10 17:07 / jlr

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Client: Denison Mines USA Corp
Project: 3rd Quarter Chloroform 2010
Lab ID: C10080518-017
Client Sample ID: TW4-8R

Report Date: 09/03/10
Collection Date: 08/10/10 08:40
DateReceived: 08/13/10
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	ND	mg/L		1		A4500-Cl B	08/24/10 11:36 / lr
Nitrogen, Nitrate+Nitrite as N	0.1	mg/L		0.1		E353.2	08/26/10 13:56 / ljl
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	08/19/10 03:10 / jlr
Chloroform	ND	ug/L		1.0		SW8260B	08/19/10 03:10 / jlr
Chloromethane	ND	ug/L		1.0		SW8260B	08/19/10 03:10 / jlr
Methylene chloride	ND	ug/L		1.0		SW8260B	08/19/10 03:10 / jlr
Surr: 1,2-Dichlorobenzene-d4	101	%REC		80-120		SW8260B	08/19/10 03:10 / jlr
Surr: Dibromofluoromethane	111	%REC		70-130		SW8260B	08/19/10 03:10 / jlr
Surr: p-Bromofluorobenzene	105	%REC		80-120		SW8260B	08/19/10 03:10 / jlr
Surr: Toluene-d8	89.0	%REC		80-120		SW8260B	08/19/10 03:10 / jlr

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Client: Denison Mines USA Corp
Project: 3rd Quarter Chloroform 2010
Lab ID: C10080518-008
Client Sample ID: TW4-9

Report Date: 09/03/10
Collection Date: 08/11/10 06:32
DateReceived: 08/13/10
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	40	mg/L		1		A4500-Cl B	08/24/10 11:08 / lr
Nitrogen, Nitrate+Nitrite as N	1.2	mg/L	D	0.2		E353.2	08/26/10 13:19 / ljl
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	08/18/10 21:50 / jlr
Chloroform	ND	ug/L		1.0		SW8260B	08/18/10 21:50 / jlr
Chloromethane	ND	ug/L		1.0		SW8260B	08/18/10 21:50 / jlr
Methylene chloride	ND	ug/L		1.0		SW8260B	08/18/10 21:50 / jlr
Surr: 1,2-Dichlorobenzene-d4	104	%REC		80-120		SW8260B	08/18/10 21:50 / jlr
Surr: Dibromofluoromethane	105	%REC		70-130		SW8260B	08/18/10 21:50 / jlr
Surr: p-Bromofluorobenzene	109	%REC		80-120		SW8260B	08/18/10 21:50 / jlr
Surr: Toluene-d8	87.0	%REC		80-120		SW8260B	08/18/10 21:50 / jlr

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Client: Denison Mines USA Corp
Project: 3rd Quarter Chloroform 2010
Lab ID: C10080518-018
Client Sample ID: TW4-9R

Report Date: 09/03/10
Collection Date: 08/10/10 09:27
DateReceived: 08/13/10
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	ND	mg/L		1		A4500-Cl B	08/24/10 11:38 / lr
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	08/26/10 14:01 / ljl
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	08/19/10 03:46 / jlr
Chloroform	ND	ug/L		1.0		SW8260B	08/19/10 03:46 / jlr
Chloromethane	ND	ug/L		1.0		SW8260B	08/19/10 03:46 / jlr
Methylene chloride	ND	ug/L		1.0		SW8260B	08/19/10 03:46 / jlr
Surr: 1,2-Dichlorobenzene-d4	101	%REC		80-120		SW8260B	08/19/10 03:46 / jlr
Surr: Dibromofluoromethane	108	%REC		70-130		SW8260B	08/19/10 03:46 / jlr
Surr: p-Bromofluorobenzene	105	%REC		80-120		SW8260B	08/19/10 03:46 / jlr
Surr: Toluene-d8	88.0	%REC		80-120		SW8260B	08/19/10 03:46 / jlr

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Client: Denison Mines USA Corp
Project: 3rd Quarter Chloroform 2010
Lab ID: C10080518-025
Client Sample ID: TW4-10

Report Date: 09/03/10
Collection Date: 08/12/10 07:57
DateReceived: 08/13/10
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	38	mg/L		1		A4500-Cl B	08/24/10 12:02 / lr
Nitrogen, Nitrate+Nitrite as N	0.8	mg/L		0.1		E353.2	08/26/10 14:26 / ijl
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	08/26/10 17:46 / jlr
Chloroform	100	ug/L	D	20		SW8260B	08/21/10 02:56 / jlr
Chloromethane	ND	ug/L		1.0		SW8260B	08/26/10 17:46 / jlr
Methylene chloride	ND	ug/L		1.0		SW8260B	08/26/10 17:46 / jlr
Surr: 1,2-Dichlorobenzene-d4	100	%REC		80-120		SW8260B	08/26/10 17:46 / jlr
Surr: Dibromofluoromethane	102	%REC		70-130		SW8260B	08/26/10 17:46 / jlr
Surr: p-Bromofluorobenzene	105	%REC		80-120		SW8260B	08/26/10 17:46 / jlr
Surr: Toluene-d8	99.0	%REC		80-120		SW8260B	08/26/10 17:46 / jlr

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Client: Denison Mines USA Corp
Project: 3rd Quarter Chloroform 2010
Lab ID: C10080518-034
Client Sample ID: TW4-10R

Report Date: 09/03/10
Collection Date: 08/11/10 09:30
DateReceived: 08/13/10
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	ND	mg/L		1		A4500-Cl B	08/24/10 12:34 / lr
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	08/26/10 15:01 / ljl
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	08/20/10 19:50 / jlr
Chloroform	ND	ug/L		1.0		SW8260B	08/20/10 19:50 / jlr
Chloromethane	ND	ug/L		1.0		SW8260B	08/20/10 19:50 / jlr
Methylene chloride	ND	ug/L		1.0		SW8260B	08/20/10 19:50 / jlr
Surr: 1,2-Dichlorobenzene-d4	120	%REC		80-120		SW8260B	08/20/10 19:50 / jlr
Surr: Dibromofluoromethane	128	%REC		70-130		SW8260B	08/20/10 19:50 / jlr
Surr: p-Bromofluorobenzene	118	%REC		80-120		SW8260B	08/20/10 19:50 / jlr
Surr: Toluene-d8	94.0	%REC		80-120		SW8260B	08/20/10 19:50 / jlr

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Client: Denison Mines USA Corp
Project: 3rd Quarter Chloroform 2010
Lab ID: C10080518-028
Client Sample ID: TW4-11

Report Date: 09/03/10
Collection Date: 08/12/10 08:18
DateReceived: 08/13/10
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	43	mg/L		1		A4500-Cl B	08/24/10 12:09 / lr
Nitrogen, Nitrate+Nitrite as N	6.7	mg/L	D	0.5		E353.2	08/26/10 14:39 / ljl
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	08/26/10 19:31 / jlr
Chloroform	800	ug/L	D	100		SW8260B	08/26/10 16:01 / jlr
Chloromethane	ND	ug/L		1.0		SW8260B	08/26/10 19:31 / jlr
Methylene chloride	ND	ug/L		1.0		SW8260B	08/26/10 19:31 / jlr
Surr: 1,2-Dichlorobenzene-d4	99.0	%REC		80-120		SW8260B	08/26/10 19:31 / jlr
Surr: Dibromofluoromethane	105	%REC		70-130		SW8260B	08/26/10 19:31 / jlr
Surr: p-Bromofluorobenzene	108	%REC		80-120		SW8260B	08/26/10 19:31 / jlr
Surr: Toluene-d8	97.0	%REC		80-120		SW8260B	08/26/10 19:31 / jlr

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Client: Denison Mines USA Corp
Project: 3rd Quarter Chloroform 2010
Lab ID: C10080518-037
Client Sample ID: TW4-11R

Report Date: 09/03/10
Collection Date: 08/11/10 12:51
DateReceived: 08/13/10
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	ND	mg/L		1		A4500-Cl B	08/24/10 12:39 / lr
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	08/26/10 15:16 / ljl
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	08/21/10 00:34 / jlr
Chloroform	2.1	ug/L		1.0		SW8260B	08/21/10 00:34 / jlr
Chloromethane	ND	ug/L		1.0		SW8260B	08/21/10 00:34 / jlr
Methylene chloride	ND	ug/L		1.0		SW8260B	08/21/10 00:34 / jlr
Surr: 1,2-Dichlorobenzene-d4	114	%REC		80-120		SW8260B	08/21/10 00:34 / jlr
Surr: Dibromofluoromethane	113	%REC		70-130		SW8260B	08/21/10 00:34 / jlr
Surr: p-Bromofluorobenzene	116	%REC		80-120		SW8260B	08/21/10 00:34 / jlr
Surr: Toluene-d8	96.0	%REC		80-120		SW8260B	08/21/10 00:34 / jlr

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Client: Denison Mines USA Corp
Project: 3rd Quarter Chloroform 2010
Lab ID: C10080518-002
Client Sample ID: TW4-12

Report Date: 09/03/10
Collection Date: 08/10/10 07:46
DateReceived: 08/13/10
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	35	mg/L		1		A4500-Cl B	08/24/10 10:51 / lr
Nitrogen, Nitrate+Nitrite as N	9	mg/L	D	1		E353.2	08/26/10 12:59 / ljl
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	08/18/10 14:10 / jlr
Chloroform	ND	ug/L		1.0		SW8260B	08/18/10 14:10 / jlr
Chloromethane	ND	ug/L		1.0		SW8260B	08/18/10 14:10 / jlr
Methylene chloride	ND	ug/L		1.0		SW8260B	08/18/10 14:10 / jlr
Surr: 1,2-Dichlorobenzene-d4	106	%REC		80-120		SW8260B	08/18/10 14:10 / jlr
Surr: Dibromofluoromethane	108	%REC		70-130		SW8260B	08/18/10 14:10 / jlr
Surr: p-Bromofluorobenzene	108	%REC		80-120		SW8260B	08/18/10 14:10 / jlr
Surr: Toluene-d8	87.0	%REC		80-120		SW8260B	08/18/10 14:10 / jlr

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Client: Denison Mines USA Corp
Project: 3rd Quarter Chloroform 2010
Lab ID: C10080518-012
Client Sample ID: TW4-12R

Report Date: 09/03/10
Collection Date: 08/09/10 09:28
DateReceived: 08/13/10
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	ND	mg/L		1		A4500-Cl B	08/24/10 11:26 / lr
Nitrogen, Nitrate+Nitrite as N	0.1	mg/L		0.1		E353.2	08/26/10 13:36 / ljl
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	08/19/10 00:12 / jlr
Chloroform	ND	ug/L		1.0		SW8260B	08/19/10 00:12 / jlr
Chloromethane	ND	ug/L		1.0		SW8260B	08/19/10 00:12 / jlr
Methylene chloride	ND	ug/L		1.0		SW8260B	08/19/10 00:12 / jlr
Surr: 1,2-Dichlorobenzene-d4	102	%REC		80-120		SW8260B	08/19/10 00:12 / jlr
Surr: Dibromofluoromethane	104	%REC		70-130		SW8260B	08/19/10 00:12 / jlr
Surr: p-Bromofluorobenzene	109	%REC		80-120		SW8260B	08/19/10 00:12 / jlr
Surr: Toluene-d8	87.0	%REC		80-120		SW8260B	08/19/10 00:12 / jlr

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Client: Denison Mines USA Corp
Project: 3rd Quarter Chloroform 2010
Lab ID: C10080518-003
Client Sample ID: TW4-13

Report Date: 09/03/10
Collection Date: 08/10/10 07:56
DateReceived: 08/13/10
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	55	mg/L		1		A4500-Cl B	08/24/10 10:56 / lr
Nitrogen, Nitrate+Nitrite as N	5.6	mg/L	D	0.5		E353.2	08/26/10 13:01 / lji
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	08/18/10 14:46 / jlr
Chloroform	ND	ug/L		1.0		SW8260B	08/18/10 14:46 / jlr
Chloromethane	ND	ug/L		1.0		SW8260B	08/18/10 14:46 / jlr
Methylene chloride	ND	ug/L		1.0		SW8260B	08/18/10 14:46 / jlr
Surr: 1,2-Dichlorobenzene-d4	105	%REC		80-120		SW8260B	08/18/10 14:46 / jlr
Surr: Dibromofluoromethane	109	%REC		70-130		SW8260B	08/18/10 14:46 / jlr
Surr: p-Bromofluorobenzene	106	%REC		80-120		SW8260B	08/18/10 14:46 / jlr
Surr: Toluene-d8	88.0	%REC		80-120		SW8260B	08/18/10 14:46 / jlr

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Client: Denison Mines USA Corp
Project: 3rd Quarter Chloroform 2010
Lab ID: C10080518-013
Client Sample ID: TW4-13R

Report Date: 09/03/10
Collection Date: 08/09/10 10:26
DateReceived: 08/13/10
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	ND	mg/L		1		A4500-Cl B	08/24/10 11:27 / lr
Nitrogen, Nitrate+Nitrite as N	0.1	mg/L		0.1		E353.2	08/26/10 13:39 / ljl
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	08/19/10 00:48 / jlr
Chloroform	ND	ug/L		1.0		SW8260B	08/19/10 00:48 / jlr
Chloromethane	ND	ug/L		1.0		SW8260B	08/19/10 00:48 / jlr
Methylene chloride	ND	ug/L		1.0		SW8260B	08/19/10 00:48 / jlr
Surr: 1,2-Dichlorobenzene-d4	103	%REC		80-120		SW8260B	08/19/10 00:48 / jlr
Surr: Dibromofluoromethane	108	%REC		70-130		SW8260B	08/19/10 00:48 / jlr
Surr: p-Bromofluorobenzene	108	%REC		80-120		SW8260B	08/19/10 00:48 / jlr
Surr: Toluene-d8	89.0	%REC		80-120		SW8260B	08/19/10 00:48 / jlr

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Client: Denison Mines USA Corp
Project: 3rd Quarter Chloroform 2010
Lab ID: C10080518-004
Client Sample ID: TW4-14

Report Date: 09/03/10
Collection Date: 08/10/10 08:06
DateReceived: 08/13/10
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	35	mg/L		1		A4500-Cl B	08/24/10 10:57 / lr
Nitrogen, Nitrate+Nitrite as N	2.8	mg/L	D	0.2		E353.2	08/26/10 13:04 / ljl
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	08/18/10 15:21 / jlr
Chloroform	ND	ug/L		1.0		SW8260B	08/18/10 15:21 / jlr
Chloromethane	ND	ug/L		1.0		SW8260B	08/18/10 15:21 / jlr
Methylene chloride	ND	ug/L		1.0		SW8260B	08/18/10 15:21 / jlr
Surr: 1,2-Dichlorobenzene-d4	106	%REC		80-120		SW8260B	08/18/10 15:21 / jlr
Surr: Dibromofluoromethane	109	%REC		70-130		SW8260B	08/18/10 15:21 / jlr
Surr: p-Bromofluorobenzene	107	%REC		80-120		SW8260B	08/18/10 15:21 / jlr
Surr: Toluene-d8	88.0	%REC		80-120		SW8260B	08/18/10 15:21 / jlr

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Client: Denison Mines USA Corp
Project: 3rd Quarter Chloroform 2010
Lab ID: C10080518-014
Client Sample ID: TW4-14R

Report Date: 09/03/10
Collection Date: 08/09/10 12:26
DateReceived: 08/13/10
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	ND	mg/L		1		A4500-Cl B	08/24/10 11:31 / lr
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	08/26/10 13:41 / ljl
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	08/19/10 01:24 / jlr
Chloroform	ND	ug/L		1.0		SW8260B	08/19/10 01:24 / jlr
Chloromethane	ND	ug/L		1.0		SW8260B	08/19/10 01:24 / jlr
Methylene chloride	ND	ug/L		1.0		SW8260B	08/19/10 01:24 / jlr
Surr: 1,2-Dichlorobenzene-d4	102	%REC		80-120		SW8260B	08/19/10 01:24 / jlr
Surr: Dibromofluoromethane	102	%REC		70-130		SW8260B	08/19/10 01:24 / jlr
Surr: p-Bromofluorobenzene	108	%REC		80-120		SW8260B	08/19/10 01:24 / jlr
Surr: Toluene-d8	88.0	%REC		80-120		SW8260B	08/19/10 01:24 / jlr

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Client: Denison Mines USA Corp
Project: 3rd Quarter Chloroform
Lab ID: C10080785-003
Client Sample ID: TW4-15

Revised Date: 10/22/10
Report Date: 09/08/10
Collection Date: 08/16/10 14:15
DateReceived: 08/20/10
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	49	mg/L		1		A4500-Cl B	08/31/10 14:05 / ljl
Nitrogen, Nitrate+Nitrite as N	0.6	mg/L		0.1		E353.2	09/02/10 13:58 / ljl
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	08/30/10 17:29 / jlr
Chloroform	2200	ug/L	D	100		SW8260B	08/27/10 17:32 / jlr
Chloromethane	ND	ug/L		1.0		SW8260B	08/30/10 17:29 / jlr
Methylene chloride	21	ug/L		1.0		SW8260B	08/30/10 17:29 / jlr
Surr: 1,2-Dichlorobenzene-d4	104	%REC		80-120		SW8260B	08/30/10 17:29 / jlr
Surr: Dibromofluoromethane	109	%REC		70-130		SW8260B	08/30/10 17:29 / jlr
Surr: p-Bromofluorobenzene	111	%REC		80-120		SW8260B	08/30/10 17:29 / jlr
Surr: Toluene-d8	88.0	%REC		80-120		SW8260B	08/30/10 17:29 / jlr

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Client: Denison Mines USA Corp
Project: 3rd Quarter Chloroform
Lab ID: C10081012-002
Client Sample ID: TW4-16

Report Date: 09/17/10
Collection Date: 08/24/10 12:32
DateReceived: 08/27/10
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	72	mg/L		1		A4500-Cl B	09/07/10 15:41 / lr
Nitrogen, Nitrate+Nitrite as N	4.6	mg/L	D	0.2		E353.2	09/06/10 16:11 / ljl
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	09/02/10 01:06 / jlr
Chloroform	4.3	ug/L		1.0		SW8260B	09/02/10 01:06 / jlr
Chloromethane	ND	ug/L		1.0		SW8260B	09/02/10 01:06 / jlr
Methylene chloride	ND	ug/L		1.0		SW8260B	09/02/10 01:06 / jlr
Surr: 1,2-Dichlorobenzene-d4	111	%REC		80-120		SW8260B	09/02/10 01:06 / jlr
Surr: Dibromofluoromethane	119	%REC		70-130		SW8260B	09/02/10 01:06 / jlr
Surr: p-Bromofluorobenzene	114	%REC		80-120		SW8260B	09/02/10 01:06 / jlr
Surr: Toluene-d8	92.0	%REC		80-120		SW8260B	09/02/10 01:06 / jlr

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Client: Denison Mines USA Corp
Project: 3rd Quarter Chloroform
Lab ID: C10081012-006
Client Sample ID: TW4-16R

Report Date: 09/17/10
Collection Date: 08/23/10 09:57
DateReceived: 08/27/10
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	ND	mg/L		1		A4500-Cl B	09/07/10 15:50 / lr
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	09/06/10 16:29 / ljl
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	09/02/10 02:56 / jlr
Chloroform	ND	ug/L		1.0		SW8260B	09/02/10 02:56 / jlr
Chloromethane	ND	ug/L		1.0		SW8260B	09/02/10 02:56 / jlr
Methylene chloride	ND	ug/L		1.0		SW8260B	09/02/10 02:56 / jlr
Surr: 1,2-Dichlorobenzene-d4	108	%REC		80-120		SW8260B	09/02/10 02:56 / jlr
Surr: Dibromofluoromethane	113	%REC		70-130		SW8260B	09/02/10 02:56 / jlr
Surr: p-Bromofluorobenzene	113	%REC		80-120		SW8260B	09/02/10 02:56 / jlr
Surr: Toluene-d8	94.0	%REC		80-120		SW8260B	09/02/10 02:56 / jlr

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Client: Denison Mines USA Corp
Project: 3rd Quarter Chloroform
Lab ID: C10080785-001
Client Sample ID: TW4-17

Revised Date: 10/22/10
Report Date: 09/08/10
Collection Date: 08/16/10 13:40
DateReceived: 08/20/10
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	28	mg/L		1		A4500-Cl B	08/31/10 14:00 / ljl
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	09/02/10 13:53 / ljl
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	08/27/10 23:59 / jlr
Chloroform	ND	ug/L		1.0		SW8260B	08/27/10 23:59 / jlr
Chloromethane	ND	ug/L		1.0		SW8260B	08/27/10 23:59 / jlr
Methylene chloride	ND	ug/L		1.0		SW8260B	08/27/10 23:59 / jlr
Surr: 1,2-Dichlorobenzene-d4	101	%REC		80-120		SW8260B	08/27/10 23:59 / jlr
Surr: Dibromofluoromethane	124	%REC		70-130		SW8260B	08/27/10 23:59 / jlr
Surr: p-Bromofluorobenzene	109	%REC		80-120		SW8260B	08/27/10 23:59 / jlr
Surr: Toluene-d8	94.0	%REC		80-120		SW8260B	08/27/10 23:59 / jlr

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Client: Denison Mines USA Corp
Project: 3rd Quarter Chloroform 2010
Lab ID: C10080518-023
Client Sample ID: TW4-18

Report Date: 09/03/10
Collection Date: 08/12/10 07:20
DateReceived: 08/13/10
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	37	mg/L		1		A4500-Cl B	08/24/10 11:56 / lr
Nitrogen, Nitrate+Nitrite as N	9	mg/L	D	1		E353.2	08/26/10 14:21 / ljl
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	08/21/10 01:44 / jlr
Chloroform	29	ug/L		1.0		SW8260B	08/21/10 01:44 / jlr
Chloromethane	ND	ug/L		1.0		SW8260B	08/21/10 01:44 / jlr
Methylene chloride	ND	ug/L		1.0		SW8260B	08/21/10 01:44 / jlr
Surr: 1,2-Dichlorobenzene-d4	117	%REC		80-120		SW8260B	08/21/10 01:44 / jlr
Surr: Dibromofluoromethane	111	%REC		70-130		SW8260B	08/21/10 01:44 / jlr
Surr: p-Bromofluorobenzene	122	%REC	S	80-120		SW8260B	08/21/10 01:44 / jlr
Surr: Toluene-d8	91.0	%REC		80-120		SW8260B	08/21/10 01:44 / jlr

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

LABORATORY ANALYTICAL REPORT

Client: Denison Mines USA Corp
Project: 3rd Quarter Chloroform 2010
Lab ID: C10080518-032
Client Sample ID: TW4-18R

Report Date: 09/03/10
Collection Date: 08/11/10 07:53
DateReceived: 08/13/10
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	ND	mg/L		1		A4500-Cl B	08/24/10 12:30 / lr
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	08/26/10 14:56 / ljl
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	08/20/10 18:40 / jlr
Chloroform	ND	ug/L		1.0		SW8260B	08/20/10 18:40 / jlr
Chloromethane	ND	ug/L		1.0		SW8260B	08/20/10 18:40 / jlr
Methylene chloride	ND	ug/L		1.0		SW8260B	08/20/10 18:40 / jlr
Surr: 1,2-Dichlorobenzene-d4	114	%REC		80-120		SW8260B	08/20/10 18:40 / jlr
Surr: Dibromofluoromethane	98.0	%REC		70-130		SW8260B	08/20/10 18:40 / jlr
Surr: p-Bromofluorobenzene	113	%REC		80-120		SW8260B	08/20/10 18:40 / jlr
Surr: Toluene-d8	96.0	%REC		80-120		SW8260B	08/20/10 18:40 / jlr

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Revised Date: 10/22/10
Report Date: 09/08/10
Collection Date: 08/16/10 09:58
DateReceived: 08/20/10
Matrix: Aqueous

Client: Denison Mines USA Corp
Project: 3rd Quarter Chloroform
Lab ID: C10080785-002
Client Sample ID: TW4-19

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	142	mg/L		1		A4500-Cl B	08/31/10 14:03 / ljl
Nitrogen, Nitrate+Nitrite as N	5.9	mg/L	D	0.5		E353.2	09/02/10 13:55 / ljl
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	4.9	ug/L		1.0		SW8260B	08/30/10 16:52 / jlr
Chloroform	2000	ug/L	D	100		SW8260B	08/27/10 16:57 / jlr
Chloromethane	ND	ug/L		1.0		SW8260B	08/30/10 16:52 / jlr
Methylene chloride	ND	ug/L		1.0		SW8260B	08/30/10 16:52 / jlr
Surr: 1,2-Dichlorobenzene-d4	104	%REC		80-120		SW8260B	08/30/10 16:52 / jlr
Surr: Dibromofluoromethane	103	%REC		70-130		SW8260B	08/30/10 16:52 / jlr
Surr: p-Bromofluorobenzene	110	%REC		80-120		SW8260B	08/30/10 16:52 / jlr
Surr: Toluene-d8	86.0	%REC		80-120		SW8260B	08/30/10 16:52 / jlr

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Client: Denison Mines USA Corp
Project: 3rd Quarter Chloroform
Lab ID: C10080785-009
Client Sample ID: TW4-20

Revised Date: 10/22/10
Report Date: 09/08/10
Collection Date: 08/16/10 12:22
DateReceived: 08/20/10
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	196	mg/L		1		A4500-Cl B	08/31/10 14:28 / ljl
Nitrogen, Nitrate+Nitrite as N	5.3	mg/L	D	0.5		E353.2	09/02/10 14:20 / ljl
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	12	ug/L		1.0		SW8260B	08/30/10 19:51 / jlr
Chloroform	15000	ug/L	D	1000		SW8260B	08/27/10 21:03 / jlr
Chloromethane	ND	ug/L		1.0		SW8260B	08/30/10 19:51 / jlr
Methylene chloride	2.2	ug/L		1.0		SW8260B	08/30/10 19:51 / jlr
Surr: 1,2-Dichlorobenzene-d4	102	%REC		80-120		SW8260B	08/30/10 19:51 / jlr
Surr: Dibromofluoromethane	67.0	%REC	S	70-130		SW8260B	08/30/10 19:51 / jlr
Surr: p-Bromofluorobenzene	109	%REC		80-120		SW8260B	08/30/10 19:51 / jlr
Surr: Toluene-d8	89.0	%REC		80-120		SW8260B	08/30/10 19:51 / jlr

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

LABORATORY ANALYTICAL REPORT

Client: Denison Mines USA Corp
Project: 3rd Quarter Chloroform 2010
Lab ID: C10080518-024
Client Sample ID: TW4-21

Report Date: 09/03/10
Collection Date: 08/12/10 07:30
DateReceived: 08/13/10
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	278	mg/L		1		A4500-Cl B	08/24/10 11:59 / lr
Nitrogen, Nitrate+Nitrite as N	14	mg/L	D	1		E353.2	08/26/10 14:24 / ljl
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	9.2	ug/L		1.0		SW8260B	08/26/10 17:11 / jlr
Chloroform	390	ug/L	D	100		SW8260B	08/26/10 15:26 / jlr
Chloromethane	ND	ug/L		1.0		SW8260B	08/26/10 17:11 / jlr
Methylene chloride	ND	ug/L		1.0		SW8260B	08/26/10 17:11 / jlr
Surr: 1,2-Dichlorobenzene-d4	104	%REC		80-120		SW8260B	08/26/10 17:11 / jlr
Surr: Dibromofluoromethane	104	%REC		70-130		SW8260B	08/26/10 17:11 / jlr
Surr: p-Bromofluorobenzene	109	%REC		80-120		SW8260B	08/26/10 17:11 / jlr
Surr: Toluene-d8	97.0	%REC		80-120		SW8260B	08/26/10 17:11 / jlr

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Client: Denison Mines USA Corp
Project: 3rd Quarter Chloroform 2010
Lab ID: C10080518-033
Client Sample ID: TW4-21R

Report Date: 09/03/10
Collection Date: 08/11/10 08:43
DateReceived: 08/13/10
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	ND	mg/L		1		A4500-Cl B	08/24/10 12:33 / lr
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	08/26/10 14:59 / ijl
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	08/20/10 19:15 / jlr
Chloroform	ND	ug/L		1.0		SW8260B	08/20/10 19:15 / jlr
Chloromethane	ND	ug/L		1.0		SW8260B	08/20/10 19:15 / jlr
Methylene chloride	ND	ug/L		1.0		SW8260B	08/20/10 19:15 / jlr
Surr: 1,2-Dichlorobenzene-d4	117	%REC		80-120		SW8260B	08/20/10 19:15 / jlr
Surr: Dibromofluoromethane	116	%REC		70-130		SW8260B	08/20/10 19:15 / jlr
Surr: p-Bromofluorobenzene	119	%REC		80-120		SW8260B	08/20/10 19:15 / jlr
Surr: Toluene-d8	97.0	%REC		80-120		SW8260B	08/20/10 19:15 / jlr

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Client: Denison Mines USA Corp
Project: 3rd Quarter Chloroform
Lab ID: C10081012-003
Client Sample ID: TW4-22

Report Date: 09/17/10
Collection Date: 08/24/10 12:21
DateReceived: 08/27/10
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	130	mg/L		1		A4500-Cl B	09/07/10 15:43 / lr
Nitrogen, Nitrate+Nitrite as N	15	mg/L	D	1		E353.2	09/06/10 16:14 / ijl
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	09/01/10 20:54 / jlr
Chloroform	340	ug/L	D	100		SW8260B	09/01/10 19:44 / jlr
Chloromethane	ND	ug/L		1.0		SW8260B	09/01/10 20:54 / jlr
Methylene chloride	ND	ug/L		1.0		SW8260B	09/01/10 20:54 / jlr
Surr: 1,2-Dichlorobenzene-d4	112	%REC		80-120		SW8260B	09/01/10 20:54 / jlr
Surr: Dibromofluoromethane	132	%REC	S	70-130		SW8260B	09/01/10 20:54 / jlr
Surr: p-Bromofluorobenzene	122	%REC	S	80-120		SW8260B	09/01/10 20:54 / jlr
Surr: Toluene-d8	96.0	%REC		80-120		SW8260B	09/01/10 20:54 / jlr

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

LABORATORY ANALYTICAL REPORT

Client: Denison Mines USA Corp
Project: 3rd Quarter Chloroform
Lab ID: C10081012-007
Client Sample ID: TW4-22R

Report Date: 09/17/10
Collection Date: 08/23/10 12:34
DateReceived: 08/27/10
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	ND	mg/L		1		A4500-Cl B	09/07/10 15:52 / lr
Nitrogen, Nitrate+Nitrite as N	0.1	mg/L		0.1		E353.2	09/06/10 16:31 / ljl
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	09/02/10 03:32 / jlr
Chloroform	ND	ug/L		1.0		SW8260B	09/02/10 03:32 / jlr
Chloromethane	ND	ug/L		1.0		SW8260B	09/02/10 03:32 / jlr
Methylene chloride	ND	ug/L		1.0		SW8260B	09/02/10 03:32 / jlr
Surr: 1,2-Dichlorobenzene-d4	110	%REC		80-120		SW8260B	09/02/10 03:32 / jlr
Surr: Dibromofluoromethane	112	%REC		70-130		SW8260B	09/02/10 03:32 / jlr
Surr: p-Bromofluorobenzene	123	%REC	S	80-120		SW8260B	09/02/10 03:32 / jlr
Surr: Toluene-d8	92.0	%REC		80-120		SW8260B	09/02/10 03:32 / jlr

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
S - Spike recovery outside of advisory limits.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Client: Denison Mines USA Corp
Project: 3rd Quarter Chloroform 2010
Lab ID: C10080518-005
Client Sample ID: TW4-23

Report Date: 09/03/10
Collection Date: 08/10/10 06:40
DateReceived: 08/13/10
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	40	mg/L		1		A4500-Cl B	08/24/10 10:59 / lr
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	08/26/10 13:06 / ljl
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	08/18/10 15:56 / jlr
Chloroform	ND	ug/L		1.0		SW8260B	08/18/10 15:56 / jlr
Chloromethane	ND	ug/L		1.0		SW8260B	08/18/10 15:56 / jlr
Methylene chloride	ND	ug/L		1.0		SW8260B	08/18/10 15:56 / jlr
Surr: 1,2-Dichlorobenzene-d4	104	%REC		80-120		SW8260B	08/18/10 15:56 / jlr
Surr: Dibromofluoromethane	111	%REC		70-130		SW8260B	08/18/10 15:56 / jlr
Surr: p-Bromofluorobenzene	105	%REC		80-120		SW8260B	08/18/10 15:56 / jlr
Surr: Toluene-d8	88.0	%REC		80-120		SW8260B	08/18/10 15:56 / jlr

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Client: Denison Mines USA Corp
Project: 3rd Quarter Chloroform 2010
Lab ID: C10080518-015
Client Sample ID: TW4-23R

Report Date: 09/03/10
Collection Date: 08/09/10 13:06
DateReceived: 08/13/10
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	ND	mg/L		1		A4500-Cl B	08/24/10 11:33 / lr
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	08/26/10 13:44 / ljl
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	08/19/10 01:59 / jlr
Chloroform	ND	ug/L		1.0		SW8260B	08/19/10 01:59 / jlr
Chloromethane	ND	ug/L		1.0		SW8260B	08/19/10 01:59 / jlr
Methylene chloride	ND	ug/L		1.0		SW8260B	08/19/10 01:59 / jlr
Surr: 1,2-Dichlorobenzene-d4	102	%REC		80-120		SW8260B	08/19/10 01:59 / jlr
Surr: Dibromofluoromethane	107	%REC		70-130		SW8260B	08/19/10 01:59 / jlr
Surr: p-Bromofluorobenzene	105	%REC		80-120		SW8260B	08/19/10 01:59 / jlr
Surr: Toluene-d8	88.0	%REC		80-120		SW8260B	08/19/10 01:59 / jlr

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Client: Denison Mines USA Corp
Project: 3rd Quarter Chloroform
Lab ID: C10081012-004
Client Sample ID: TW4-24

Report Date: 09/17/10
Collection Date: 08/24/10 12:10
DateReceived: 08/27/10
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	587	mg/L		1		A4500-Cl B	09/07/10 15:47 / lr
Nitrogen, Nitrate+Nitrite as N	31	mg/L	D	1		E353.2	09/06/10 16:24 / ljl
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	09/02/10 01:43 / jlr
Chloroform	1.8	ug/L		1.0		SW8260B	09/02/10 01:43 / jlr
Chloromethane	ND	ug/L		1.0		SW8260B	09/02/10 01:43 / jlr
Methylene chloride	ND	ug/L		1.0		SW8260B	09/02/10 01:43 / jlr
Surr: 1,2-Dichlorobenzene-d4	111	%REC		80-120		SW8260B	09/02/10 01:43 / jlr
Surr: Dibromofluoromethane	131	%REC	S	70-130		SW8260B	09/02/10 01:43 / jlr
Surr: p-Bromofluorobenzene	112	%REC		80-120		SW8260B	09/02/10 01:43 / jlr
Surr: Toluene-d8	96.0	%REC		80-120		SW8260B	09/02/10 01:43 / jlr

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

LABORATORY ANALYTICAL REPORT

Client: Denison Mines USA Corp
Project: 3rd Quarter Chloroform
Lab ID: C10081012-008
Client Sample ID: TW4-24R

Report Date: 09/17/10
Collection Date: 08/23/10 08:55
DateReceived: 08/27/10
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	ND	mg/L		1		A4500-Cl B	09/07/10 15:52 / lr
Nitrogen, Nitrate+Nitrite as N	0.1	mg/L		0.1		E353.2	09/06/10 16:34 / ljl
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	09/02/10 04:08 / jlr
Chloroform	ND	ug/L		1.0		SW8260B	09/02/10 04:08 / jlr
Chloromethane	ND	ug/L		1.0		SW8260B	09/02/10 04:08 / jlr
Methylene chloride	ND	ug/L		1.0		SW8260B	09/02/10 04:08 / jlr
Surr: 1,2-Dichlorobenzene-d4	111	%REC		80-120		SW8260B	09/02/10 04:08 / jlr
Surr: Dibromofluoromethane	119	%REC		70-130		SW8260B	09/02/10 04:08 / jlr
Surr: p-Bromofluorobenzene	119	%REC		80-120		SW8260B	09/02/10 04:08 / jlr
Surr: Toluene-d8	104	%REC		80-120		SW8260B	09/02/10 04:08 / jlr

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Client: Denison Mines USA Corp
Project: 3rd Quarter Chloroform 2010
Lab ID: C10080518-006
Client Sample ID: TW4-25

Report Date: 09/03/10
Collection Date: 08/10/10 06:07
DateReceived: 08/13/10
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	250	mg/L		1		A4500-Cl B	08/24/10 11:04 / lr
Nitrogen, Nitrate+Nitrite as N	14	mg/L	D	1		E353.2	08/26/10 13:09 / ljl
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	08/18/10 16:32 / jlr
Chloroform	ND	ug/L		1.0		SW8260B	08/18/10 16:32 / jlr
Chloromethane	ND	ug/L		1.0		SW8260B	08/18/10 16:32 / jlr
Methylene chloride	ND	ug/L		1.0		SW8260B	08/18/10 16:32 / jlr
Surr: 1,2-Dichlorobenzene-d4	105	%REC		80-120		SW8260B	08/18/10 16:32 / jlr
Surr: Dibromofluoromethane	112	%REC		70-130		SW8260B	08/18/10 16:32 / jlr
Surr: p-Bromofluorobenzene	106	%REC		80-120		SW8260B	08/18/10 16:32 / jlr
Surr: Toluene-d8	87.0	%REC		80-120		SW8260B	08/18/10 16:32 / jlr

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Client: Denison Mines USA Corp
Project: 3rd Quarter Chloroform 2010
Lab ID: C10080518-016
Client Sample ID: TW4-25R

Report Date: 09/03/10
Collection Date: 08/09/10 14:11
DateReceived: 08/13/10
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	ND	mg/L		1		A4500-Cl B	08/24/10 11:34 / lr
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	08/26/10 13:46 / ljl
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	08/19/10 02:35 / jlr
Chloroform	ND	ug/L		1.0		SW8260B	08/19/10 02:35 / jlr
Chloromethane	ND	ug/L		1.0		SW8260B	08/19/10 02:35 / jlr
Methylene chloride	ND	ug/L		1.0		SW8260B	08/19/10 02:35 / jlr
Surr: 1,2-Dichlorobenzene-d4	102	%REC		80-120		SW8260B	08/19/10 02:35 / jlr
Surr: Dibromofluoromethane	103	%REC		70-130		SW8260B	08/19/10 02:35 / jlr
Surr: p-Bromofluorobenzene	107	%REC		80-120		SW8260B	08/19/10 02:35 / jlr
Surr: Toluene-d8	88.0	%REC		80-120		SW8260B	08/19/10 02:35 / jlr

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Client: Denison Mines USA Corp
Project: 3rd Quarter Chloroform 2010
Lab ID: C10080518-022
Client Sample ID: TW4-26

Report Date: 09/03/10
Collection Date: 08/11/10 07:04
DateReceived: 08/13/10
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	17	mg/L		1		A4500-Cl B	08/24/10 11:54 / lr
Nitrogen, Nitrate+Nitrite as N	9	mg/L	D	1		E353.2	08/26/10 14:19 / ljl
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	08/20/10 18:05 / jlr
Chloroform	5.2	ug/L		1.0		SW8260B	08/20/10 18:05 / jlr
Chloromethane	ND	ug/L		1.0		SW8260B	08/20/10 18:05 / jlr
Methylene chloride	ND	ug/L		1.0		SW8260B	08/20/10 18:05 / jlr
Surr: 1,2-Dichlorobenzene-d4	113	%REC		80-120		SW8260B	08/20/10 18:05 / jlr
Surr: Dibromofluoromethane	101	%REC		70-130		SW8260B	08/20/10 18:05 / jlr
Surr: p-Bromofluorobenzene	118	%REC		80-120		SW8260B	08/20/10 18:05 / jlr
Surr: Toluene-d8	96.0	%REC		80-120		SW8260B	08/20/10 18:05 / jlr

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Client: Denison Mines USA Corp
Project: 3rd Quarter Chloroform 2010
Lab ID: C10080518-031
Client Sample ID: TW4-26R

Report Date: 09/03/10
Collection Date: 08/10/10 14:14
DateReceived: 08/13/10
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	ND	mg/L		1		A4500-Cl B	08/24/10 12:28 / lr
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	08/26/10 14:46 / ljl
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	08/20/10 16:55 / jlr
Chloroform	ND	ug/L		1.0		SW8260B	08/20/10 16:55 / jlr
Chloromethane	ND	ug/L		1.0		SW8260B	08/20/10 16:55 / jlr
Methylene chloride	ND	ug/L		1.0		SW8260B	08/20/10 16:55 / jlr
Surr: 1,2-Dichlorobenzene-d4	112	%REC		80-120		SW8260B	08/20/10 16:55 / jlr
Surr: Dibromofluoromethane	96.0	%REC		70-130		SW8260B	08/20/10 16:55 / jlr
Surr: p-Bromofluorobenzene	122	%REC	S	80-120		SW8260B	08/20/10 16:55 / jlr
Surr: Toluene-d8	94.0	%REC		80-120		SW8260B	08/20/10 16:55 / jlr

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
S - Spike recovery outside of advisory limits.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Revised Date: 10/22/10
Report Date: 09/08/10
Collection Date: 08/17/10 14:30
DateReceived: 08/20/10
Matrix: Aqueous

Client: Denison Mines USA Corp
Project: 3rd Quarter Chloroform
Lab ID: C10080785-010
Client Sample ID: TW4-60

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	ND	mg/L		1		A4500-Cl B	08/31/10 14:32 / ljl
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	09/02/10 14:30 / ljl
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	08/27/10 22:14 / jlr
Chloroform	ND	ug/L		1.0		SW8260B	08/27/10 22:14 / jlr
Chloromethane	ND	ug/L		1.0		SW8260B	08/27/10 22:14 / jlr
Methylene chloride	ND	ug/L		1.0		SW8260B	08/27/10 22:14 / jlr
Surr: 1,2-Dichlorobenzene-d4	102	%REC		80-120		SW8260B	08/27/10 22:14 / jlr
Surr: Dibromofluoromethane	118	%REC		70-130		SW8260B	08/27/10 22:14 / jlr
Surr: p-Bromofluorobenzene	110	%REC		80-120		SW8260B	08/27/10 22:14 / jlr
Surr: Toluene-d8	96.0	%REC		80-120		SW8260B	08/27/10 22:14 / jlr

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Client: Denison Mines USA Corp
Project: 3rd Quarter Chloroform 2010
Lab ID: C10080518-029
Client Sample ID: TW4-65

Report Date: 09/03/10
Collection Date: 08/12/10 07:30
DateReceived: 08/13/10
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	269	mg/L		1		A4500-Cl B	08/31/10 12:21 / ljl
Nitrogen, Nitrate+Nitrite as N	15	mg/L	D	1		E353.2	08/26/10 14:41 / ljl
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	12	ug/L		1.0		SW8260B	08/26/10 20:06 / jlr
Chloroform	650	ug/L	D	100		SW8260B	08/26/10 16:36 / jlr
Chloromethane	ND	ug/L		1.0		SW8260B	08/26/10 20:06 / jlr
Methylene chloride	ND	ug/L		1.0		SW8260B	08/26/10 20:06 / jlr
Surr: 1,2-Dichlorobenzene-d4	103	%REC		80-120		SW8260B	08/26/10 20:06 / jlr
Surr: Dibromofluoromethane	104	%REC		70-130		SW8260B	08/26/10 20:06 / jlr
Surr: p-Bromofluorobenzene	110	%REC		80-120		SW8260B	08/26/10 20:06 / jlr
Surr: Toluene-d8	96.0	%REC		80-120		SW8260B	08/26/10 20:06 / jlr

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Client: Denison Mines USA Corp
Project: 3rd Quarter Chloroform
Lab ID: C10080785-011
Client Sample ID: TW4-70

Revised Date: 10/22/10
Report Date: 09/08/10
Collection Date: 08/16/10 13:40
DateReceived: 08/20/10
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	26	mg/L		1		A4500-Cl B	08/31/10 14:33 / ljl
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	09/02/10 14:33 / ljl
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	08/27/10 22:49 / jlr
Chloroform	ND	ug/L		1.0		SW8260B	08/27/10 22:49 / jlr
Chloromethane	ND	ug/L		1.0		SW8260B	08/27/10 22:49 / jlr
Methylene chloride	ND	ug/L		1.0		SW8260B	08/27/10 22:49 / jlr
Surr: 1,2-Dichlorobenzene-d4	104	%REC		80-120		SW8260B	08/27/10 22:49 / jlr
Surr: Dibromofluoromethane	115	%REC		70-130		SW8260B	08/27/10 22:49 / jlr
Surr: p-Bromofluorobenzene	107	%REC		80-120		SW8260B	08/27/10 22:49 / jlr
Surr: Toluene-d8	96.0	%REC		80-120		SW8260B	08/27/10 22:49 / jlr

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Client: Denison Mines USA Corp
Project: 3rd Quarter Chloroform 2010
Lab ID: C10080518-039
Client Sample ID: Temp Blank

Report Date: 09/03/10
Collection Date: 08/12/10
DateReceived: 08/13/10
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
Temperature	2.0	°C				E170.1	08/13/10 08:40 / kbh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Revised Date: 10/22/10
Report Date: 09/08/10
Collection Date: 08/18/10
DateReceived: 08/20/10
Matrix: Aqueous

Client: Denison Mines USA Corp
Project: 3rd Quarter Chloroform
Lab ID: C10080785-016
Client Sample ID: Temp Blank

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
Temperature	2.0	°C				E170.1	08/20/10 09:00 / kbh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Client: Denison Mines USA Corp
Project: 3rd Quarter Chloroform
Lab ID: C10081012-010
Client Sample ID: Temp Blank

Report Date: 09/17/10
Collection Date: 08/24/10 12:32
DateReceived: 08/27/10
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
Temperature	4.0	°C				E170.1	08/27/10 09:00 / kbh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Client: Denison Mines USA Corp
Project: 3rd Quarter Chloroform 2010
Lab ID: C10080518-038
Client Sample ID: Trip Blank

Report Date: 09/03/10
Collection Date: 08/12/10
DateReceived: 08/13/10
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	08/21/10 01:08 / jlr
Chloroform	ND	ug/L		1.0		SW8260B	08/21/10 01:08 / jlr
Chloromethane	ND	ug/L		1.0		SW8260B	08/21/10 01:08 / jlr
Methylene chloride	ND	ug/L		1.0		SW8260B	08/21/10 01:08 / jlr
Surr: 1,2-Dichlorobenzene-d4	112	%REC		80-120		SW8260B	08/21/10 01:08 / jlr
Surr: Dibromofluoromethane	115	%REC		70-130		SW8260B	08/21/10 01:08 / jlr
Surr: p-Bromofluorobenzene	118	%REC		80-120		SW8260B	08/21/10 01:08 / jlr
Surr: Toluene-d8	99.0	%REC		80-120		SW8260B	08/21/10 01:08 / jlr

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Client: Denison Mines USA Corp
Project: 3rd Quarter Chloroform
Lab ID: C10080785-012
Client Sample ID: Trip Blank

Revised Date: 10/22/10
Report Date: 09/08/10
Collection Date: 08/18/10 08:37
DateReceived: 08/20/10
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	08/27/10 23:24 / jlr
Chloroform	ND	ug/L		1.0		SW8260B	08/27/10 23:24 / jlr
Chloromethane	ND	ug/L		1.0		SW8260B	08/27/10 23:24 / jlr
Methylene chloride	ND	ug/L		1.0		SW8260B	08/27/10 23:24 / jlr
Surr: 1,2-Dichlorobenzene-d4	102	%REC		80-120		SW8260B	08/27/10 23:24 / jlr
Surr: Dibromofluoromethane	116	%REC		70-130		SW8260B	08/27/10 23:24 / jlr
Surr: p-Bromofluorobenzene	108	%REC		80-120		SW8260B	08/27/10 23:24 / jlr
Surr: Toluene-d8	95.0	%REC		80-120		SW8260B	08/27/10 23:24 / jlr

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Client: Denison Mines USA Corp
Project: 3rd Quarter Chloroform
Lab ID: C10081012-009
Client Sample ID: Trip Blank

Report Date: 09/17/10
Collection Date: 08/24/10
DateReceived: 08/27/10
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	09/02/10 04:44 / jlr
Chloroform	ND	ug/L		1.0		SW8260B	09/02/10 04:44 / jlr
Chloromethane	ND	ug/L		1.0		SW8260B	09/02/10 04:44 / jlr
Methylene chloride	ND	ug/L		1.0		SW8260B	09/02/10 04:44 / jlr
Surr: 1,2-Dichlorobenzene-d4	108	%REC		80-120		SW8260B	09/02/10 04:44 / jlr
Surr: Dibromofluoromethane	119	%REC		70-130		SW8260B	09/02/10 04:44 / jlr
Surr: p-Bromofluorobenzene	116	%REC		80-120		SW8260B	09/02/10 04:44 / jlr
Surr: Toluene-d8	106	%REC		80-120		SW8260B	09/02/10 04:44 / jlr

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

ANALYTICAL SUMMARY REPORT

September 03, 2010

Denison Mines USA Corp
6425 S Hwy 191
Blanding, UT 84511

Workorder No.: C10080518 Quote ID: C2975 - Chloroform Sampling

Project Name: 3rd Quarter Chloroform 2010

Energy Laboratories, Inc. received the following 39 samples for Denison Mines USA Corp on 8/13/2010 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C10080518-001	TW4-3	08/10/10 06:27	08/13/10	Aqueous	Chloride Nitrogen, Nitrate + Nitrite SW8260B VOCs, Standard List
C10080518-002	TW4-12	08/10/10 07:46	08/13/10	Aqueous	Same As Above
C10080518-003	TW4-13	08/10/10 07:56	08/13/10	Aqueous	Same As Above
C10080518-004	TW4-14	08/10/10 08:06	08/13/10	Aqueous	Same As Above
C10080518-005	TW4-23	08/10/10 06:40	08/13/10	Aqueous	Same As Above
C10080518-006	TW4-25	08/10/10 06:07	08/13/10	Aqueous	Same As Above
C10080518-007	TW4-8	08/11/10 06:48	08/13/10	Aqueous	Same As Above
C10080518-008	TW4-9	08/11/10 06:32	08/13/10	Aqueous	Same As Above
C10080518-009	TW4-24	08/11/10 06:04	08/13/10	Aqueous	Same As Above
C10080518-010	TW4-16	08/11/10 07:21	08/13/10	Aqueous	Same As Above
C10080518-011	TW4-3R	08/09/10 08:41	08/13/10	Aqueous	Same As Above
C10080518-012	TW4-12R	08/09/10 09:28	08/13/10	Aqueous	Same As Above
C10080518-013	TW4-13R	08/09/10 10:26	08/13/10	Aqueous	Same As Above
C10080518-014	TW4-14R	08/09/10 12:26	08/13/10	Aqueous	Same As Above
C10080518-015	TW4-23R	08/09/10 13:06	08/13/10	Aqueous	Same As Above
C10080518-016	TW4-25R	08/09/10 14:11	08/13/10	Aqueous	Same As Above
C10080518-017	TW4-8R	08/10/10 08:40	08/13/10	Aqueous	Same As Above
C10080518-018	TW4-9R	08/10/10 09:27	08/13/10	Aqueous	Same As Above
C10080518-019	TW4-24R	08/10/10 10:18	08/13/10	Aqueous	Same As Above
C10080518-020	TW4-16R	08/10/10 11:00	08/13/10	Aqueous	Same As Above
C10080518-021	TW4-5	08/11/10 06:17	08/13/10	Aqueous	Same As Above
C10080518-022	TW4-26	08/11/10 07:04	08/13/10	Aqueous	Same As Above
C10080518-023	TW4-18	08/12/10 07:20	08/13/10	Aqueous	Same As Above
C10080518-024	TW4-21	08/12/10 07:30	08/13/10	Aqueous	Same As Above
C10080518-025	TW4-10	08/12/10 07:57	08/13/10	Aqueous	Same As Above
C10080518-026	TW4-22	08/12/10 07:48	08/13/10	Aqueous	Same As Above
C10080518-027	TW4-6	08/12/10 08:07	08/13/10	Aqueous	Same As Above

ANALYTICAL SUMMARY REPORT

C10080518-028	TW4-11	08/12/10 08:18 08/13/10	Aqueous	Same As Above
C10080518-029	TW4-65	08/12/10 07:30 08/13/10	Aqueous	Same As Above
C10080518-030	TW4-5R	08/10/10 12:50 08/13/10	Aqueous	Same As Above
C10080518-031	TW4-26R	08/10/10 14:14 08/13/10	Aqueous	Same As Above
C10080518-032	TW4-18R	08/11/10 07:53 08/13/10	Aqueous	Same As Above
C10080518-033	TW4-21R	08/11/10 08:43 08/13/10	Aqueous	Same As Above
C10080518-034	TW4-10R	08/11/10 09:30 08/13/10	Aqueous	Same As Above
C10080518-035	TW4-22R	08/11/10 10:14 08/13/10	Aqueous	Same As Above
C10080518-036	TW4-6R	08/11/10 10:56 08/13/10	Aqueous	Same As Above
C10080518-037	TW4-11R	08/11/10 12:51 08/13/10	Aqueous	Same As Above
C10080518-038	Trip Blank	08/12/10 00:00 08/13/10	Aqueous	SW8260B VOCs, Standard List
C10080518-039	Temp Blank	08/12/10 00:00 08/13/10	Aqueous	Temperature

This report was prepared by Energy Laboratories, Inc., 2393 Salt Creek Hwy., Casper, WY 82601. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

The results as reported relate only to the item(s) submitted for testing.

If you have any questions regarding these test results, please call.

Report Approved By:

Stephanie D Waldrop
Reporting Supervisor

Digitally signed by
Stephanie Waldrop
Date: 2010.09.03 12:34:42 -06:00

CLIENT: Denison Mines USA Corp
Project: 3rd Quarter Chloroform 2010
Sample Delivery Group: C10080518

Report Date: 09/03/10

CASE NARRATIVE

ORIGINAL SAMPLE SUBMITTAL(S)
All original sample submittals have been returned with the data package.

SAMPLE TEMPERATURE COMPLIANCE: 4°C (±2°C)
Temperature of samples received may not be considered properly preserved by accepted standards. Samples that are hand delivered immediately after collection shall be considered acceptable if there is evidence that the chilling process has begun.

GROSS ALPHA ANALYSIS
Method 900.0 for gross alpha and gross beta is intended as a drinking water method for low TDS waters. Data provided by this method for non potable waters should be viewed as inconsistent.

RADON IN AIR ANALYSIS
The desired exposure time is 48 hours (2 days). The time delay in returning the canister to the laboratory for processing should be as short as possible to avoid excessive decay. Maximum recommended delay between end of exposure to beginning of counting should not exceed 8 days.

SOIL/SOLID SAMPLES
All samples reported on an as received basis unless otherwise indicated.

ATRAZINE, SIMAZINE AND PCB ANALYSIS
Data for PCBs, Atrazine and Simazine are reported from EPA 525.2. PCB data reported by ELI reflects the results for seven individual Aroclors. When the results for all seven are ND (not detected), the sample meets EPA compliance criteria for PCB monitoring.

SUBCONTRACTING ANALYSIS
Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories will be indicated within the Laboratory Analytical Report.

BRANCH LABORATORY LOCATIONS
eli-b - Energy Laboratories, Inc. - Billings, MT
eli-g - Energy Laboratories, Inc. - Gillette, WY
eli-h - Energy Laboratories, Inc. - Helena, MT
eli-r - Energy Laboratories, Inc. - Rapid City, SD
eli-t - Energy Laboratories, Inc. - College Station, TX

CERTIFICATIONS:
USEPA: WY00002, Radiochemical WY00937; FL-DOH NELAC: E87641, Radiochemical E871017; California: 02118CA; Oregon: WY200001; Utah: 3072350515; Virginia: 00057; Washington: C1903

ISO 17025 DISCLAIMER:
The results of this Analytical Report relate only to the items submitted for analysis.

ENERGY LABORATORIES, INC. - CASPER,WY certifies that certain method selections contained in this report meet requirements as set forth by the above accrediting authorities. Some results requested by the client may not be covered under these certifications. All analysis data to be submitted for regulatory enforcement should be certified in the sample state of origin. Please verify ELI's certification coverage by visiting www.energylab.com

ELI appreciates the opportunity to provide you with this analytical service. For additional information and services visit our web page www.energylab.com.

QA/QC Summary Report

Client: Denison Mines USA Corp
Project: 3rd Quarter Chloroform 2010

Report Date: 09/03/10
Work Order: C10080518

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-Cl B									Batch: 100824C-CL-TTR-W	
Sample ID: MBLK9-100824C		Method Blank				Run: TITRATION_100824A			08/24/10 09:25	
Chloride		ND	mg/L	0.5						
Sample ID: C10080518-008AMS		Sample Matrix Spike				Run: TITRATION_100824A			08/24/10 11:14	
Chloride		125	mg/L	1.0	96	90	110			
Sample ID: C10080518-008AMSD		Sample Matrix Spike Duplicate				Run: TITRATION_100824A			08/24/10 11:16	
Chloride		127	mg/L	1.0	98	90	110	1.4	10	
Sample ID: LCS35-100824C		Laboratory Control Sample				Run: TITRATION_100824A			08/24/10 11:21	
Chloride		3540	mg/L	1.0	100	90	110			
Sample ID: C10080518-020AMS		Sample Matrix Spike				Run: TITRATION_100824A			08/24/10 11:45	
Chloride		35.8	mg/L	1.0	101	90	110			
Sample ID: C10080518-020AMSD		Sample Matrix Spike Duplicate				Run: TITRATION_100824A			08/24/10 11:47	
Chloride		36.1	mg/L	1.0	102	90	110	0.9	10	
Sample ID: C10080518-028AMS		Sample Matrix Spike				Run: TITRATION_100824A			08/24/10 12:16	
Chloride		222	mg/L	1.0	101	90	110			
Sample ID: C10080518-028AMSD		Sample Matrix Spike Duplicate				Run: TITRATION_100824A			08/24/10 12:18	
Chloride		224	mg/L	1.0	102	90	110	0.8	10	
Sample ID: C10080518-037AMS		Sample Matrix Spike				Run: TITRATION_100824A			08/24/10 12:41	
Chloride		35.8	mg/L	1.0	101	90	110			
Sample ID: C10080518-037AMSD		Sample Matrix Spike Duplicate				Run: TITRATION_100824A			08/24/10 12:43	
Chloride		36.1	mg/L	1.0	102	90	110	0.9	10	
Method: A4500-Cl B									Batch: 100831A-CL-TTR-W	
Sample ID: MBLK9-100831A		Method Blank				Run: TITRATION_100831A			08/31/10 10:57	
Chloride		ND	mg/L	0.5						
Sample ID: C10080518-029AMS		Sample Matrix Spike				Run: TITRATION_100831A			08/31/10 13:49	
Chloride		632	mg/L	1.0	102	90	110			
Sample ID: C10080518-029AMSD		Sample Matrix Spike Duplicate				Run: TITRATION_100831A			08/31/10 13:51	
Chloride		632	mg/L	1.0	102	90	110	0	10	
Sample ID: LCS35-100831A		Laboratory Control Sample				Run: TITRATION_100831A			08/31/10 14:22	
Chloride		3610	mg/L	1.0	102	90	110			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: Denison Mines USA Corp
Project: 3rd Quarter Chloroform 2010

Report Date: 09/03/10
Work Order: C10080518

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E353.2										Batch: R136521
Sample ID: MBLK-1		Method Blank				Run: TECHNICON_100826B				08/26/10 12:34
Nitrogen, Nitrate+Nitrite as N		ND	mg/L	0.04						
Sample ID: LCS-2		Laboratory Control Sample				Run: TECHNICON_100826B				08/26/10 12:36
Nitrogen, Nitrate+Nitrite as N		2.39	mg/L	0.10	96	90	110			
Sample ID: C10080518-011BMS		Sample Matrix Spike				Run: TECHNICON_100826B				08/26/10 13:29
Nitrogen, Nitrate+Nitrite as N		2.06	mg/L	0.10	103	90	110			
Sample ID: C10080518-011BMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_100826B				08/26/10 13:31
Nitrogen, Nitrate+Nitrite as N		2.13	mg/L	0.10	106	90	110	3.3	10	
Sample ID: C10080518-020BMS		Sample Matrix Spike				Run: TECHNICON_100826B				08/26/10 14:11
Nitrogen, Nitrate+Nitrite as N		2.06	mg/L	0.10	101	90	110			
Sample ID: C10080518-020BMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_100826B				08/26/10 14:14
Nitrogen, Nitrate+Nitrite as N		2.09	mg/L	0.10	102	90	110	1.4	10	
Sample ID: C10080518-031BMS		Sample Matrix Spike				Run: TECHNICON_100826B				08/26/10 14:49
Nitrogen, Nitrate+Nitrite as N		2.08	mg/L	0.10	104	90	110			
Sample ID: C10080518-031BMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_100826B				08/26/10 14:51
Nitrogen, Nitrate+Nitrite as N		2.11	mg/L	0.10	105	90	110	1.4	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: Denison Mines USA Corp
Project: 3rd Quarter Chloroform 2010

Report Date: 09/03/10
Work Order: C10080518

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										Batch: R136231
Sample ID: 18-Aug-10_LCS_5	8	Laboratory Control Sample				Run: 5975VOC1_100818A				08/18/10 11:49
Carbon tetrachloride		11	ug/L	1.0	108	70	130			
Chloroform		11	ug/L	1.0	107	70	130			
Chloromethane		10	ug/L	1.0	100	70	130			
Methylene chloride		10	ug/L	1.0	101	70	130			
Surr: 1,2-Dichlorobenzene-d4				1.0	90	80	120			
Surr: Dibromofluoromethane				1.0	87	70	130			
Surr: p-Bromofluorobenzene				1.0	101	80	130			
Surr: Toluene-d8				1.0	93	80	120			
Sample ID: 18-Aug-10_MBLK_7	8	Method Blank				Run: 5975VOC1_100818A				08/18/10 12:59
Carbon tetrachloride		ND	ug/L	1.0						
Chloroform		ND	ug/L	1.0						
Chloromethane		ND	ug/L	1.0						
Methylene chloride		ND	ug/L	1.0						
Surr: 1,2-Dichlorobenzene-d4				1.0	102	80	120			
Surr: Dibromofluoromethane				1.0	92	70	130			
Surr: p-Bromofluorobenzene				1.0	105	80	120			
Surr: Toluene-d8				1.0	86	80	120			
Sample ID: C10080518-019CMS	8	Sample Matrix Spike				Run: 5975VOC1_100818A				08/18/10 18:53
Carbon tetrachloride		120	ug/L	10	124	70	130			
Chloroform		120	ug/L	10	121	70	130			
Chloromethane		110	ug/L	10	113	70	130			
Methylene chloride		120	ug/L	10	117	70	130			
Surr: 1,2-Dichlorobenzene-d4				1.0	87	80	120			
Surr: Dibromofluoromethane				1.0	98	70	130			
Surr: p-Bromofluorobenzene				1.0	101	80	120			
Surr: Toluene-d8				1.0	95	80	120			
Sample ID: C10080518-019CMSD	8	Sample Matrix Spike Duplicate				Run: 5975VOC1_100818A				08/18/10 19:29
Carbon tetrachloride		120	ug/L	10	123	70	130	1	20	
Chloroform		120	ug/L	10	120	70	130	1	20	
Chloromethane		120	ug/L	10	116	70	130	2.5	20	
Methylene chloride		110	ug/L	10	115	70	130	2.1	20	
Surr: 1,2-Dichlorobenzene-d4				1.0	87	80	120	0	10	
Surr: Dibromofluoromethane				1.0	96	70	130	0	10	
Surr: p-Bromofluorobenzene				1.0	101	80	120	0	10	
Surr: Toluene-d8				1.0	94	80	120	0	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: Denison Mines USA Corp
Project: 3rd Quarter Chloroform 2010

Report Date: 09/03/10
Work Order: C10080518

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										Batch: R136412
Sample ID: 20-Aug-10_MBLK_6	8	Method Blank				Run: 5975VOC1_100820C				08/20/10 13:16
Carbon tetrachloride		ND	ug/L	1.0						
Chloroform		ND	ug/L	1.0						
Chloromethane		ND	ug/L	1.0						
Methylene chloride		ND	ug/L	1.0						
Surr: 1,2-Dichlorobenzene-d4				1.0	110	80	120			
Surr: Dibromofluoromethane				1.0	92	70	130			
Surr: p-Bromofluorobenzene				1.0	120	80	120			
Surr: Toluene-d8				1.0	95	80	120			
Sample ID: 20-AUG-10_LCS_9	8	Laboratory Control Sample				Run: 5975VOC1_100820C				08/20/10 15:10
Carbon tetrachloride		11	ug/L	1.0	108	70	130			
Chloroform		11	ug/L	1.0	106	70	130			
Chloromethane		11	ug/L	1.0	108	70	130			
Methylene chloride		10	ug/L	1.0	101	70	130			
Surr: 1,2-Dichlorobenzene-d4				1.0	105	80	120			
Surr: Dibromofluoromethane				1.0	96	70	130			
Surr: p-Bromofluorobenzene				1.0	106	80	130			
Surr: Toluene-d8				1.0	97	80	120			
Sample ID: C10080518-029CMS	8	Sample Matrix Spike				Run: 5975VOC1_100820C				08/20/10 21:01
Carbon tetrachloride		12000	ug/L	1000	125	70	130			
Chloroform		13000	ug/L	1000	125	70	130			
Chloromethane		13000	ug/L	1000	128	70	130			
Methylene chloride		15000	ug/L	1000	147	70	130			S
Surr: 1,2-Dichlorobenzene-d4				1.0	109	80	120			
Surr: Dibromofluoromethane				1.0	113	70	130			
Surr: p-Bromofluorobenzene				1.0	94	80	120			
Surr: Toluene-d8				1.0	97	80	120			
- Spike recovery is high for one analyte. This is a matrix related bias since the MS MSD pair both exhibit this same behavior yet have an acceptable RPD.										
Sample ID: C10080518-029CMSD	8	Sample Matrix Spike Duplicate				Run: 5975VOC1_100820C				08/20/10 21:36
Carbon tetrachloride		12000	ug/L	1000	119	70	130	4.9	20	
Chloroform		13000	ug/L	1000	126	70	130	0.3	20	
Chloromethane		12000	ug/L	1000	120	70	130	5.8	20	
Methylene chloride		14000	ug/L	1000	140	70	130	4.5	20	S
Surr: 1,2-Dichlorobenzene-d4				1.0	106	80	120	0	10	
Surr: Dibromofluoromethane				1.0	108	70	130	0	10	
Surr: p-Bromofluorobenzene				1.0	100	80	120	0	10	
Surr: Toluene-d8				1.0	96	80	120	0	10	
- Spike recovery is high for one analyte. This is a matrix related bias since the MS MSD pair both exhibit this same behavior yet have an acceptable RPD.										
Sample ID: 26-Aug-10_LCS_3	8	Laboratory Control Sample				Run: 5975VOC1_100820C				08/26/10 12:43
Carbon tetrachloride		9.8	ug/L	1.0	98	70	130			
Chloroform		10	ug/L	1.0	100	70	130			
Chloromethane		10	ug/L	1.0	102	70	130			
Methylene chloride		9.8	ug/L	1.0	98	70	130			

Qualifiers:

RL - Analyte reporting limit.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: Denison Mines USA Corp
Project: 3rd Quarter Chloroform 2010

Report Date: 09/03/10
Work Order: C10080518

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										Batch: R136412
Sample ID: 26-Aug-10_LCS_3	8	Laboratory Control Sample				Run: 5975VOC1_100820C				08/26/10 12:43
Surr: 1,2-Dichlorobenzene-d4				1.0	97	80	120			
Surr: Dibromofluoromethane				1.0	90	70	130			
Surr: p-Bromofluorobenzene				1.0	86	80	130			
Surr: Toluene-d8				1.0	83	80	120			
Sample ID: 26-Aug-10_MBLK_6	8	Method Blank				Run: 5975VOC1_100820C				08/26/10 14:29
Carbon tetrachloride		ND	ug/L	1.0						
Chloroform		ND	ug/L	1.0						
Chloromethane		ND	ug/L	1.0						
Methylene chloride		ND	ug/L	1.0						
Surr: 1,2-Dichlorobenzene-d4				1.0	102	80	120			
Surr: Dibromofluoromethane				1.0	91	70	130			
Surr: p-Bromofluorobenzene				1.0	103	80	120			
Surr: Toluene-d8				1.0	83	80	120			
Sample ID: C10080785-009CMS	8	Sample Matrix Spike				Run: 5975VOC1_100820C				08/26/10 20:42
Carbon tetrachloride		14000	ug/L	1000	140	70	130			S
Chloroform		29000	ug/L	1000	141	70	130			S
Chloromethane		16000	ug/L	1000	156	70	130			S
Methylene chloride		13000	ug/L	1000	125	70	130			
Surr: 1,2-Dichlorobenzene-d4				1.0	101	80	120			
Surr: Dibromofluoromethane				1.0	108	70	130			
Surr: p-Bromofluorobenzene				1.0	93	80	120			
Surr: Toluene-d8				1.0	94	80	120			
- Spike recovery is high for several analytes. This is a matrix related bias since the MS MSD pair both exhibit this same behavior yet have an acceptable RPD.										
Sample ID: C10080785-009CMSD	8	Sample Matrix Spike Duplicate				Run: 5975VOC1_100820C				08/26/10 21:16
Carbon tetrachloride		14000	ug/L	1000	138	70	130	2	20	S
Chloroform		29000	ug/L	1000	136	70	130	1.9	20	S
Chloromethane		14000	ug/L	1000	142	70	130	9.4	20	S
Methylene chloride		13000	ug/L	1000	127	70	130	1.3	20	
Surr: 1,2-Dichlorobenzene-d4				1.0	101	80	120	0	10	
Surr: Dibromofluoromethane				1.0	112	70	130	0	10	
Surr: p-Bromofluorobenzene				1.0	93	80	120	0	10	
Surr: Toluene-d8				1.0	97	80	120	0	10	
- Spike recovery is high for several analytes. This is a matrix related bias since the MS MSD pair both exhibit this same behavior yet have an acceptable RPD.										

Qualifiers:

RL - Analyte reporting limit.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

Workorder Receipt Checklist

Denison Mines USA Corp

C10080518

Login completed by: Tabitha Edwards

Reviewed by: BL2000\kschroeder

Reviewed Date: 8/17/2010

Date Received: 8/13/2010

Received by: ha

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature:	2°C On Ice		
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	Not Applicable ☐

Contact and Corrective Action Comments:

None

ENERGY LABORATORIES

Chain of Custody and Analytical Request Record

PLEASE PRINT (Provide as much information as possible.)

Company Name: Denison Mines	Project Name, PWS, Permit, Etc.: 3rd Quarter Chloroform 2010	Sample Origin State: UT	EPA/State Compliance: Yes ☒ No ☐
Report Mail Address: PO BOX 809 Blanding UT 84511	Contact Name: Ryan Palmer Phone/Fax: 435 678 2221	Email:	Sampler: (Please Print) Tanner Holliday
Invoice Address: Same	Invoice Contact & Phone: Same	Purchase Order:	Quote/Bottle Order:

Special Report/Formats:

☐ DW ☐ EDD/EDT (Electronic Data)
☐ POTW/WWTP Format: _____
☐ State: _____ ☐ LEVEL IV
☐ Other: _____ ☐ NELAC

Number of Containers
Sample Type: A W S V B O DW
Air Water Solids/Solids
Vegetation Bioassay Other
DW - Drinking Water

ANALYSIS REQUESTED

Standard Turnaround (TAT)

RUSH

Contact ELI prior to RUSH sample submittal for charges and scheduling – See Instruction Page

Comments:

Shipped by: FCLCX
Cooler ID(s): Client
Receipt Temp: 2 °C
On Ice: Y N
Custody Seal: On Bottle Y N; On Cooler Y N
Intact Y N
Signature Match Y N

	SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX	Quote # C2975									SEE ATTACHED				LABORATORY USE ONLY
1	TW4-3	8-10-2010	0627	5-W	X													C10080518
2	TW4-12	8-10-2010	0746	5-W	X													
3	TW4-13	8-10-2010	0756	5-W	X													
4	TW4-14	8-10-2010	0806	5-W	X													
5	TW4-23	8-10-2010	0640	5-W	X													
6	TW4-25	8-10-2010	0607	5-W	X													
7	TW4-8	8-11-2010	0648	5-W	X													
8	TW4-9	8-11-2010	0632	5-W	X													
9	TW4-24	8-11-2010	0604	5-W	X													
10	[illegible]-16	8-11-2010	0721	5-W	X													

Custody Record MUST be Signed

Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
Tanner Holliday	8-12-2010 1130	Tanner Holliday			
Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
			Received by Laboratory: [illegible]	Date/Time: 8/13/10 8:40	Signature:

Sample Disposal: Return to Client: _____ Lab Disposal: _____

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Chain of Custody and Analytical Request Record

PLEASE PRINT (Provide as much information as possible.)

Company Name:	Project Name, PWS, Permit, Etc.	Sample Origin	EPA/State Compliance:
Denison Mines	3rd Quarter chlorform 2010	State: UT	Yes ☒ No ☐
Report Mail Address:	**Contact Name:** / **Phone/Fax:**	**Email:**	**Sampler: (Please Print)**
[redacted] PO BOX 809 Blanding, UT 84511	Ryan Palmer 435 678 2221		Tanner Holliday
Invoice Address:	**Invoice Contact & Phone:**	**Purchase Order:**	**Quote/Bottle Order:**
Same	Same		

Special Report/Formats:

- ☐ DW
- ☐ POTW/WWTP
- ☐ State: _____
- ☐ Other: _____
- ☐ EDD/EDT (Electronic Data) Format: _____
- ☐ LEVEL IV
- ☐ NELAC

ANALYSIS REQUESTED

Number of Containers
Sample Type: A W S V B O DW
Air Water Soils/Solids
Vegetation Bioassay Other
DW - Drinking Water

Standard Turnaround (TAT) — RUSH

Contact ELI prior to **RUSH** sample submittal for charges and scheduling – See Instruction Page

Comments:

Shipped by: FedEx

Cooler ID(s): Client

Receipt Temp: 2 °C

On Ice: Y N

Custody Seal: On Bottle Y N; On Cooler Y N

Intact: Y N

Signature Match: Y N

	SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX	Quote # C2975									SEE ATTACHED
1	TW4-3R	8-9-2010	0841	5-W	X									
2	TW4-12R	8-9-2010	0928	5-W	X									
3	TW4-13R	8-9-2010	1026	5-W	X									
4	TW4-14R	8-9-2010	1226	5-W	X									
5	TW4-23R	8-9-2010	1306	5-W	X									
6	TW4-25R	8-9-2010	1411	5-W	X									
7	TW4-8R	8-10-2010	0840	5-W	X									
8	TW4-9R	8-10-2010	0927	5-W	X									
9	TW4-24R	8-10-2010	1018	5-W	X									
10	TW4-16R	8-10-2010	1100	5-W	X									

LABORATORY USE ONLY: C10080518

Custody Record MUST be Signed

Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
Tanner Holliday	8-12-2010 1130	Tanner Holliday			
Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
			Received by Laboratory: Lacxeman	Date/Time: 8/13/10 8:46	Signature:

Sample Disposal: Return to Client: _____ Lab Disposal: _____

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Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.

ENERGY LABORATORIES

Chain of Custody and Analytical Request Record

PLEASE PRINT (Provide as much information as possible.)

Company Name: Denison Mines	Project Name, PWS, Permit, Etc.: 3rd Quarter Chloroform 2010	Sample Origin State: UT	EPA/State Compliance: Yes ☒ No ☐
Report Mail Address: PO BOX 809 Blanding UT 84511	Contact Name: Ryan Palmer Phone/Fax: 435 678 2221	Email:	Sampler: (Please Print) Tanner Holliday
Invoice Address: Same	Invoice Contact & Phone: Same	Purchase Order:	Quote/Bottle Order:

Special Report/Formats:

☐ DW ☐ EDD/EDT (Electronic Data)
☐ POTW/WWTP Format: _____
☐ State: _____ ☐ LEVEL IV
☐ Other: _____ ☐ NELAC

Number of Containers
Sample Type: A W S V B O DW
Air Water Soils/Solids
Vegetation Bioassay Other
DW - Drinking Water

ANALYSIS REQUESTED

Standard Turnaround (TAT)

RUSH

Contact ELI prior to **RUSH** sample submittal for charges and scheduling – See Instruction Page

Comments:

Shipped by: FedEx
Cooler ID(s): Client
Receipt Temp: 2 °C
On Ice: Y N
Custody Seal On Bottle Y N
On Cooler Y N
Intact Y N
Signature Match Y N

	SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX	Quote # C2975									SEE ATTACHED				LABORATORY USE ONLY
1	TW4-5	8-11-2010	0617	5-W	X													C10080518
2	TW4-26	8-11-2010	0704	5-W	X													
3	TW4-18	8-12-2010	0720	5-W	X													
4	TW4-21	8-12-2010	0730	5-W	X													
5	TW4-10	8-12-2010	0757	5-W	X													
6	TW4-22	8-12-2010	0748	5-W	X													
7	TW4-6	8-12-2010	0807	5-W	X													
8	TW4-11	8-12-2010	0818	5-W	X													
9	TW4-65	8-12-2010	0730	5-W	X													
10																		

Custody Record MUST be Signed

Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
Tanner Holliday	8-12-2010 1130	Tanner Holliday			
Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
			Received by Laboratory: [signature]	Date/Time: 8/13/10 8:46	Signature:

Sample Disposal: Return to Client: _____ Lab Disposal: _____

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ENERGY LABORATORIES

Chain of Custody and Analytical Request Record

PLEASE PRINT (Provide as much information as possible.)

Company Name: Denison Mines	Project Name, PWS, Permit, Etc.: 3rd Quarter Chloroform 2010	Sample Origin State: UT	EPA/State Compliance: Yes ☒ No ☐
Report Mail Address: PO BOX 809 Blanding, UT	Contact Name: Ryan Palmer Phone/Fax: 435-678-2221	Email:	Sampler: (Please Print) Tanner Holliday
Invoice Address: Same	Invoice Contact & Phone: Same	Purchase Order:	Quote/Bottle Order:

Special Report/Formats:

☐ DW ☐ EDD/EDT (Electronic Data)
☐ POTW/WWTP Format: _____
☐ State: _____ ☐ LEVEL IV
☐ Other: _____ ☐ NELAC

Number of Containers
Sample Type: A W S V B O DW
Air Water Soils/Solids
Vegetation Bioassay Other
DW - Drinking Water

ANALYSIS REQUESTED

Standard Turnaround (TAT)

RUSH

Contact ELI prior to RUSH sample submittal for charges and scheduling – See Instruction Page

Comments:

Shipped by: Fedex
Cooler ID(s): Cl14 AL
Receipt Temp: 2 °C
On Ice: Y N
Custody Seal: On Bottle Y N; On Cooler Y N
Intact Y N
Signature Match Y N

	SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX	Quote # C2975									SEE ATTACHED	Standard Turnaround (TAT)	RUSH	Comments	LABORATORY USE ONLY
1	TW4-5R	8-10-2010	1250	S-W	X													C10080518
2	TW4-26R	8-10-2010	1414	S-W	X													
3	TW4-18R	8-11-2010	0753	S-W	X													
4	TW4-21R	8-11-2010	0843	S-W	X													
5	TW4-10R	8-11-2010	0930	S-W	X													
6	TW4-22R	8-11-2010	1014	S-W	X													
7	TW4-6R	8-11-2010	1056	S-W	X													
8	TW4-11R	8-11-2010	1251	S-W	X													
9	[redacted]			[redacted]														
10	TRIP BLANK / TEMP BLANK																	

Custody Record MUST be Signed

Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
Tanner Holliday	8-12-2010 1130	Tanner Holliday			
Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
			Received by Laboratory: HAcceman	Date/Time: 8/13/10 8:26	Signature:

Sample Disposal: Return to Client: _____ Lab Disposal: _____

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Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.

ANALYTICAL SUMMARY REPORT

October 22, 2010

Denison Mines USA Corp
6425 S Hwy 191
Blanding, UT 84511

Workorder No.: C10080785 Quote ID: C2975 - Chloroform Sampling

Project Name: 3rd Quarter Chloroform

Energy Laboratories, Inc. received the following 16 samples for Denison Mines USA Corp on 8/20/2010 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C10080785-001	TW4-17	08/16/10 13:40	08/20/10	Aqueous	Chloride Nitrogen, Nitrate + Nitrite SW8260B VOCs, Standard List
C10080785-002	TW4-19	08/16/10 09:58	08/20/10	Aqueous	Same As Above
C10080785-003	TW4-15	08/16/10 14:15	08/20/10	Aqueous	Same As Above
C10080785-004	TW4-7	08/18/10 08:27	08/20/10	Aqueous	Same As Above
C10080785-005	TW4-1	08/18/10 08:37	08/20/10	Aqueous	Same As Above
C10080785-006	TW4-4	08/16/10 10:52	08/20/10	Aqueous	Same As Above
C10080785-007	MW-4	08/16/10 10:33	08/20/10	Aqueous	Same As Above
C10080785-008	TW4-2	08/18/10 08:17	08/20/10	Aqueous	Same As Above
C10080785-009	TW4-20	08/16/10 12:22	08/20/10	Aqueous	Same As Above
C10080785-010	TW4-60	08/17/10 14:30	08/20/10	Aqueous	Same As Above
C10080785-011	TW4-70	08/16/10 13:40	08/20/10	Aqueous	Same As Above
C10080785-012	Trip Blank	08/18/10 08:37	08/20/10	Aqueous	SW8260B VOCs, Standard List
C10080785-013	TW4-7R	08/17/10 08:36	08/20/10	Aqueous	Chloride Nitrogen, Nitrate + Nitrite SW8260B VOCs, Standard List
C10080785-014	TW4-1R	08/17/10 09:20	08/20/10	Aqueous	Same As Above
C10080785-015	TW4-2R	08/17/10 10:03	08/20/10	Aqueous	Same As Above
C10080785-016	Temp Blank	08/18/10 00:00	08/20/10	Aqueous	Temperature

This report was prepared by Energy Laboratories, Inc., 2393 Salt Creek Hwy., Casper, WY 82601. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

The results as reported relate only to the item(s) submitted for testing.

If you have any questions regarding these test results, please call.

Report Approved By:

Stephanie D Waldrop
Reporting Supervisor

Digitally signed by
Stephanie Waldrop
Date: 2010.10.22 11:35:06 -06:00

CLIENT: Denison Mines USA Corp
Project: 3rd Quarter Chloroform
Sample Delivery Group: C10080785

Revised Date: 10/22/10
Report Date: 09/08/10

CASE NARRATIVE

REVISED/SUPPLEMENTAL REPORT
The attached analytical report has been revised from a previously submitted report due to the request by Kathy Weinel on October 14, 2010 to change the collection date on sample TW4-2 from 8/16/10 to 8/18/10.

ORIGINAL SAMPLE SUBMITTAL(S)
All original sample submittals have been returned with the data package.

SAMPLE TEMPERATURE COMPLIANCE: 4°C (±2°C)
Temperature of samples received may not be considered properly preserved by accepted standards. Samples that are hand delivered immediately after collection shall be considered acceptable if there is evidence that the chilling process has begun.

GROSS ALPHA ANALYSIS
Method 900.0 for gross alpha and gross beta is intended as a drinking water method for low TDS waters. Data provided by this method for non potable waters should be viewed as inconsistent.

RADON IN AIR ANALYSIS
The desired exposure time is 48 hours (2 days). The time delay in returning the canister to the laboratory for processing should be as short as possible to avoid excessive decay. Maximum recommended delay between end of exposure to beginning of counting should not exceed 8 days.

SOIL/SOLID SAMPLES
All samples reported on an as received basis unless otherwise indicated.

ATRAZINE, SIMAZINE AND PCB ANALYSIS
Data for PCBs, Atrazine and Simazine are reported from EPA 525.2. PCB data reported by ELI reflects the results for seven individual Aroclors. When the results for all seven are ND (not detected), the sample meets EPA compliance criteria for PCB monitoring.

SUBCONTRACTING ANALYSIS
Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories will be indicated within the Laboratory Analytical Report.

BRANCH LABORATORY LOCATIONS
eli-b - Energy Laboratories, Inc. - Billings, MT
eli-g - Energy Laboratories, Inc. - Gillette, WY
eli-h - Energy Laboratories, Inc. - Helena, MT
eli-r - Energy Laboratories, Inc. - Rapid City, SD
eli-t - Energy Laboratories, Inc. - College Station, TX

CERTIFICATIONS:
USEPA: WY00002, Radiochemical WY00937; FL-DOH NELAC: E87641, Radiochemical E871017; California: 02118CA; Oregon: WY200001; Utah: 3072350515; Virginia: 00057; Washington: C1903

ISO 17025 DISCLAIMER:
The results of this Analytical Report relate only to the items submitted for analysis.

ENERGY LABORATORIES, INC. - CASPER,WY certifies that certain method selections contained in this report meet requirements as set forth by the above accrediting authorities. Some results requested by the client may not be covered under these certifications. All analysis data to be submitted for regulatory enforcement should be certified in the sample state of origin. Please verify ELI's certification coverage by visiting www.energylab.com

ELI appreciates the opportunity to provide you with this analytical service. For additional information and services visit our web page www.energylab.com.

QA/QC Summary Report

Revised Date: 10/22/10
Report Date: 09/08/10
Work Order: C10080785

Client: Denison Mines USA Corp
Project: 3rd Quarter Chloroform

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-Cl B									Batch: 100831A-CL-TTR-W	
Sample ID: MBLK9-100831A		Method Blank				Run: TITRATION_100831A			08/31/10 10:57	
Chloride		ND	mg/L	0.5						
Sample ID: C10080785-008AMS		Sample Matrix Spike				Run: TITRATION_100831A			08/31/10 14:19	
Chloride		228	mg/L	1.0	104	90	110			
Sample ID: C10080785-008AMSD		Sample Matrix Spike Duplicate				Run: TITRATION_100831A			08/31/10 14:20	
Chloride		226	mg/L	1.0	103	90	110	0.8	10	
Sample ID: LCS35-100831A		Laboratory Control Sample				Run: TITRATION_100831A			08/31/10 14:22	
Chloride		3610	mg/L	1.0	102	90	110			
Sample ID: C10080785-011AMS		Sample Matrix Spike				Run: TITRATION_100831A			08/31/10 14:45	
Chloride		212	mg/L	1.0	105	90	110			
Sample ID: C10080785-011AMSD		Sample Matrix Spike Duplicate				Run: TITRATION_100831A			08/31/10 14:47	
Chloride		207	mg/L	1.0	102	90	110	2.5	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Revised Date: 10/22/10
Report Date: 09/08/10
Work Order: C10080785

Client: Denison Mines USA Corp
Project: 3rd Quarter Chloroform

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E353.2										Batch: R136823
Sample ID: MBLK-1		Method Blank				Run: TECHNICON_100902A				09/02/10 13:07
Nitrogen, Nitrate+Nitrite as N		ND	mg/L	0.04						
Sample ID: LCS-2		Laboratory Control Sample				Run: TECHNICON_100902A				09/02/10 13:10
Nitrogen, Nitrate+Nitrite as N		2.42	mg/L	0.10	97	90	110			
Sample ID: C10080785-003BMS		Sample Matrix Spike				Run: TECHNICON_100902A				09/02/10 14:03
Nitrogen, Nitrate+Nitrite as N		2.57	mg/L	0.10	99	90	110			
Sample ID: C10080785-003BMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_100902A				09/02/10 14:05
Nitrogen, Nitrate+Nitrite as N		2.58	mg/L	0.10	99	90	110	0.4	10	
Sample ID: C10080785-015BMS		Sample Matrix Spike				Run: TECHNICON_100902A				09/02/10 14:43
Nitrogen, Nitrate+Nitrite as N		2.07	mg/L	0.10	103	90	110			
Sample ID: C10080785-015BMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_100902A				09/02/10 14:45
Nitrogen, Nitrate+Nitrite as N		2.04	mg/L	0.10	102	90	110	1.5	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Revised Date: 10/22/10
Report Date: 09/08/10
Work Order: C10080785

Client: Denison Mines USA Corp
Project: 3rd Quarter Chloroform

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B									Batch: R136612	
Sample ID: 27-Aug-10_MBLK_6	8	Method Blank				Run: GCMS2_100827A			08/27/10 12:32	
Carbon tetrachloride		ND	ug/L	1.0						
Chloroform		ND	ug/L	1.0						
Chloromethane		ND	ug/L	1.0						
Methylene chloride		ND	ug/L	1.0						
Surr: 1,2-Dichlorobenzene-d4				1.0	101	80	120			
Surr: Dibromofluoromethane				1.0	100	70	130			
Surr: p-Bromofluorobenzene				1.0	109	80	120			
Surr: Toluene-d8				1.0	90	80	120			
Sample ID: 27-Aug-10_LCS_7	8	Laboratory Control Sample				Run: GCMS2_100827A			08/27/10 13:07	
Carbon tetrachloride		12	ug/L	1.0	117	70	130			
Chloroform		12	ug/L	1.0	122	70	130			
Chloromethane		11	ug/L	1.0	108	70	130			
Methylene chloride		10	ug/L	1.0	104	70	130			
Surr: 1,2-Dichlorobenzene-d4				1.0	98	80	120			
Surr: Dibromofluoromethane				1.0	108	70	130			
Surr: p-Bromofluorobenzene				1.0	93	80	130			
Surr: Toluene-d8				1.0	99	80	120			
Sample ID: C10080785-002CMS	8	Sample Matrix Spike				Run: GCMS2_100827A			08/27/10 15:12	
Carbon tetrachloride		1100	ug/L	100	110	70	130			
Chloroform		2800	ug/L	100	80	70	130			
Chloromethane		990	ug/L	100	99	70	130			
Methylene chloride		1300	ug/L	100	132	70	130			S
Surr: 1,2-Dichlorobenzene-d4				1.0	99	80	120			
Surr: Dibromofluoromethane				1.0	102	70	130			
Surr: p-Bromofluorobenzene				1.0	96	80	120			
Surr: Toluene-d8				1.0	82	80	120			
Sample ID: C10080785-002CMSD	8	Sample Matrix Spike Duplicate				Run: GCMS2_100827A			08/27/10 15:47	
Carbon tetrachloride		1200	ug/L	100	121	70	130	9.7	20	
Chloroform		3300	ug/L	100	131	70	130	17	20	S
Chloromethane		960	ug/L	100	96	70	130	3.3	20	
Methylene chloride		1200	ug/L	100	120	70	130	9.8	20	
Surr: 1,2-Dichlorobenzene-d4				1.0	99	80	120	0	10	
Surr: Dibromofluoromethane				1.0	98	70	130	0	10	
Surr: p-Bromofluorobenzene				1.0	108	80	120	0	10	
Surr: Toluene-d8				1.0	86	80	120	0	10	

Qualifiers:

RL - Analyte reporting limit.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Revised Date: 10/22/10
Report Date: 09/08/10
Work Order: C10080785

Client: Denison Mines USA Corp
Project: 3rd Quarter Chloroform

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										Batch: R136662
Sample ID: 30-Aug-10_LCS_8	8	Laboratory Control Sample				Run: 5975VOC1_100830A			08/30/10 14:30	
Carbon tetrachloride		13	ug/L	1.0	127	70	130			
Chloroform		13	ug/L	1.0	127	70	130			
Chloromethane		14	ug/L	1.0	136	70	130			S
Methylene chloride		13	ug/L	1.0	126	70	130			
Surr: 1,2-Dichlorobenzene-d4				1.0	90	80	120			
Surr: Dibromofluoromethane				1.0	98	70	130			
Surr: p-Bromofluorobenzene				1.0	103	80	130			
Surr: Toluene-d8				1.0	95	80	120			
Sample ID: 30-Aug-10_MBLK_11	8	Method Blank				Run: 5975VOC1_100830A			08/30/10 16:16	
Carbon tetrachloride		ND	ug/L	1.0						
Chloroform		ND	ug/L	1.0						
Chloromethane		ND	ug/L	1.0						
Methylene chloride		ND	ug/L	1.0						
Surr: 1,2-Dichlorobenzene-d4				1.0	104	80	120			
Surr: Dibromofluoromethane				1.0	96	70	130			
Surr: p-Bromofluorobenzene				1.0	108	80	120			
Surr: Toluene-d8				1.0	87	80	120			
Sample ID: C10080785-015CMS	8	Sample Matrix Spike				Run: 5975VOC1_100830A			08/31/10 00:40	
Carbon tetrachloride		130	ug/L	10	134	70	130			S
Chloroform		130	ug/L	10	129	70	130			
Chloromethane		140	ug/L	10	135	70	130			S
Methylene chloride		130	ug/L	10	130	70	130			
Surr: 1,2-Dichlorobenzene-d4				1.0	89	80	120			
Surr: Dibromofluoromethane				1.0	105	70	130			
Surr: p-Bromofluorobenzene				1.0	104	80	120			
Surr: Toluene-d8				1.0	94	80	120			
- Spike recovery is high for several analytes. This is a matrix related bias since the MS MSD pair both exhibit this same behavior yet have an acceptable RPD.										
Sample ID: C10080785-015CMSD	8	Sample Matrix Spike Duplicate				Run: 5975VOC1_100830A			08/31/10 01:16	
Carbon tetrachloride		140	ug/L	10	143	70	130	6.4	20	S
Chloroform		140	ug/L	10	137	70	130	6.1	20	S
Chloromethane		140	ug/L	10	144	70	130	6.3	20	S
Methylene chloride		140	ug/L	10	137	70	130	4.8	20	S
Surr: 1,2-Dichlorobenzene-d4				1.0	89	80	120	0	10	
Surr: Dibromofluoromethane				1.0	105	70	130	0	10	
Surr: p-Bromofluorobenzene				1.0	104	80	120	0	10	
Surr: Toluene-d8				1.0	93	80	120	0	10	
- Spike recovery is high for several analytes. This is a matrix related bias since the MS MSD pair both exhibit this same behavior yet have an acceptable RPD.										

Qualifiers:

RL - Analyte reporting limit.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

Workorder Receipt Checklist

Denison Mines USA Corp

C10080785

Login completed by: Halley Ackerman

Date Received: 8/20/2010

Reviewed by: BL2000\kschroeder

Received by: ckw

Reviewed Date: 8/24/2010

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature:	2°C On Ice		
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	Not Applicable ☐

Contact and Corrective Action Comments:

ENERGY LABORATORIES

Chain of Custody and Analytical Request Record

PLEASE PRINT (Provide as much information as possible.)

Company Name: Denison Mines	Project Name, PWS, Permit, Etc.: 3rd Quarter Chloroform	Sample Origin State: UT	EPA/State Compliance: Yes ☑ No ☐
Report Mail Address: P.O. Box 809 Blanding UT 84511	Contact Name: Ryan Palmer Phone/Fax: 678 2221	Email:	Sampler: (Please Print) Tanner, Garrin
Invoice Address: Same	Invoice Contact & Phone: Same	Purchase Order:	Quote/Bottle Order:

Special Report/Formats:

- ☐ DW
- ☐ POTW/WWTP
- ☐ State: _____
- ☐ Other: _____
- ☐ EDD/EDT (Electronic Data) Format: _____
- ☐ LEVEL IV
- ☐ NELAC

ANALYSIS REQUESTED

Number of Containers
Sample Type: A W S V B O DW
Air Water Soils/Solids
Vegetation Bioassay Other
DW - Drinking Water

Quick # 2975

SEE ATTACHED

Standard Turnaround (TAT)

RUSH

Contact ELI prior to RUSH sample submittal for charges and scheduling – See Instruction Page

Comments:

Shipped by: Express
Cooler ID(s): Client
Receipt Temp: 2 °C
On Ice: (Y) N
Custody Seal: On Bottle Y N; On Cooler (Y) N; Intact (Y) N; Signature Match (Y) N

	SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX	Quick # 2975												
1	TW4-17	8-16-10	1340	S-W	X												
2	TW4-19	8-16-10	0958	S-W	X												
3	TW4-15	8-16-10	1415	S-W	X												
4	TW4-7	8-18-10	0827	S-W	X												
5	TW4-1	8-18-10	0837	S-W	X												
6	TW4-4	8-16-10	1052	S-W	X												
7	MW-4	8-16-10	1033	S-W	X												
8	TW4-2	8-16-10	0817	S-W	X												
9	TW4-20	8-16-10	1222	S-W	X												
10	TW4-60	8-17-10	1430	S-W	X												

LABORATORY USE ONLY: CR080785

Custody Record MUST be Signed

Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
Ryan Palmer	8.19.10 1400	[signature]			
Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
			Received by Laboratory: [signature]	Date/Time: 8/20/10 09:00	Signature:

Sample Disposal: Return to Client: _____ Lab Disposal: _____

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.

ENERGY LABORATORIES

Chain of Custody and Analytical Request Record

PLEASE PRINT (Provide as much information as possible.)

Company Name:	Project Name, PWS, Permit, Etc.	Sample Origin	EPA/State Compliance:
Denison Mines	3rd Quarter chloroform	State:	Yes ☐ No ☐
Report Mail Address:	**Contact Name:** / **Phone/Fax:**	**Email:**	**Sampler: (Please Print)**
P.O. Box 809 Blanding UT 84511	Ryan Palmer 678 2221		
Invoice Address:	**Invoice Contact & Phone:**	**Purchase Order:**	**Quote/Bottle Order:**
Same	Same		

Special Report/Formats:

☐ DW
☐ POTW/WWTP
☐ State: _____
☐ Other: _____
☐ EDD/EDT (Electronic Data) Format: _____
☐ LEVEL IV
☐ NELAC

ANALYSIS REQUESTED

Number of Containers
Sample Type: A W S V B O DW
Air Water Soils/Solids Vegetation Bioassay Other DW - Drinking Water

SEE ATTACHED

Check # 2975

Standard Turnaround (TAT)

RUSH

Contact ELI prior to RUSH sample submittal for charges and scheduling – See Instruction Page

Comments:

Shipped by: Express
Cooler ID(s): Client
Receipt Temp: 2 °C
On Ice: (Y) N
Custody Seal: On Bottle Y N; On Cooler (Y) N
Intact (Y) N
Signature Match (Y) N

	SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX	Check # 2975												
1	TW4-70	8-16-10	1340	5-W	X												
2	Trip Blank																
3																	
4	TW4-7R	8-17-10	0836	5-W	X												
5	TW4-1R	8-17-10	0920	5-W	X												
6	TW4-2R	8-17-10	1003	5-W	X												
7	Temp Blank																
8																	
9																	
10																	

LABORATORY USE ONLY: C10080785

Custody Record MUST be Signed

Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
Ryan Palmer	8-17-10 1400	[signature]			
Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
			Received by Laboratory: [signature]	Date/Time: 8/20/10 9:00	Signature:

Sample Disposal: Return to Client: _____ Lab Disposal: _____

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report.
Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.

ANALYTICAL SUMMARY REPORT

September 17, 2010

Denison Mines USA Corp
6425 S Hwy 191
Blanding, UT 84511

Workorder No.: C10081012 Quote ID: C2975 - Chloroform Sampling

Project Name: 3rd Quarter Chloroform

Energy Laboratories, Inc. received the following 10 samples for Denison Mines USA Corp on 8/27/2010 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C10081012-001	TW4-1	08/24/10 12:45	08/27/10	Aqueous	Chloride Nitrogen, Nitrate + Nitrite SW8260B VOCs, Standard List
C10081012-002	TW4-16	08/24/10 12:32	08/27/10	Aqueous	Same As Above
C10081012-003	TW4-22	08/24/10 12:21	08/27/10	Aqueous	Same As Above
C10081012-004	TW4-24	08/24/10 12:10	08/27/10	Aqueous	Same As Above
C10081012-005	TW4-1R	08/23/10 13:35	08/27/10	Aqueous	Same As Above
C10081012-006	TW4-16R	08/23/10 09:57	08/27/10	Aqueous	Same As Above
C10081012-007	TW4-22R	08/23/10 12:34	08/27/10	Aqueous	Same As Above
C10081012-008	TW4-24R	08/23/10 08:55	08/27/10	Aqueous	Same As Above
C10081012-009	Trip Blank	08/24/10 00:00	08/27/10	Aqueous	SW8260B VOCs, Standard List
C10081012-010	Temp Blank	08/24/10 12:32	08/27/10	Aqueous	Temperature

This report was prepared by Energy Laboratories, Inc., 2393 Salt Creek Hwy., Casper, WY 82601. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

The results as reported relate only to the item(s) submitted for testing.

If you have any questions regarding these test results, please call.

Report Approved By: Stephanie D Waldrop
Reporting Supervisor

Digitally signed by
Stephanie Waldrop
Date: 2010.09.17 17:48:27 -06:00

CLIENT: Denison Mines USA Corp
Project: 3rd Quarter Chloroform
Sample Delivery Group: C10081012

Report Date: 09/17/10

CASE NARRATIVE

ORIGINAL SAMPLE SUBMITTAL(S)
All original sample submittals have been returned with the data package.

SAMPLE TEMPERATURE COMPLIANCE: 4°C (±2°C)
Temperature of samples received may not be considered properly preserved by accepted standards. Samples that are hand delivered immediately after collection shall be considered acceptable if there is evidence that the chilling process has begun.

GROSS ALPHA ANALYSIS
Method 900.0 for gross alpha and gross beta is intended as a drinking water method for low TDS waters. Data provided by this method for non potable waters should be viewed as inconsistent.

RADON IN AIR ANALYSIS
The desired exposure time is 48 hours (2 days). The time delay in returning the canister to the laboratory for processing should be as short as possible to avoid excessive decay. Maximum recommended delay between end of exposure to beginning of counting should not exceed 8 days.

SOIL/SOLID SAMPLES
All samples reported on an as received basis unless otherwise indicated.

ATRAZINE, SIMAZINE AND PCB ANALYSIS
Data for PCBs, Atrazine and Simazine are reported from EPA 525.2. PCB data reported by ELI reflects the results for seven individual Aroclors. When the results for all seven are ND (not detected), the sample meets EPA compliance criteria for PCB monitoring.

SUBCONTRACTING ANALYSIS
Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories will be indicated within the Laboratory Analytical Report.

BRANCH LABORATORY LOCATIONS
eli-b - Energy Laboratories, Inc. - Billings, MT
eli-g - Energy Laboratories, Inc. - Gillette, WY
eli-h - Energy Laboratories, Inc. - Helena, MT
eli-r - Energy Laboratories, Inc. - Rapid City, SD
eli-t - Energy Laboratories, Inc. - College Station, TX

CERTIFICATIONS:
USEPA: WY00002, Radiochemical WY00937; FL-DOH NELAC: E87641, Radiochemical E871017; California: 02118CA; Oregon: WY200001; Utah: 3072350515; Virginia: 00057; Washington: C1903

ISO 17025 DISCLAIMER:
The results of this Analytical Report relate only to the items submitted for analysis.

ENERGY LABORATORIES, INC. - CASPER,WY certifies that certain method selections contained in this report meet requirements as set forth by the above accrediting authorities. Some results requested by the client may not be covered under these certifications. All analysis data to be submitted for regulatory enforcement should be certified in the sample state of origin. Please verify ELI's certification coverage by visiting www.energylab.com

ELI appreciates the opportunity to provide you with this analytical service. For additional information and services visit our web page www.energylab.com.

QA/QC Summary Report

Client: Denison Mines USA Corp
Project: 3rd Quarter Chloroform

Report Date: 09/17/10
Work Order: C10081012

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-Cl B									Batch: 100907-CL-TTR-W	
Sample ID: MBLK9-100907		Method Blank				Run: TITRATION_100907A			09/07/10 15:25	
Chloride		ND	mg/L	0.5						
Sample ID: C10081012-008A		Sample Matrix Spike				Run: TITRATION_100907A			09/07/10 15:53	
Chloride		38.2	mg/L	1.0	108	90	110			
Sample ID: C10081012-008A		Sample Matrix Spike Duplicate				Run: TITRATION_100907A			09/07/10 15:55	
Chloride		37.5	mg/L	1.0	106	90	110	1.8	10	
Sample ID: LCS35-100907		Laboratory Control Sample				Run: TITRATION_100907A			09/07/10 15:58	
Chloride		3580	mg/L	1.0	101	90	110			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: Denison Mines USA Corp
Project: 3rd Quarter Chloroform

Report Date: 09/17/10
Work Order: C10081012

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E353.2										Batch: R136887
Sample ID: MBLK-1		Method Blank				Run: TECHNICON_100906A				09/06/10 14:41
Nitrogen, Nitrate+Nitrite as N		ND	mg/L	0.04						
Sample ID: LCS-2		Laboratory Control Sample				Run: TECHNICON_100906A				09/06/10 14:44
Nitrogen, Nitrate+Nitrite as N		2.48	mg/L	0.10	99	90	110			
Sample ID: C10081004-003EMS		Sample Matrix Spike				Run: TECHNICON_100906A				09/06/10 16:16
Nitrogen, Nitrate+Nitrite as N		2.07	mg/L	0.10	103	90	110			
Sample ID: C10081004-003EMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_100906A				09/06/10 16:19
Nitrogen, Nitrate+Nitrite as N		2.02	mg/L	0.10	101	90	110	2.4	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: Denison Mines USA Corp
Project: 3rd Quarter Chloroform

Report Date: 09/17/10
Work Order: C10081012

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										Batch: R136774
Sample ID: 01-Sep-10_LCS_3	8	Laboratory Control Sample				Run: GCMS2_100901A				09/01/10 11:59
Carbon tetrachloride		12	ug/L	1.0	121	70	130			
Chloroform		11	ug/L	1.0	112	70	130			
Chloromethane		13	ug/L	1.0	128	70	130			
Methylene chloride		12	ug/L	1.0	119	70	130			
Surr: 1,2-Dichlorobenzene-d4				1.0	105	80	120			
Surr: Dibromofluoromethane				1.0	107	70	130			
Surr: p-Bromofluorobenzene				1.0	110	80	130			
Surr: Toluene-d8				1.0	97	80	120			
Sample ID: 01-Sep-10_MBLK_6	8	Method Blank				Run: GCMS2_100901A				09/01/10 13:43
Carbon tetrachloride		ND	ug/L	1.0						
Chloroform		ND	ug/L	1.0						
Chloromethane		ND	ug/L	1.0						
Methylene chloride		ND	ug/L	1.0						
Surr: 1,2-Dichlorobenzene-d4				1.0	106	80	120			
Surr: Dibromofluoromethane				1.0	94	70	130			
Surr: p-Bromofluorobenzene				1.0	131	80	120			S
Surr: Toluene-d8				1.0	91	80	120			
Sample ID: C10081012-003CMS	8	Sample Matrix Spike				Run: GCMS2_100901A				09/01/10 21:30
Carbon tetrachloride		1300	ug/L	100	127	70	130			
Chloroform		1600	ug/L	100	123	70	130			
Chloromethane		1200	ug/L	100	124	70	130			
Methylene chloride		1200	ug/L	100	120	70	130			
Surr: 1,2-Dichlorobenzene-d4				1.0	104	80	120			
Surr: Dibromofluoromethane				1.0	109	70	130			
Surr: p-Bromofluorobenzene				1.0	97	80	120			
Surr: Toluene-d8				1.0	111	80	120			
Sample ID: C10081012-003CMSD	8	Sample Matrix Spike Duplicate				Run: GCMS2_100901A				09/01/10 22:05
Carbon tetrachloride		1200	ug/L	100	122	70	130	4.2	20	
Chloroform		1500	ug/L	100	114	70	130	6.3	20	
Chloromethane		1200	ug/L	100	121	70	130	2	20	
Methylene chloride		1100	ug/L	100	107	70	130	12	20	
Surr: 1,2-Dichlorobenzene-d4				1.0	104	80	120	0	10	
Surr: Dibromofluoromethane				1.0	100	70	130	0	10	
Surr: p-Bromofluorobenzene				1.0	99	80	120	0	10	
Surr: Toluene-d8				1.0	95	80	120	0	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.

Workorder Receipt Checklist

C10081012

Denison Mines USA Corp

Login completed by: Corinne Wagner

Reviewed by: BL2000\kschroeder

Reviewed Date: 8/30/2010

Date Received: 8/27/2010

Received by: ckw

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature:	4°C On Ice		
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	Not Applicable ☐

Contact and Corrective Action Comments:

None

ENERGY LABORATORIES

Chain of Custody and Analytical Request Record

PLEASE PRINT (Provide as much information as possible.)

Company Name: Denison Mines	Project Name, PWS, Permit, Etc.: 3rd Quarter Chloroform	Sample Origin State: UT	EPA/State Compliance: Yes ☑ No ☐
Report Mail Address: PO BOX 809 Blanding UT 84511	Contact Name: Ryan Palmer Phone/Fax: 435 678 2221	Email:	Sampler: (Please Print) Tanner Holliday
Invoice Address: Same	Invoice Contact & Phone: Same	Purchase Order:	Quote/Bottle Order:

Special Report/Formats:

☐ DW
☐ POTW/WWTP
☐ State: _____
☐ Other: _____
☐ EDD/EDT (Electronic Data) Format: _____
☐ LEVEL IV
☐ NELAC

Number of Containers
Sample Type: A W S V B O DW
Air Water Soils/Solids Vegetation Bioassay Other DW - Drinking Water

ANALYSIS REQUESTED

Standard Turnaround (TAT) — RUSH

Contact ELI prior to **RUSH** sample submittal for charges and scheduling – See Instruction Page

Comments:

Shipped by: Fed Ex
Cooler ID(s): Client
Receipt Temp: 4 °C
On Ice: Y N
Custody Seal: On Bottle Y N; On Cooler Y N
Intact: Y N
Signature Match: Y N

	SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX	Quote # C2975	SEE ATTACHED
1	TW4-1	8-24-10	1245	5-W	X	
2	TW4-16	8-24-10	1232	5-W	X	
3	TW4-22	8-24-10	1221	5-W	X	
4	TW4-24	8-24-10	1210	5-W	X	
5	TW4-1R	8-23-10	1335	5-W	X	
6	TW4-16R	8-23-10	0957	5-W	X	
7	TW4-22R	8-23-10	1234	5-W	X	
8	TW4-24R	8-23-10	0855	5-W	X	
9	Trip Blank					
10	Trip Blank					

LABORATORY USE ONLY: C10081012

Custody Record MUST be Signed

Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
Tanner Holliday	8-26-10 1130	Tanner Holliday			
Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
			Received by Laboratory:	Date/Time: 8/27/10 900	Signature:

Sample Disposal: Return to Client: _____ Lab Disposal: _____

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Tab I

Quality Assurance and Data Validation Tables

I-1: Field QA/QC Evaluation

Location	2x Casing Volume	Volume Pumped	2x Casing Volume	Volume Pumped	Volume Check	Conductivity		RPD	pH		RPD	Temp		RPD	Redox Potential		RPD	Turbidity		RPD
MW-4	NA	Continuously pumped well	--			1958	1920	1.96	6.69	6.69	0.00	15.23	15.21	0.13	336	338	0.59	0.0	0.0	0.00
TW4-1	61.16	131.00	61	131	OK	2153	2157	0.19	6.16	6.18	0.32	14.88	14.84	0.27	396	397	0.25	10.8	10	7.69
TW4-2	68.66	62.00	69	62	Insufficient	2756	2817	2.19	6.58	6.58	0.00	14.93	14.92	0.07	448	448	0.00	55.2	62.1	11.76
TW4-3	63.26	70.00	63	70	OK	1743	1732	0.63	6.53	6.55	0.31	14.5	14.51	0.07	427	428	0.23	8.5	8.3	2.38
TW4-4	NA	Continuously pumped well	--			2423	2423	0.00	6.4	6.39	0.16	14.96	14.94	0.13	266	268	0.75	8	8.2	2.47
TW4-5	85.14	90.00	85	90	OK	1739	1732	0.40	6.55	6.56	0.15	15.41	15.4	0.06	379	383	1.05	65.5	68.8	4.91
TW4-6	34.75	44.00	35	44	OK	3566	3500	1.87	6.62	6.7	1.20	15.78	15.52	1.66	432	428	0.93	138	99.6	32.32
TW4-7	68.72	64.00	69	64	Insufficient	1625	1691	3.98	6.8	6.8	0.00	14.76	14.75	0.07	292	295	1.02	43.7	42.5	2.78
TW4-8	75.82	100.00	76	100	OK	3259	3261	0.06	6.79	6.78	0.15	14.86	14.82	0.27	161	165	2.45	53.2	52.3	1.71
TW4-9	86.94	90.00	87	90	OK	2432	2466	1.39	6.41	6.41	0.00	14.89	14.84	0.34	370	371	0.27	51.2	56.5	9.84
TW4-10	79.91	61.00	80	61	Insufficient	2553	2774	8.30	6.42	6.42	0.00	14.92	25.51	52.39	344	342	0.58	44.1	77.5	54.93
TW4-11	54.59	61.00	55	61	OK	1687	1674	0.77	6.65	6.64	0.15	14.57	14.56	0.07	386	389	0.77	9.3	10.1	8.25
TW4-12	82.19	90.00	82	90	OK	969.4	969.9	0.05	6.82	6.83	0.15	14.65	14.66	0.07	424	424	0.00	8.8	8.9	1.13
TW4-13	72.33	78.00	72	78	OK	1512	1528	1.05	6.85	6.86	0.15	14.9	14.89	0.07	425	427	0.47	37.8	46.4	20.43
TW4-14	5.84	3.50	6	4	Insufficient	4449		--	6.67		--	30.25		--	365		--	235		--
TW4-15	NA	Continuously pumped well	--			3519	3535	0.45	6.38	6.39	0.16	15.19	15.19	0.00	196	205	4.49	1.3	1.3	0.00
TW4-16	102.08	140.00	102	140	OK	3451	3546	2.72	6.46	6.47	0.15	14.86	14.85	0.07	399	400	0.25	199.5	204.8	2.62
TW4-17	69.74	70.52	70	71	OK	3976	3974	0.05	6.25	6.25	0.00	14.81	14.81	0.00	149	148	0.67	13.8	13.2	4.44
TW4-18	106.49	110.00	106	110	OK	1579	1563	1.02	6.3	6.29	0.16	15.19	15.18	0.07	479	479	0.00	224	220.3	1.67
TW4-19	NA	Continuously pumped well	--			2931	2926	0.17	6.46	6.5	0.62	17.88	17.89	0.06	381	376	1.32	25.7	22.5	13.28
TW4-20	NA	Continuously pumped well	--			3476	3534	1.65	5.97	6.02	0.83	18.9	18.79	0.58	190	210	10.00	33.9	31.4	7.66
TW4-21	88.33	100.00	88	100	OK	3061	3064	0.10	6.7	6.71	0.15	16.01	16.01	0.00	449	449	0.00	7.5	7.2	4.08
TW4-22	77.16	170.00	77	170	OK	3142	3142	0.00	6.54	6.54	0.00	15.94	15.95	0.06	448	447	0.22	968	914	5.74
TW4-23	62.62	240.00	63	240	OK	3675	3682	0.19	6.26	6.26	0.00	14.42	14.44	0.14	106	106	0.00	9.1	8.3	9.20
TW4-24	73.98	110.00	74	110	OK	9014	9053	0.43	6.39	6.42	0.47	15.02	15.02	0.00	471	470	0.21	3.7	3.8	2.67
TW4-25	116.44	120.00	116	120	OK	2953	2949	0.14	6.8	6.81	0.15	15.15	15.13	0.13	410	411	0.24	46.9	47.5	1.27
TW4-26	27.83	25	28	25	Insufficient	5135	5112	0.45	4.26	4.31	1.17	15.7	15.45	1.61	445	447	0.45	55.8	242	125.05

MW-4, TW4-4, TW4-15, TW4-19, and TW4-20 are continually pumped wells.

TW4-1, TW4-2, TW4-6, TW4-7, TW4-10, TW4-13, TW4-14, and TW4-26 were pumped dry and sampled after recovery.

I-2: Holding Time Evaluation

Location	Constituent	Holding Time	Allowed Holding Time	Holding Time Check
MW-4	Chloroform	11.00 days	14 days	OK
MW-4	Chloromethane	14.00 days	14 days	OK
MW-4	Methylene chloride	14.00 days	14 days	OK
MW-4	Carbon Tetrachloride	14.00 days	14 days	OK
MW-4	Nitrogen	17.00 days	28 days	OK
MW-4	Chloride	15.00 days	28 days	OK
TW4-1	Chloroform	8.00 days	14 days	OK
TW4-1	Chloromethane	8.00 days	14 days	OK
TW4-1	Methylene chloride	8.00 days	14 days	OK
TW4-1	Carbon Tetrachloride	8.00 days	14 days	OK
TW4-1	Nitrogen	13.00 days	28 days	OK
TW4-1	Chloride	14.00 days	28 days	OK
TW4-2	Chloroform	9.00 days	14 days	OK
TW4-2	Chloromethane	12.00 days	14 days	OK
TW4-2	Methylene chloride	12.00 days	14 days	OK
TW4-2	Carbon Tetrachloride	12.00 days	14 days	OK
TW4-2	Nitrogen	15.00 days	28 days	OK
TW4-2	Chloride	13.00 days	28 days	OK
TW4-3	Chloroform	8.00 days	14 days	OK
TW4-3	Chloromethane	8.00 days	14 days	OK
TW4-3	Methylene chloride	8.00 days	14 days	OK
TW4-3	Carbon Tetrachloride	8.00 days	14 days	OK
TW4-3	Nitrogen	16.00 days	28 days	OK
TW4-3	Chloride	14.00 days	28 days	OK
TW4-4	Chloroform	11.00 days	14 days	OK
TW4-4	Chloromethane	14.00 days	14 days	OK
TW4-4	Methylene chloride	14.00 days	14 days	OK
TW4-4	Carbon Tetrachloride	14.00 days	14 days	OK
TW4-4	Nitrogen	17.00 days	28 days	OK
TW4-4	Chloride	15.00 days	28 days	OK
TW4-5	Chloroform	9.00 days	14 days	OK
TW4-5	Chloromethane	9.00 days	14 days	OK
TW4-5	Methylene chloride	9.00 days	14 days	OK
TW4-5	Carbon Tetrachloride	9.00 days	14 days	OK
TW4-5	Nitrogen	15.00 days	28 days	OK
TW4-5	Chloride	13.00 days	28 days	OK
TW4-6	Chloroform	9.00 days	14 days	OK
TW4-6	Chloromethane	14.00 days	14 days	OK
TW4-6	Methylene chloride	14.00 days	14 days	OK
TW4-6	Carbon Tetrachloride	14.00 days	14 days	OK
TW4-6	Nitrogen	14.00 days	28 days	OK
TW4-6	Chloride	12.00 days	28 days	OK
TW4-7	Chloroform	9.00 days	14 days	OK
TW4-7	Chloromethane	12.00 days	14 days	OK
TW4-7	Methylene chloride	12.00 days	14 days	OK
TW4-7	Carbon Tetrachloride	12.00 days	14 days	OK
TW4-7	Nitrogen	15.00 days	28 days	OK

I-2: Holding Time Evaluation

Location	Constituent	Holding Time	Allowed Holding Time	Holding Time Check
TW4-7	Chloride	13.00 days	28 days	OK
TW4-8	Chloroform	7.00 days	14 days	OK
TW4-8	Chloromethane	7.00 days	14 days	OK
TW4-8	Methylene chloride	7.00 days	14 days	OK
TW4-8	Carbon Tetrachloride	7.00 days	14 days	OK
TW4-8	Nitrogen	15.00 days	28 days	OK
TW4-8	Chloride	13.00 days	28 days	OK
TW4-9	Chloroform	7.00 days	14 days	OK
TW4-9	Chloromethane	7.00 days	14 days	OK
TW4-9	Methylene chloride	7.00 days	14 days	OK
TW4-9	Carbon Tetrachloride	7.00 days	14 days	OK
TW4-9	Nitrogen	15.00 days	28 days	OK
TW4-9	Chloride	13.00 days	28 days	OK
TW4-10	Chloroform	9.00 days	14 days	OK
TW4-10	Chloromethane	14.00 days	14 days	OK
TW4-10	Methylene chloride	14.00 days	14 days	OK
TW4-10	Carbon Tetrachloride	14.00 days	14 days	OK
TW4-10	Nitrogen	14.00 days	28 days	OK
TW4-10	Chloride	12.00 days	28 days	OK
TW4-11	Chloroform	14.00 days	14 days	OK
TW4-11	Chloromethane	14.00 days	14 days	OK
TW4-11	Methylene chloride	14.00 days	14 days	OK
TW4-11	Carbon Tetrachloride	14.00 days	14 days	OK
TW4-11	Nitrogen	14.00 days	28 days	OK
TW4-11	Chloride	12.00 days	28 days	OK
TW4-12	Chloroform	8.00 days	14 days	OK
TW4-12	Chloromethane	8.00 days	14 days	OK
TW4-12	Methylene chloride	8.00 days	14 days	OK
TW4-12	Carbon Tetrachloride	8.00 days	14 days	OK
TW4-12	Nitrogen	16.00 days	28 days	OK
TW4-12	Chloride	14.00 days	28 days	OK
TW4-13	Chloroform	8.00 days	14 days	OK
TW4-13	Chloromethane	8.00 days	14 days	OK
TW4-13	Methylene chloride	8.00 days	14 days	OK
TW4-13	Carbon Tetrachloride	8.00 days	14 days	OK
TW4-13	Nitrogen	16.00 days	28 days	OK
TW4-13	Chloride	14.00 days	28 days	OK
TW4-14	Chloroform	8.00 days	14 days	OK
TW4-14	Chloromethane	8.00 days	14 days	OK
TW4-14	Methylene chloride	8.00 days	14 days	OK
TW4-14	Carbon Tetrachloride	8.00 days	14 days	OK
TW4-14	Nitrogen	16.00 days	28 days	OK
TW4-14	Chloride	14.00 days	28 days	OK
TW4-15	Chloroform	11.00 days	14 days	OK
TW4-15	Chloromethane	14.00 days	14 days	OK
TW4-15	Methylene chloride	14.00 days	14 days	OK
TW4-15	Carbon Tetrachloride	14.00 days	14 days	OK
TW4-15	Nitrogen	17.00 days	28 days	OK

I-2: Holding Time Evaluation

Location	Constituent	Holding Time	Allowed Holding Time	Holding Time Check
TW4-15	Chloride	15.00 days	28 days	OK
TW4-16	Chloroform	9.00 days	14 days	OK
TW4-16	Chloromethane	9.00 days	14 days	OK
TW4-16	Methylene chloride	9.00 days	14 days	OK
TW4-16	Carbon Tetrachloride	9.00 days	14 days	OK
TW4-16	Nitrogen	13.00 days	28 days	OK
TW4-16	Chloride	14.00 days	28 days	OK
TW4-17	Chloroform	11.00 days	14 days	OK
TW4-17	Chloromethane	11.00 days	14 days	OK
TW4-17	Methylene chloride	11.00 days	14 days	OK
TW4-17	Carbon Tetrachloride	11.00 days	14 days	OK
TW4-17	Nitrogen	17.00 days	28 days	OK
TW4-17	Chloride	15.00 days	28 days	OK
TW4-18	Chloroform	9.00 days	14 days	OK
TW4-18	Chloromethane	9.00 days	14 days	OK
TW4-18	Methylene chloride	9.00 days	14 days	OK
TW4-18	Carbon Tetrachloride	9.00 days	14 days	OK
TW4-18	Nitrogen	14.00 days	28 days	OK
TW4-18	Chloride	12.00 days	28 days	OK
TW4-19	Chloroform	11.00 days	14 days	OK
TW4-19	Chloromethane	14.00 days	14 days	OK
TW4-19	Methylene chloride	14.00 days	14 days	OK
TW4-19	Carbon Tetrachloride	14.00 days	14 days	OK
TW4-19	Nitrogen	17.00 days	28 days	OK
TW4-19	Chloride	15.00 days	28 days	OK
TW4-20	Chloroform	11.00 days	14 days	OK
TW4-20	Chloromethane	14.00 days	14 days	OK
TW4-20	Methylene chloride	14.00 days	14 days	OK
TW4-20	Carbon Tetrachloride	14.00 days	14 days	OK
TW4-20	Nitrogen	17.00 days	28 days	OK
TW4-20	Chloride	15.00 days	28 days	OK
TW4-21	Chloroform	14.00 days	14 days	OK
TW4-21	Chloromethane	14.00 days	14 days	OK
TW4-21	Methylene chloride	14.00 days	14 days	OK
TW4-21	Carbon Tetrachloride	14.00 days	14 days	OK
TW4-21	Nitrogen	14.00 days	28 days	OK
TW4-21	Chloride	12.00 days	28 days	OK
TW4-22	Chloroform	8.00 days	14 days	OK
TW4-22	Chloromethane	8.00 days	14 days	OK
TW4-22	Methylene chloride	8.00 days	14 days	OK
TW4-22	Carbon Tetrachloride	8.00 days	14 days	OK
TW4-22	Nitrogen	13.00 days	28 days	OK
TW4-22	Chloride	14.00 days	28 days	OK
TW4-23	Chloroform	8.00 days	14 days	OK
TW4-23	Chloromethane	8.00 days	14 days	OK
TW4-23	Methylene chloride	8.00 days	14 days	OK
TW4-23	Carbon Tetrachloride	8.00 days	14 days	OK
TW4-23	Nitrogen	16.00 days	28 days	OK

I-2: Holding Time Evaluation

Location	Constituent	Holding Time	Allowed Holding Time	Holding Time Check
TW4-23	Chloride	14.00 days	28 days	OK
TW4-24	Chloroform	9.00 days	14 days	OK
TW4-24	Chloromethane	9.00 days	14 days	OK
TW4-24	Methylene chloride	9.00 days	14 days	OK
TW4-24	Carbon Tetrachloride	9.00 days	14 days	OK
TW4-24	Nitrogen	13.00 days	28 days	OK
TW4-24	Chloride	14.00 days	28 days	OK
TW4-25	Chloroform	8.00 days	14 days	OK
TW4-25	Chloromethane	8.00 days	14 days	OK
TW4-25	Methylene chloride	8.00 days	14 days	OK
TW4-25	Carbon Tetrachloride	8.00 days	14 days	OK
TW4-25	Nitrogen	16.00 days	28 days	OK
TW4-25	Chloride	14.00 days	28 days	OK
TW4-26	Chloroform	9.00 days	14 days	OK
TW4-26	Chloromethane	9.00 days	14 days	OK
TW4-26	Methylene chloride	9.00 days	14 days	OK
TW4-26	Carbon Tetrachloride	9.00 days	14 days	OK
TW4-26	Nitrogen	15.00 days	28 days	OK
TW4-26	Chloride	13.00 days	28 days	OK
TW4-60	Chloroform	10.00 days	14 days	OK
TW4-60	Chloromethane	10.00 days	14 days	OK
TW4-60	Methylene chloride	10.00 days	14 days	OK
TW4-60	Carbon Tetrachloride	10.00 days	14 days	OK
TW4-60	Nitrogen	16.00 days	28 days	OK
TW4-60	Chloride	14.00 days	28 days	OK
TW4-65	Chloroform	8.00 days	14 days	OK
TW4-65	Chloromethane	8.00 days	14 days	OK
TW4-65	Methylene chloride	8.00 days	14 days	OK
TW4-65	Carbon Tetrachloride	8.00 days	14 days	OK
TW4-65	Nitrogen	14.00 days	28 days	OK
TW4-65	Chloride	19.00 days	28 days	OK
TW4-70	Chloroform	11.00 days	14 days	OK
TW4-70	Chloromethane	11.00 days	14 days	OK
TW4-70	Methylene chloride	11.00 days	14 days	OK
TW4-70	Carbon Tetrachloride	11.00 days	14 days	OK
TW4-70	Nitrogen	17.00 days	28 days	OK
TW4-70	Chloride	15.00 days	28 days	OK

Table I-3 Recipt Temperature Check

Sample Batch	Wells in Batch	Temperature
C10080518	TW4-3, TW4-3R, TW4-5, TW4-5R, TW4-6, TW4-6R, TW4-8, TW4-8R, TW4-9, TW4-9R, TW4-10, TW4-10R, TW4-11, TW4-11R, TW4-12, TW4-12R, TW4-13, TW4-13R, TW4-14, TW4-14R, TW4-18, TW4-18R, TW4-19, TW4-19R, TW4-21, TW4-21R, TW4-23, TW4-23R, TW4-25, TW4-25R, TW4-26, TW4-26R	2 °C
C10080785	MW-4, TW4-2, TW4-2R, TW4-4, TW4-7, TW4-7R, TW4-15, TW4-17, TW4-19, TW4-20, TW4-60, TW4-70, Trip Blank	2 °C
C10081012	TW4-1, TW4-1R, TW4-16, TW4-16R, TW4-22, TW4-22R, TW4-24, TW4-24R	4 °C

I-4 Analytical Method Check

Parameter	Method	Method Used by Lab
Carbon Tetrachloride	SW8260B	SW8260B
Chloride	A4500-Cl B	A4500-Cl B
Chloroform	SW8260B	SW8260B
Chloromethane	SW8260B	SW8260B
Methylene chloride	SW8260B	SW8260B
Nitrogen	E353.2	E353.2

All parameters were analyzed using the reporting method specificied in the QAP

I-5 Reporting Limit Evaluation

Location	Constituent	Lab Reporting Limit	Rqd' Reporting Limit	Qualifier	Qualifier Check
MW-4	Chloroform	100 ug/L	1.0 ug/L	D	OK
MW-4	Chloromethane	1 ug/L	1.0 ug/L	U	OK
MW-4	Methylene chloride	1 ug/L	1.0 ug/L	U	OK
MW-4	Carbon Tetrachloride	1 ug/L	1.0 ug/L		OK
MW-4	Nitrogen	0.5 mg/L	0.1 mg/L	D	OK
MW-4	Chloride	1 mg/L	1 mg/L		OK
TW4-1	Chloroform	100 ug/L	1.0 ug/L	D	OK
TW4-1	Chloromethane	1 ug/L	1.0 ug/L	U	OK
TW4-1	Methylene chloride	1 ug/L	1.0 ug/L	U	OK
TW4-1	Carbon Tetrachloride	1 ug/L	1.0 ug/L	U	OK
TW4-1	Nitrogen	0.5 mg/L	0.1 mg/L	D	OK
TW4-1	Chloride	1 mg/L	1 mg/L		OK
TW4-2	Chloromethane	1 ug/L	1.0 ug/L	U	OK
TW4-2	Methylene chloride	1 ug/L	1.0 ug/L	U	OK
TW4-2	Carbon Tetrachloride	1 ug/L	1.0 ug/L		OK
TW4-2	Nitrogen	0.5 mg/L	0.1 mg/L	D	OK
TW4-2	Chloride	1 mg/L	1 mg/L		OK
TW4-3	Chloroform	1 ug/L	1.0 ug/L	U	OK
TW4-3	Chloromethane	1 ug/L	1.0 ug/L	U	OK
TW4-3	Methylene chloride	1 ug/L	1.0 ug/L	U	OK
TW4-3	Carbon Tetrachloride	1 ug/L	1.0 ug/L	U	OK
TW4-3	Nitrogen	0.2 mg/L	0.1 mg/L	D	OK
TW4-3	Chloride	1 mg/L	1 mg/L		OK
TW4-4	Chloroform	100 ug/L	1.0 ug/L	D	OK
TW4-4	Chloromethane	1 ug/L	1.0 ug/L	U	OK
TW4-4	Methylene chloride	1 ug/L	1.0 ug/L	U	OK
TW4-4	Carbon Tetrachloride	1 ug/L	1.0 ug/L		OK
TW4-4	Nitrogen	0.5 mg/L	0.1 mg/L	D	OK
TW4-4	Chloride	1 mg/L	1 mg/L		OK
TW4-5	Chloroform	1 ug/L	1.0 ug/L		OK
TW4-5	Chloromethane	1 ug/L	1.0 ug/L	U	OK
TW4-5	Methylene chloride	1 ug/L	1.0 ug/L	U	OK
TW4-5	Carbon Tetrachloride	1 ug/L	1.0 ug/L	U	OK
TW4-5	Nitrogen	1 mg/L	0.1 mg/L	D	OK
TW4-5	Chloride	1 mg/L	1 mg/L		OK
TW4-6	Chloroform	100 ug/L	1.0 ug/L	D	OK
TW4-6	Chloromethane	1 ug/L	1.0 ug/L	U	OK
TW4-6	Methylene chloride	1 ug/L	1.0 ug/L	U	OK
TW4-6	Carbon Tetrachloride	1 ug/L	1.0 ug/L	U	OK
TW4-6	Nitrogen	0.2 mg/L	0.1 mg/L	D	OK
TW4-6	Chloride	1 mg/L	1 mg/L		OK
TW4-7	Chloroform	100 ug/L	1.0 ug/L	D	OK
TW4-7	Chloromethane	1 ug/L	1.0 ug/L	U	OK
TW4-7	Methylene chloride	1 ug/L	1.0 ug/L	U	OK
TW4-7	Carbon Tetrachloride	1 ug/L	1.0 ug/L		OK
TW4-7	Nitrogen	0.5 mg/L	0.1 mg/L	D	OK
TW4-7	Chloride	1 mg/L	1 mg/L		OK

I-5 Reporting Limit Evaluation

Location	Constituent	Lab Reporting Limit	Rqd' Reporting Limit	Qualifier	Qualifier Check
TW4-8	Chloroform	1 ug/L	1.0 ug/L	U	OK
TW4-8	Chloromethane	1 ug/L	1.0 ug/L	U	OK
TW4-8	Methylene chloride	1 ug/L	1.0 ug/L	U	OK
TW4-8	Carbon Tetrachloride	1 ug/L	1.0 ug/L	U	OK
TW4-8	Nitrogen	0.1 mg/L	0.1 mg/L	U	OK
TW4-8	Chloride	1 mg/L	1 mg/L		OK
TW4-9	Chloromethane	1 ug/L	1.0 ug/L	U	OK
TW4-9	Methylene chloride	1 ug/L	1.0 ug/L	U	OK
TW4-9	Carbon Tetrachloride	1 ug/L	1.0 ug/L	U	OK
TW4-9	Nitrogen	0.2 mg/L	0.1 mg/L	D	OK
TW4-9	Chloride	1 mg/L	1 mg/L		OK
TW4-10	Chloroform	20 ug/L	1.0 ug/L	D	OK
TW4-10	Chloromethane	1 ug/L	1.0 ug/L	U	OK
TW4-10	Methylene chloride	1 ug/L	1.0 ug/L	U	OK
TW4-10	Carbon Tetrachloride	1 ug/L	1.0 ug/L	U	OK
TW4-10	Nitrogen	0.1 mg/L	0.1 mg/L		OK
TW4-10	Chloride	1 mg/L	1 mg/L		OK
TW4-11	Chloroform	100 ug/L	1.0 ug/L	D	OK
TW4-11	Chloromethane	1 ug/L	1.0 ug/L	U	OK
TW4-11	Methylene chloride	1 ug/L	1.0 ug/L	U	OK
TW4-11	Carbon Tetrachloride	1 ug/L	1.0 ug/L	U	OK
TW4-11	Nitrogen	0.5 mg/L	0.1 mg/L	D	OK
TW4-11	Chloride	1 mg/L	1 mg/L		OK
TW4-12	Chloroform	1 ug/L	1.0 ug/L	U	OK
TW4-12	Chloromethane	1 ug/L	1.0 ug/L	U	OK
TW4-12	Methylene chloride	1 ug/L	1.0 ug/L	U	OK
TW4-12	Carbon Tetrachloride	1 ug/L	1.0 ug/L	U	OK
TW4-12	Nitrogen	1 mg/L	0.1 mg/L	D	OK
TW4-12	Chloride	1 mg/L	1 mg/L		OK
TW4-13	Chloroform	1 ug/L	1.0 ug/L	U	OK
TW4-13	Chloromethane	1 ug/L	1.0 ug/L	U	OK
TW4-13	Methylene chloride	1 ug/L	1.0 ug/L	U	OK
TW4-13	Carbon Tetrachloride	1 ug/L	1.0 ug/L	U	OK
TW4-13	Nitrogen	0.5 mg/L	0.1 mg/L	D	OK
TW4-13	Chloride	1 mg/L	1 mg/L		OK
TW4-14	Chloroform	1 ug/L	1.0 ug/L	U	OK
TW4-14	Chloromethane	1 ug/L	1.0 ug/L	U	OK
TW4-14	Methylene chloride	1 ug/L	1.0 ug/L	U	OK
TW4-14	Carbon Tetrachloride	1 ug/L	1.0 ug/L	U	OK
TW4-14	Nitrogen	0.2 mg/L	0.1 mg/L	D	OK
TW4-14	Chloride	1 mg/L	1 mg/L		OK
TW4-15	Chloroform	100 ug/L	1.0 ug/L	D	OK
TW4-15	Chloromethane	1 ug/L	1.0 ug/L	U	OK
TW4-15	Methylene chloride	1 ug/L	1.0 ug/L		OK
TW4-15	Carbon Tetrachloride	1 ug/L	1.0 ug/L	U	OK
TW4-15	Nitrogen	0.1 mg/L	0.1 mg/L		OK
TW4-15	Chloride	1 mg/L	1 mg/L		OK
TW4-16	Chloroform	1 ug/L	1.0 ug/L		OK

I-5 Reporting Limit Evaluation

Location	Constituent	Lab Reporting Limit	Rqd' Reporting Limit	Qualifier	Qualifier Check
TW4-16	Chloromethane	1 ug/L	1.0 ug/L	U	OK
TW4-16	Methylene chloride	1 ug/L	1.0 ug/L	U	OK
TW4-16	Carbon Tetrachloride	1 ug/L	1.0 ug/L	U	OK
TW4-16	Nitrogen	0.2 mg/L	0.1 mg/L	D	OK
TW4-16	Chloride	1 mg/L	1 mg/L		OK
TW4-17	Chloroform	1 ug/L	1.0 ug/L	U	OK
TW4-17	Chloromethane	1 ug/L	1.0 ug/L	U	OK
TW4-17	Methylene chloride	1 ug/L	1.0 ug/L	U	OK
TW4-17	Carbon Tetrachloride	1 ug/L	1.0 ug/L	U	OK
TW4-17	Nitrogen	0.1 mg/L	0.1 mg/L	U	OK
TW4-17	Chloride	1 mg/L	1 mg/L		OK
TW4-18	Chloroform	1 ug/L	1.0 ug/L		OK
TW4-18	Chloromethane	1 ug/L	1.0 ug/L	U	OK
TW4-18	Methylene chloride	1 ug/L	1.0 ug/L	U	OK
TW4-18	Carbon Tetrachloride	1 ug/L	1.0 ug/L	U	OK
TW4-18	Nitrogen	1 mg/L	0.1 mg/L	D	OK
TW4-18	Chloride	1 mg/L	1 mg/L		OK
TW4-19	Chloroform	100 ug/L	1.0 ug/L	D	OK
TW4-19	Chloromethane	1 ug/L	1.0 ug/L	U	OK
TW4-19	Methylene chloride	1 ug/L	1.0 ug/L	U	OK
TW4-19	Carbon Tetrachloride	1 ug/L	1.0 ug/L		OK
TW4-19	Nitrogen	0.5 mg/L	0.1 mg/L	D	OK
TW4-19	Chloride	1 mg/L	1 mg/L		OK
TW4-20	Chloroform	1000 ug/L	1.0 ug/L	D	OK
TW4-20	Chloromethane	1 ug/L	1.0 ug/L	U	OK
TW4-20	Methylene chloride	1 ug/L	1.0 ug/L		OK
TW4-20	Carbon Tetrachloride	1 ug/L	1.0 ug/L		OK
TW4-20	Nitrogen	0.5 mg/L	0.1 mg/L	D	OK
TW4-20	Chloride	1 mg/L	1 mg/L		OK
TW4-21	Chloroform	100 ug/L	1.0 ug/L	D	OK
TW4-21	Chloromethane	1 ug/L	1.0 ug/L	U	OK
TW4-21	Methylene chloride	1 ug/L	1.0 ug/L	U	OK
TW4-21	Carbon Tetrachloride	1 ug/L	1.0 ug/L		OK
TW4-21	Nitrogen	1 mg/L	0.1 mg/L	D	OK
TW4-21	Chloride	1 mg/L	1 mg/L		OK
TW4-22	Chloroform	100 ug/L	1.0 ug/L	D	OK
TW4-22	Chloromethane	1 ug/L	1.0 ug/L		OK
TW4-22	Methylene chloride	1 ug/L	1.0 ug/L		OK
TW4-22	Carbon Tetrachloride	1 ug/L	1.0 ug/L		OK
TW4-22	Nitrogen	1 mg/L	0.1 mg/L	D	OK
TW4-22	Chloride	1 mg/L	1 mg/L		OK
TW4-23	Chloroform	1 ug/L	1.0 ug/L	U	OK
TW4-23	Chloromethane	1 ug/L	1.0 ug/L	U	OK
TW4-23	Methylene chloride	1 ug/L	1.0 ug/L	U	OK
TW4-23	Carbon Tetrachloride	1 ug/L	1.0 ug/L	U	OK
TW4-23	Nitrogen	0.1 mg/L	0.1 mg/L	U	OK
TW4-23	Chloride	1 mg/L	1 mg/L		OK
TW4-24	Chloroform	1 ug/L	1.0 ug/L		OK

I-5 Reporting Limit Evaluation

Location	Constituent	Lab Reporting Limit	Rqd' Reporting Limit	Qualifier	Qualifier Check
TW4-24	Chloromethane	1 ug/L	1.0 ug/L	U	OK
TW4-24	Methylene chloride	1 ug/L	1.0 ug/L	U	OK
TW4-24	Carbon Tetrachloride	1 ug/L	1.0 ug/L	U	OK
TW4-24	Nitrogen	1 mg/L	0.1 mg/L	D	OK
TW4-24	Chloride	1 mg/L	1 mg/L		OK
TW4-25	Chloroform	1 ug/L	1.0 ug/L	U	OK
TW4-25	Chloromethane	1 ug/L	1.0 ug/L	U	OK
TW4-25	Methylene chloride	1 ug/L	1.0 ug/L	U	OK
TW4-25	Carbon Tetrachloride	1 ug/L	1.0 ug/L	U	OK
TW4-25	Nitrogen	1 mg/L	0.1 mg/L	D	OK
TW4-25	Chloride	1 mg/L	1 mg/L		OK
TW4-26	Chloroform	1 ug/L	1.0 ug/L		OK
TW4-26	Chloromethane	1 ug/L	1.0 ug/L	U	OK
TW4-26	Methylene chloride	1 ug/L	1.0 ug/L	U	OK
TW4-26	Carbon Tetrachloride	1 ug/L	1.0 ug/L	U	OK
TW4-26	Nitrogen	1 mg/L	0.1 mg/L	D	OK
TW4-26	Chloride	1 mg/L	1 mg/L		OK
TW4-60	Chloroform	1 ug/L	1.0 ug/L	U	OK
TW4-60	Chloromethane	1 ug/L	1.0 ug/L	U	OK
TW4-60	Methylene chloride	1 ug/L	1.0 ug/L	U	OK
TW4-60	Carbon Tetrachloride	1 ug/L	1.0 ug/L	U	OK
TW4-60	Nitrogen	0.1 mg/L	0.1 mg/L	U	OK
TW4-60	Chloride	1 mg/L	1 mg/L	U	OK
TW4-65	Chloroform	100 ug/L	1.0 ug/L	D	OK
TW4-65	Chloromethane	1 ug/L	1.0 ug/L		OK
TW4-65	Methylene chloride	1 ug/L	1.0 ug/L		OK
TW4-65	Carbon Tetrachloride	1 ug/L	1.0 ug/L		OK
TW4-65	Nitrogen	1 mg/L	0.1 mg/L	D	OK
TW4-65	Chloride	1 mg/L	1 mg/L		OK
TW4-70	Chloroform	1 ug/L	1.0 ug/L	U	OK
TW4-70	Chloromethane	1 ug/L	1.0 ug/L	U	OK
TW4-70	Methylene chloride	1 ug/L	1.0 ug/L	U	OK
TW4-70	Carbon Tetrachloride	1 ug/L	1.0 ug/L	U	OK
TW4-70	Nitrogen	0.1 mg/L	0.1 mg/L	U	OK
TW4-70	Chloride	1 mg/L	1 mg/L		OK

I-6 Trip Blank Evaluation

Lab Report	Constituent	Result	
C10080518	Carbon tetrachloride	ND	ug/L
	Chloroform	ND	ug/L
	Chloromethane	ND	ug/L
	Methylene chloride	ND	ug/L
C10080785	Carbon tetrachloride	ND	ug/L
	Chloroform	ND	ug/L
	Chloromethane	ND	ug/L
	Methylene chloride	ND	ug/L
C10081012	Carbon tetrachloride	ND	ug/L
	Chloroform	ND	ug/L
	Chloromethane	ND	ug/L
	Methylene chloride	ND	ug/L

I-7 QA/QC Evaluation for Sample Duplicates

Constituent	TW4-21	TW4-65	%RPD
Carbon Tetrachloride	9.2	12	26
Chloride	278	269	3
Chloroform	390	650	50
Chloromethane	0	0	0
Methylene Chloride	0	0	0
Nitrate	14	15	7

Constituent	TW4-17	TW4-70	%RPD
Carbon Tetrachloride	0	0	0
Chloride	28	26	7
Chloroform	0	0	0
Chloromethane	0	0	0
Methylene Chloride	0	0	0
Nitrate	0	0	0

I-8 QC Control Limits for Analysis and Blanks

Matrix Spike % Recovery Comparison

Lab Report	Lab Sample ID	Well	Analyte	MS %REC	MSD %REC	REC Range	RPD
C10080518	C10080518-029	TW4-21	Methylene Chloride	147	140	70 - 130	4.5
C10080518	C10080785-009	TW4-20	Carbon Tetrachloride	140	138	70 - 130	2
C10080518	C10080785-009	TW4-20	Chloroform	141	136	70 - 130	1.9
C10080518	C10080785-009	TW4-20	Chloromethane	156	142	70 - 130	9.4
C10080785	C10080785-002	TW4-19	Methylene Chloride	132	120	70 - 130	9.8
C10080785	C10080785-002	TW4-19	Chloroform	80	131	70 - 130	17
C10080785	C10080785-015	TW4-2R	Carbon Tetrachloride	134	143	70 - 130	6.4
C10080785	C10080785-015	TW4-2R	Chloromethane	135	144	70 - 130	6.3
C10080785	C10080785-015	TW4-2R	Chloroform	129	135	70 - 130	6.1
C10080785	C10080785-015	TW4-2R	Methylene Chloride	130	137	70 - 130	4.8

NA = MS samples were not Denison samples.

Surrogate % Recovery

Lab Report	Well/Sample	Analyte	Surrogate %REC	Lab Specified REC Range	QAP Required Range
C10080518	TW4-5	p-Bromofluorobenzene	122	80 - 120	None
C10080518	TW4-18	p-Bromofluorobenzene	122	80 - 120	None
C10080518	TW4-26R	p-Bromofluorobenzene	122	80 - 120	None
C10080785	TW4-20	Dibromofluoromethane	67	70 - 130	None
C10081012	TW4-22	p-Bromofluorobenzene	132	80 - 120	None
C10081012	TW4-22	Dibromofluoromethane	122	70 - 130	None
C10081012	TW4-24	p-Bromofluorobenzene	131	70 - 130	None
C10081012	TW4-22	p-Bromofluorobenzene	123	80 - 120	None
C10081012	Method Blank	p-Bromofluorobenzene	131	80 - 120	None

LCS % Recovery

Lab Report	Analyte	Surrogate %REC	Lab Specified REC Range	QAP Required Range
C10080785	Chloromethane	136	70 - 130	None

I-9 Rinsate Evaluation

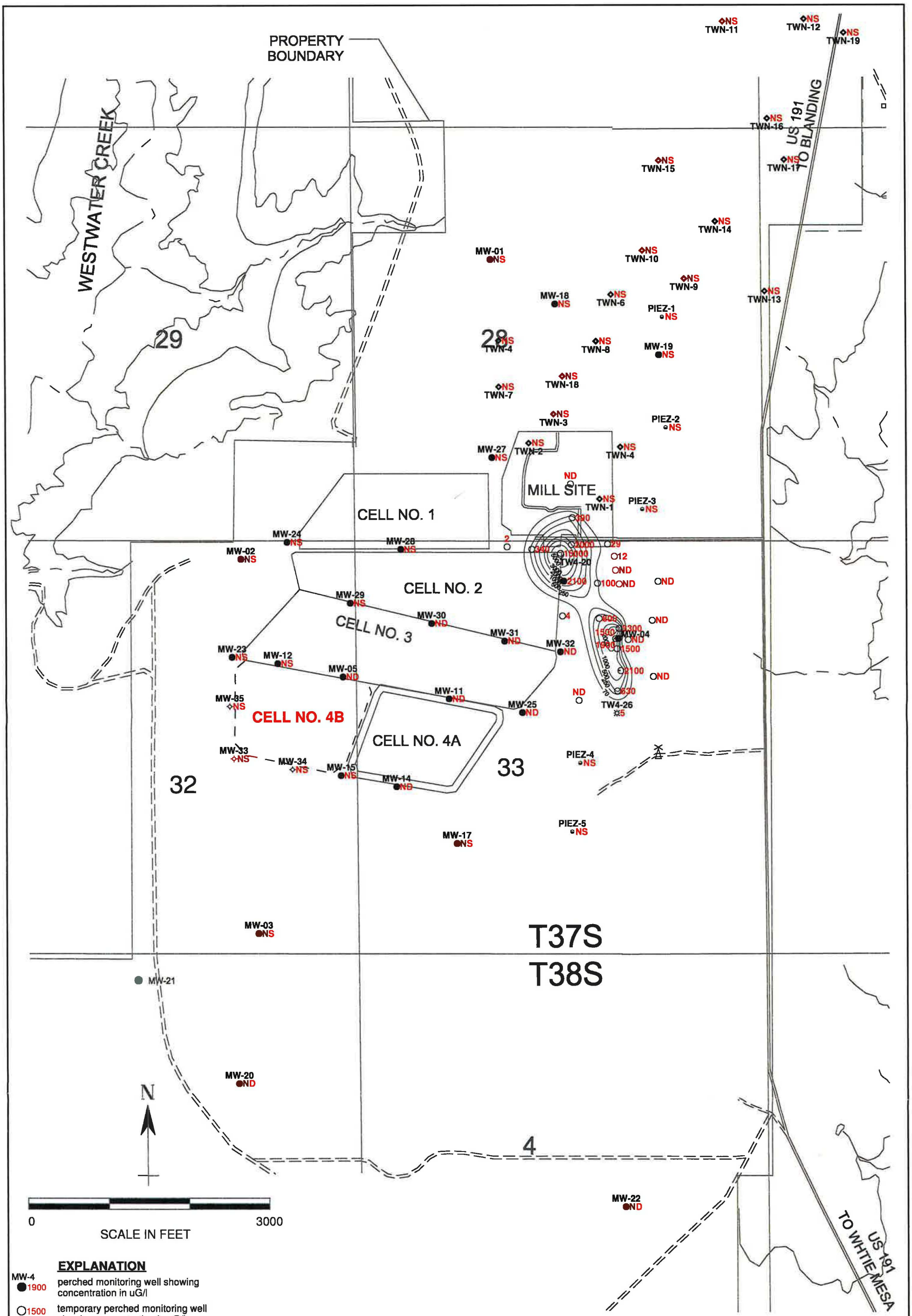
Rinsate Sample	Parameter	Rinsate Result		Sample Date	Previous Well Sampled	Result for Previous Well Sampled		Qualifier	Rinsate Reporting Limit
TW4-12R	Nitrogen	0.1	mg/L		TW4-3	3.1	mg/L	D	0.1 mg/L
TW4-13R	Nitrogen	0.1	mg/L		TW4-12	9	mg/L	D	0.1 mg/L
TW4-8R	Nitrogen	0.1	mg/L		TW4-25	14	mg/L	D	0.1 mg/L
TW4-6R	Chloroform	6.2	ug/L		TW4-10	100	mg/L	D	1.0 ug/L
TW4-11R	Chloroform	2.1	ug/L		TW4-6	630	ug/L	D	1.0 ug/L
TW4-7R	Chloroform	1.1	ug/L		TW4-11	800	ug/L	D	1.0 ug/L
TW4-2R	Chloroform	1.7	ug/L		TW4-7	1500	ug/L	D	1.0 ug/L
TW4-24R	Nitrogen	0.1	mg/L		NA	NA	mg/L		0.1 mg/L
TW4-22R	Nitrogen	0.1	mg/L		TW4-16	4.6	mg/L	D	0.1 mg/L
TW4-1R	Nitrogen	0.1	mg/L		TW4-22	15	mg/L	D	0.1 mg/L
TW4-1R	Chloroform	8.2	ug/L		TW4-22	340	ug/L	D	1.0 ug/L

Previous well sampled is the well that the pump was used to purge prior to the rinsate sample.

D = Reporting limit raised due to dilution/sample matrix.

Tab J

Kriged Current Quarter Chloroform Isoconcentration Map



NOTES: ND = not detected, NS = not sampled

EXPLANATION

MW-4 ● 1900	perched monitoring well showing concentration in uG/l
○ 1500	temporary perched monitoring well showing concentration in uG/l
PIEZ-1 NS	perched piezometer (not sampled)
TWN-1 ◇ NS	temporary perched nitrate monitoring well (not sampled)
TW4-26 ✲ 5	temporary perched monitoring well installed May, 2010 showing concentration in uG/l
MW-34 ◇ NS	perched monitoring well installed August/September, 2010 (not sampled)

HYDRO GEO CHEM, INC.

KRIGED 3rd QUARTER, 2010 CHLOROFORM (uG/L)
WHITE MESA SITE

APPROVED	DATE	REFERENCE	FIGURE
SJS		H:/718000/nov10/chl0810.srf	

Tab K

Analyte Concentrations Over Time

MW-4	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
28-Sep-99	6200					
28-Sep-99	5820					
28-Sep-99	6020					
15-Mar-00	5520					
15-Mar-00	5430					
2-Sep-00	5420				9.63	
30-Nov-00	6470				9.37	
29-Mar-01	4360				8.77	
22-Jun-01	6300				9.02	
20-Sep-01	5300				9.45	
8-Nov-01	5200				8	
26-Mar-02	4700				8.19	
22-May-02	4300				8.21	
12-Sep-02	6000				8.45	
24-Nov-02	2500				8.1	
28-Mar-03	2000				8.3	
30-Apr-03	3300				NA	
30-May-03	3400				8.2	
23-Jun-03	4300				8.2	
30-Jul-03	3600				8.1	
29-Aug-03	4100				8.4	
12-Sep-03	3500				8.5	
15-Oct-03	3800				8.1	
8-Nov-03	3800				8	
29-Mar-04	NA				NA	
22-Jun-04	NA				NA	
17-Sep-04	3300				6.71	
17-Nov-04	4300				7.5	
16-Mar-05	2900				6.3	
25-May-05	3170	NA	NA	NA	7.1	NA
31-Aug-05	3500	<10	<10	<10	7.0	NA
1-Dec-05	3000	<50	<50	<50	7.0	NA
9-Mar-06	3100	<50	<50	50	6	49
14-Jun-06	3000	<50	<50	50	6	49
20-Jul-06	2820	<50	<50	<50	1.2	48
9-Nov-06	2830	2.1	1.4	<1	6.4	50
28-Feb-07	2300	1.6	<1	<1	6.3	47
27-Jun-07	2000	1.8	<1	<1	7	45
15-Aug-07	2600	1.9	<1	<1	6.2	47
10-Oct-07	2300	1.7	<1	<1	6.2	45
26-Mar-08	2400	1.7	<1	<1	5.8	42
25-Jun-08	2500	1.6	<1	<1	6.09	42
10-Sep-08	1800	1.8	<1	<1	6.36	35
15-Oct-08	2100	1.7	<1	<1	5.86	45
4-Mar-09	2200	1.5	<1	<1	5.7	37

MW-4	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
23-Jun-09	1800	1.3	<1	<1	5.2	34
14-Sep-09	2000	1.4	<1	<1	5.3	43
14-Dec-09	1800	1.6	ND	ND	5.8	44
17-Feb-10	1600	1.2	ND	ND	4	45
14-Jun-10	2100	1.2	ND	ND	5.1	41
16-Aug-10	1900	1.5	ND	ND	4.8	38

TW4-1	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
28-Jun-99	1700				7.2	
10-Nov-99	5.8					
15-Mar-00	1100					
10-Apr-00	1490					
6-Jun-00	1530					
2-Sep-00	2320				5.58	
30-Nov-00	3440				7.79	
29-Mar-01	2340				7.15	
22-Jun-01	6000				8.81	
20-Sep-01					12.8	
8-Nov-01	3200				12.4	
26-Mar-02	3200				13.1	
22-May-02	2800				12.7	
12-Sep-02	3300				12.8	
24-Nov-02	3500				13.6	
28-Mar-03	3000				12.4	
23-Jun-03	3600				12.5	
12-Sep-03	2700				12.5	
8-Nov-03	3400				11.8	
29-Mar-04	3200				11	
22-Jun-04	3100				8.78	
17-Sep-04	2800				10.8	
17-Nov-04	3000				11.1	
16-Mar-05	2700				9.1	
25-May-05	3080	NA	NA	NA	10.6	NA
31-Aug-05	2900	<10	<10	<10	9.8	NA
1-Dec-05	2400	<50	<50	<50	9.7	NA
9-Mar-06	2700	<50	<50	<50	9.4	49
14-Jun-06	2200	<50	<50	<50	9.8	48
20-Jul-06	2840	<50	<50	<50	9.7	51
8-Nov-06	2260	1.4	<1	<1	9.4	47
28-Feb-07	1900	1.2	<1	<1	8.9	47
27-Jun-07	1900	1.4	<1	<1	9	45
15-Aug-07	2300	1.3	<1	<1	8.4	43
10-Oct-07	2000	1.3	<1	<1	7.8	43
26-Mar-08	2000	1.3	<1	<1	7.6	39
25-Jun-08	1900	1.1	<1	<1	8.68	39
10-Sep-08	1700	1.3	<1	<1	8.15	35
15-Oct-08	1700	1.3	<1	<1	9.3	41

TW4-1	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
11-Mar-09	1700	1.1	<1	<1	7.5	37
24-Jun-09	1500	1	<1	<1	6.9	37
15-Sep-09	1700	<1	<1	<1	7.3	36
29-Dec-09	1400	<1	<1	<1	6.8	41
3-Mar-10	1300	<1	<1	<1	7.1	35
15-Jun-10	1600	1.2	<1	<1	6.8	40
24-Aug-10	1500	<1	<1	<1	6.8	35

TW4-2	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
10-Nov-99	2510					
2-Sep-00	5220					
28-Nov-00	4220				10.7	
29-Mar-01	3890				10.2	
22-Jun-01	5500				9.67	
20-Sep-01	4900				11.4	
8-Nov-01	5300				10.1	
26-Mar-02	5100				9.98	
23-May-02	4700				9.78	
12-Sep-02	6000				9.44	
24-Nov-02	5400				10.4	
28-Mar-03	4700				9.5	
23-Jun-03	5100				9.6	
12-Sep-03	3200				8.6	
8-Nov-03	4700				9.7	
29-Mar-04	4200				9.14	
22-Jun-04	4300				8.22	
17-Sep-04	4100				8.4	
17-Nov-04	4500				8.6	
16-Mar-05	3700				7.7	
25-May-05	3750				8.6	
31-Aug-05	3900	<10	<10	<10	8	NA
1-Dec-05	3500	<50	<50	<50	7.8	NA
9-Mar-06	3800	<50	<50	<50	7.5	56
14-Jun-06	3200	<50	<50	<50	7.1	56
20-Jul-06	4120	<50	<50	<50	7.4	54
8-Nov-06	3420	2.3	<1	<1	7.6	55
28-Feb-07	2900	1.8	<1	<1	7.3	54
27-Jun-07	3000	2.5	<1	<1	7.8	50
15-Aug-07	340	2.2	<1	<1	7.3	49
10-Oct-07	3200	2.1	<1	<1	6.9	51
26-Mar-08	3300	2.3	<1	<1	6.9	48
25-Jun-08	3100	2.2	<1	<1	7.44	46
10-Sep-08	2800	2.4	<1	<1	7.1	42
15-Oct-08	3200	2.4	<2	<2	7.99	47
11-Mar-09	3100	2.2	<1	<1	6.5	46
24-Jun-09	2800	2	<1	<1	6.4	44
15-Sep-09	3000	2	<1	<1	6.6	43
29-Dec-09	1600	2	<1	<1	6.4	46

TW4-2	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
3-Mar-10	2600	2	<1	<1	6.8	42
15-Jun-10	3300	2.6	<1	<1	6.7	43
16-Aug-10	3300	2.5	<1	<1	6.6	43

TW4-3	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
28-Jun-99	3500				7.6	
29-Nov-99	702					
15-Mar-00	834					
2-Sep-00	836				1.56	
29-Nov-00	836				1.97	
27-Mar-01	347				1.85	
21-Jun-01	390				2.61	
20-Sep-01	300				3.06	
7-Nov-01	170				3.6	
26-Mar-02	11				3.87	
21-May-02	204				4.34	
12-Sep-02	203				4.32	
24-Nov-02	102				4.9	
28-Mar-03	0				4.6	
23-Jun-03	0				4.8	
12-Sep-03	0				4.3	
8-Nov-03	0				4.8	
29-Mar-04	0				4.48	
22-Jun-04	0				3.68	
17-Sep-04	0				3.88	
17-Nov-04	0				4.1	
16-Mar-05	0				3.5	
25-May-05	<1	NA	NA	NA	3.7	NA
31-Aug-05	<1	<1	6.4	<1	3.5	NA
1-Dec-05	<1	<1	2.3	<1	3.3	NA
9-Mar-06	<1	<1	2.2	<1	3.3	26
14-Jun-06	<1	<1	<1	<1	3.2	26
20-Jul-06	<1	<1	1.6	<1	2.9	26
8-Nov-06	<1	<1	<1	<1	1.5	23
28-Feb-07	<1	<1	<1	<1	3.1	22
27-Jun-07	<1	<1	<1	<1	3.3	23
15-Aug-07	<1	<1	<1	<1	3.1	24
10-Oct-07	<1	<1	<1	<1	2.8	27
26-Mar-08	<1	<1	<1	<1	2.8	21
25-Jun-08	<1	<1	<1	<1	2.85	19
10-Sep-08	<1	<1	<1	<1	2.66	19
15-Oct-08	<1	<1	<1	<1	2.63	22
4-Mar-09	<1	<1	<1	<1	2.5	21
24-Jun-09	<1	<1	<1	<1	2.9	20

TW4-3	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
15-Sep-09	<1	<1	<1	<1	2.8	21
16-Dec-09	<1	<1	<1	<1	2.5	22
23-Feb-10	<1	<1	<1	<1	2.8	23
8-Jun-10	<1	<1	<1	<1	3	24
10-Aug-10	<1	<1	<1	<1	3.1	22

TW4-4	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
6-Jun-00	0					
2-Sep-00	0					
28-Nov-00	3.9					
28-Mar-01	2260				1.02	
20-Jun-01	3100				14.5	
20-Sep-01	3200				14	
8-Nov-01	2900				14.8	
26-Mar-02	3400				15	
22-May-02	3200				13.2	
12-Sep-02	4000				13.4	
24-Nov-02	3800				12.6	
28-Mar-03	3300				13.4	
23-Jun-03	3600				12.8	
12-Sep-03	2900				12.3	
8-Nov-03	3500				12.3	
29-Mar-04	3200				12.2	
22-Jun-04	3500				12.1	
17-Sep-04	3100				11.1	
17-Nov-04	3600				10.8	
16-Mar-05	3100				11.6	
25-May-05	2400	NA	NA	NA	11.3	NA
31-Aug-05	3200	<10	<10	<10	9.9	NA
1-Dec-05	2800	<50	<50	<50	10.2	NA
9-Mar-06	2900	<50	<50	<50	9.5	51
14-Jun-06	2600	<50	<50	<50	8.6	48
20-Jul-06	2850	<50	<50	<50	9.7	50
8-Nov-06	2670	1.7	<1	<1	10.1	49
28-Feb-07	2200	1.5	<1	<1	9	49
27-Jun-07	2400	1.7	<1	<1	9.4	47
15-Aug-07	2700	1.5	<1	<1	9.5	45
10-Oct-07	2500	1.5	<1	<1	9.5	47
26-Mar-08	2800	1.6	<1	<1	9.2	43
25-Jun-08	2500	1.5	<1	<1	10.8	42
10-Sep-08	2200	1.4	<1	<1	8.83	39
15-Oct-08	2500	2	<2	<2	10.1	44
4-Mar-09	2200	1.2	<1	<1	10.2	37
24-Jun-09	1800	1.2	<1	<1	8.2	34
15-Sep-09	2000	1.1	<1	<1	8.4	39
29-Dec-09	950	1.1	<1	<1	7.6	41

TW4-4	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
17-Feb-10	1700	1	<1	<1	6.6	48
10-Jun-10	2000	1.2	<1	<1	7.6	35
16-Aug-10	2100	1.3	<1	<1	7.3	36

TW4-5	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
20-Dec-99	29.5					
15-Mar-00	49.0					
2-Sep-00	124					
29-Nov-00	255					
28-Mar-01	236					
20-Jun-01	240					
20-Sep-01	240					
7-Nov-01	260					
26-Mar-02	260					
22-May-02	300					
12-Sep-02	330					
24-Nov-02	260					
28-Mar-03	240					
23-Jun-03	290					
12-Sep-03	200					
8-Nov-03	240					
29-Mar-04	210					
22-Jun-04	200					
17-Sep-04	150					
17-Nov-04	180					
16-Mar-05	120					
25-May-05	113	NA	NA	NA	3.7	NA
31-Aug-05	82.0	<2.5	5.8	<2.5	6	NA
1-Dec-05	63.0	<2.5	2.5	<2.5	6	NA
9-Mar-06	66.0	<2.5	3.1	<2.5	6	52
14-Jun-06	51.0	<1	<2.5	<2.5	5.9	51
20-Jul-06	53.7	<1	<1	<1	6.7	54
8-Nov-06	47.1	<1	<1	<1	2.9	55
28-Feb-07	33.0	<1	<1	<1	7.8	57
27-Jun-07	26.0	<1	<1	<1	7	45
15-Aug-07	9.2	<1	<1	<1	7.7	38
10-Oct-07	9.4	<1	<1	<1	8.2	39
26-Mar-08	11.0	<1	<1	<1	7.4	36
25-Jun-08	9.3	<1	<1	<1	8.7	37
10-Sep-08	11.0	<1	<1	<1	7.91	34
15-Oct-08	10.0	<1	<1	<1	9.3	37
4-Mar-09	12.0	<1	<1	<1	7.9	34
24-Jun-09	13.0	<1	<1	<1	7.5	37
15-Sep-09	12.0	<1	<1	<1	8.3	48

TW4-5	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
22-Dec-09	8.5	<1	<1	<1	7.5	41
25-Feb-10	13.0	<1	<1	<1	6.8	43
9-Jun-10	12.0	<1	<1	<1	7.1	28
11-Aug-10	12.0	<1	<1	<1	7	38

TW4-6	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
6-Jun-00	0					
2-Sep-00	0					
28-Nov-00	0				ND	
26-Mar-01	0				0.13	
20-Jun-01	0				ND	
20-Sep-01	4				ND	
7-Nov-01	1				ND	
26-Mar-02	0				ND	
21-May-02	0				ND	
12-Sep-02	0				ND	
24-Nov-02	0				ND	
28-Mar-03	0				0.1	
23-Jun-03	0				ND	
12-Sep-03	0				ND	
8-Nov-03	0				ND	
29-Mar-04	0				ND	
22-Jun-04	0				ND	
17-Sep-04	0				ND	
17-Nov-04	0				ND	
16-Mar-05	0				0.2	
25-May-05	2.5	NA	NA	NA	0.4	NA
31-Aug-05	10.0	<1	2.8	<1	0.8	NA
1-Dec-05	17.0	<1	1.3	<1	0.9	NA
9-Mar-06	31.0	<1	<1	<1	1.2	31
14-Jun-06	19.0	<1	<1	<1	1	30
20-Jul-06	11.0	<1	<1	<1	0.6	37
8-Nov-06	42.8	<1	<1	<1	1.4	65
28-Feb-07	46.0	<1	<1	<1	1.5	32
27-Jun-07	11.0	<1	<1	<1	0.6	38
15-Aug-07	18.0	<1	<1	<1	0.7	36
10-Oct-07	18.0	<1	<1	<1	0.8	38
26-Mar-08	52.0	<1	<1	<1	1.1	33
25-Jun-08	24.0	<1	<1	<1	0.9	35
10-Sep-08	39.0	<1	<1	<1	1.14	35
15-Oct-08	37.0	<1	<1	<1	1.01	33
11-Mar-09	81.0	<1	<1	<1	2.2	35
24-Jun-09	120	<1	<1	<1	2.7	37
15-Sep-09	280	<1	<1	<1	5.0	37
22-Dec-09	250	<1	<1	<1	6.1	41
25-Feb-10	1000	<1	<1	<1	1.6	45
10-Jun-10	590	<1	<1	<1	2.5	33
12-Aug-10	630	<1	<1	<1	3.9	31

TW4-6	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
6-Jun-00	0					
2-Sep-00	0					
28-Nov-00	0				ND	
26-Mar-01	0				0.13	
20-Jun-01	0				ND	
20-Sep-01	4				ND	
7-Nov-01	1				ND	
26-Mar-02	0				ND	
21-May-02	0				ND	
12-Sep-02	0				ND	
24-Nov-02	0				ND	
28-Mar-03	0				0.1	
23-Jun-03	0				ND	
12-Sep-03	0				ND	
8-Nov-03	0				ND	
29-Mar-04	0				ND	
22-Jun-04	0				ND	
17-Sep-04	0				ND	
17-Nov-04	0				ND	
16-Mar-05	0				0.2	
25-May-05	2.5	NA	NA	NA	0.4	NA
31-Aug-05	10.0	<1	2.8	<1	0.8	NA
1-Dec-05	17.0	<1	1.3	<1	0.9	NA
9-Mar-06	31.0	<1	<1	<1	1.2	31
14-Jun-06	19.0	<1	<1	<1	1	30
20-Jul-06	11.0	<1	<1	<1	0.6	37
8-Nov-06	42.8	<1	<1	<1	1.4	65
28-Feb-07	46.0	<1	<1	<1	1.5	32
27-Jun-07	11.0	<1	<1	<1	0.6	38
15-Aug-07	18.0	<1	<1	<1	0.7	36
10-Oct-07	18.0	<1	<1	<1	0.8	38
26-Mar-08	52.0	<1	<1	<1	1.1	33
25-Jun-08	24.0	<1	<1	<1	0.9	35
10-Sep-08	39.0	<1	<1	<1	1.14	35
15-Oct-08	37.0	<1	<1	<1	1.01	33
11-Mar-09	81.0	<1	<1	<1	2.2	35
24-Jun-09	120	<1	<1	<1	2.7	37
15-Sep-09	280	<1	<1	<1	5.0	37
22-Dec-09	250	<1	<1	<1	6.1	41
25-Feb-10	1000	<1	<1	<1	1.6	45
10-Jun-10	590	<1	<1	<1	2.5	33
12-Aug-10	630	<1	<1	<1	3.9	31

TW4-7	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
29-Nov-99	256					
15-Mar-00	616					
2-Sep-00	698					
29-Nov-00	684				1.99	
28-Mar-01	747				2.46	
20-Jun-01	1100				2.65	
20-Sep-01	1200				3.38	
8-Nov-01	1100				2.5	
26-Mar-02	1500				3.76	
23-May-02	1600				3.89	
12-Sep-02	1500				3.18	
24-Nov-02	2300				4.6	
28-Mar-03	1800				4.8	
23-Jun-03	5200				7.6	
12-Sep-03	3600				7.6	
8-Nov-03	4500				7.1	
29-Mar-04	2500				4.63	
22-Jun-04	2900				4.83	
17-Sep-04	3100				5.59	
17-Nov-04	3800				6	
16-Mar-05	3100				5.2	
25-May-05	2700	NA	NA	NA	5.4	NA
31-Aug-05	3100	<10	<10	<10	5.2	NA
1-Dec-05	2500	<50	<50	<50	5.3	NA
9-Mar-06	1900	<50	<50	<50	1	48
14-Jun-06	2200	<50	<50	<50	4.5	47
20-Jul-06	2140	<50	<50	<50	4.7	51
8-Nov-06	2160	1.5	<1	<1	4.6	49
28-Feb-07	1800	1.1	<1	<1	5	47
27-Jun-07	2600	1.5	<1	<1	5.1	45
14-Aug-07	2300	1.4	<1	<1	4.7	44
10-Oct-07	1900	1.2	<1	<1	4.7	45
26-Mar-08	2200	1.3	<1	<1	4.2	43
25-Jun-08	1800	1.3	<1	<1	4.8	43
10-Sep-08	1600	1.4	<1	<1	4.16	35
15-Oct-08	1900	<2	<2	<2	4.01	40
11-Mar-09	1800	1.2	<1	<1	3.7	35
24-Jun-09	1400	<1	<1	<1	3.8	37
15-Sep-09	1500	1.0	<1	<1	4.1	37

TW4-7	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
29-Dec-09	1300	<1	<1	<1	4.2	37
3-Mar-10	1200	<1	<1	<1	3.8	36
10-Jun-10	1100	<1	<1	<1	3.9	31
18-Aug-10	1500	1.1	<1	<1	3.9	36

TW4-8	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
29-Nov-99	0					
15-Mar-00	21.8					
2-Sep-00	102					
29-Nov-00	107				ND	
26-Mar-01	116				ND	
20-Jun-01	180				ND	
20-Sep-01	180				0.35	
7-Nov-01	180				ND	
26-Mar-02	190				0.62	
22-May-02	210				0.77	
12-Sep-02	300				ND	
24-Nov-02	450				ND	
28-Mar-03	320				0.8	
23-Jun-03	420				ND	
12-Sep-03	66.0				ND	
8-Nov-03	21.0				0.1	
29-Mar-04	24.0				0.65	
22-Jun-04	110				0.52	
17-Sep-04	120				ND	
17-Nov-04	120				ND	
16-Mar-05	10.0				ND	
25-May-05	<1	NA	NA	NA	0.2	NA
31-Aug-05	1.1	<1	1.7	<1	<0.1	NA
30-Nov-05	<1	<1	<1	<1	<0.1	NA
9-Mar-06	1.3	<1	2.1	<1	0.3	39
14-Jun-06	1.0	<1	1.8	<1	<0.1	37
20-Jul-06	<1	<1	<1	<1	0.1	39
8-Nov-06	<1	<1	<1	<1	<0.1	40
28-Feb-07	2.5	<1	<1	<1	0.7	39
27-Jun-07	2.5	<1	<1	<1	0.2	42
15-Aug-07	1.5	<1	<1	<1	<0.1	42
10-Oct-07	3.5	<1	<1	<1	0.5	43
26-Mar-08	<1	<1	<1	<1	0.1	46
25-Jun-08	<1	<1	<1	<1	<0.05	45
10-Sep-08	<1	<1	<1	<1	<0.05	39
15-Oct-08	<1	<1	<1	<1	<0.05	44
4-Mar-09	<1	<1	<1	<1	<0.1	42
24-Jun-09	<1	<1	<1	<1	<0.1	44
15-Sep-09	<1	<1	<1	<1	<1	44

TW4-8	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
17-Dec-09	<1	<1	<1	<1	<0.1	51
24-Feb-10	<1	<1	<1	<1	<0.1	57
9-Jun-10	<1	<1	<1	<1	<0.1	42
11-Aug-10	<1	<1	<1	<1	<0.1	45

TW4-9	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
20-Dec-99	4.2					
15-Mar-00	1.9					
2-Sep-00	14.2					
29-Nov-00	39.4				ND	
27-Mar-01	43.6				ND	
20-Jun-01	59.0				0.15	
20-Sep-01	19.0				0.4	
7-Nov-01	49.0				0.1	
26-Mar-02	41.0				0.5	
22-May-02	38.0				0.65	
12-Sep-02	49.0				0.2	
24-Nov-02	51.0				0.6	
28-Mar-03	34.0				0.6	
23-Jun-03	33.0				0.8	
12-Sep-03	32.0				1.1	
8-Nov-03	46.0				1.1	
29-Mar-04	48.0				0.82	
22-Jun-04	48.0				0.75	
17-Sep-04	39.0				0.81	
17-Nov-04	26.0				1.2	
16-Mar-05	3.8				1.3	
25-May-05	1.2	NA	NA	NA	1.3	NA
31-Aug-05	<1	<1	2.9	<1	1.3	NA
1-Dec-05	<1	<1	<1	<1	1.3	NA
9-Mar-06	<1	<1	2.6	<1	1.5	38
14-Jun-06	<1	<1	2.7	<1	1.5	39
20-Jul-06	<1	<1	<1	<1	0.9	41
8-Nov-06	<1	<1	<1	<1	0.7	44
28-Feb-07	<1	<1	<1	<1	0.6	44
27-Jun-07	21	<1	<1	<1	1.3	42
15-Aug-07	9.5	<1	<1	<1	1.8	38
10-Oct-07	8.7	<1	<1	<1	2	40
26-Mar-08	1.3	<1	<1	<1	2.1	35
25-Jun-08	1.0	<1	<1	<1	2.3	35
10-Sep-08	<1	<1	<1	<1	2.79	28
15-Oct-08	<1	<1	<1	<1	1.99	58
4-Mar-09	<1	<1	<1	<1	2.5	30
24-Jun-09	<1	<1	<1	<1	2.3	30
15-Sep-09	<1	<1	<1	<1	2.5	30

TW4-9	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
17-Dec-09	<1	<1	<1	<1	1.7	37
23-Feb-10	<1	<1	<1	<1	1.7	47
9-Jun-10	<1	<1	<1	<1	1.5	33
11-Aug-10	<1	<1	<1	<1	1.2	40

TW4-10	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
21-Jan-02	14					
26-Mar-02	16				0.14	
21-May-02	17				0.11	
12-Sep-02	6				ND	
24-Nov-02	14				ND	
28-Mar-03	29				0.2	
23-Jun-03	110				0.4	
12-Sep-03	74				0.4	
8-Nov-03	75				0.3	
29-Mar-04	22				0.1	
22-Jun-04	32				ND	
17-Sep-04	63				0.46	
17-Nov-04	120				0.4	
16-Mar-05	140				1.6	
25-May-05	62.4	NA	NA	NA	0.8	NA
31-Aug-05	110	<2.5	6.2	<2.5	1.1	NA
1-Dec-05	300	<2.5	<2.5	<2.5	3.3	NA
9-Mar-06	190	<5	<50	<50	2.4	50
14-Jun-06	300	<5	<50	<50	3.5	54
20-Jul-06	504	<5	<50	<50	6.8	61
8-Nov-06	452	<1	1.6	1	5.7	58
28-Feb-07	500	<1	<1	1	7.6	62
27-Jun-07	350	<1	<1	1	5.1	54
15-Aug-07	660	<1	<1	1	7.3	59
10-Oct-07	470	<1	<1	1	6.7	59
26-Mar-08	620	<1	<1	1	7.3	55
25-Jun-08	720	<1	<1	1	9.91	58
10-Sep-08	680	<1	<1	1	9.23	51
15-Oct-08	1200	<2	<2	2	10.5	61
11-Mar-09	1100	<1	<1	1	11.6	64
24-Jun-09	1200	<1	<1	1	9.8	62
15-Sep-09	910	<1	<1	1	8.1	51
22-Dec-09	300	<1	<1	<1	3.5	51
3-Mar-10	460	<1	<1	<1	5	49
10-Jun-10	220	<1	<1	<1	1.6	42
12-Aug-10	100	<1	<1	<1	0.8	38

TW4-11	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
21-Jan-02	4700					
26-Mar-02	4900				9.6	
22-May-02	5200				9.07	
12-Sep-02	6200				8.84	
24-Nov-02	5800				9.7	
28-Mar-03	5100				9.7	
23-Jun-03	5700				9.4	
12-Sep-03	4600				9.9	
8-Nov-03	5200				9.3	
29-Mar-04	5300				9.07	
22-Jun-04	5700				8.74	
17-Sep-04	4800				8.75	
17-Nov-04	5800				9.7	
16-Mar-05	4400				8.7	
25-May-05	3590	NA	NA	NA	10.3	NA
31-Aug-05	4400	<10	<10	<10	9.4	NA
1-Dec-05	4400	<100	<100	<100	9.4	NA
9-Mar-06	4400	<50	<50	<50	9.2	56
14-Jun-06	4300	<50	<50	<50	10	56
20-Jul-06	4080	<50	<50	<50	10	55
8-Nov-06	3660	1.7	2.7	1.3	10	55
28-Feb-07	3500	1.3	<1	1.6	10.1	54
27-Jun-07	3800	1.6	<1	1.1	10.6	53
15-Aug-07	4500	1.7	<1	1.1	10.2	53
10-Oct-07	4400	1.6	<1	1.2	9.8	53
26-Mar-08	340	<1	<1	<1	7.7	63
25-Jun-08	640	<1	<1	<1	7.28	46
10-Sep-08	900	<1	<1	<1	7.93	42
15-Oct-08	1000	<2	<2	<2	9.46	47
11-Mar-09	1100	<1	<1	<1	7.3	49
24-Jun-09	980	<1	<1	<1	6.8	44
15-Sep-09	1000	<1	<1	<1	7	49
29-Dec-09	860	<1	<1	<1	6.6	46
3-Mar-10	820	<1	<1	<1	6.8	42
10-Jun-10	820	<1	<1	<1	6.9	40
12-Aug-10	800	<1	<1	<1	6.7	43

TW4-12	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
12-Sep-02	2				2.54	
24-Nov-02	0				2.2	
28-Mar-03	0				1.9	
23-Jun-03	0				1.8	
12-Sep-03	0				1.8	
9-Nov-03	0				1.6	
29-Mar-04	0				1.58	
22-Jun-04	0				1.4	
17-Sep-04	0				1.24	
17-Nov-04	0				1.5	
16-Mar-05	0				1.4	
25-May-05	<1	NA	NA	NA	1.6	NA
31-Aug-05	<1	<1	5.8	<1	1.5	NA
1-Dec-05	<1	<1	1.9	<2	1.4	NA
9-Mar-06	<1	<1	2.6	<1	1.3	19
14-Jun-06	<1	<1	1.4	<1	1.4	16
20-Jul-06	<1	<1	<1	<1	1.4	16
8-Nov-06	<1	<1	<1	<1	1.4	16
28-Feb-07	<1	<1	<1	<1	1.5	16
27-Jun-07	<1	<1	<1	<1	1,5	18
15-Aug-07	<1	<1	<1	<1	1.4	29
10-Oct-07	<1	<1	<1	<1	1.4	16
26-Mar-08	<1	<1	<1	<1	1.6	16
25-Jun-08	<1	<1	<1	<1	2.69	19
10-Sep-08	<1	<1	<1	<1	2.65	18
15-Oct-08	<1	<1	<1	<1	2.47	22
4-Mar-09	<1	<1	<1	<1	2.4	23
24-Jun-09	<1	<1	<1	<1	3.8	22
15-Sep-09	<1	<1	<1	<1	5.1	22
16-Dec-09	<1	<1	<1	<1	3.6	23
23-Feb-10	<1	<1	<1	<1	4	22
8-Jun-10	<1	<1	<1	<1	11	29
10-Aug-10	<1	<1	<1	<1	9	35

TW4-13	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
12-Sep-02	ND				ND	
24-Nov-02	ND				ND	
28-Mar-03	ND				0.2	
23-Jun-03	ND				0.2	
12-Sep-03	ND				ND	
9-Nov-03	ND				0.9	
29-Mar-04	ND				0.12	
22-Jun-04	ND				0.17	
17-Sep-04	ND				4.43	
17-Nov-04	ND				4.7	
16-Mar-05	ND				4.2	
25-May-05	<1	NA	NA	NA	4.3	NA
31-Aug-05	<1	<1	3.1	<1	4.6	NA
1-Dec-05	<1	<1	<1	<1	4.3	NA
9-Mar-06	<1	<1	1.7	<1	4.2	67
14-Jun-06	<1	<1	1.4	<1	4.9	66
20-Jul-06	<1	<1	<1	<1	4.3	65
8-Nov-06	<1	<1	<1	<1	0.8	33
28-Feb-07	<1	<1	<1	<1	4	59
27-Jun-07	<1	<1	<1	<1	4.6	59
15-Aug-07	<1	<1	<1	<1	4.4	58
10-Oct-07	<1	<1	<1	<1	4.1	58
26-Mar-08	<1	<1	<1	<1	3.8	54
25-Jun-08	<1	<1	<1	<1	4.24	58
10-Sep-08	<1	<1	<1	<1	4.26	50
15-Oct-08	<1	<1	<1	<1	4.63	58
4-Mar-09	<1	<1	<1	<1	3.7	58
24-Jun-09	<1	<1	<1	<1	1.2	57
15-Sep-09	<1	<1	<1	<1	4.7	63
16-Dec-09	<1	<1	<1	<1	4.1	60
24-Feb-10	<1	<1	<1	<1	4.3	53
8-Jun-10	<1	<1	<1	<1	5.2	52
10-Aug-10	<1	<1	<1	<1	5.6	55

TW4-14	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
8-Nov-06	<1	<1	<1	<1	2.4	37
28-Feb-07	<1	<1	<1	<1	2.3	38
27-Jun-07	<1	<1	<1	<1	1.4	38
15-Aug-07	<1	<1	<1	<1	1.1	36
10-Oct-07	<1	<1	<1	<1	0.8	36
26-Mar-08	<1	<1	<1	<1	0.04	57
25-Jun-08	<1	<1	<1	<1	1.56	35
10-Sep-08	<1	<1	<1	<1	1.34	34
15-Oct-08	<1	<1	<1	<1	0.76	40
4-Mar-09	<1	<1	<1	<1	1.6	35
24-Jun-09	<1	<1	<1	<1	1.4	36
15-Sep-09	<1	<1	<1	<1	1.5	38
16-Dec-09	<1	<1	<1	<1	1.4	34
3-Mar-10	<1	<1	<1	<1	2.5	33
8-Jun-10	<1	<1	<1	<1	2.9	49
10-Aug-10	<1	<1	<1	<1	2.8	35

TW4-15	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
12-Sep-02	3				ND	
24-Nov-02	0				ND	
28-Mar-03	0				0.1	
23-Jun-03	7800				14.5	
15-Aug-03	7400				16.8	
12-Sep-03	2500				2.7	
25-Sep-03	2600				2.5	
29-Oct-03	3100				3.1	
8-Nov-03	3000				2.8	
29-Mar-04	NA				NA	
22-Jun-04	NA				NA	
17-Sep-04	1400				0.53	
17-Nov-04	300				0.2	
16-Mar-05	310				0.3	
30-Mar-05	230				0.2	
25-May-05	442	NA	NA	NA	0.2	NA
31-Aug-05	960	<5	5.4	<5	0.2	NA
1-Dec-05	1000	<50	<50	<50	0.3	NA
9-Mar-06	1100	<50	<50	<50	0.2	52
14-Jun-06	830	<50	<50	<50	0.2	52
20-Jul-06	2170	<50	<50	<50	1.4	65
8-Nov-06	282	<1	<1	2.8	0.3	54
28-Feb-07	570	<1	<1	5.5	0.5	56
27-Jun-07	300	<1	<1	13	0.4	49
15-Aug-07	1400	<1	<1	36	1	57
10-Oct-07	2000	<1	<1	14	0.6	57
26-Mar-08	930	<1	<1	40	0.1	49
25-Jun-08	1300	<1	<1	53	0.56	57
10-Sep-08	630	<1	<1	24	0.24	44
15-Oct-08	1700	<1	<1	100	0.65	64
4-Mar-09	950	<1	<1	51	0.4	49
24-Jun-09	410	<1	<1	12	0.2	48
15-Sep-09	850	<1	<1	30	0.1	46
14-Dec-09	1100	<1	<1	40	2.3	60
17-Feb-10	780	<1	<1	19	0.2	57
9-Jun-10	1900	<1	<1	28	1.1	58
16-Aug-10	2200	<1	<1	21	0.6	49

TW4-16	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
12-Sep-02	140				ND	
24-Nov-02	200				ND	
28-Mar-03	260				ND	
23-Jun-03	370				ND	
12-Sep-03	350				ND	
8-Nov-03	400				ND	
29-Mar-04	430				ND	
22-Jun-04	530				ND	
17-Sep-04	400				ND	
17-Nov-04	350				ND	
16-Mar-05	240				ND	
25-May-05	212	NA	NA	NA	<0.1	NA
31-Aug-05	85	<1	3.2	43	<0.1	NA
1-Dec-05	14	<2.5	2.6	5.9	1.4	NA
9-Mar-06	39.0	<1	1.1	21	3	60
14-Jun-06	13.0	<1	2.4	8.9	1.9	55
20-Jul-06	5.2	<1	<1	2.7	2.7	60
8-Nov-06	13.6	<1	<1	9.2	5.6	62
28-Feb-07	8.7	<1	<1	6.5	12.3	79
27-Jun-07	2.6	<1	<1	1.8	9.9	75
15-Aug-07	7.1	<1	<1	5.1	5.4	66
10-Oct-07	1.4	<1	<1	<1	4.4	69
26-Mar-08	11.0	<1	<1	26	ND	52
25-Jun-08	<1	<1	<1	<1	1.46	58
10-Sep-08	10	<1	<1	14	10.5	71
15-Oct-08	3.9	<1	<1	6.6	9.82	89
4-Mar-09	<1	<1	<1	<1	9.6	78
24-Jun-09	<1	<1	<1	<1	8.9	76
15-Sep-09	<1	<1	<1	<1	8.8	79
17-Dec-09	<1	<1	<1	<1	5.2	76
24-Feb-10	<1	<1	<1	<1	4.2	77
9-Jun-10	2.1	<1	<1	<1	4.7	64
24-Aug-10	4.3	<1	<1	<1	4.6	72

TW4-17	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
12-Sep-02	1.6				ND	
24-Nov-02	ND				ND	
28-Mar-03	ND				ND	
23-Jun-03	ND				ND	
12-Sep-03	ND				ND	
8-Nov-03	ND				ND	
29-Mar-04	ND				ND	
22-Jun-04	ND				ND	
17-Sep-04	ND				ND	
17-Nov-04	ND				ND	
16-Mar-05	ND				ND	
30-Mar-05	ND				ND	
25-May-05	<1	NA	NA	NA	<0.1	NA
31-Aug-05	<1	<1	3.2	<1	<0.1	NA
1-Dec-05	<1	<1	<1	<1	<0.1	NA
9-Mar-06	<1	<1	<1	<1	<0.1	32
14-Jun-06	<1	<1	3.5	<1	<0.1	30
20-Jul-06	<1	<1	1.8	<1	<0.1	32
8-Nov-06	<1	<1	1.5	<1	<0.1	31
28-Feb-07	<1	<1	<1	<1	<0.1	32
27-Jun-07	<1	<1	<1	<1	<0.1	32
15-Aug-07	<1	<1	<1	<1	<0.1	31
10-Oct-07	<1	<1	<1	<1	<0.1	32
26-Mar-08	<1	<1	<1	<1	<0.1	31
25-Jun-08	<1	<1	<1	<1	<0.05	29
10-Sep-08	<1	<1	<1	<1	<0.05	30
15-Oct-08	<1	<1	<1	<1	<0.05	26
4-Mar-09	<1	<1	<1	<1	<0.1	30
24-Jun-09	<1	<1	<1	<1	<0.1	31
15-Sep-09	<1	<1	<1	<1	<0.1	33
16-Dec-09	<1	<1	<1	<1	<0.1	34
17-Feb-10	<1	<1	<1	<1	<0.1	38
14-Jun-10	<1	<1	<1	<1	<0.1	32
16-Aug-10	<1	<1	<1	<1	<0.1	28

TW4-18	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
12-Sep-02	440				1.49	
24-Nov-02	240				13.3	
28-Mar-03	160				13.1	
23-Jun-03	110				19	
12-Sep-03	68.0				19.9	
9-Nov-03	84.0				20.7	
29-Mar-04	90.0				14	
22-Jun-04	82.0				12.2	
17-Sep-04	38.0				14.5	
17-Nov-04	51.0				17.3	
16-Mar-05	38.0				14.1	
25-May-05	29.8	NA	NA	NA	12.9	NA
31-Aug-05	39	<1	2.8	<1	13.3	NA
1-Dec-05	14	<1	1.1	<1	7.3	NA
9-Mar-06	12.0	<1	1.1	<1	5.9	5.9
14-Jun-06	12.0	<1	1.6	<1	4.7	35
20-Jul-06	10.8	<1	2.7	<1	6.1	35
8-Nov-06	139	<1	<1	<1	8.7	34
28-Feb-07	9.2	<1	<1	<1	5.1	30
27-Jun-07	8.0	<1	<1	<1	4.9	28
15-Aug-07	8.9	<1	<1	<1	5	32
10-Oct-07	7.4	<1	<1	<1	4.4	27
26-Mar-08	6.4	<1	<1	<1	0.7	23
25-Jun-08	5.7	<1	<1	<1	4.55	23
10-Sep-08	8.0	<1	<1	<1	4.68	26
15-Oct-08	9.4	<1	<1	<1	5,15	30
4-Mar-09	11.0	<1	<1	<1	5.2	29
24-Jun-09	16.0	<1	<1	<1	6.2	30
15-Sep-09	13.0	<1	<1	<1	5.9	26
22-Dec-09	8.2	<1	<1	<1	5.4	30
24-Feb-10	69.0	<1	<1	<1	5.1	41
9-Jun-10	29.0	<1	<1	<1	9	35
12-Aug-10	29.0	<1	<1	<1	9	37

TW4-19	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
12-Sep-02	7700				47.6	
24-Nov-02	5400				42	
28-Mar-03	4200				61.4	
15-May-03	4700				NA	
23-Jun-03	4500				11.4	
15-Jul-03	2400				6.8	
15-Aug-03	2600				4	
12-Sep-03	2500				5.7	
25-Sep-03	4600				9.2	
29-Oct-03	4600				7.7	
9-Nov-03	2600				4.8	
29-Mar-04	NA				NA	
22-Jun-04	NA				NA	
16-Aug-04	7100				9.91	
17-Sep-04	2600				4.5	
17-Nov-04	1800				3.6	
16-Mar-05	2200				5.3	
25-May-05	1200				5.7	
31-Aug-05	1400	<5	<5	<5	4.6	NA
1-Dec-05	2800	<50	<50	<50	<0.1	NA
9-Mar-06	1200	<50	<50	<50	4	86
14-Jun-06	1100	<50	<50	<50	5.2	116
20-Jul-06	1120	<50	<50	<50	4.3	123
8-Nov-06	1050	1.6	2.6	<1	4.6	134
28-Feb-07	1200	1.3	<1	<1	4	133
27-Jun-07	1800				2.3	
15-Aug-07	1100	1.9	<1	<1	4.1	129
10-Oct-07	1100	1.9	<1	<1	4	132
26-Mar-08	1800	2.9	<1	<1	2.2	131
25-Jun-08	1000	1	<1	<1	2.81	128
10-Sep-08	3600	8.6	<1	<1	36.2	113
15-Oct-08	4200	12	<1	<1	47.8	124
4-Mar-09	1100	1.2	<1	<1	3.2	127
24-Jun-09	990	1.2	<1	<1	2.4	132
15-Sep-09	6600	15	<1	<1	0.1	43
14-Dec-09	4700	16	<1	<1	26.7	124
17-Feb-10	940	1.3	<1	<1	2	144
9-Jun-10	1800	4.2	<1	<1	4.4	132

TW4-20	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
25-May-05	39000	NA	NA	NA	10.1	NA
31-Aug-05	3800	<10	<10	<10	2.9	NA
1-Dec-05	19000	<250	<250	<250	1.8	NA
9-Mar-06	9200	<500	<500	<500	3.8	120
14-Jun-06	61000	<500	<500	<500	9.4	235
20-Jul-06	5300	<1000	<1000	<1000	2.9	134
8-Nov-06	11000	7.1	1.9	2.2	3.5	124
28-Feb-07	4400	3.1	<1	1.1	4.2	124
27-Jun-07	1800	2.2	<1	<1	2.3	112
15-Aug-07	5200	3.5	<1	1.8	2.1	117
10-Oct-07	9000	6.8	<1	1.9	5.6	170
26-Mar-08	13000	9	<1	1.5	0.9	132
25-Jun-08	30000	13	<1	1.2	7.96	191
10-Sep-08	21000	15	<1	3.7	4.44	156
15-Oct-08	NA	NA	NA	NA	5.51	166
4-Mar-09	8200	5.7	<1	5.2	5.1	164
24-Jun-09	6800	4.9	<2	4.2	2.9	164
15-Sep-09	13000	8.4	<2	4.4	3.3	153
14-Dec-09	15000	14	<1	3	5.3	187
17-Feb-10	3500	2.7	<1	3.2	2	179
14-Jun-10	18000	11	<1	3.7	5.6	200
16-Aug-10	15000	12	<1	2.2	5.3	196

TW4-21	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
25-May-05	192	NA	NA	NA	14.6	NA
31-Aug-05	78	<5	<5	<5	10.1	NA
1-Dec-05	86	<1	1.0	<1	9.6	NA
9-Mar-06	120	<2.5	<2.5	<2.5	8.5	347
14-Jun-06	130	<2.5	<2.5	<2.5	10.2	318
20-Jul-06	106	<2.5	<2.5	<2.5	8.9	357
8-Nov-06	139	2	<1	<1	8.7	296
28-Feb-07	160	1.8	<1	<1	8.7	306
27-Jun-07	300	5.8	<1	<1	8.6	327
15-Aug-07	140	<1	<1	<1	8.6	300
10-Oct-07	120	<1	<1	<1	8.3	288
26-Mar-08	380	7	<1	<1	14.3	331
25-Jun-08	160	1.7	<1	<1	8.81	271
10-Sep-08	120	1.6	<1	<1	7.57	244
15-Oct-08	170	2	<1	<2	8.00	284
11-Mar-09	180	<1	<1	<1	8.3	279
24-Jun-09	200	<1	<1	<1	8.1	291
15-Sep-09	140	<1	<1	<1	9.2	281
22-Dec-09	160	<1	<1	<1	8.4	256
25-Feb-10	170	<1	<1	<1	8.4	228
10-Jun-10	210	1.2	<1	<1	12	266
12-Aug-10	390	9.2	<1	<1	14	278

TW4-22	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
25-May-05	340	NA	NA	NA	18.2	NA
31-Aug-05	290	<5	<5	<5	15.7	NA
1-Dec-05	320	<5	<5	<5	15.1	NA
9-Mar-06	390	<10	<10	<10	15.3	236
14-Jun-06	280	<10	<10	<10	14.3	221
20-Jul-06	864	<10	<10	<10	14.5	221
8-Nov-06	350	<1	1.6	<1	15.9	236
28-Feb-07	440	<1	<1	<1	20.9	347
27-Jun-07	740	<1	<1	<1	19.3	273
15-Aug-07	530	<1	<1	<1	19.3	259
10-Oct-07	440	<1	<1	<1	18.8	238
26-Mar-08	1400	<1	<1	<1	39.1	519
25-Jun-08	1200	<1	<1	<1	41.9	271
10-Sep-08	6300	1.3	<1	<1	38.7	524
15-Oct-08	630	<2	<2	<2	36.3	539
11-Mar-09	390	<1	<1	<1	20.7	177
24-Jun-09	730	<1	<1	<1	20.6	177
15-Sep-09	2300	<1	<1	<1	40.3	391
29-Dec-09	380	<1	<1	<1	17.8	175
3-Mar-10	2200	<1	<1	<1	36.6	427
15-Jun-10	540	<1	<1	<1	19	134
24-Aug-10	340	<1	<1	<1	15	130

TW4-23	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
27-Jun-07	<1	<1	<1	<1	<0.1	47
15-Aug-07	<1	<1	<1	<1	<0.1	46
10-Oct-07	<1	<1	<1	<1	<0.1	43
26-Mar-08	<1	<1	<1	<1	<0.1	41
25-Jun-08	<1	<1	<1	<1	<0.05	41
10-Sep-08	<1	<1	<1	<1	<0.05	35
15-Oct-08	<2	<2	<2	<2	<0.05	51
4-Mar-09	<1	<1	<1	<1	<0.1	41
24-Jun-09	<1	<1	<1	<1	<0.1	43
15-Sep-09	<1	<1	<1	<1	<0.1	43
16-Dec-09	<1	<1	<1	<1	<0.1	37
24-Feb-10	<1	<1	<1	<1	<0.1	45
8-Jun-10	<1	<1	<1	<1	<0.1	40
10-Aug-10	<1	<1	<1	<1	<0.1	40

TW4-24	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
27-Jun-07	2.6	<1	<1	<1	26.1	770
15-Aug-07	2.2	<1	<1	<1	29	791
10-Oct-07	1.5	<1	<1	<1	24.7	692
26-Mar-08	1.5	<1	<1	<1	24.4	740
25-Jun-08	1.4	<1	<1	<1	45.3	834
10-Sep-08	2.9	<1	<1	<1	38.4	1180
15-Oct-08	<2	<2	<2	<2	44.6	1130
4-Mar-09	1.4	<1	<1	<1	30.5	1010
24-Jun-09	1.5	<1	<1	<1	30.4	759
15-Sep-09	1.4	<1	<1	<1	30.7	618
17-Dec-09	1.2	<1	<1	<1	28.3	1080
25-Feb-10	1.3	<1	<1	<1	33.1	896
9-Jun-10	1.7	<1	<1	<1	30	639
24-Aug-10	1.8	<1	<1	<1	31	587

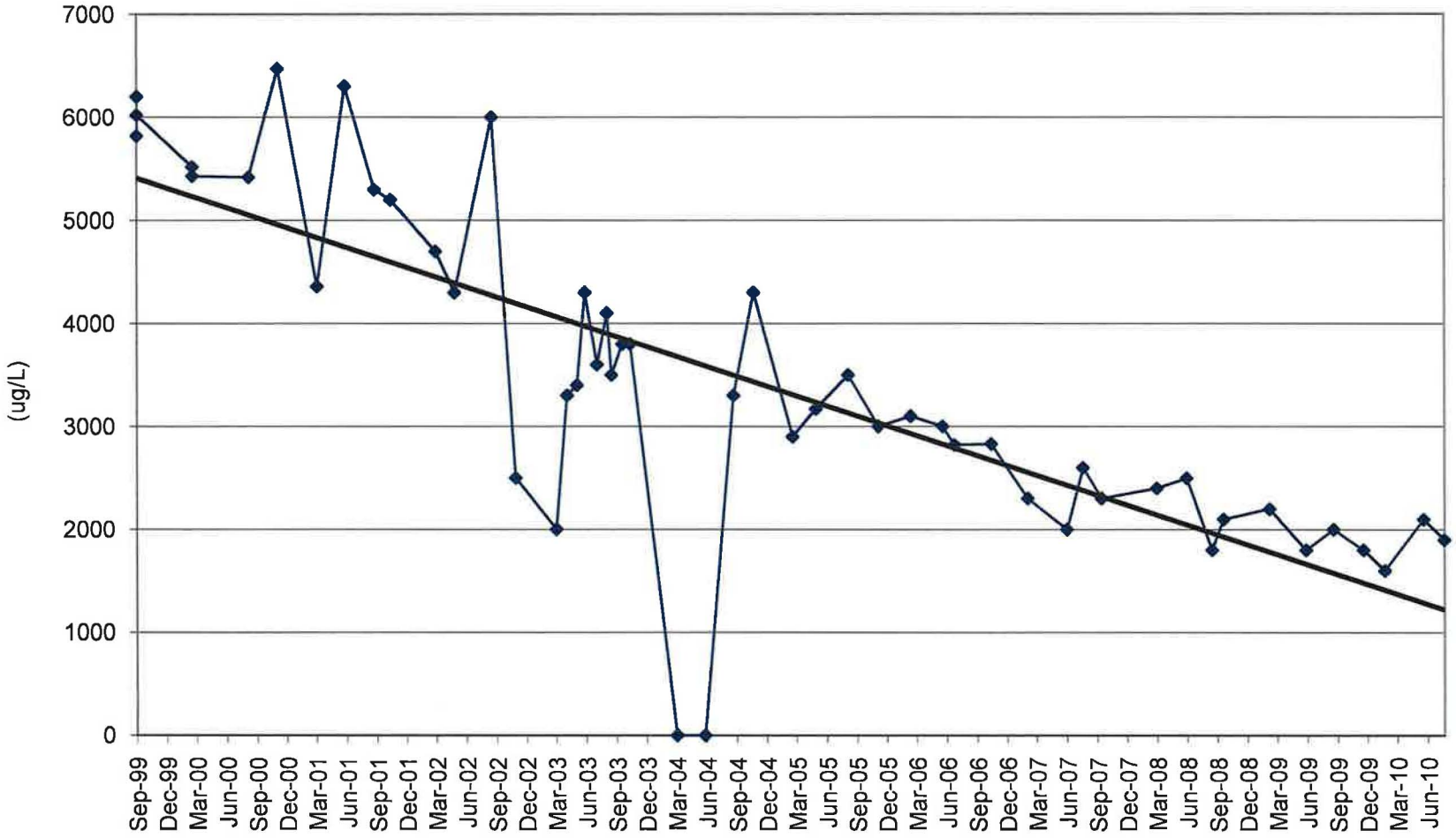
TW4-25	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
27-Jun-07	<1	<1	<1	<1	17.1	395
15-Aug-07	<1	<1	<1	<1	16.7	382
10-Oct-07	<1	<1	<1	<1	17	356
26-Mar-08	<1	<1	<1	<1	18.7	374
25-Jun-08	<1	<1	<1	<1	22.1	344
10-Sep-08	<1	<1	<1	<1	18.8	333
15-Oct-08	<2	<2	<2	<2	21.3	366
4-Mar-09	<1	<1	<1	<1	15.3	332
24-Jun-09	<1	<1	<1	<1	15.3	328
15-Sep-09	<1	<1	<1	<1	3.3	328
16-Dec-09	<1	<1	<1	<1	14.2	371
23-Feb-10	<1	<1	<1	<1	14.4	296
8-Jun-10	<1	<1	<1	<1	16	306
10-Aug-10	<1	<1	<1	<1	14	250

TW4-26	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
15-Jun-10	13	<1	<1	<1	7.9	33
11-Aug-10	5	<1	<1	<1	9	17

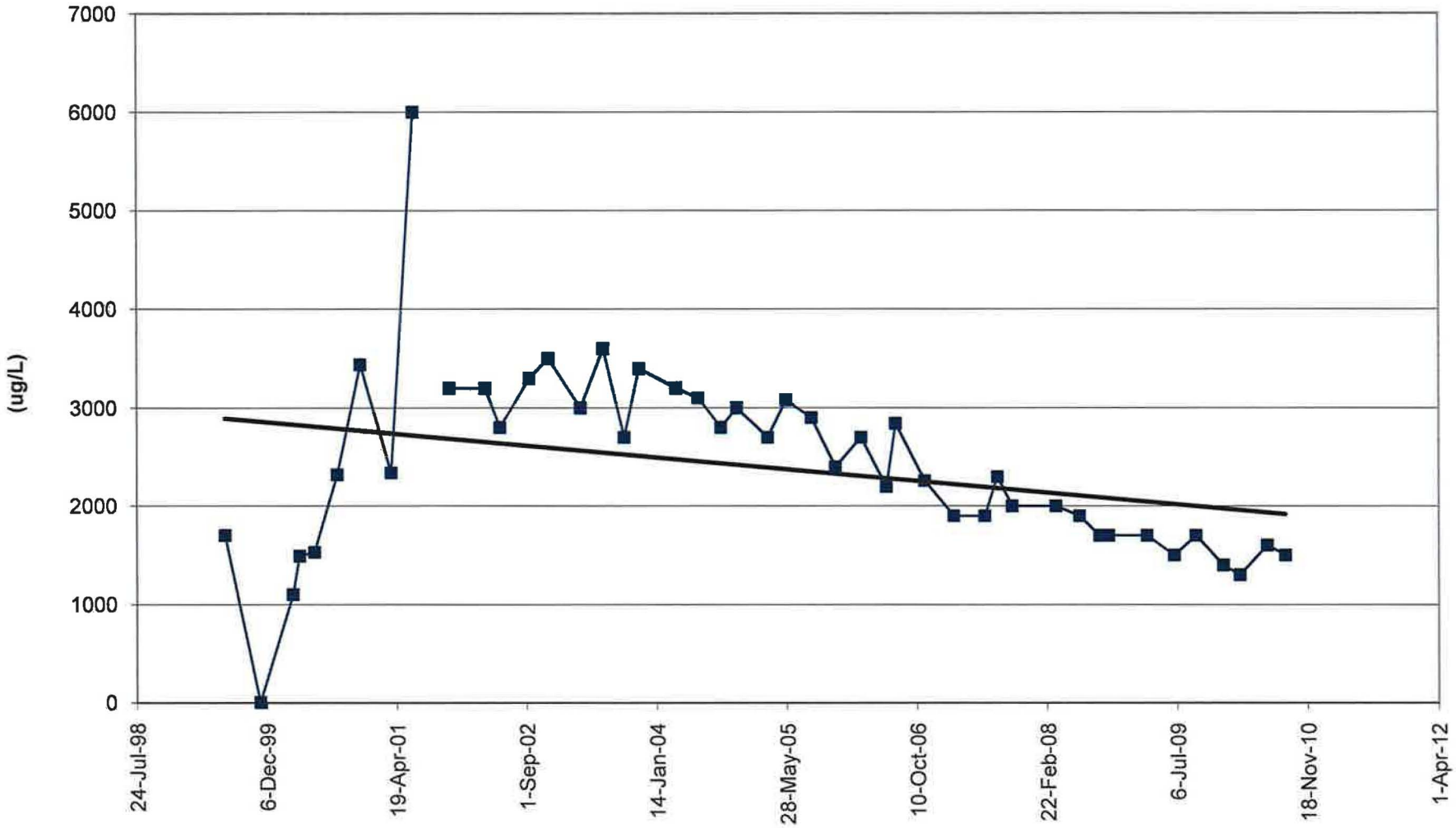
Tab L

Chloroform Concentration Trend Graphs

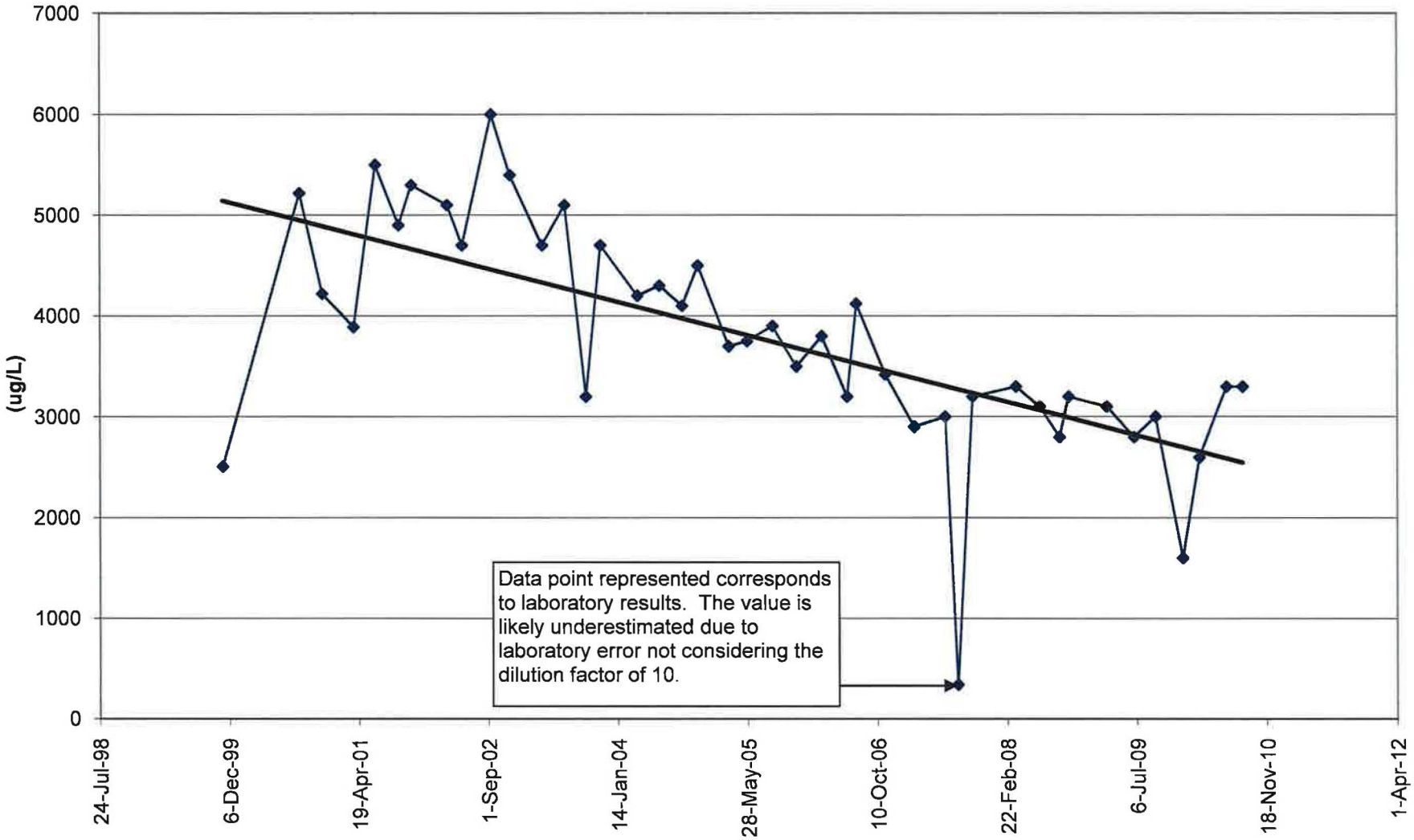
MW4-Chloroform Values



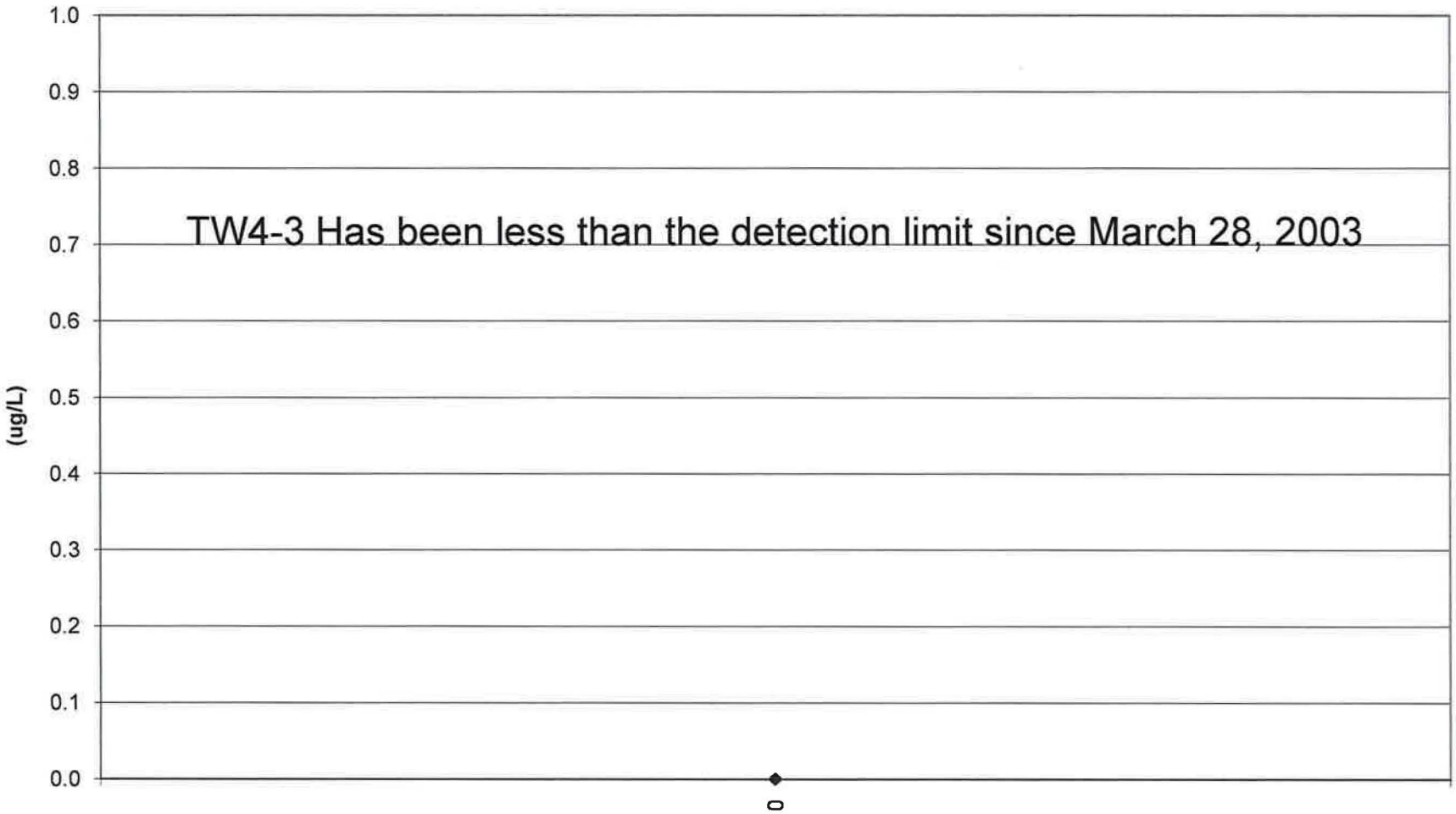
TW4-1 Chloroform Values

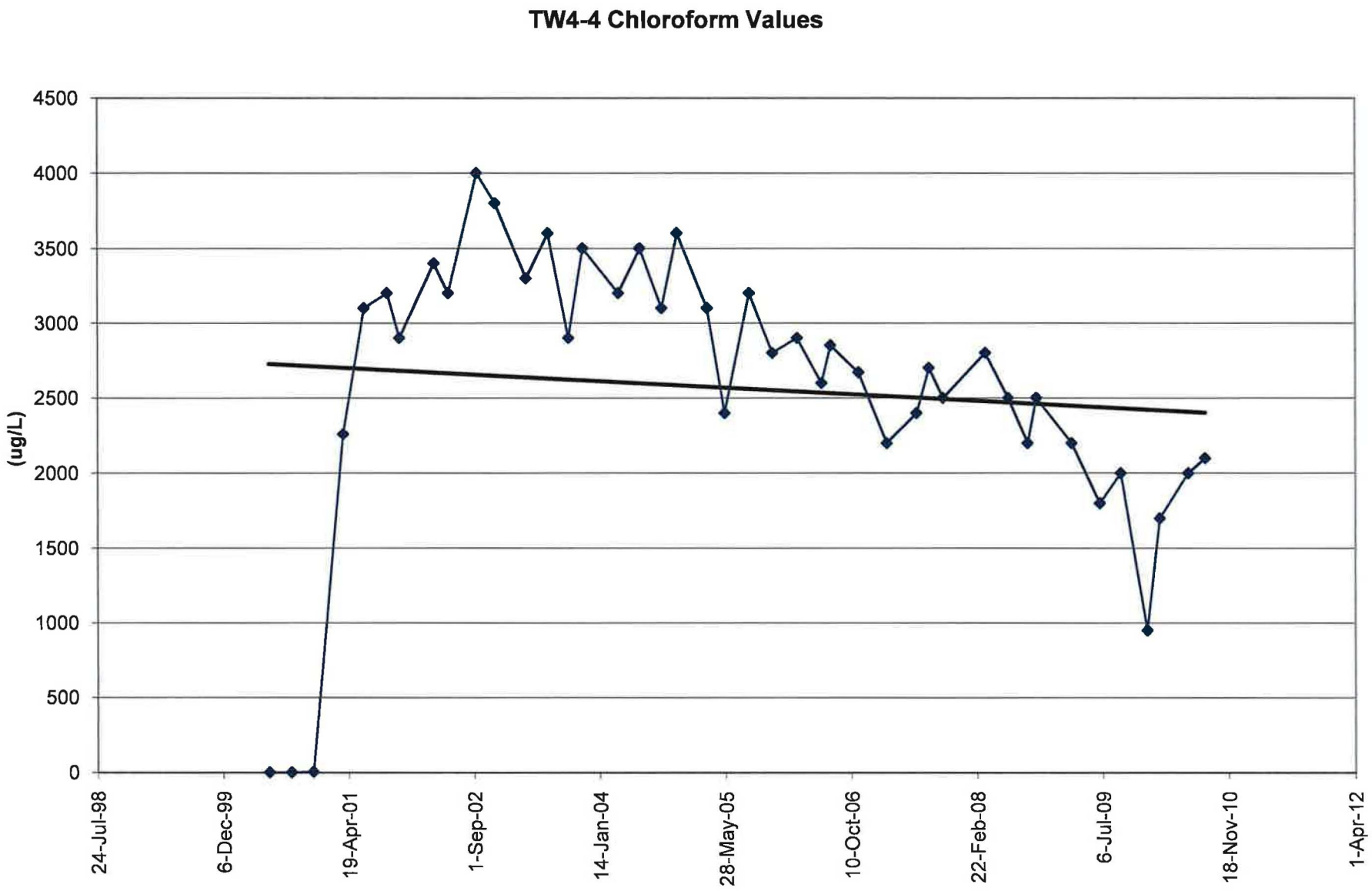


TW4-2 Chloroform Values

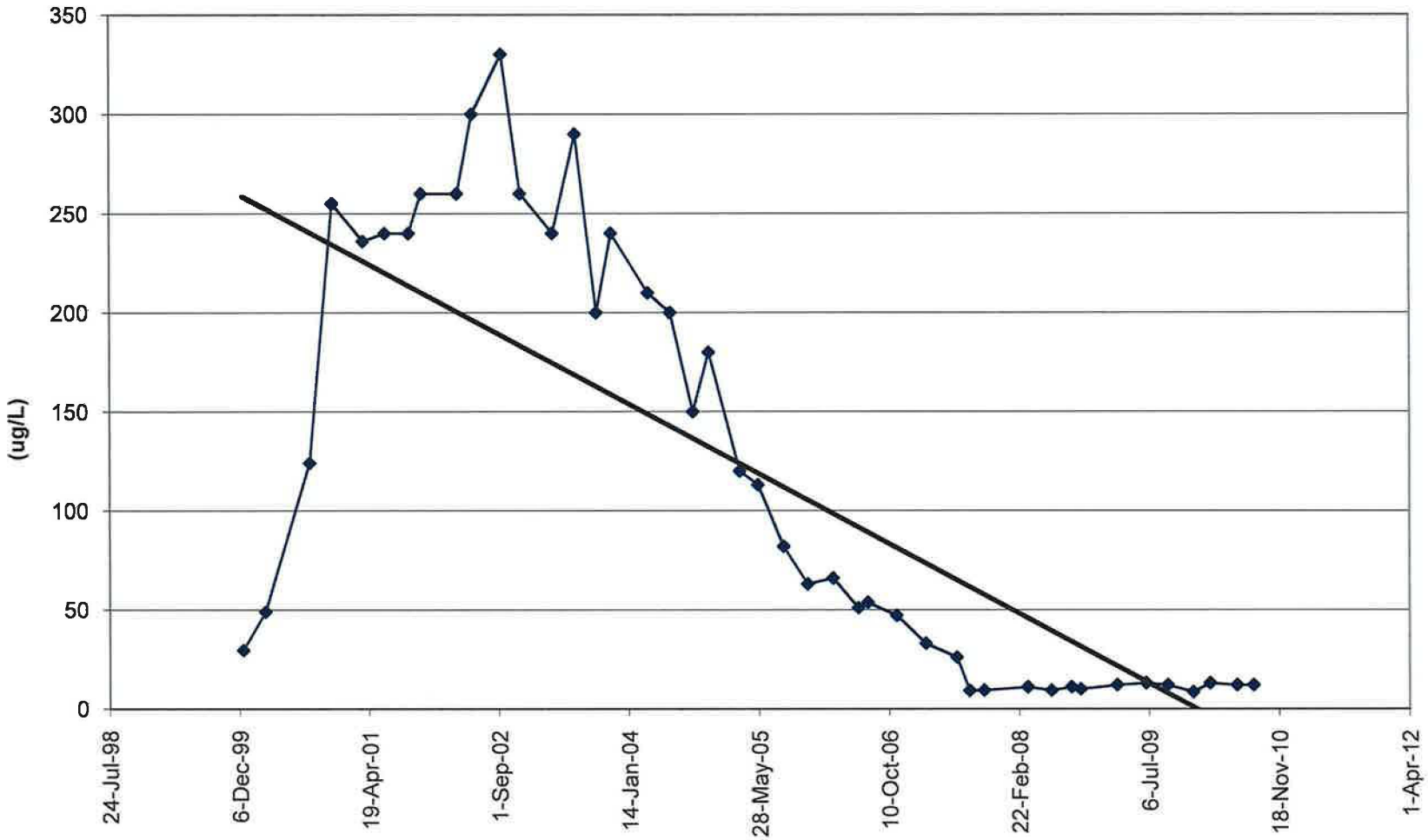


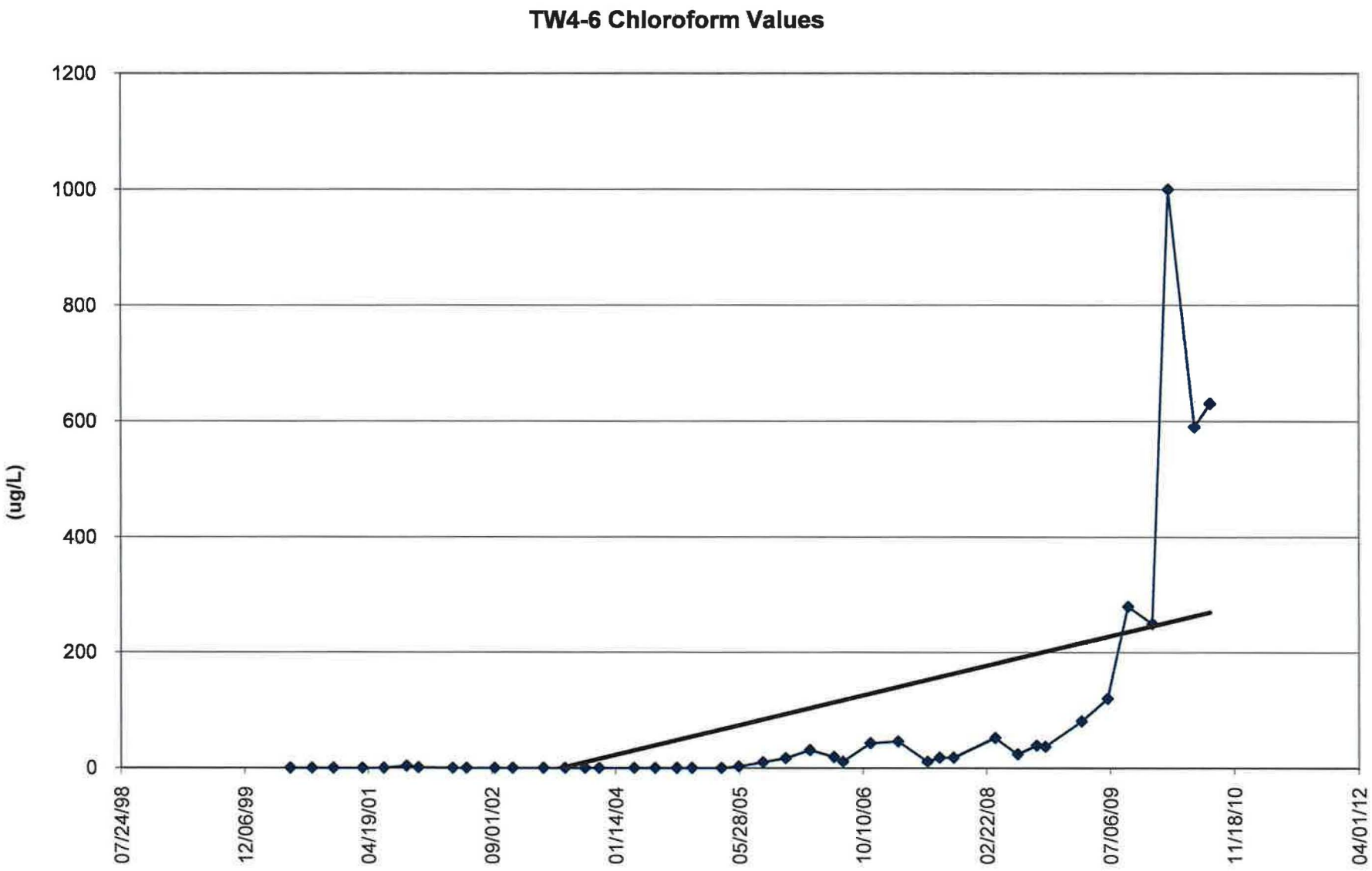
TW-4-3 Chloroform Values



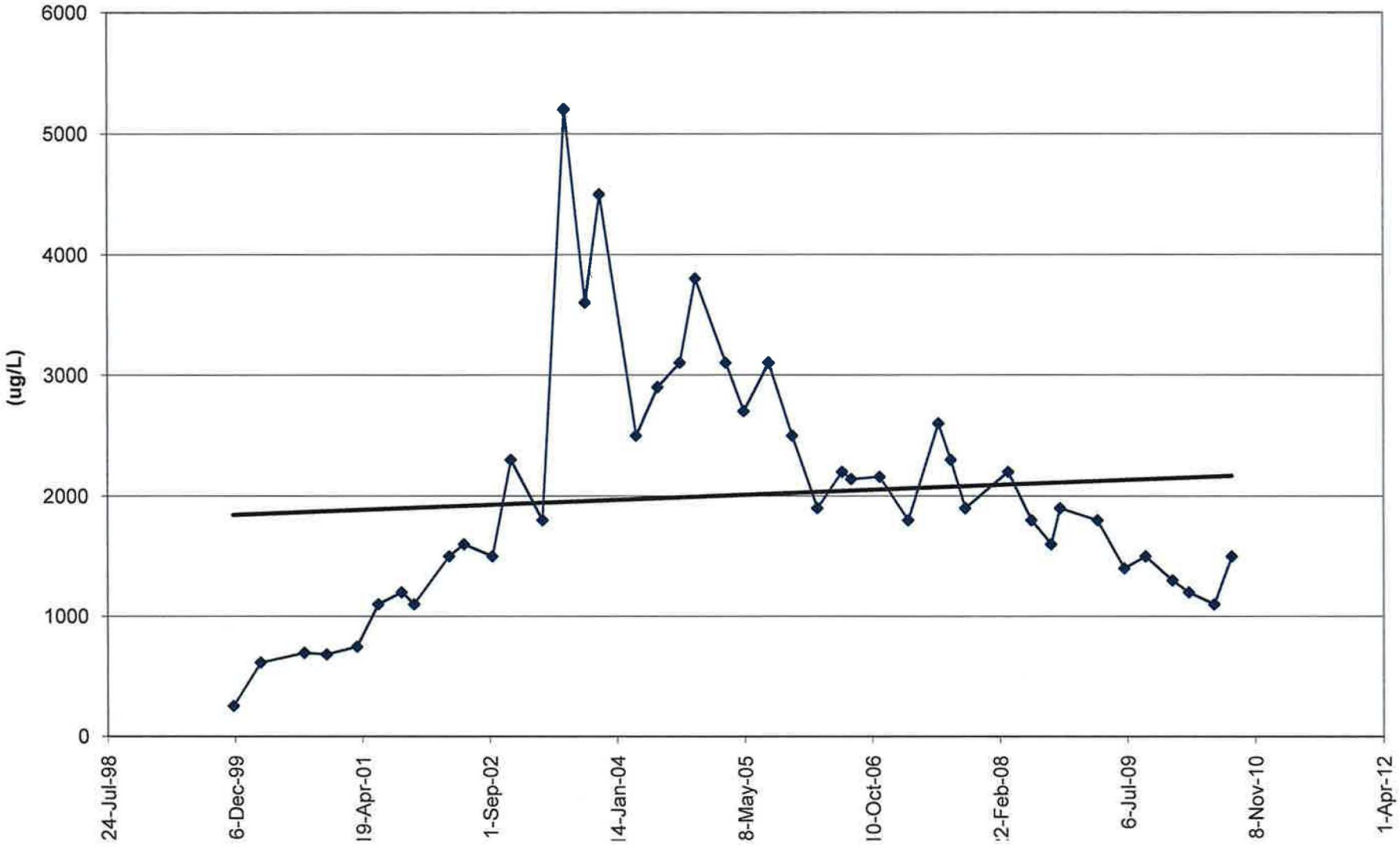

TW4-4 Chloroform Values
(ug/L)
4500
4000
3500
3000
2500
2000
1500
1000
500
0
24-Jul-98
6-Dec-99
19-Apr-01
1-Sep-02
14-Jan-04
28-May-05
10-Oct-06
22-Feb-08
6-Jul-09
18-Nov-10
1-Apr-12

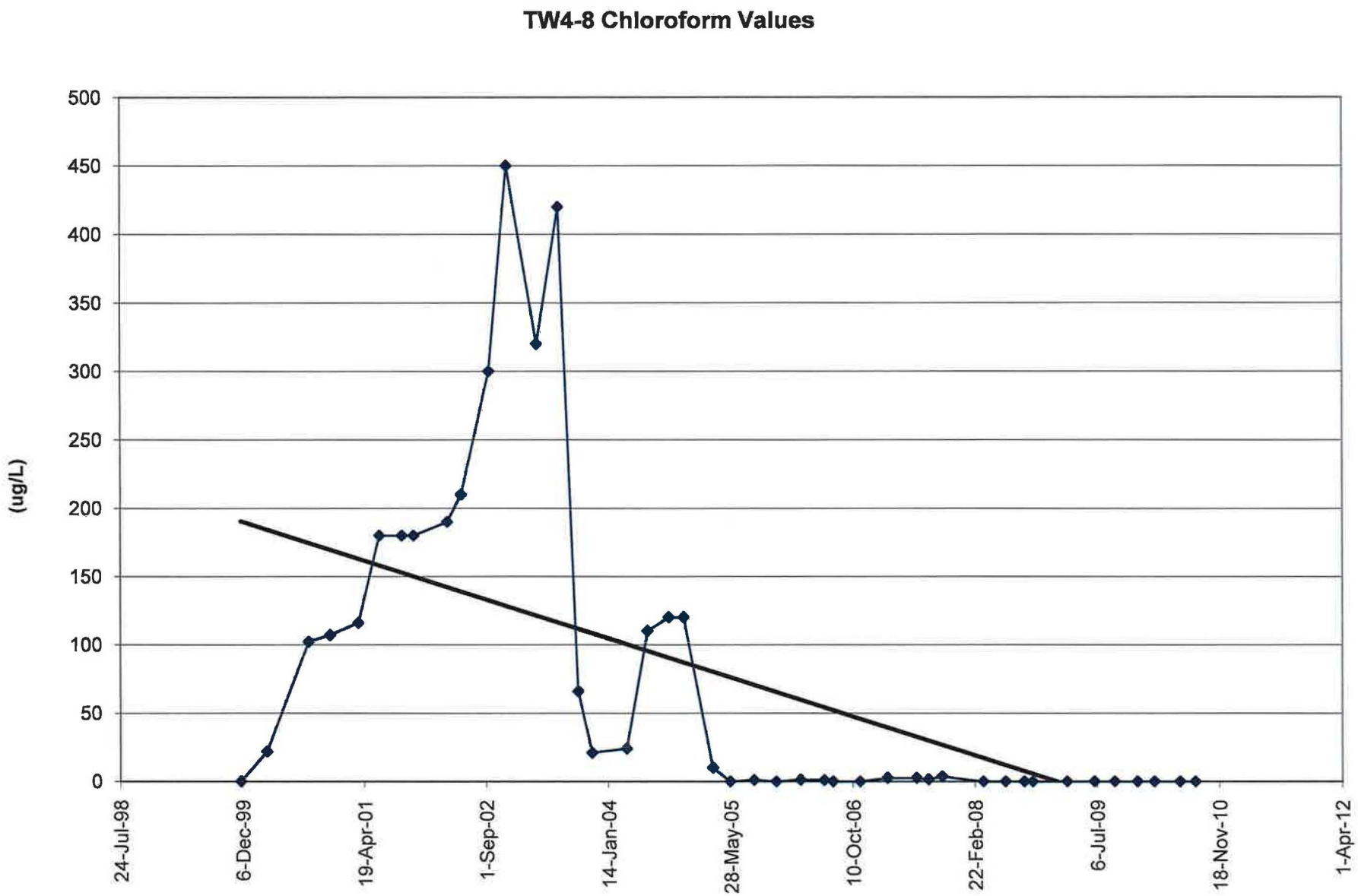
TW4-5 Chloroform Values



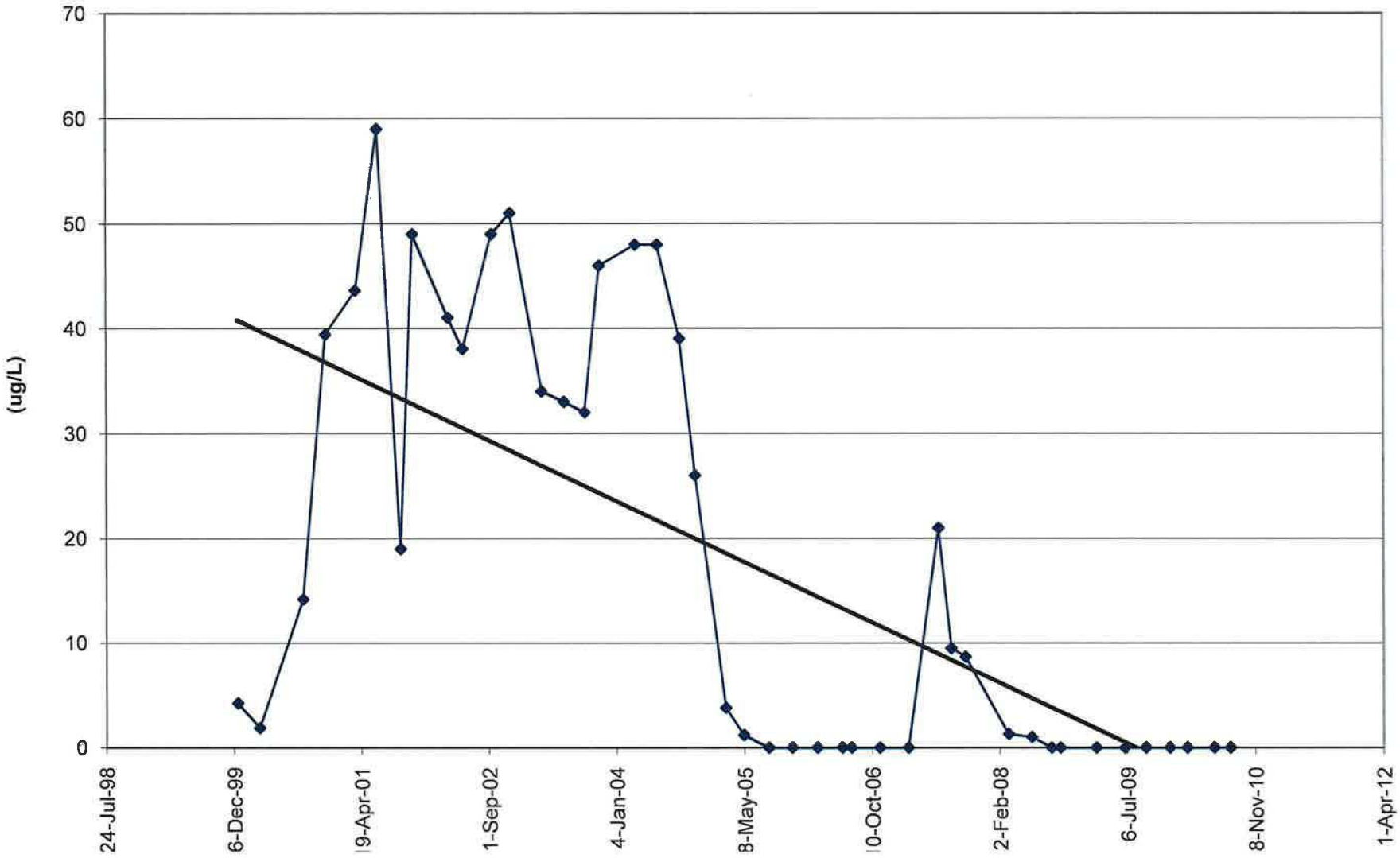

TW4-6 Chloroform Values
1200
1000
800
600
400
200
0
(µg/L)
07/24/98
12/06/99
04/19/01
09/01/02
01/14/04
05/28/05
10/10/06
02/22/08
07/06/09
11/18/10
04/01/12

TW4-7 Chloroform Values

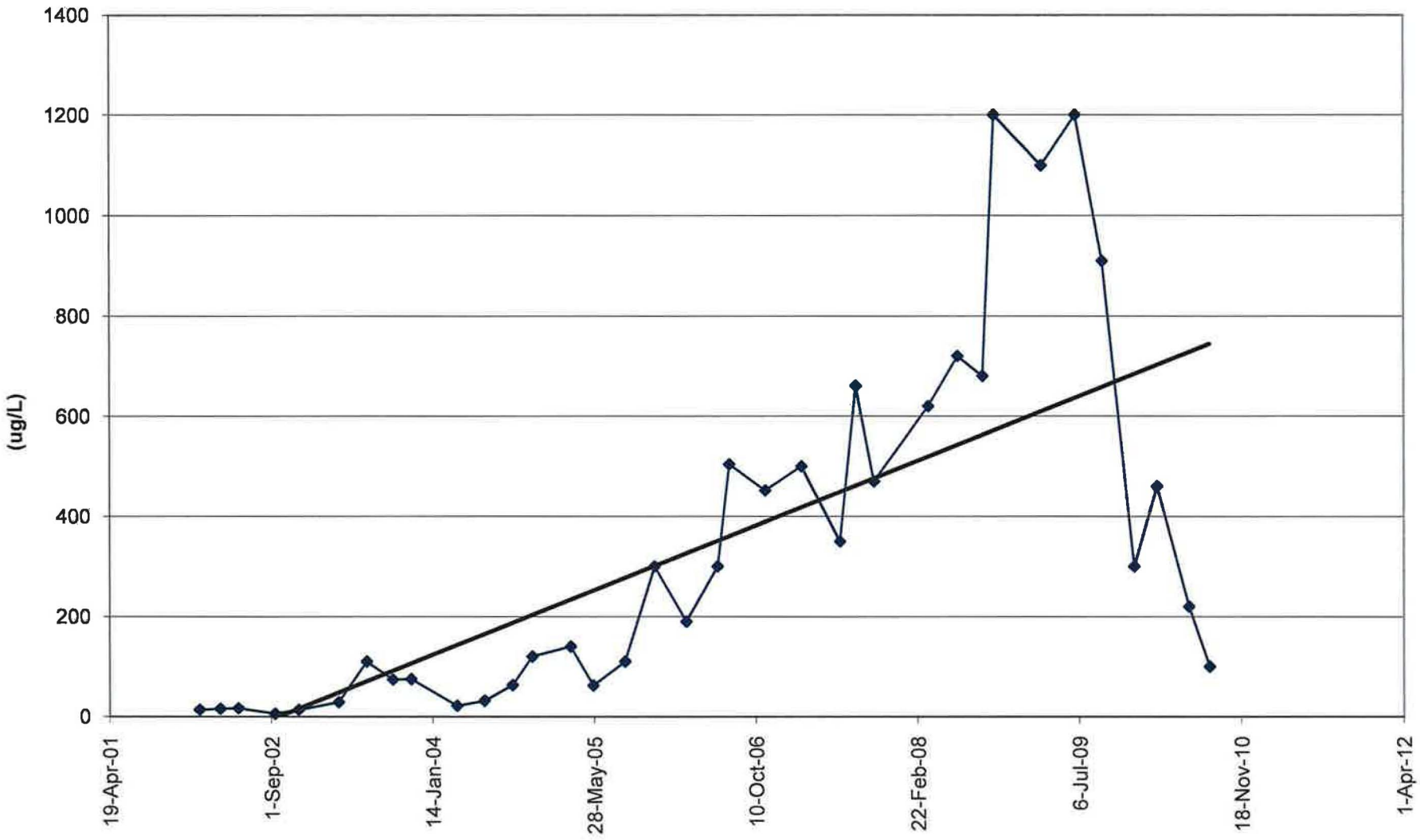



TW4-8 Chloroform Values
(ug/L)
500
450
400
350
300
250
200
150
100
50
0
24-Jul-98
6-Dec-99
19-Apr-01
1-Sep-02
14-Jan-04
28-May-05
10-Oct-06
22-Feb-08
6-Jul-09
18-Nov-10
1-Apr-12

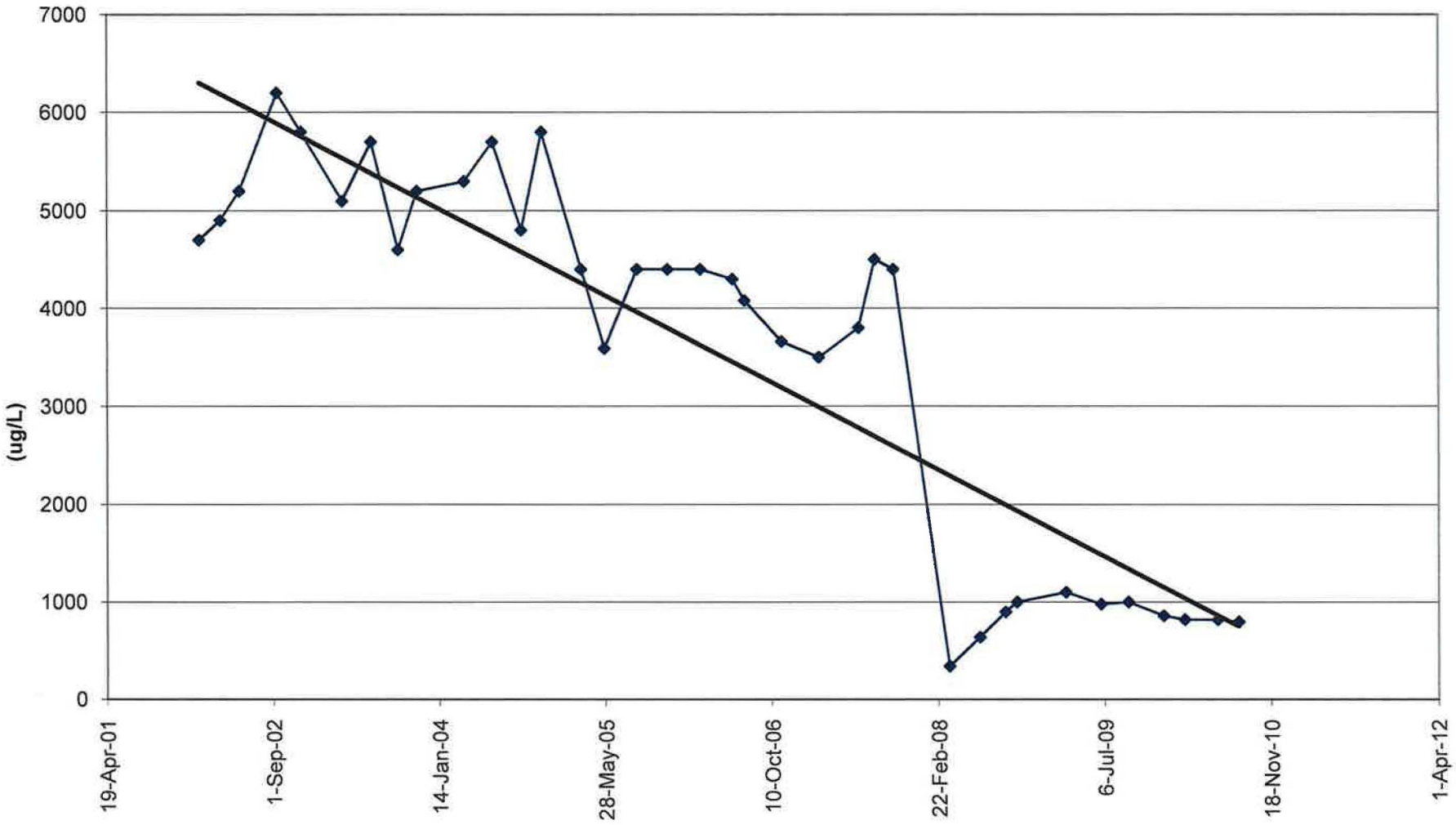
TW4-9 Chloroform Values



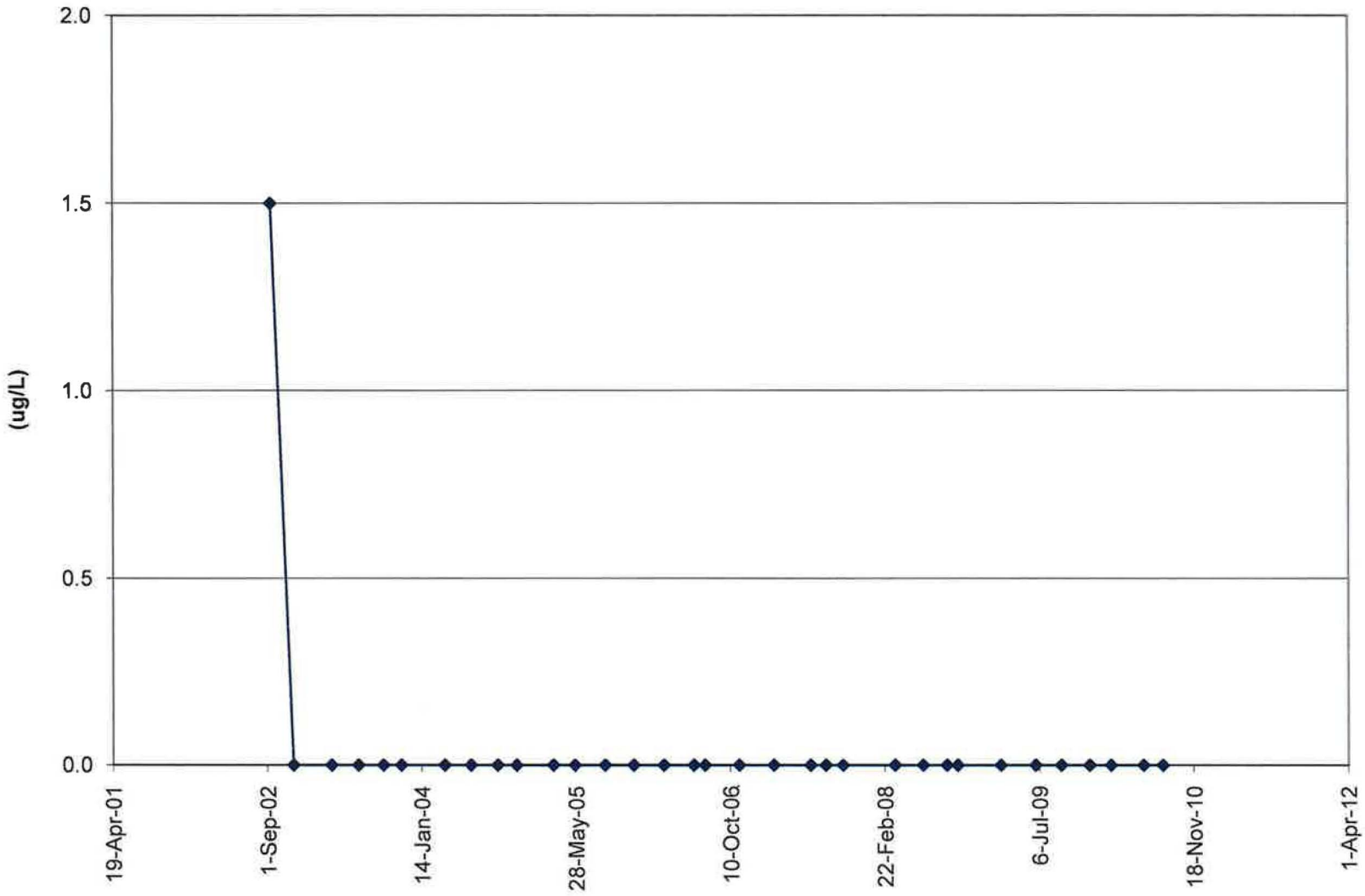
TW4-10 Chloroform Values

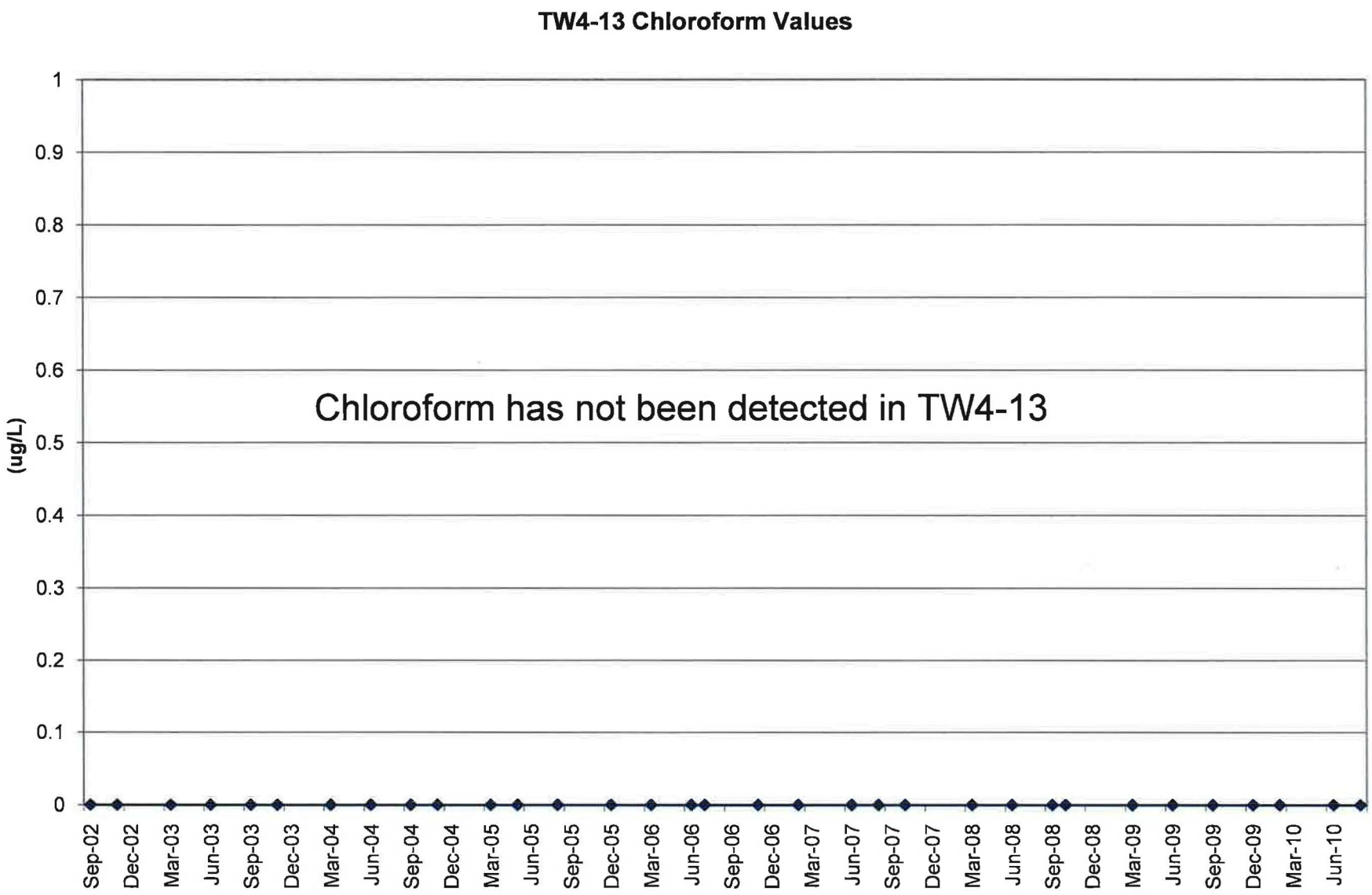


TW4-11 Chloroform Values

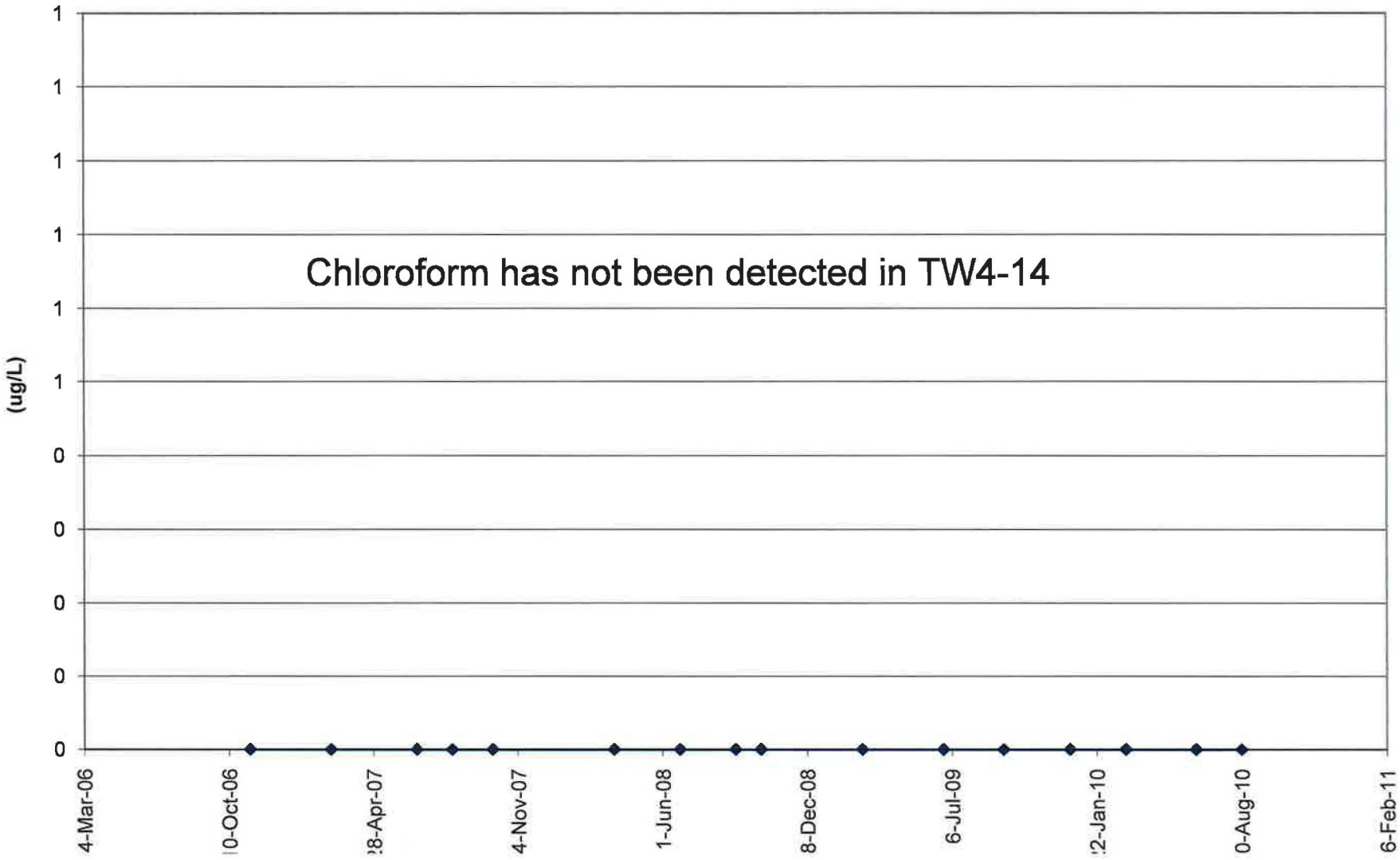


TW4-12 Chloroform Values

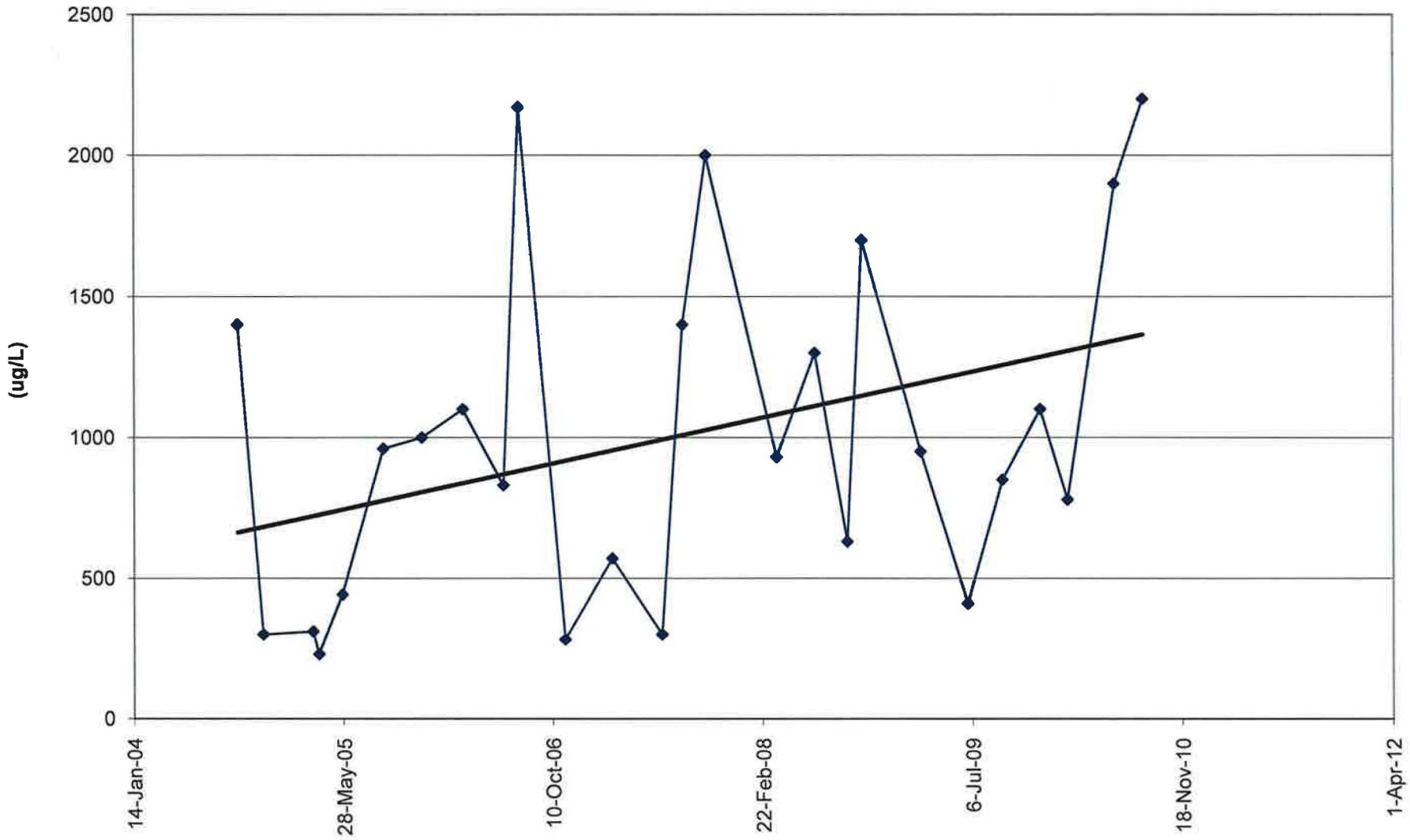



TW4-13 Chloroform Values
(ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
Chloroform has not been detected in TW4-13
Sep-02
Dec-02
Mar-03
Jun-03
Sep-03
Dec-03
Mar-04
Jun-04
Sep-04
Dec-04
Mar-05
Jun-05
Sep-05
Dec-05
Mar-06
Jun-06
Sep-06
Dec-06
Mar-07
Jun-07
Sep-07
Dec-07
Mar-08
Jun-08
Sep-08
Dec-08
Mar-09
Jun-09
Sep-09
Dec-09
Mar-10
Jun-10

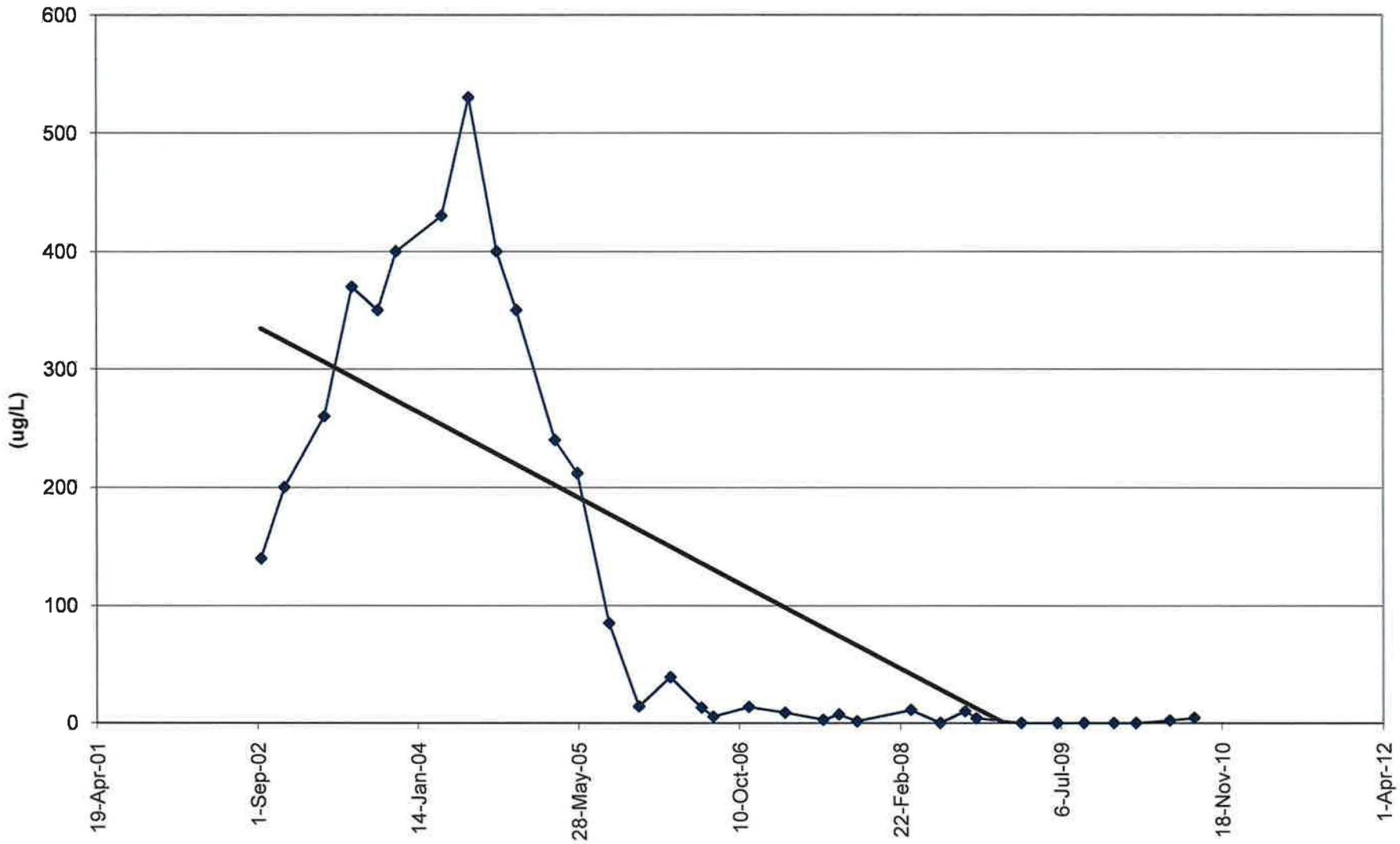
TW4-14 Chloroform Values



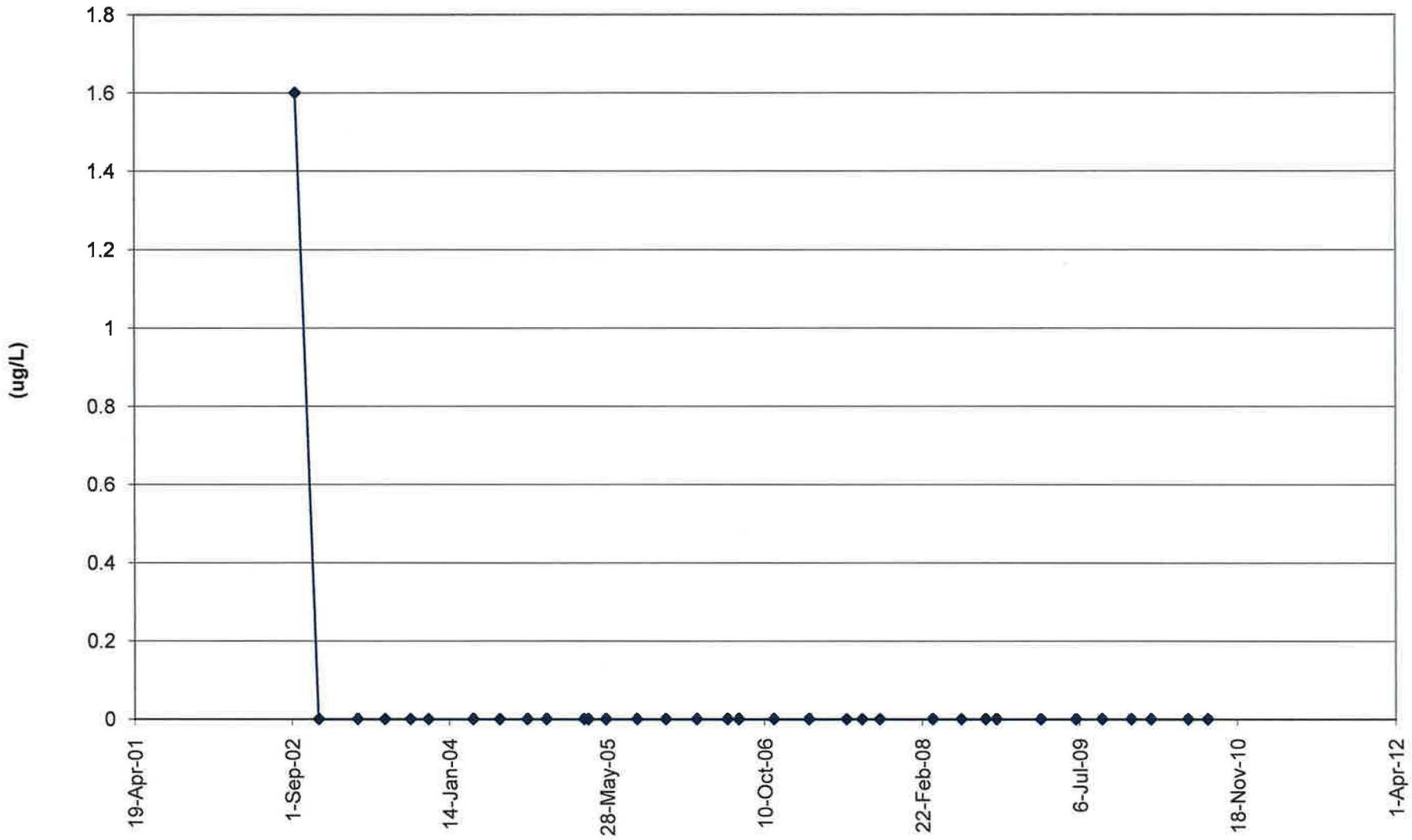
TW4-15 Chloroform Values



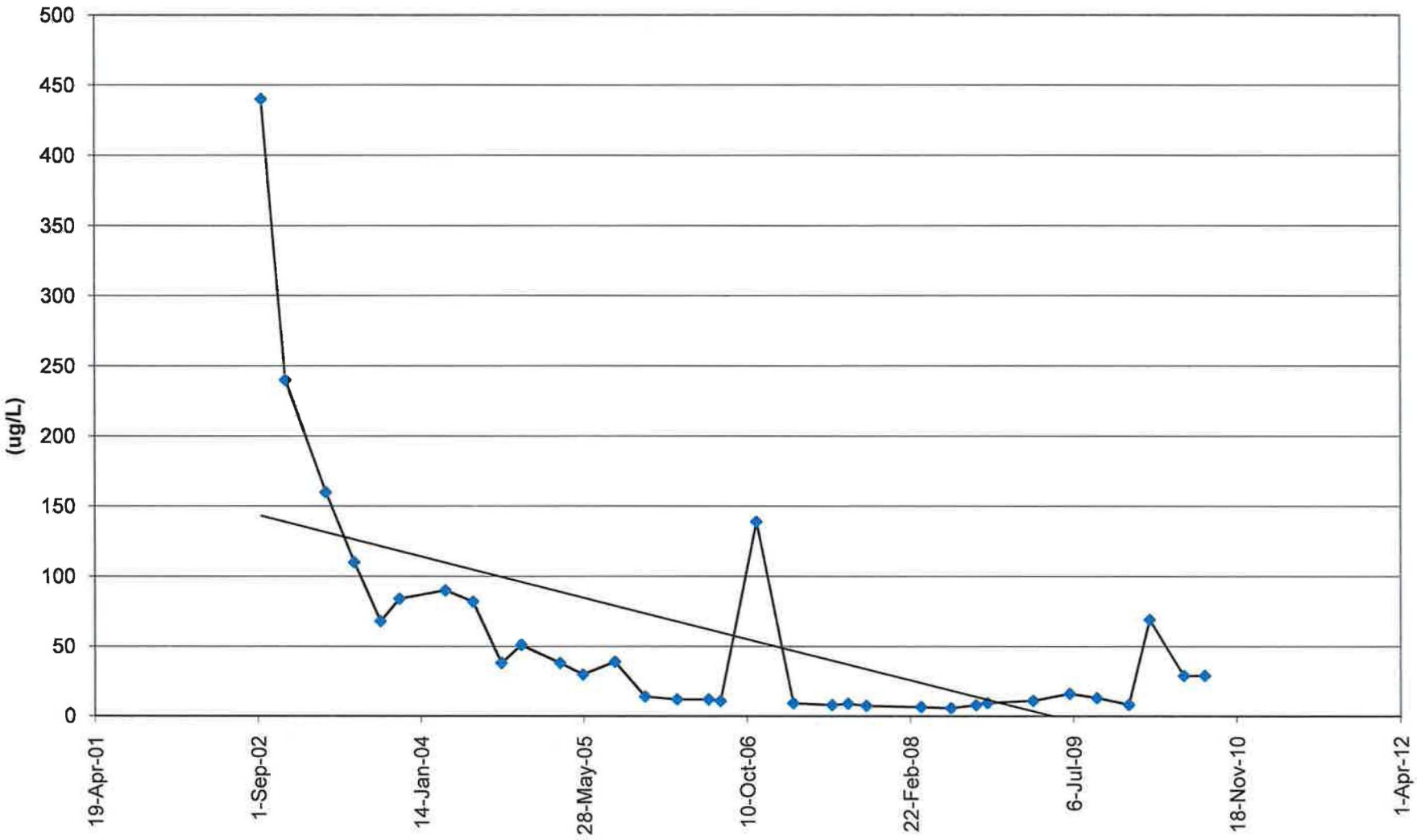
TW4-16 Chloroform Values

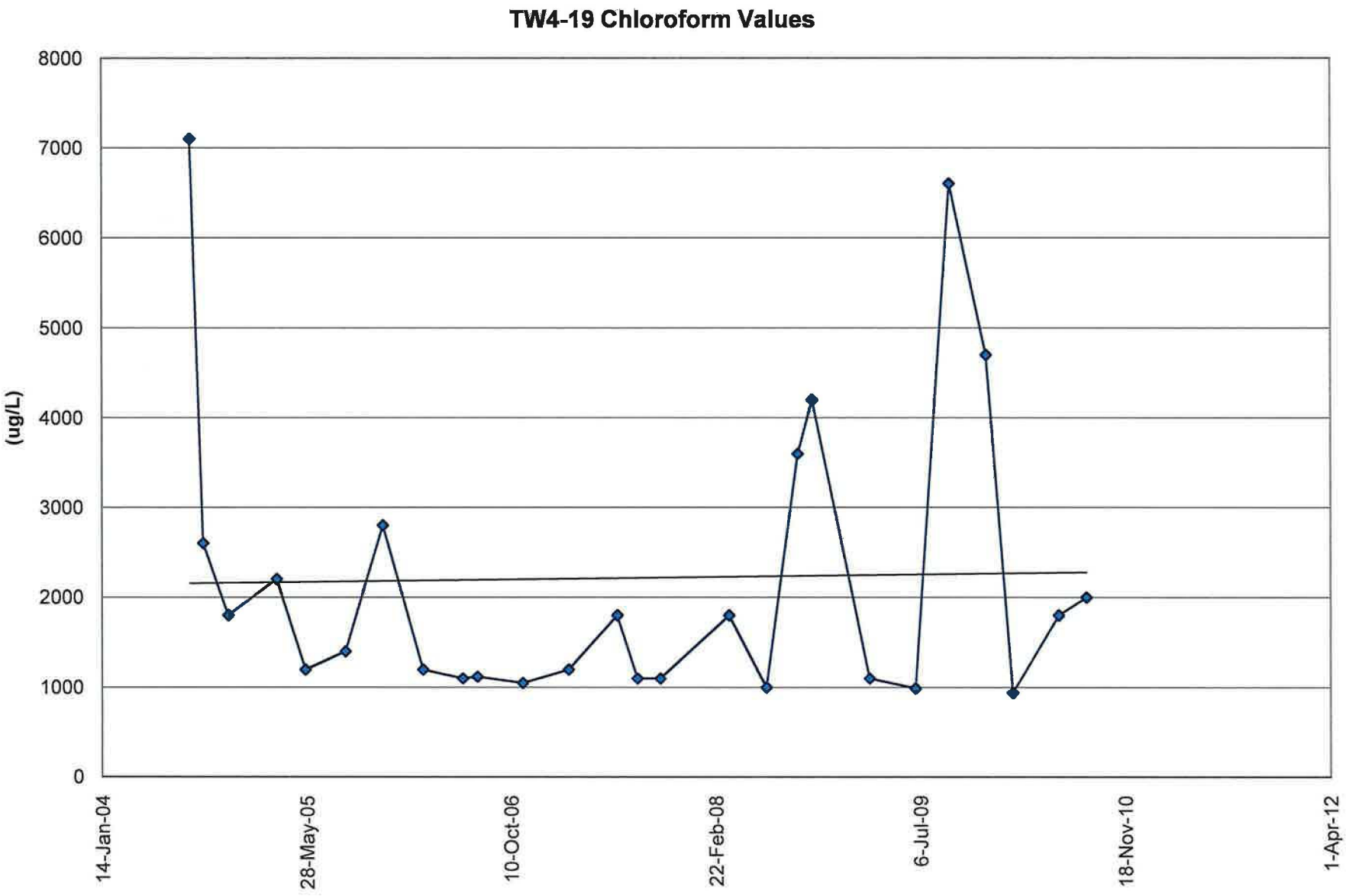


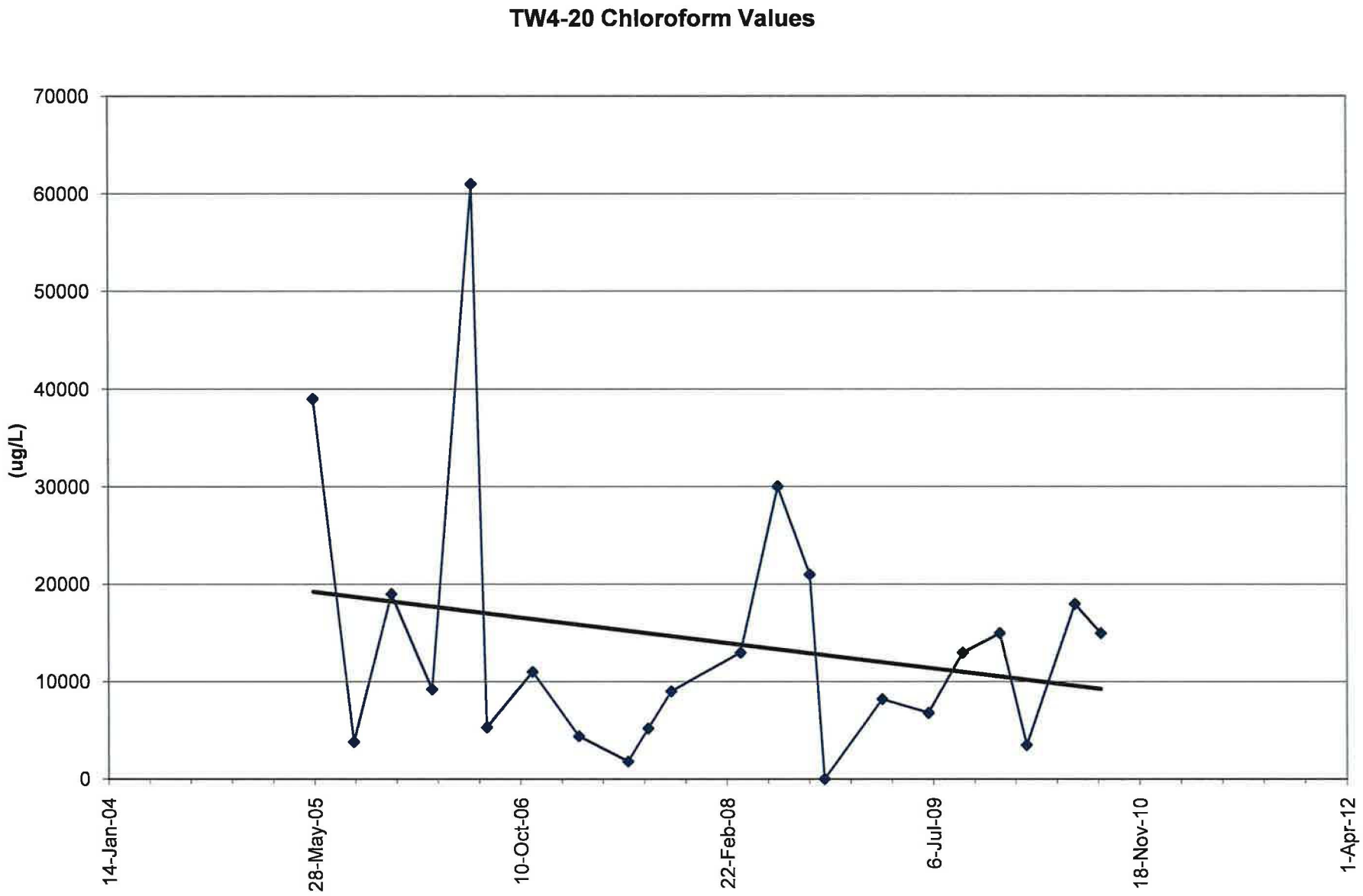
TW4-17 Chloroform Values

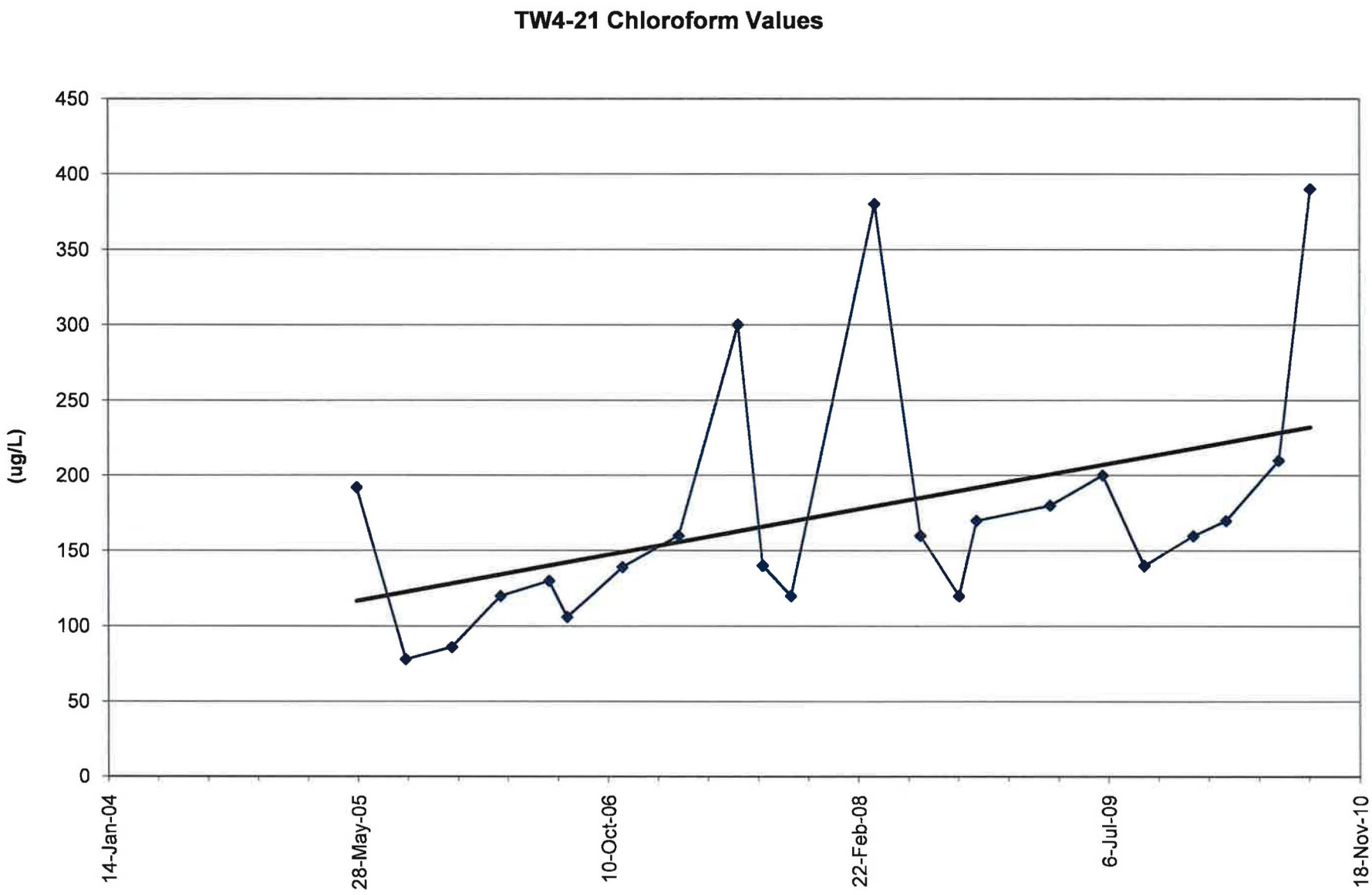


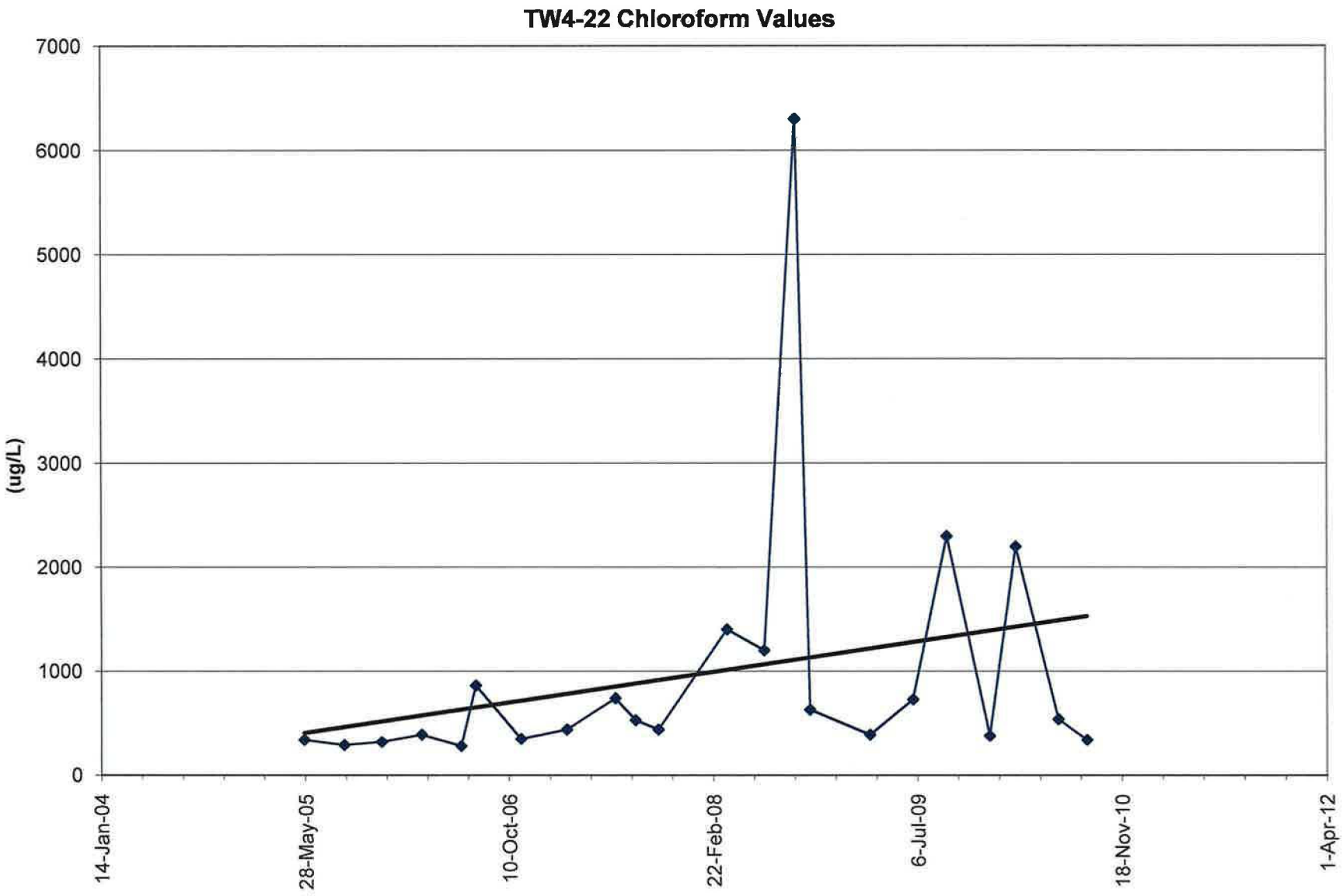
TW4-18 Chloroform Values



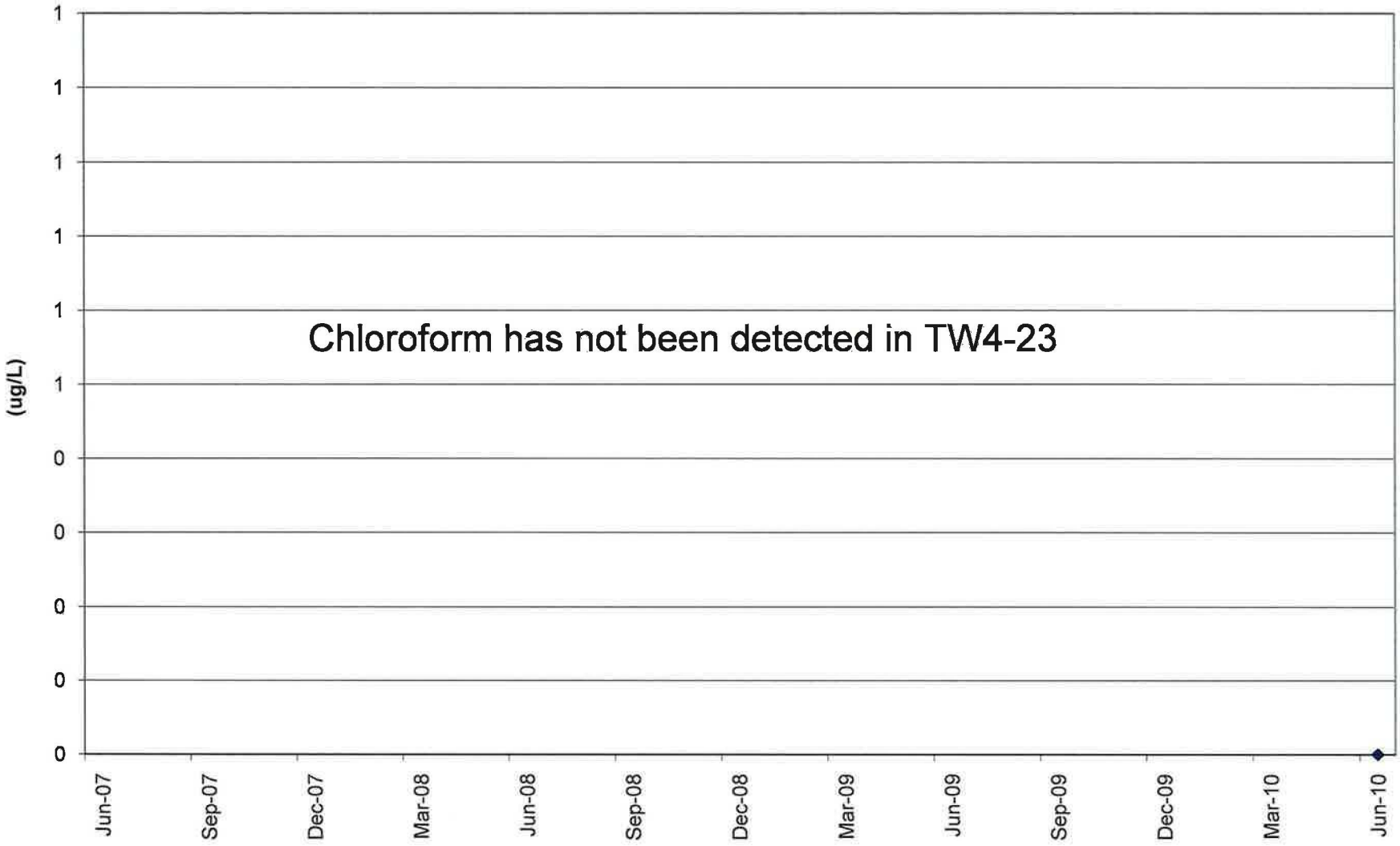

TW4-19 Chloroform Values
8000
7000
6000
5000
4000
3000
2000
1000
0
(ug/L)
14-Jan-04
28-May-05
10-Oct-06
22-Feb-08
6-Jul-09
18-Nov-10
1-Apr-12

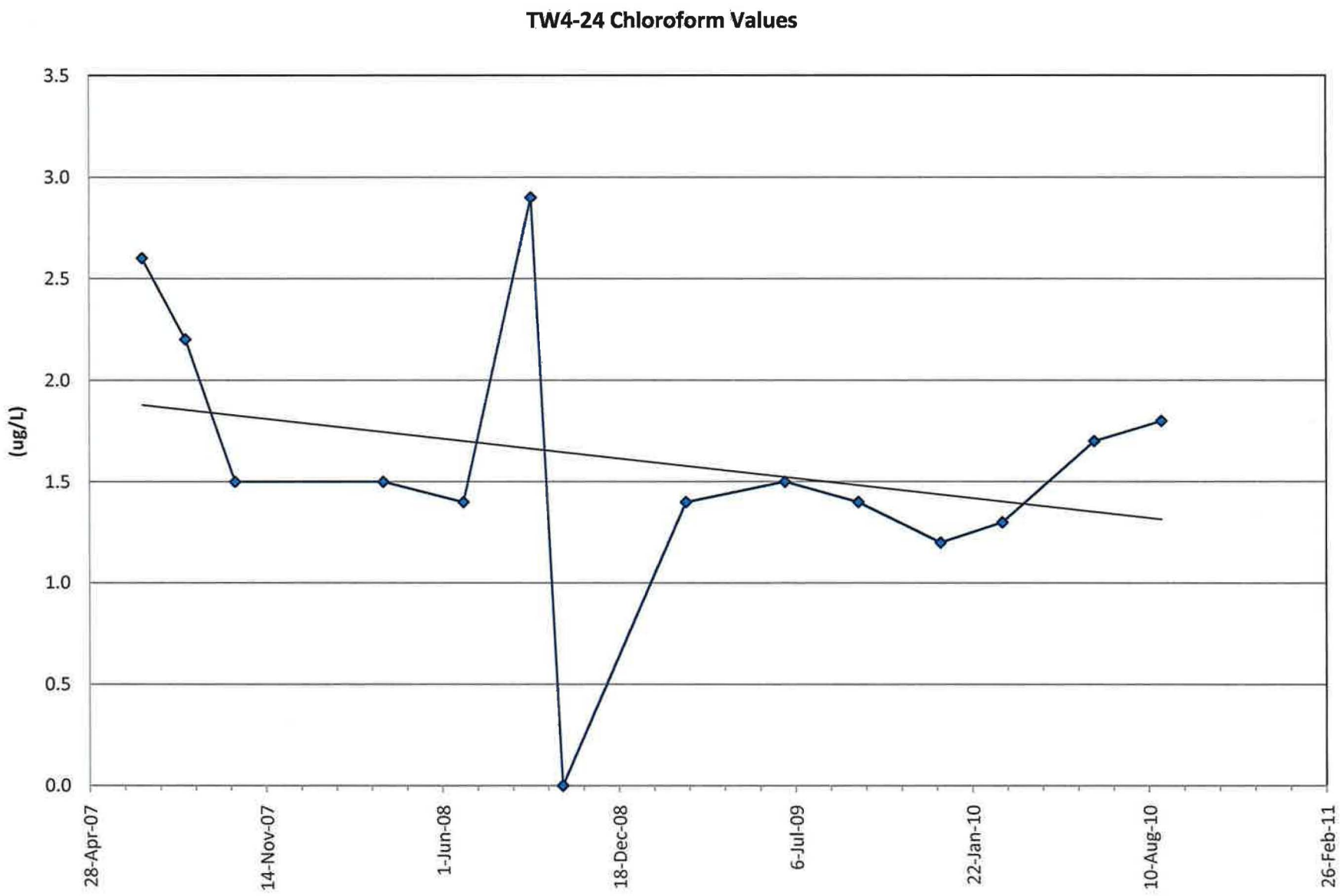

TW4-20 Chloroform Values
70000
60000
50000
40000
30000
20000
10000
0
(ug/L)
14-Jan-04
28-May-05
10-Oct-06
22-Feb-08
6-Jul-09
18-Nov-10
1-Apr-12


TW4-21 Chloroform Values
(ug/L)
450
400
350
300
250
200
150
100
50
0
14-Jan-04
28-May-05
10-Oct-06
22-Feb-08
6-Jul-09
18-Nov-10

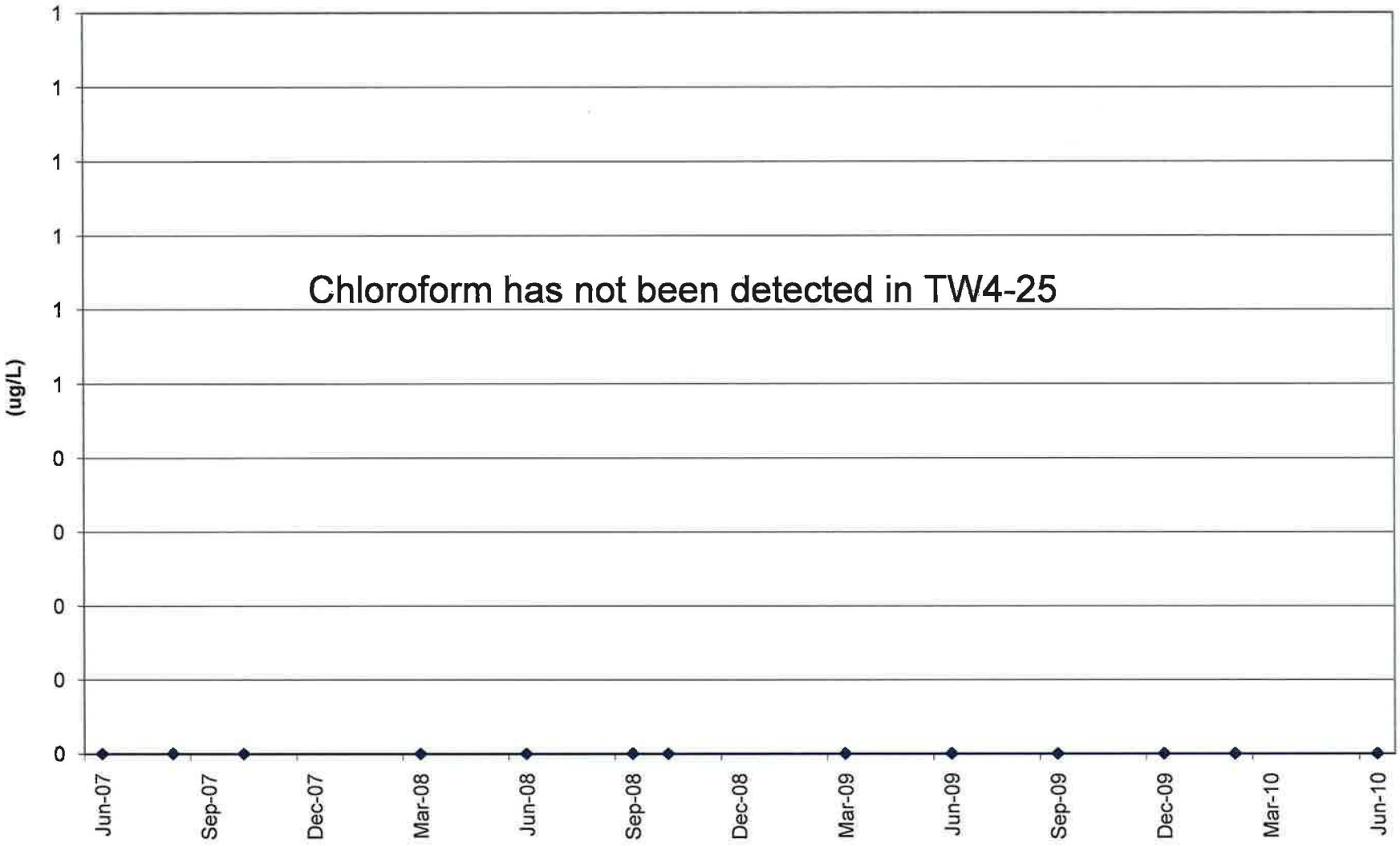

TW4-22 Chloroform Values
(ug/L)
7000
6000
5000
4000
3000
2000
1000
0
14-Jan-04
28-May-05
10-Oct-06
22-Feb-08
6-Jul-09
18-Nov-10
1-Apr-12

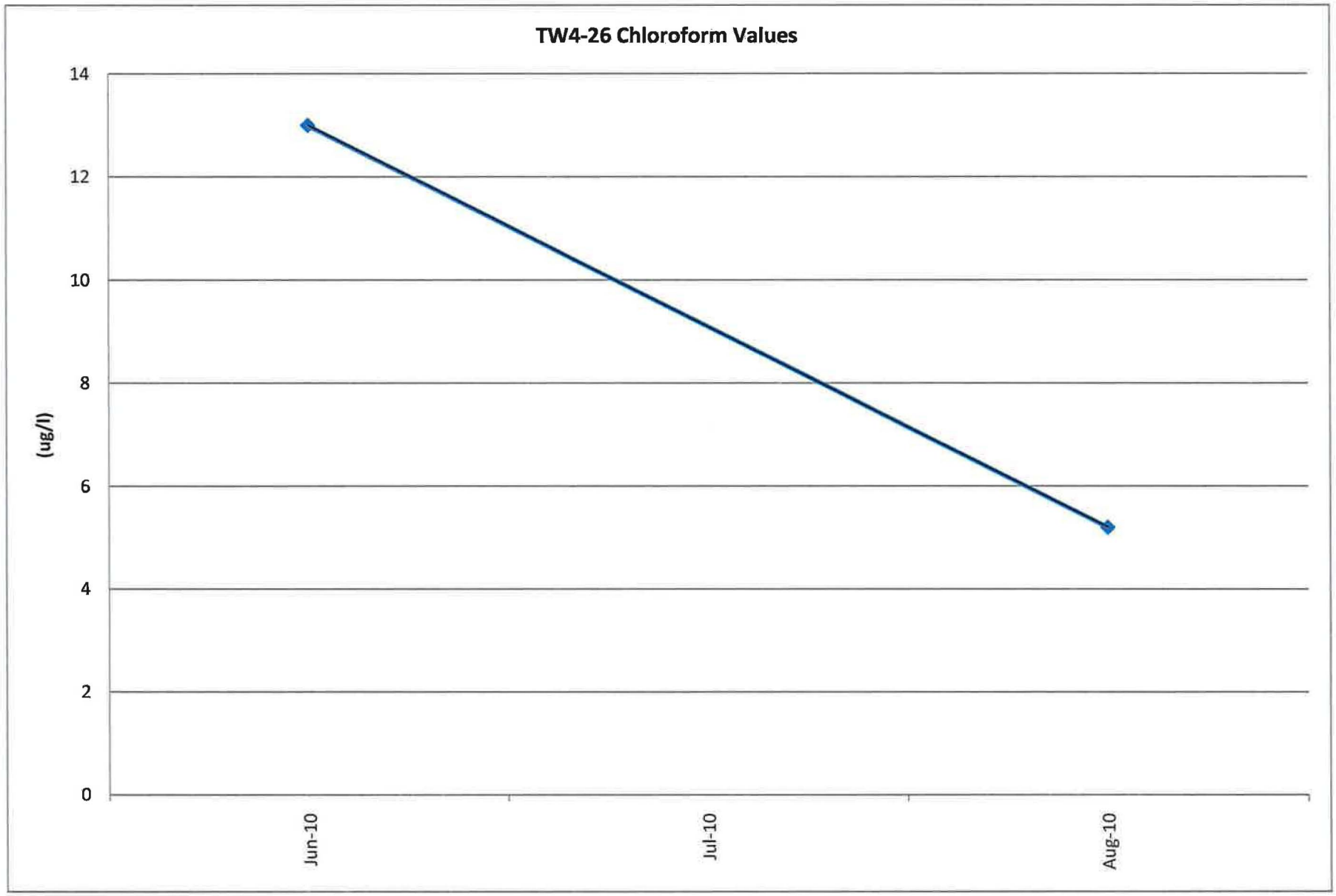
TW4-23 Chloroform Values




TW4-24 Chloroform Values
(ug/L)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
28-Apr-07
14-Nov-07
1-Jun-08
18-Dec-08
6-Jul-09
22-Jan-10
10-Aug-10
26-Feb-11

TW4-25 Chloroform Values




TW4-26 Chloroform Values
(ug/l)
14
12
10
8
6
4
2
0
Jun-10
Jul-10
Aug-10

Tab M

CSV Transmittal Letter

Kathy Weinel

From: Kathy Weinel
Sent: Wednesday, October 20, 2010 10:54 AM
To: rlundberg@utah.gov
Cc: Jo Ann Tischler; David Frydenlund
Subject: Transmittal of CSV Files White Mesa Mill 2010 Q3 Chloroform Monitoring
Attachments: C10080518 (2).csv; C10080785.csv; C10081012.csv

Dear Mr. Lundberg,

Attached to this e-mail are electronic copies of laboratory results for chloroform monitoring conducted at the White Mesa Mill during the third quarter of 2010, in Comma Separated Value (CSV) format.

Please contact me at 303-389-4134 if you have any questions on this transmittal.

Yours Truly

Kathy Weinel
Denison Mines (USA) Corp.
Quality Assurance Manager

Tab N

Disinfection Byproducts - Trihalomethanes

EPA United States Environmental Protection Agency

Basic Information about Regulated Drinking Water Contaminants

Share

Basic Information about Disinfection Byproducts in Drinking Water: Total Trihalomethanes, Haloacetic Acids, Bromate, and Chlorite

To protect drinking water from disease-causing organisms, or pathogens, water suppliers often add a disinfectant, such as chlorine, to drinking water. However, disinfection practices can be complicated because certain microbial pathogens, such as *Cryptosporidium*, are highly resistant to traditional disinfection practices. Also, disinfectants themselves can react with naturally-occurring materials in the water to form byproducts, which may pose health risks.

A major challenge for water suppliers is how to control and limit the risks from pathogens and disinfection byproducts. It is important to provide protection from pathogens while simultaneously minimizing health risks to the population from disinfection byproducts. For more information, see fact sheets on Pathogens and Indicators and Disinfectants.

- What disinfection byproducts does EPA regulate, how are they formed, and what are their health effects in drinking water at levels above the maximum contaminant level?
- What are EPA's drinking water regulations for disinfection byproducts?
- How will I know if disinfection byproducts are in my drinking water?
- How will disinfection byproducts be removed from my drinking water?
- How do I learn more about my drinking water?

What disinfection byproducts does EPA regulate, how are they formed, and what are their health effects in drinking water at levels above the maximum contaminant level?

Disinfection Byproduct (Chemical Abstract Service Registry Number)	How is it formed?	Health Effects
Total Trihalomethanes		
Bromodichloromethane (75-27-4)		
Bromoform (75-25-2)	Trihalomethanes occur when naturally-occurring organic and inorganic materials in the water react with the disinfectants, chlorine and chloramine.	Some people who drink water containing total trihalomethanes in excess of the MCL over many years could experience liver, kidney, or central nervous system problems and increased risk of cancer.
Dibromochloromethane (124-48-1)		
Chloroform (67-66-3)		
Haloacetic acids:		
Dichloroacetic acid (79-43-6)		
Trichloroacetic acid (76-03-9)		
Chloroacetic acid (79-11-8)	Haloacetic acids occur when naturally-occurring organic and inorganic materials in the water react with the disinfectants, chlorine and chloramine.	Some people who drink water containing haloacetic acids in excess of the MCL over many years may have an increased risk of getting cancer.
Bromoacetic acid(79-08-3)		
Dibromoacetic acid (631-64-1)		
Bromate (15541-45-4)	Bromate occurs when bromide in the water reacts with the disinfectant, ozone.	Some people who drink water containing bromate in excess of the MCL over many years may have an increased risk of getting cancer.
Chlorite (7758-19-2)	Chlorite occurs when chlorine dioxide breaks down.	Some infants and young children who drink water containing chlorite in excess of the MCL could experience nervous system effects. Similar effects may occur in fetuses of pregnant women who drink water containing chlorite in excess of the MCL. Some people may experience anemia.

This health effects language is not intended to catalog all possible health effects for disinfection byproducts. Rather, it is intended to inform consumers of some of the possible health effects associated with disinfection byproducts in drinking water when the rule was finalized.

What are EPA's drinking water regulations for disinfection byproducts?

In 1974, Congress passed the Safe Drinking Water Act. This law requires EPA to determine the level of contaminants in drinking water at which no adverse health effects are likely to occur. These non-enforceable health goals, based solely on possible health risks and exposure over a lifetime, with an adequate margin of safety, are called maximum contaminant level goals (MCLG). Contaminants are any physical, chemical, biological or radiological substances or matter in water. EPA sets MCLGs based on the best available science to prevent potential health problems.

Based on the MCLG, EPA sets an enforceable regulation called a maximum contaminant level (MCL). MCLs are set as close to the health goals as possible, considering cost, benefits and the ability of public water systems to detect and remove contaminants using suitable treatment technologies. MCLs for disinfection byproducts are set at the following levels:

Disinfection Byproduct	MCLG	MCL
Total Trihalomethanes		
Bromodichloromethane	Zero	
Bromoform	Zero	0.080 mg/L or 80 ppb (Sum of the concentrations of all five trihalomethanes) as an annual average
Dibromochloromethane	0.06 mg/L or 60 ppb	
Chloroform	0.07 mg/L or 70 ppb	
Haloacetic acids		
Dichloroacetic acid	Zero	
Trichloroacetic acid	0.02 mg/L or 20 ppb	
Monochloroacetic acid	0.07 mg/L or 70 ppb	0.060 mg/L or 60 ppb (Sum of the concentrations of all five haloacetic acids) as an annual average
Bromoacetic acid	Regulated with this group but has no MCLG	
Dibromoacetic acid	Regulated with this group but has no MCLG	
Bromate	Zero	0.010 milligrams per liter (mg/L) or 10 parts per billion (ppb) as an annual average
Chlorite	0.80 mg/L or 800 ppb	1.0 mg/L or 1 part per million (ppm)

MCLs are set as close to the health goals as possible, considering cost, benefits and the ability of public water systems to detect and remove contaminants using suitable treatment technologies. States may set more stringent drinking water MCLGs and MCLs for disinfection byproducts than EPA.

The following drinking water regulations apply to disinfectants and disinfection byproducts:

- Stage 1 Disinfectants and Disinfection Byproducts Rule (Stage 1 DBP) (December 16, 1998)
  The Stage 1 Disinfectants and Disinfection Byproducts Rule reduces exposure to disinfection byproducts for customers of community water systems and non-transient non-community systems, including those serving fewer than 10,000 people, that add a disinfectant to the drinking water during any part of the treatment process.
- Stage 2 Disinfectants and Disinfection Byproducts Rule (Stage 2 DBP) (December 15, 2005)
  Stage 2 DBP rule builds upon earlier rules that addressed disinfection byproducts to improve your drinking water quality and provide additional public health protection from disinfection byproducts.

The Safe Drinking Water Act requires EPA to periodically review the national primary drinking water regulation for each contaminant and revise the regulation, if appropriate, based on new scientific data. EPA will include the Disinfectants and Disinfection Byproducts rules in a future review cycle.

- More information on the Six Year Review of Drinking Water Standards

How will I know if disinfection byproducts are in my drinking water?
When routine monitoring indicates that disinfection byproduct levels are above the MCL, your water supplier must take steps to reduce the amount of disinfection byproductsso that they are below that level. Water suppliers must notify their customers as soon as practical, but no later than 30 days after the system learns of the violation. Additional actions, such as providing alternative drinking water supplies, may be required to prevent serious risks to public health.

- See EPA's public notification requirements for public water systems.

How will disinfection byproducts be removed from my drinking water?
Water systems that use surface water or ground water under the direct influence of surface water and use conventional filtration treatment are required to remove specified percentages of organic materials that may react with disinfectants to form disinfection byproducts, prior to disinfection. Other control strategies include modification of disinfection practices in a manner that still provides adequate protection against pathogens.

How do I learn more about my drinking water?
EPA strongly encourages people to learn more about their drinking water, and to support local efforts to protect the supply of safe drinking water and upgrade the community water system. Your water bill or telephone book's government listings are a good starting point for local information.

Contact your water utility. EPA requires all community water systems to prepare and deliver an annual consumer confidence report (CCR) (sometimes called a water quality report) for their customers by July 1 of each year. If your water provider is not a community water system, or if you have a private water supply, request a copy from a nearby community water system.

- The CCR summarizes information regarding sources used (i.e., rivers, lakes, reservoirs, or aquifers), detected contaminants, compliance and educational information.
- Some water suppliers have posted their annual reports on EPA's Web site.

Other EPA Web sites

- Find an answer or ask a question about drinking water contaminants on EPA's Question and Answer Web site or call EPA's Safe Drinking Water Hotline at (800) 426-4791
- EPA's Microbials and Disinfection Byproducts Web site
  - Stage 2 Disinfectant/Disinfection Byproducts Rule
  - Stage 1 Disinfectant/Disinfection Byproducts Rule

- EPA's Envirofacts ICR Web site
  - Disinfection Byproduct Information
  - Disinfection Byproducts: A Reference Resource
  - Disinfection Byproducts Health Effects
- EPA's Guidance Manual Alternative Disinfectants and Oxidants PDF
- EPA's Integrated Risk Information System
- EPA History of Drinking Water Treatment PDF
- EPA Drinking Water Treatment Fact Sheet PDF

Other Federal Departments and Agencies

- **Bromate**
  - Centers for Disease & Prevention Control's National Institute for Occupational Safety and Health International Chemical Safety Card for Sodium Bromate
- **Chlorite**
  - Agency for Toxic Substances and Disease Registry, ToxFAQs, Chlorine Dioxide and Chlorite
  - Agency for Toxic Substances and Disease Registry, Toxicological Profile, Chlorine Dioxide and Chlorite

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Last updated on Monday, June 14, 2010.

Disinfection By-Products Trihalomethanes

Trihalomethanes (THM) are a group of four chemicals that are formed along with other disinfection by products when chlorine or other disinfectants used to control microbial contaminants in drinking water react with naturally occurring organic and inorganic matter in water. The trihalomethanes are chloroform, bromodichloromethane, dibromochloromethane, and bromoform. EPA has published the Stage 1 Disinfectants and Disinfection Byproducts Rule to regulate total trihalomethanes (TTHM) at a maximum allowable annual average level of 80 parts per billion.

The four trihalomethanes (THM's) listed below:

Trichloromethane (chloroform)	$CHCl_3$
Dibromochloromethane	$CHClBr_2$
Bromodichloromethane	$CHCl_2Br$
Tribromomethane (bromoform)	$CHBr_3$

are all by-products of chlorination. They are Cancer Group B carcinogens (shown to cause cancer in laboratory animals). Trichloromethane (chloroform) is by far the most common in most water systems. Dibromochloromethane is the most serious cancer risk, (0.6 ug/l to cause a 10^{-6} cancer risk increase) followed in order by Bromoform (4 ug/l), and Chloroform (6 ug/l). Current regulations limit the concentration of these 4 chemicals added together (total trihalomethane or TTHM levels) to 100 ug/l.

Treatment

THM levels tend to increase with pH, temperature, time, and the level of "precursors" present. Precursors are organic material which reacts with chlorine to form THM's. One way to decrease THM's is to eliminate or reduce chlorination before the filters and to reduce precursors.. There are more

precursors present before filtration, so we want to reduce or eliminate the time chlorine is in contact with this water. If some oxidation before filtration is required, an alternative disinfectant like potassium permanganate or peroxide could be considered. Note that this may not be an option if prechlorination is necessary to achieve required CT values.

The EPA has indicated that the best available technology for THM control at treatment plants is removal of precursors through "enhanced coagulation". Enhanced coagulation refers to the process of optimizing the filtration process to maximize removal of precursors. Removal is improved by decreasing pH (to levels as low as 4 or 5), increasing the feed rate of coagulants, and possibly using ferric coagulants instead of alum.

For point of use systems at homes, activated carbon filters are the most effective treatment. Reverse osmosis units will also eliminate trihalomethanes.

Upcoming Regulations

The EPA is considering extensive revisions to the regulations covering disinfection by-products (DBP's). The limit for TTHM's would be lowered to 80 ug/l, and three additional categories of DBP's . This standard will replace the current standard of a maximum allowable annual average level of 100 parts per billion in December 2001 for large surface water public water systems. The standard will become effective for the first time in December 2003 for small surface water and all ground water systems

Haloacetic acids (monobromoacetic acid, dibromoacetic acid, monochloroacetic acid, dichloroacetic acid, and trichloroacetic acid) are byproducts of chlorination similar to THM's. An MCL for total haloacetic acids of 60 ug/l is expected. Excessive levels can cause nervous system and liver effects.

Chlorite is to be regulated with an MCL set at 1 mg/l. Excessive levels can cause hemolytic anemia.

Bromate, the other newly regulated DBP , is a concern only for systems using ozone. An MCL of 10 ug/l is expected. Excessive levels causes gastrointestinal, kidney, and hearing effects.

Stage 1 Disinfectants and Disinfection Byproducts Rule

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More Comprehensive Information on Trihalomethanes

University of Florida
http://www.agen.ufl.edu/~wq/thm/

Canadian Website
http://www.watermill.com.au/chlorine.htm

Water Quality Help Guides
Glossary of Water Terminology

Note: ug/l is used as an abbreviation for micrograms/liter or parts per billion.

Note: THM's are not a major concern for treating groundwater wells with low organic matter content. THM's form through the partial oxidation of organic material, therefore it is a more important concern to