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February 18, 2013

Received
FEB 2013
Division of
Radiation Control

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Sent VIA OVERNIGHT DELIVERY

Mr. Rusty Lundberg
Director
Division of Radiation Control
Utah Department of Environmental Quality
195 North 1950 West
P.O. Box 144850
Salt Lake City, UT 84114-4820

Re: Transmittal of 4th Quarter 2012 Routine Chloroform Monitoring Report
UDEQ Docket No. UGW-20-01- White Mesa Uranium Mill

Dear Mr. Lundberg:

DRC-2013-001288

Enclosed are two copies of the White Mesa Uranium Mill Chloroform Monitoring Report for the 4th Quarter of 2012 as required by the Notice of Violation and Groundwater Corrective Action Order, UDEQ Docket No. UGW-20-01 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,

Jo Ann Tischler

ENERGY FUELS RESOURCES (USA) INC.
Jo Ann Tischler
Director, Compliance

CC: David C Frydenlund
Harold R. Roberts
David E. Turk
Katherine A. Weinel
Central Files

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White Mesa Uranium Mill

Chloroform Monitoring Report

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

4th Quarter
(October through December)
2012

Prepared by:

Energy Fuels Resources (USA) Inc.
225 Union Boulevard, Suite 600
Lakewood, CO 80228

February 18, 2013

TABLE OF CONTENTS

1.0 INTRODUCTION 1
2.0 CHLOROFORM MONITORING 1
2.1 Samples and Measurements Taken During the Quarter 1
2.1.1 TW4-27 1
2.1.2 Chloroform Monitoring 2
2.1.3 Parameters Analyzed 2
2.1.4 Groundwater Head Monitoring 3
2.2 Sampling Methodology and Equipment and Decontamination Procedures 3
2.2.1 Well Purging and Depth to Groundwater 4
2.2.2 Sample Collection 5
2.3 Field Data 5
2.4 Depth to Groundwater Data and Water Table Contour Map 6
2.5 Laboratory Results 6
2.5.1 Copy of Laboratory Results 6
2.5.2 Regulatory Framework 6
3.0 QUALITY ASSURANCE AND DATA VALIDATION 6
3.1 Field QC Samples 7
3.2 Adherence to Mill Sampling SOPs 7
3.3 Analyte Completeness Review 7
3.4 Data Validation 8
3.4.1 Field Data QA/QC Evaluation 8
3.4.2 Holding Time Evaluation 9
3.4.3 Receipt Temperature Evaluation 9
3.4.4 Analytical Method Checklist 9
3.4.5 Reporting Limit Evaluation 10
3.4.6 Receipt pH Evaluation 10
3.4.7 Trip Blank Evaluation 10
3.4.8 QA/QC Evaluation for Sample Duplicates 10
3.4.9 Rinsate Sample Check 10
3.4.10 Other Laboratory QA/QC 11
4.0 INTERPRETATION OF DATA 12
4.1 Interpretation of Groundwater Levels, Gradients and Flow Directions. 12
4.1.1 Current Site Groundwater Contour Map 12
4.1.2 Comparison of Current Groundwater Contour Maps to Groundwater Contour Maps for Previous Quarter 14
4.1.3 Hydrographs 15
4.1.4 Depth to Groundwater Measured and Groundwater Elevation 15
4.1.5 Evaluation of the Effectiveness of Hydraulic Capture 15
4.2 Review of Analytical Results 16
4.2.1 Current Chloroform Isoconcentration Map 16
4.2.2 Chloroform Concentration Trend Data and Graphs 16
4.2.3 Interpretation of Analytical Data 16
5.0 LONG TERM PUMP TEST AT MW-4, MW-26, TW4-19, TW4-20, AND TW4-4 OPERATIONS REPORT 18
5.1 Introduction 18

5.2 Pump Test Data Collection 18
5.3 Water Level Measurements 18
5.4 Pumping Rates and Volumes 19
5.4.1 TW4-4 19
5.4.2 MW-4 20
5.2.3 MW-26 and TW4-20 20
5.5 Mass Removed 21
5.6 Inspections 21
5.7 Conditions That May Affect Water Levels in Piezometers 21
6.0 CORRECTIVE ACTION REPORT 21
6.1 Assessment of Previous Quarter's Corrective Actions 23
7.0 CONCLUSIONS AND RECOMMENDATIONS 24
8.0 ELECTRONIC DATA FILES AND FORMAT 25
9.0 SIGNATURE AND CERTIFICATION 26

LIST OF TABLES

Table 1 Summary of Well Sampling for the Period

Table 2 Mass of Chloroform Removed Per Well Per Quarter

Table 3 Chloroform Pumping Rates and Volumes

INDEX OF TABS

Tab A Site Plan and Perched Well Locations White Mesa Site

Tab B Order of Sampling and Field Data Worksheets

Tab C Weekly and Monthly Depth to Water Data

Tab D Kriged Current Quarter Groundwater Contour Map, Capture Zone Map, Capture Zone Details Map, and Depth to Water Data Table

Tab E Kriged Previous Quarter Groundwater Contour Map

Tab F Hydrographs of Groundwater Elevations Over Time for Chloroform Monitoring Wells

Tab G Depths to Groundwater and Elevations Over Time for Monitoring Wells

Tab H Laboratory Analytical Reports

Tab I Quality Assurance and Data Validation Tables
- I-1 Field Data QA/QC Evaluation
- I-2 Holding Time Evaluation
- I-3 Receipt Temperature Check
- I-4 Analytical Method Check
- I-5 Reporting Limit Evaluation
- I-6 Trip Blank Evaluation
- I-7 QA/QC Evaluation for Sample Duplicates
- I-8 QC Control Limits for Analyses and Blanks
- I-9 Rinsate Evaluation

Tab J Kriged Current Quarter Chloroform Isoconcentration Map

Tab K Analyte Concentration Data Over Time

Tab L Chloroform Concentration Trend Graphs

Tab M CSV Transmittal Letter

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. UGW-20-01, which required that Energy Fuels Resources (USA) Inc. ("EFRI") 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 fourth quarter of 2012 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, MW-26 (previously referred to as TW4-15), 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 are discussed in the remainder of this section.

2.1.1 TW4-27

Installation of the new perched groundwater monitoring well, TW4-27, was completed on November 8, 2011, as required by the May 26, 2011 DRC Request for Additional Information ("RFI"), and as delineated in the Final EFRI Work Plan and Schedule to Drill and Install Well TW4-27 (the "Plan"), submitted to DRC on October 3, 2011.

Per section 1.2 of the Plan, water level and chloroform concentration data will be collected from existing wells, as well as TW4-27, to determine if TW4-27 satisfies the stipulated criteria. TW4-27 will satisfy the stipulated criteria if the 70 ug/L chloroform isoconcentration line remains hydraulically upgradient of TW4-27, and groundwater contour lines show that TW4-27 is hydraulically downgradient of TW4-4 and TW4-6.

In addition to the criteria in section 1.2, section 1.3 of the Plan states that if water level data from TW4-27 indicates that the water level at TW4-14 is anomalous, TW4-14 will be abandoned, with the approval of the Director of the Division of Radiation Control. The water level at TW4-14 will be considered anomalous if the water level at TW4-27 is comparable to the water level at TW4-6.

First, second, third and fourth quarter 2012 water level and analytical data collected from TW4-27 indicate that the 70 ug/L chloroform isoconcentration line remains hydraulically upgradient of TW4-27, and that TW4-27 is hydraulically downgradient of TW4-4 and TW4-6, satisfying the criteria described above. Furthermore, because the water level at TW4-27 is similar to the water level at TW4-14, but is approximately 14 feet lower than the water level at TW4-6, the water level at TW4-14 is not considered anomalous, and the section 1.3 abandonment criteria are not met.

2.1.2 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 (formerly TW4-15)
TW4-8	TW4-19	MW-32 (formerly TW4-17)
TW4-9	TW4-20	TW4-26
		TW4-27

Table 1 provides an overview of all wells sampled during the quarter, 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 field blank ("DIFB") and any required duplicates.

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

2.1.3 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 QAP Revision 7.2, dated June 6, 2012.

2.1.4 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.
- The DR piezometers which were installed during the Southwest Hydrologic Investigation.
- 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.

In addition, weekly and monthly depth to groundwater measurements were taken in MW-4, MW-26, TW4-19, TW4-20, and TW4-4.

2.2 Sampling Methodology and Equipment and Decontamination Procedures

EFRI completed, and transmitted to UDEQ on May 25, 2006, a revised QAP for sampling under the Mill's Groundwater Discharge Permit ("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, EFRI 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, EFRI has incorporated changes in chloroform Quality Assurance ("QA") procedures in the form of the Chloroform QAP. The Chloroform QAP describes the needs of the chloroform investigation program where they differ from the Groundwater QAP. On June 20, 2009 the Chloroform QAP was modified to require that the quarterly chloroform reports include additional items specific to EFRI's ongoing pump testing and chloroform capture efforts. The Groundwater QAP as well as the Chloroform QAP were revised again on June 7, 2012. The revised Groundwater QAP and Chloroform QAP, Revision 7.2 were approved by DRC on June 7, 2012.

The sampling methodology, equipment and decontamination procedures that were used for the chloroform contaminant investigation, as summarized below, are consistent with the approved QAP Revision 7.2 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.

Samples are collected by means of disposable bailer(s) the day following the purging. The disposable bailer is used only for the collection of a sample from an individual well and disposed subsequent to the sampling. The wells are purged prior to sampling by means of a portable pump. Each quarterly purging event begins at the location least affected by chloroform (based on the previous quarter's sampling event) and proceeds by affected concentration to the most affected location. As noted in the approved QAP, Revision 7.2, purging will generally follow this order, and the sampling order may deviate slightly from the generated list. This practice does not affect the samples for these reasons: any wells sampled in slightly different order have either dedicated pumps or are sampled via a disposable bailer. This practice does not affect the quality or usability of the data as there will be no cross-contamination resulting from sampling order.

Before leaving the Mill office, the portable pump and hose are rinsed with deionized ("DI") water. Where portable (non-dedicated) sampling equipment is used, a rinsate sample will be collected at a frequency of one rinsate sample per 20 field samples. Well depth measurements are taken and the one casing volume is calculated for those wells which do not have a dedicated pump as described in Attachment 2-3 of the QAP. Purging is completed to remove stagnant water from the casing and to assure that representative samples of formation water are collected for analysis. There are three purging strategies that will be used to remove stagnant water from the casing during groundwater sampling at the Mill. The three strategies are as follows:

1. Purging three well casing volumes with a single measurement of field parameters specific conductivity, turbidity, pH, redox potential, and water temperature
2. Purging two casing volumes with stable field parameters for specific conductivity, turbidity, pH, redox potential, and water temperature (within 10% RPD)
3. Purging a well to dryness and stability (within 10%) of field parameters for pH, specific conductivity, and water temperature only after recovery

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, EFRI will follow the purging requirements outlined in Attachment 2-3 of the QAP. The dedicated pump is used to collect parameters and to collect the samples as described below. 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 measured for the well by using a calibrated 5 gallon bucket. 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.

Wells with dedicated pumps are sampled when the pump is in the pumping mode. If the pump is not pumping at the time of sampling, it is manually switched on by the Mill Personnel. The well is pumped for approximately 5 to 10 minutes prior to the collection of the field parameters. Per the approved QAP, one set of parameters is collected. Samples are collected following the measurement of one set of field parameters. The pump is turned off and allowed to resume its timed schedule.

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 H_2SO_4;

- 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, MW-26, TW4-19, TW4-20, and TW4-4, as well as the monthly depth to groundwater data for chloroform contaminant investigation wells measured during the quarter. 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. A copy of the kriged groundwater contour map generated from the previous quarter's 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 sample.

Results from analysis of samples collected for this quarter's chloroform contaminant investigation are provided under Tab H of this Report. Also included under Tab H are the results of analyses for duplicate samples, the DIFB, 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 EFRI's part. In addition to the monitoring program, EFRI has equipped five wells with pumps to recover impacted groundwater, and has initiated recovery of chloroform from the perched zone.

Sections 4 and 5, below, interpret the groundwater level and flow information, contaminant analytical results, and pump test data to assess effectiveness of EFRI'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 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 DIFB and rinsate samples.

During this quarter, 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.

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

Two rinsate blank samples were collected at a frequency of one rinsate per twenty samples per QAP Section 4.3.2 and as indicated on Table 1. 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 blank 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.

3.3 Analyte Completeness Review

All analyses required by the CAO 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 measurement of field parameters based on the requirements discussed in section 2.2.1 above. The purging technique employed determines the requirements for field parameter measurement and whether stability criteria are applied. 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 the review of the field data sheets, all wells conformed to the QAP purging and field measurement requirements. A summary of the purging techniques employed and field measurements taken is described below:

Purging Two Casing Volumes with Stable Field Parameters (within 10% RPD)
Wells TW4-01, TW4-05, TW4-08, TW4-09, TW4-11, TW4-12, TW4-16, MW-32, TW4-18, TW4-21, TW4-23, TW4-24, and TW4-25 were sampled after two casing volumes were removed. Field parameters pH, specific conductivity, turbidity, water temperature, and redox potential were measured during purging. All field parameters for this requirement were stable within 10% RPD.

Purging a Well to Dryness and Stability of a Limited List of Field Parameters
Wells TW4-2, TW4-3, TW4-6, TW4-7, TW4-10, TW4-13, TW4-14, TW4-22, TW4-26, and TW4-27 were pumped to dryness before two casing volumes were evacuated. After well recovery, one set of measurements were taken, the samples were collected, and another set of measurements were taken. Stabilization of pH, conductivity and temperature are required within 10% RPD under the QAP, Revision 7.2. It is important to note that redox potential and turbidity were measured as well during purging and sampling. Turbidity measurements were not within 10% RPD; however, these turbiduty and redox potential are not required to be measured or to be within 10% RPD per the approved QAP, Revision 7.2. Data from measurement of these parameters has been provided for information purposes only.

During review of the field data sheets, it was observed that sampling personnel

consistently recorded depth to water to the nearest 0.01 foot.

The review of the field sheets for compliance with QAP, Revision 7.2 requirements resulted in the observations noted below. The QAP requirements in Attachment 2-3 specifically state that field parameters must be stabilized to within 10% over at least 2 consecutive measurements for wells purged to 2 casing volumes or purged to dryness. The QAP Attachment 2-3 states that turbidity should be less than 5 NTU prior to sampling unless the well is characterized by water that has a higher turbidity. The QAP Attachment 2-3 does not require that turbidity measurements be less than 5 NTU prior to sampling. As such the noted observations regarding turbidity measurements greater than 5 NTU below are included for information purposes only.

Wells TW4-01, TW4-03, TW4-04, TW4-05, TW4-06, TW4-07, TW4-08, TW4-09, TW4-10, TW4-11, TW4-12, TW4-14, TW4-16, TW4-18, TW4-21, TW4-22, TW4-23, TW4-24, TW4-25, TW4-26, and TW4-27 exceeded the QAP's 5 NTU goal. The QAP does not require that turbidity measurements be less than 5 NTU prior to sampling. Of the twenty-one samples, ten samples (TW4-2, TW4-3, TW4-6, TW4-7, TW4-10, TW4-13, TW4-14, TW4-22, TW4-26, and TW4-27) were taken after the well had been pumped to dryness. In wells that are purged to dryness, turbidity is not required per the QAP, Revision 7.2. As such, the noted observations regarding turbidity measurements less than 5 NTU are included for information purposes only.

EFRI'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, EFRI has completed a monitoring well redevelopment program. The redevelopment report was submitted to DRC on September 30, 2011. DRC responded to the redevelopment report via letter on November 15, 2012. Per the DRC letter dated November 15, 2012, the field data generated this quarter are compliant with the turbidity requirements of the approved QAP.

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 times.

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 30 sets (28 samples and 2 duplicates) of sample results 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 Receipt pH Evaluation

Appendix A of the QAP states that all volatile samples are required to be preserved and arrive at the laboratory with a pH less than 2. A review of the laboratory data revealed that all volatile samples were received at the laboratory with a pH less than 2.

3.4.7 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 the reporting limit for all VOCs.

3.4.8 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 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 for the sample/duplicate pairs were within the 20% acceptance limits. All results of the RPD test are provided in Tab I.

3.4.9 Rinsate Sample Check

Rinsate blank sample checks are provided in Tab I. A comparison of the rinsate blank 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 of the two rinsate blank analytes met this criterion. Rinsate sample TW4-21R reported chloroform at 16.0 ug/L and sample TW4-21 reported a chloroform concentration of 390 ug/L. The rinsate sample TW4-21R is therefore compliant with the QAP requirements. Rinsate sample TW4-3R had a reported detection of chloroform of 2.0 ug/L while

chloroform was not detected in sample TW4-3. The rinsate sample TW4-3R is not compliant with the QAP requirements that the rinsate concentration be one order of magnitude lower than that of the actual well. The results of an investigation into the rinsate blank contamination are described below and a corrective action is described in Section 6.0.

While not required by the Chloroform QAP, DIFB samples are collected to analyze the quality of the DI water system at the Mill, which is also used to collect rinsate samples. A review of the analytical results reported for the DIFB sample indicated the sample contained chloroform at 2.0 ug/L. Further review of the data package showed that the DIFB sample as well as the rinsate sample TW4-21R were analyzed by the lab immediately after samples with the high levels of chloroform. TW4-21R was analyzed after a sample with a chloroform concentration of 708 ug/L, and TW4-60 was analyzed after a sample with a chloroform concentration of 1200 ug/L. The detections in TW4-60 and TW4-21R are carry-over resulting from the samples analyzed previously. TW4-3R was the first EFRI sample reported in the data package; however, it was not the first sample analyzed on that instrument on that day and was most likely analyzed after a sample with high concentrations of chloroform. The detection in TW4-3R is carry-over resulting from the samples analyzed previously. As analytical data from other clients is confidential, EFRI cannot request the analytical data for the sample preceding TW4-3R. The rinsate samples are analyzed at the end of the analytical run after the highest level samples. Due to continued issues with Energy Laboratories, EFRI has changed laboratories for the first Quarter 2013 sampling event.

3.4.10 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, EFRI'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 a Matrix Spike/Matrix Spike Duplicate ("MS/MSD") 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 EFRI 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. One MS/MSD recovery RPD was outside the laboratory established acceptance limits. This result does not affect the quality or usability of the data because the recovery above the acceptance limits is indicative of matrix interference. The MS/MSD recovery was above the laboratory established acceptance limits, indicating a high bias to the individual sample results. A high bias means that reported results may be higher than the actual results. The recovery does not affect the quality or usability of the data because the recovery outside of the acceptance limits is 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. One surrogate recovery was above the laboratory established acceptance limits, indicating a high bias to the individual sample results. A high bias means that reported results may be higher than the actual results. Furthermore, there are no QAP requirements for surrogate recoveries.

The information from the Laboratory QA/QC Summary Reports indicates that all LCS recoveries were within acceptable laboratory limits for all LCS compounds as indicated in Tab I.

4.0 INTERPRETATION OF DATA

4.1 Interpretation of Groundwater Levels, Gradients and Flow Directions.

4.1.1 Current Site Groundwater Contour Map

The water level contour maps indicate that perched water flow ranges from generally southwesterly beneath the Mill site and tailings cells to generally southerly along the eastern and western margins of White Mesa. Perched water mounding associated with the wildlife ponds locally changes the flow patterns. For example, northeast of the Mill site, mounding associated with wildlife ponds results in locally northerly flow near MW-19. The impact of the water level mound associated with the northern ponds, to which water is no longer delivered, is diminishing and is expected to continue to diminish as the water level mound decays due to reduced recharge. Flow directions are also locally influenced by pumping at MW-4, MW-26, TW4-4, TW4-19, and TW4-20. Significant cones of depression have formed in the vicinity of all pumping wells except TW4-4, which began pumping in the first quarter of 2010.

Although pumping at TW4-4 has depressed the water table in the vicinity of TW4-4, a well-defined cone of depression is not evident. The lack of a well-defined cone of depression likely results from 1) variable permeability conditions in the vicinity of TW4-4, and 2) persistent relatively low water levels at adjacent well TW4-14.

Changes in water levels at wells immediately south of TW4-4 resulting from TW4-4 pumping are expected to be muted because TW4-4 is located at a transition from relatively high to relatively low permeability conditions south (downgradient) of TW4-4. The permeability of the perched zone at TW4-6 and TW4-26 is approximately two orders of magnitude lower than at TW4-4. Any drawdown of water levels at wells immediately south of TW4-4 resulting from TW4-4 pumping is also difficult to determine because of a general, long-term increase in water levels in this area. Water levels at TW4-4 and TW4-6 increased by nearly 2.7 and 2.9 feet, respectively, between the fourth quarter of 2007 and the fourth quarter of 2009 (just prior to TW4-4 pumping) at rates of approximately 1.2 feet/year and 1.3 feet/year, respectively. However, the increase in water level at TW4-6 has been reduced since the start of pumping at TW4-4 (first quarter of 2010) to less than 0.5 feet/year suggesting that TW4-6 is within the hydraulic influence of TW4-4.

The lack of a well-defined cone of depression at TW4-4 is also influenced by the persistent, relatively low water level at non-pumping well TW4-14, located east of TW4-4 and TW4-6. For the current quarter, the water level at TW4-14 (approximately 5525.91 feet above mean sea level [ft amsl]) is approximately 13 feet lower than the water level at TW4-6 (approximately 5538.74 ft amsl) and nearly 18 feet lower than at TW4-4 (approximately 5543.51 ft amsl) even though TW4-4 is pumping.

Well TW4-27 (installed south of TW4-14 in the fourth quarter of 2011) has a static water level of approximately 5525 ft amsl, similar to TW4-14. TW4-27 was positioned at a location considered likely to detect any chloroform present and/or to bound the chloroform plume to the southeast and east of TW4-4 and TW4-6. As will be discussed below, groundwater data collected since installation indicates that TW4-27 does indeed bound the chloroform plume to the southeast and east of TW4-4 and TW4-6.

Prior to the installation of TW4-27, the persistently low water level at TW4-14 was considered anomalous because it appeared to be downgradient of all three wells TW4-4, TW4-6, and TW4-26, yet chloroform was not detected at TW4-14. Chloroform had apparently migrated from TW4-4 to TW4-6 and from TW4-6 to TW4-26 which suggested that TW4-26 was actually downgradient of TW4-6, and TW4-6 was actually downgradient of TW4-4, regardless of the flow direction implied by the low water level at TW4-14. The water level at TW4-26 (5538.2 feet amsl) is, however, lower than water levels at adjacent wells TW4-6 (5538.7 feet amsl), and TW4-23 (5542.6 feet amsl)

Hydraulic tests conducted in November, 2011 indicate that the permeability at TW4-27 is an order of magnitude lower than at TW4-6 and three orders of magnitude lower than at TW4-4. The similar water levels at TW4-14 and TW4-27, and the low permeability estimate at TW4-27 suggest that both wells are completed in materials having lower permeability than nearby wells. The low permeability condition likely reduces the rate of long-term water level increase at TW4-14 and TW4-27 compared to nearby wells,

yielding water levels that appear anomalously low. The low permeability condition is expected to retard the transport of chloroform to TW4-14 and TW4-27 (compared to nearby wells). As will be discussed in Section 4.2.3, fourth quarter, 2012 chloroform concentrations at TW4-26 and TW4-27 are 5.9 ug/L and non-detect, respectively and both wells are outside the chloroform plume.

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

The groundwater contour maps for the Mill site for the third quarter of 2012, as submitted with the Chloroform Monitoring Report for the third quarter of 2012, are attached under Tab E.

A comparison of the water table contour maps for the current (fourth) quarter of 2012 to the water table contour maps for the previous quarter (third quarter of 2012) indicates similar patterns of drawdown related to pumping of MW-4, MW-26, 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. As discussed in Section 4.1.1, pumping at TW4-4, which began in the first quarter of 2010, has depressed the water table near TW4-4, but a well-defined cone of depression is not yet evident, likely due to variable permeability conditions near TW4-4 and the persistently low water level at adjacent well TW4-14.

Reported increases in water levels (decreases in drawdown) of approximately 6 feet and of approximately 3 feet occurred in pumping wells MW-26 and TW4-20, respectively, and a decrease in water level (increase in drawdown) of approximately 3 feet occurred in pumping well TW4-19. Changes in water levels at other pumping wells (MW-4 and TW4-4) were less than 1 foot. Water level fluctuations at pumping wells MW-4, MW-26, TW4-4, TW4-19, and TW4-20 typically occur in part because of fluctuations in pumping conditions just prior to and at the time the measurements are taken.

The increases in water levels (decreases in drawdown) at MW-26 and TW4-20 have slightly decreased the apparent capture of these wells relative to other pumping wells and the decrease in water level (increase in drawdown) at TW4-19 has increased its apparent capture relative to other pumping wells. Overall, the combined capture of MW-4, MW-26, TW4-4, TW4-19, and TW4-20 has changed only slightly since the last quarter.

Decreases in water levels of approximately 4 feet, of approximately 3 feet, and of approximately 6 feet occurred in non-pumping wells MW-20, MW-37, and TW4-12, respectively. The reported water level at PIEZ-2, located between the northern wildlife ponds, increased by nearly 7 feet, and water level increases of approximately 3 feet and of approximately 2 feet occurred at wells TWN-2 and TWN-4. Water level changes at other non-pumping wells were less than 2 feet. The water level change at PIEZ-2 suggests increased natural recharge in the vicinity of the northern wildlife ponds since last quarter and represents a partial reversal in the general decrease in water level at PIEZ-2 since the cessation of water delivery to the northern wildlife ponds.

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, TW4-4, 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 with the other pumping wells, pumping TW4-4 helps to reduce the rate of chloroform migration in downgradient portions of the plume.

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, TW4-19, and TW4-20 which continue to remove significant quantities of chloroform from the perched zone. The water level contour maps indicate effective capture of water containing high chloroform concentrations in the vicinities of these pumping wells. Overall, the combined capture of MW-4, MW-26, TW4-19, and TW4-20 has not changed significantly since the last quarter. As discussed in Section 4.1.1, the drawdown associated with TW4-4 is likely less apparent due to variable permeability conditions near TW4-4 and the persistently low water level at adjacent well TW4-14.

Chloroform concentrations exceeding 70 µg/L have occurred in the past at some locations downgradient of pumping wells (for example, at TW4-6, located immediately south 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. The beneficial effect of pumping TW4-4 is demonstrated by the decrease in chloroform concentrations at

TW4-6 from 1,000 µg/L to 8.5 µg/L, and at TW4-26 from 13 µg/L to 5.9 µg/L since pumping began at TW4-4. Concentrations at these wells have decreased substantially even though they do not unambiguously appear to be within the hydraulic capture of TW4-4. As discussed in Section 4.1.1, however, the decrease in the long-term rate of water level rise at TW4-6 since pumping began at TW4-4 does suggest that TW4-6 is within the hydraulic influence of TW4-4. Regardless of whether TW4-6 can be demonstrated to be within hydraulic capture of TW4-4, pumping TW4-4 reduces chloroform migration to TW4-6 and TW4-26 by the mechanisms discussed above.

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 are tables 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 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: TW4-6, TW4-19, TW4-20, and TW4-26;

b) Chloroform concentrations have decreased by more than 20% in the following wells compared to last quarter: MW-26, TW4-5, TW4-18, and TW4-22;

c) Chloroform concentrations have remained within 20% in the following wells compared to last quarter: MW-4, TW4-1, TW4-2, TW4-4, TW4-7, TW4-10, TW4-11, TW4-21, and TW4-24;

d) MW-32, TW4-3, TW4-8, TW4-9, TW4-12, TW4-13, TW4-14, TW4-16, TW4-23, TW4-25 and TW4-27 remained non-detect; and

e) Chloroform concentrations at TW4-24 remained at 1.1 µg/L.

As indicated, chloroform concentrations at many of the wells with detected chloroform were within 20% of the values reported for the wells during the previous quarter, suggesting that variations are within the range typical for sampling and analytical error.

Wells MW-26, TW4-5, TW4-6, TW4-18, TW4-19, TW4-20, TW4-22 and TW4-26 had changes in concentration greater than 20%. Of the latter, MW-26, TW4-19, and TW4-20 are pumping wells. TW4-5 and TW4-22 are located adjacent to pumping well TW4-20; TW4-18 is located adjacent to pumping well TW4-19; and TW4-6 is located adjacent to pumping well TW4-4. Fluctuations in concentrations at pumping wells and wells adjacent to pumping wells likely result in part from changes in pumping. TW4-26 is located outside of the chloroform plume near the downgradient edge of the plume. Slight expansion and contraction of the chloroform plume boundaries in response to changes in upgradient pumping are expected to impact the concentrations at TW4-26.

Pumping well TW4-20 had the highest detected chloroform concentration. Since the last quarter, the chloroform concentration in TW4-20 increased from 13,000 µg/L to 19,000 µg/L, the concentration in adjacent pumping well TW4-19 increased from 950 µg/L to 1,500 µg/L, the concentration in nearby well TW4-21 decreased slightly from 410 to 390 µg/L, and the concentration in nearby well TW4-22 decreased from 940 µg/L to 330 µg/L. Wells TW4-23 and TW4-25 remained non-detect for chloroform. The concentration in well TW4-24 remained at 1.1 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. In addition, the southernmost boundary of the plume remains between TW4-4 and TW4-6 (located just north of southernmost temporary well TW4-26).

The chloroform concentration in TW4-6 increased from 6.9 µg/L to 8.5 µg/L, and remains outside the chloroform plume boundary. Concentrations at TW4-6 have, since initiation of pumping of TW4-4 in the first quarter of 2010, decreased from 1,000 µg/L to 8.5 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. TW4-6 remained outside the chloroform plume between the second quarter of 2000 and the fourth quarter of 2008. TW4-6 likely remained outside the chloroform plume during this time 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. Because TW4-6 is again outside the plume boundary, TW4-6 and TW4-23 bound the chloroform plume to the south. TW4-8, TW4-12, TW4-13, TW4-14, and TW4-27 bound the chloroform plume to the east.

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 wells TW4-26 and TW4-27 are also expected to be relatively low due to upgradient pumping and low permeability conditions.

5.0 LONG TERM PUMP TEST AT MW-4, 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, EFRI has been conducting a Long Term Pump Test on MW-4, TW4-19, 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 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. EFRI 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, MW-26, and TW4-20 and, commencing regularly on March 1, 2010, 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, 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, MW-26, TW4-19, TW4-20 and TW4-4 and the 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 the quarter are recorded in the Field Data Worksheets included under Tab D.

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.

All of the pumping wells do not pump continuously, but are on a delay device. The wells purge for a set amount of time and then shut off to allow the well to recharge. Water from the pumping wells is transferred to the Cell 1 evaporation pond through a pipeline installed specifically for that purpose. The pumping rates and volumes for each of the pumping wells are shown in Table 3. Unless specifically noted below, no operational problems observed with the well or pumping equipment during the quarter.

Due to extremely cold weather conditions during December 2012, multiple freeze related power issues were noted at the Mill. The power issues affected the pumping systems as noted below.

5.4.1 TW4-4

Several power related issues were noted during December 2012. As noted above, extremely cold temperatures caused widespread power issues across the Mill.

On December 11, 2012, a power line which services a large section of the Mill was hit by a vehicle and power was lost to TW4-4 and MW-4. The line was fixed and power was restored to TW4-4 and MW-4 within a few hours. The outage lasted less than 24 hours and did not require any notifications to DRC.

On December 24, 2012, the Mill Field Personnel noted that the pump in TW4-4 was operating properly, but the heat lamp was not operating. The Ground Fault Circuit Interupter ("GFCI") was noted by Mill Field Personnel as being faulty. The GFCI was replaced by the Mill Maintenance Staff within 24 hours, hence no notofocation to DRC was required. During the weekly check on December 31, 2012, it was noted that the heat lamp had melted the flow totalizer at the well. The pump was not affected and pumping continued uninterrupted; however, the totalizer was not recording the volume pumped. The flow totalizer was replaced within 24 hours of the discovery, and no notification to DRC was required.

The Mill's *Operations and Maintenance Plan, Chloroform Pumping System, White Mesa Mill, Blanding, Utah*, Revision 2.1 ("O&M Plan") states that:

"When a system failure occurs and is not repaired and made fully operational within 24 hours of discovery, EFRI shall call the Director to verbally report the system failure and will report to the Director in a written report within 5 days of the failure.

EFRI notified DRC Personnel via telephone on December 31, 2012, that the pumping "system" did not fail and chloroform capture was not affected. However, some volume has been pumped, and some chloroform capture has occurred, which is not counted by the totalizer in the short period it was out of service.

Per DRC instructions during the December 31, 2012 phone call, EFRI completed the following actions:

1. EFRI will estimate the typical or average flow from a period when the totalizer functioned properly, and apply that estimated rate for the short period when the totalizer was not functioning. That flow estimate will be included in calculating the total pumped flow reported in this chloroform quarterly report.
2. EFRI is documenting the meter damage and replacement in this chloroform quarterly report.

Per the telephone conversations with DRC Personnel on December 31, 2012, a 5-day written report was not required.

The estimated volume added to the quarterly total for TW4-4 was calculated as follows:

- The average pump rate recorded during the 4th quarter 2012 (as shown in Table 3) is 13.6 gallons per minute ("GPM").
- The average gallons pumped per week is calculated as the total pumped for the quarter (66,089) divided by 12 weeks (total number of weeks in the quarter that the flow meter recorded). The average gallons pumped per week is 66,089/12 = 5,507 gallons per week.
- The concentration of chloroform in TW4-4 used for calculation of pounds removed is 1400 ug/L.
- Based on the average flow rates, concentration and average gallons pumped, an additional 0.1 pounds of chloroform were removed during the week that the flow totalizer was not recording (December 24, 2012 through December 31, 2012)

5.4.2 MW-4

On December 11, 2012, a power line which services a large section of the Mill was hit and power was lost to TW4-4 and MW-4. The line was fixed and power was restored to TW4-4 and MW-4 within a few hours. However, during the power outage the heat lamp in MW-4 was not operating and the flow meter froze and broke. The power was restored and the flow meter was replaced in less than 24 hours, hence no notifications to DRC were required.

5.2.3 MW-26 and TW4-20

On Wednesday, December 19, 2012 a transformer failure had occurred which required more than 24 hours to be repaired. The failure shut down electrical power to MW-26 and TW4-20. These chloroform continuous pumping wells were off (not pumping) until an interim source of power was provided. Initial notice of this outage was given by

telephone to Mr. Dean Henderson of DRC at approximately 3:40 pm on Wednesday December 19, 2012 (within 24 hours of the discovery).

The Mill's Chloroform O&M Plan, submitted on October 25, 2010 and under review by UDEQ at the time of this incident, states that EFRI will notify UDEQ of system failures that cannot be "repaired and fully made operational within 24 hours of discovery."

During the morning of December 20, 2012, Mill management determined that a replacement for the damaged transformer would require up to 2 weeks or longer for delivery to the Mill site. On December 20, 2012, Mill management began moving gasoline driven generators to supply the area and reactivate the well pumps until the replacement transformer arrived and was installed. Installation of the generators was completed during the night shift on December 20, 2012. The well heat lamps were turned on to thaw any frozen well water.

Immediately following confirmation that no frozen areas remained in the pumping system, the well pumps were turned back on at approximately 3:00 pm on December 21, 2012.

As required by the O&M Plan, 24-hour verbal notification and a 5-day written notification were provided to DRC. The 5-day written notification is included in Tab N.

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, which shows the pounds of chloroform that have been removed to date.

5.6 Inspections

EFRI has submitted an O&M Plan which includes a proposed weekly inspection form to UDEQ for approval on October 25, 2010. Approval of that the O&M Plan was received January 2, 2013. The inspection forms specified in the O&M Plan were implemented during the first inspection conducted following the receipt of the DRC approval.

5.7 Conditions That May Affect Water Levels in Piezometers

There no water was added to the any of the wildlife ponds during the quarter.

6.0 CORRECTIVE ACTION REPORT

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

Identification and Definition of the Problem

Chloroform is present in the rinsate blanks (TW4-21R and TW4-3R) and in the DIFB (TW4-60) for this quarter. A comparison of the rinsate blank 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 of the two rinsate blank analytes met this criterion. Rinsate sample TW4-21R reported chloroform at 16.0 ug/L and sample TW4-21 reported a chloroform concentration of 390 ug/L. The rinsate sample TW4-21R is therefore compliant with the QAP requirements. Rinsate sample TW4-3R had a reported detection of chloroform of 2.0 ug/L while chloroform was not detected in sample TW4-3. The rinsate sample TW4-3R is not compliant with the QAP requirements that the rinsate concentration be one order of magnitude lower than that of the actual well.

While not required by the Chloroform QAP, DIFB samples are collected to analyze the quality of the DI water system at the Mill, which is used to collect rinsate samples. Because there is no requirement in the Chloroform QAP to collect a DIFB; there is no requirement in the chloroform QAP for assessment of the DIFB. The DIFB is neither compliant nor non-compliant with the Chloroform QAP requirements. The DIFB data are collected and provided for information purposes only. The DIFB results are further indicative of laboratory issues and these results provide additional support for EFRI's conclusion that Energy Laboratories are not providing the level of data review required by EFRI.

Assignment of Responsibility for Investigation of the Problem

This problem has been investigated by the QA Manager.

Investigation and Determination of Cause of the Problem

A review of the analytical results reported for the DIFB sample indicated the sample reported chloroform at 2.0 ug/L. Further review of the data package showed that the DIFB sample as well as the rinsate sample TW4-21R were analyzed by the lab immediately after samples with the high levels of chloroform. TW4-21R was analyzed after a sample with a chloroform concentration of 708 ug/L, and TW4-60 was analyzed after a sample with a chloroform concentration of 1200 ug/L. The detections in TW4-60 and TW4-21R are carry-over resulting from the samples analyzed previously. TW4-3R was the first EFRI sample reported in the data package; however, it was not the first sample analyzed on that instrument on that day and was most likely analyzed after a sample with high concentrations of chloroform. The detection in TW4-3R is carry-over resulting from the samples analyzed previously. As analytical data from other clients is confidential, EFRI cannot request the analytical data for the sample preceding TW4-3R, but based on the results from TW4-21R and TW4-60 carry-over is most likely the cause of the detection of chloroform in TW4-3.

Determination of a Corrective Action to Eliminate the Problem

Due to continued quality issues with Energy Laboratories, EFRI has changed laboratories commencing with the first Quarter 2013 sampling event.

Assigning and Accepting Responsibility for Implementing the Corrective Action

It will be the responsibility of the QA Manager to review future rinsate blank and DIFB data to assess results and determine if detections are present and investigate causes as needed.

Implementing the Corrective Action and Evaluating Effectiveness

EFRI has contracted with another Utah-certified analytical laboratory that will provide analytical services beginning with the first quarter 2013. The data will be reviewed for compliance with the Chloroform QAP. If detections are compliant with the QAP requirements, the corrective actions will be considered successful.

Verifying That the Corrective Action Has Eliminated the Problem

Verification that carry over is not causing erroneous detections will be completed upon review of the analytical data from the first quarter of 2013.

6.1 Assessment of Previous Quarter's Corrective Actions

The third quarter 2012 report noted two corrective actions. Assessment of those corrective actions is discussed below.

The issues which required corrective action from the third quarter 2012 are as follows:

<u>TW4-24 receipt pH</u>
Appendix A of the QAP states that all VOC samples are required to be preserved and arrive at the laboratory with a pH less than 2. A review of the laboratory data for the third quarter 2012 revealed that all VOC samples were received at the laboratory with a pH less than 2 except for one, TW4-24.

<u>Trip Blank Holding Times</u>
One of the three trip blanks analyzed during the third quarter of 2012 was outside of the required holding time. All other samples received with the trip blank were analyzed within the required holding time and as such the data are not rejected. The samples arrived at the laboratory with more than sufficient time to analyze all of the samples within the required holding time, and therefore EFRI believes this to be a laboratory error.

EFRI proposed specific corrective actions to address the above noted issues. However, due to continued quality problems with Energy Laboratories, EFRI has contracted with another Utah-certified laboratory. The corrective actions specified in the third quarter 2012 Chloroform report are no longer valid as those corrective actions were designed to address issues which were caused by Laboratory error. EFRI believes that by contracting with a new laboratory, the quality issues will be eliminated.

7.0 CONCLUSIONS AND RECOMMENDATIONS

The water level contour maps for the fourth quarter, 2012 indicate effective capture of water containing high chloroform concentrations in the vicinity of pumping wells MW-4, MW-26, TW4-19, and TW4-20. A well-defined capture zone is not evident at TW4-4. The capture zone associated with TW4-4 is likely obscured by the low water level at adjacent well TW4-14 and the two orders of magnitude decrease in permeability south of TW4-4. However, the decrease in chloroform concentrations at TW4-6 (located downgradient of TW4-4) since the fourth quarter of 2009 is likely related to TW4-4 pumping.

Fourth quarter, 2012 chloroform concentrations at many of the wells with detected chloroform were within 20% of the values reported during the previous quarter, suggesting that variations are within the range typical for sampling and analytical error. Changes in concentration greater than 20% occurred in wells MW-26, TW4-5, TW4-6, TW4-18, TW4-19, TW4-20, TW4-22, and TW4-26; the concentration in well TW4-27 remained non-detect.

Of the wells showing changes in concentration greater than 20%, MW-26, TW4-19, and TW4-20 are pumping wells. TW4-5 and TW4-22 are located adjacent to pumping well TW4-20; TW4-18 is located adjacent to pumping well TW4-19; and TW4-6 is located adjacent to pumping well TW4-4. Fluctuations in concentrations at pumping wells and wells adjacent to pumping wells likely result in part from changes in pumping. TW4-26 is located outside of the chloroform plume near the downgradient edge of the plume. Slight expansion and contraction of the chloroform plume boundaries in response to changes in upgradient pumping are expected to impact the concentrations at TW4-26.

Between the current and previous quarters, the concentration in TW4-26, which is the most downgradient temporary well, increased slightly from 4.9 µg/L to 5.9 µg/L. The changes in concentrations at TW4-6 and TW4-26 are likely the result of their location near the downgradient edge of the plume where changes in upgradient pumping are expected to affect concentrations.

The highest chloroform concentration (19,000 µg/L) was detected at pumping well TW4-20. Since the last quarter, the chloroform concentration in TW4-20 increased from 13,000 µg/L to 19,000 µg/L, the concentration in adjacent pumping well TW4-19 increased from 950 µg/L to 1,500 µg/L, the concentration in nearby well TW4-21 decreased slightly from 410 to 390 µg/L, and the concentration in nearby well TW4-22 decreased from 940 µg/L to 330 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 1.1 µg/L at TW4-24.

The chloroform concentration at well TW4-6 increased from 6.9 µg/L to 8.5 µg/L. This well has been outside the chloroform plume boundary since the fourth quarter of 2010. In the past, TW4-6 has been both within and outside the plume. From the first quarter of 2009 through the fourth quarter of 2010, TW4-6 was within the plume. Prior to that time, between the time of installation in the second quarter of 2000 and the fourth quarter of 2008, TW4-6 was outside the plume. Although fluctuations in concentrations have occurred, this well likely remained outside the plume between installation in 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. The decreases in concentrations at TW4-6 since the fourth quarter of 2009 are likely the result of upgradient pumping, in particular pumping at adjacent well TW4-4 (which commenced in the first quarter of 2010). Chloroform remained non-detect at downgradient temporary well TW4-23. TW4-23 and TW4-6 (with a chloroform concentration of 8.5 µg/L) bound the chloroform plume to the south. TW4-8, TW4-12, TW4-13, TW4-14, and TW4-27 bound the chloroform plume to the east.

Continued pumping of MW-4, MW-26, 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. The general decrease in chloroform concentrations at TW4-6 from 1,000 µg/L to 8.5 µg/L since the first quarter of 2010 is likely related to pumping at TW4-4. The decrease in the long-term rate of water level rise at TW4-6 since TW4-4 pumping began, which suggests that TW4-6 is within the hydraulic influence of TW4-4, is consistent with the decrease in chloroform concentrations at TW4-6.

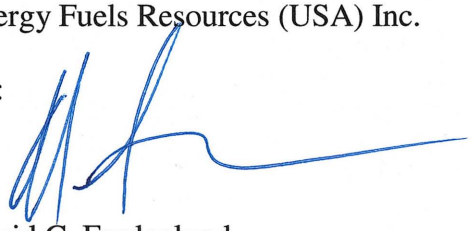
8.0 ELECTRONIC DATA FILES AND FORMAT

EFRI 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 Energy Fuels Resources (USA) Inc. on February 18, 2013.

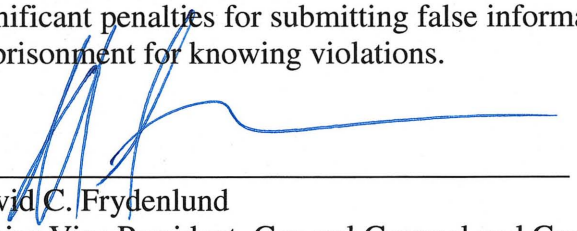
Energy Fuels Resources (USA) Inc.

By: 

David C. Frydenlund
Senior Vice President, General Counsel and Corporate Secretary

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
Senior Vice President, General Counsel and Corporate Secretary
Energy Fuels Resources (USA) Inc.

Tables

Table 1: Summary of Well Sampling for the Period

Well	Sample Date	Date of Lab Report
MW-04	10/4/2012	10/19/2012
TW4-01	10/4/2012	10/19/2012
TW4-02	10/4/2012	10/19/2012
TW4-03	10/3/2012	10/19/2012
TW4-03R	10/2/2012	10/19/2012
TW4-04	10/3/2012	10/19/2012
TW4-05	10/3/2012	10/19/2012
TW4-06	10/3/2012	10/19/2012
TW4-07	10/4/2012	10/19/2012
TW4-08	10/3/2012	10/19/2012
TW4-09	10/3/2012	10/19/2012
TW4-10	10/3/2012	10/19/2012
TW4-11	10/4/2012	10/19/2012
TW4-12	10/3/2012	10/19/2012
TW4-13	10/3/2012	10/19/2012
TW4-14	10/3/2012	10/19/2012
MW-26	10/4/2012	10/19/2012
TW4-16	10/3/2012	10/19/2012
MW-32	10/10/2012	10/19/2012
TW4-18	10/3/2012	10/19/2012
TW4-19	10/3/2012	10/19/2012
TW4-20	10/3/2012	10/19/2012
TW4-21	10/4/2012	10/19/2012
TW4-21R	10/3/2012	10/19/2012
TW4-22	10/4/2012	10/19/2012
TW4-23	10/3/2012	10/19/2012
TW4-24	10/3/2012	10/19/2012
TW4-25	10/3/2012	10/19/2012
TW4-26	10/3/2012	10/19/2012
TW4-27	10/3/2012	10/19/2012
TW4-60	10/4/2012	10/19/2012
TW4-65	10/3/2012	10/19/2012
TW4-70	10/4/2012	10/19/2012

All sample locations were sampled for Chloroform, 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, MW-65 is a duplicate of MW-09, and TW4-70 is a duplicate of TW4-21.

Highlighted wells are continuously pumped.

Table 2 Chloroform Mass Removal Per Well Per Quarter

Quarter	MW-4 (lbs.)	TW4-15 (MW-26) (lbs.)	TW4-19 (lbs.)	TW4-20 (lbs.)	TW4-4 (lbs.)	Quarter Totals (lbs.)
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
Q4 2010	1.1	0.5	7.7	7.4	1.2	17.9
Q1 2011	1.1	0.2	12.9	9.6	1.1	24.9
Q2 2011	1.2	0.8	5.3	4.6	1.1	13.1
Q3 2011	1.2	0.4	1.1	4.1	1.2	8.1
Q4 2011	1.2	0.8	2.7	4.8	1.4	10.9
Q1 2012	1.1	0.6	0.8	7.0	1.0	10.5
Q2 2012	1.1	0.6	0.7	6.9	1.1	10.4
Q3 2012	1.1	0.7	1.4	2.4	1.1	6.7
Q4 2012	0.9	0.3	2.0	3.2	0.9	7.3
Well Totals (pounds)	76.0	25.4	283.5	223.4	12.9	**621.3**

* Q1 2007 represents the cumulative total prior to and including Q1 2007.

Table 3 Chloroform Well Pumping Rates and Volumes

Pumping Well Name	Volume of Water Pumped during the quarter (gals)	Average Pump Rate (gpm)
MW-4	78,840	4.3
MW-26	30,797	10.4
TW4-4	66,089	13.6
TW4-19	156,653	10.2
TW4-20	20,114	8.9

INDEX OF TABS

Tab A Site Plan and Perched Well Locations White Mesa Site

Tab B Order of Sampling and Field Data Worksheets

Tab C Weekly and Monthly Depth to Water Data

Tab D Kriged Current Quarter Groundwater Contour Map, Capture Zone Map, Capture Zone Details Map, and Depth to Water Data

Tab E Kriged Previous Quarter Groundwater Contour Map

Tab F Hydrographs of Groundwater Elevations Over Time for Chloroform Monitoring Wells

Tab G Depths to Groundwater and Elevations Over Time for Chloroform Monitoring Wells

Tab H Laboratory Analytical Reports

Tab I Quality Assurance and Data Validation Tables

- I-1 Field Data QA/QC Evaluation
- I-2 Holding Time Evaluation
- I-3 Receipt Temperature Check
- I-4 Analytical Method Check
- I-5 Reporting Limit Evaluation
- I-6 Trip Blank Evaluation
- I-7 QA/QC Evaluation for Sample Duplicates
- I-8 QC Control Limits for Analyses and Blanks
- I-9 Rinsate Check

Tab J Kriged Current Quarter Chloroform Isoconcentration Map

Tab K Analyte Concentration Data Over Time

Tab L Chloroform Concentration Trend Graphs

Tab M CSV Transmittal Letter

Tab N Notification Letter

Tab A

Site Plan and Perched Well Locations White Mesa Site

EXPLANATION

- **MW-5** ● perched monitoring well
- **TW4-12** ○ temporary perched monitoring well
- **TWN-10** ◇ temporary perched nitrate monitoring well
- **PIEZ-1** ◒ perched piezometer
- **TW4-27** ☼ temporary perched monitoring well installed October, 2011
- **RUIN SPRING** ⏚ seep or spring

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WHITE MESA SITE PLAN SHOWING LOCATIONS OF PERCHED WELLS AND PIEZOMETERS

APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/may12/Uwelloc12.srf	A-1

Tab B

Order of Sampling and Field Data Worksheets

Order of Contamination for 4th Quarter 2012 Chloroform Purging Event

Well	Sample time	Chloroform Levels	Rinsate date/time	Water level	Well Depth	
TW4-03	10/3 1005	ND	3R 10/2/2012 0700		141	
TW4-12	10/3 0934	ND			101.5	
TW4-13	10/3 0940	ND			102.5	
TW4-14	10/3 0946	ND			93	
MW-32	~~10/3~~ 10/10 1320	ND			130.6	Bladder pump
TW4-23	10/3 1014	ND			114	
TW4-08	10/3 1021	ND			125	
TW4-09	10/3 1030	ND			120	
TW4-16	10/3 1100	ND			142	
TW4-27	10/3/12 0704	ND			96	
TW4-25	10/3 1111	ND			134.8	
TW4-24	10/3 1053	1.1			112.5	
TW4-26	10/3 0721	4.9			86	
TW4-06	10/3 0736	6.9			97.5	
TW4-05	10/3 1118	12			120	
TW4-18	10/3 0832	38			137.5	
TW4-10	10/3 1152	130			111	
TW4-21	10/4 0646	410	21R 10/3/12 1237		121	
TW4-11	10/4 0701	740			100	
TW4-07	10/4 0715	870			120	
TW4-22	10/4 0725	940			113.5	
TW4-19	10/3 0854	950			125	Cont. Pumping
TW4-01	10/4 0734	1000			110	
MW-04	10/4 0810	1500			124	Cont. Pumping
TW4-04	10/3 0755	1600			112	Cont. Pumping
TW4-02	10/4 0742	2900			120	
MW-26	10/4 0759	3100			122.5	Cont. Pumping
TW4-20	10/3 0809	13000			106	Cont. Pumping

TW4-60	D.I. Blank 10/4	0836
TW4-65	Duplicate @ TW4-9	
TW4-70	Duplicate TW4-21	

Comments:

Name: _____ Date: _____

DENISON MINES

ATTACHMENT 1-2
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUNDWATER

See instruction

Description of Sampling Event: 4Th Quarter Chloroform 2012

Location (well name): MW-04

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: MW-04_10042012

Date and Time for Purging: 10/4/2012 and Sampling (if different): N/A

Well Purging Equip Used: ☒ pump or ☐ bailer

Well Pump (if other than Bennet): Continuous

Purging Method Used: ☐ 2 casings ☐ 3 casings

Sampling Event: 999

Prev. Well Sampled in Sampling Event: MW-26

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 999 µMHOS/ cm

Well Depth(0.01ft): 124.00

Depth to Water Before Purging: 75.15

Casing Volume (V) 4" Well: 0 (.653h)
3" Well: 17.92 (.367h)

Conductance (avg): 1944

pH of Water (avg): 6.95

Well Water Temp. (avg): 14.41

Redox Potential (Eh): 176

Turbidity: 0

Weather Cond.: Partly Cloudy

Ext'l Amb. Temp. °C (prior sampling event): 13°

Time	0809	Gal. Purged	0
Conductance	1944	pH	6.95
Temp. °C	14.41		
Redox Potential Eh (mV)	176		
Turbidity (NTU)	0		

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Volume of Water Purged: 0 gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = 4.3

Time to evacuate two casing volumes (2V)
T = 2V/Q = 0

Number of casing volumes evacuated (if other than two): 0

If well evacuated to dryness, number of gallons evacuated: 0

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

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	☒	☐	3x40 ml	☐	☒	HCL	☒	☐
Nutrients	☒	☐	100 ml	☐	☒	H2SO4	☒	☐
Heavy Metals	☐	☐	250 ml	☐	☐	HNO3	☐	☐
All Other Non Radiologics	☐	☐	250 ml	☐	☐	No Preserv.	☐	☐
Gross Alpha	☐	☐	1,000 ml	☐	☐	HNO3	☐	☐
Other (specify)	☒	☐	Sample volume	☐	☒		☐	☒
Chloride								

If preservative is used, specify Type and Quantity of Preservative:

Final Depth: 81.14

Sample Time: 0810

See instruction

Comment

Arrived on site at 0805. Tanner and Garrin present for sampling event. Samples collected at 0810. Water was clear. Left site at 0813

MW-04 10-04-2012 Do not touch this cell (SheetName)

DENISON MINES

ATTACHMENT 1-2
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUNDWATER

See instruction

Description of Sampling Event: 4Th Quarter Chloroform 2012

Location (well name): TW4-01

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-01.10042012

Date and Time for Purging: 10/3/2012 and Sampling (if different): 10/4/2012

Well Purging Equip Used: [X] pump or [ ] bailer

Well Pump (if other than Bennet): Grundfos

Purging Method Used: [X] 2 casings [ ] 3 casings

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 µMHOS/ cm

Well Depth(0.01ft): 110.00

Depth to Water Before Purging: 64.70

Casing Volume (V) 4" Well: 29.58 (.653h)
3" Well: 0 (.367h)

Conductance (avg): 2113

pH of Water (avg): 6.48

Well Water Temp. (avg): 15.20

Redox Potential (Eh): 168

Turbidity: 19

Weather Cond.: Partly Cloudy

Ext'l Amb. Temp. °C (prior sampling event): 24°

Time	1502	Gal. Purged	40
Conductance	2105	pH	6.48
Temp. °C	15.21		
Redox Potential Eh (mV)	175		
Turbidity (NTU)	21		

Time	1503	Gal. Purged	50
Conductance	2111	pH	6.48
Temp. °C	15.21		
Redox Potential Eh (mV)	170		
Turbidity (NTU)	19.0		

Time	1504	Gal. Purged	60
Conductance	2113	pH	6.48
Temp. °C	15.23		
Redox Potential Eh (mV)	169		
Turbidity (NTU)	18.2		

Time	1505	Gal. Purged	70
Conductance	2123	pH	6.48
Temp. °C	15.15		
Redox Potential Eh (mV)	159		
Turbidity (NTU)	18.1		

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Volume of Water Purged: 70 gallon(s)

Pumping Rate Calculation

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

Time to evacuate two casing volumes (2V)
T = 2V/Q = 5.91

Number of casing volumes evacuated (if other than two): 0

If well evacuated to dryness, number of gallons evacuated: 0

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

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	☒	☐	3x40 ml	☐	☒	HCL	☒	☐
Nutrients	☒	☐	100 ml	☐	☒	H2SO4	☒	☐
Heavy Metals	☐	☐	250 ml	☐	☐	HNO3	☐	☐
All Other Non Radiologics	☐	☐	250 ml	☐	☐	No Preserv.	☐	☐
Gross Alpha	☐	☐	1,000 ml	☐	☐	HNO3	☐	☐
Other (specify)	☒	☐	Sample volume	☐	☒		☐	☒
Chloride								

If preservative is used, specify Type and Quantity of Preservative:

Final Depth: 105.94 Sample Time: 0734

See instruction

Comment

Arrived on site at 1455 Tanner and Garrin present for purge. Purge began at 1458 Purged well for a total of 7 minutes. water was clear. Purge ended at 1505 Left site at 1507.
Arrived on site at 0730. Tanner and Garrin present to collect samples. Depth to water was 64.86. Samples bailed at 0734. Left site at 0736

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ATTACHMENT 1-2
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUNDWATER

See instruction

Description of Sampling Event: 4th Quarter Chloroform 2012

Location (well name): TW4-02

Sampler Name and initials: Tanner Holliday

Field Sample ID: TW4-02_10042012

Date and Time for Purging: 10/3/2012 and Sampling (if different): 10/4/2012

Well Purging Equip Used: ☒ pump or ☐ bailer

Well Pump (if other than Bennet): Grundfos

Purging Method Used: ☒ 2 casings ☐ 3 casings

Sampling Event: Quarterly Chloroform

Prev. Well Sampled in Sampling Event: TW4-01

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 999 µMHOS/ cm

Well Depth(0.01ft): 120.00

Depth to Water Before Purging: 67.20

Casing Volume (V) 4" Well: 34.47 (.653h)
3" Well: 0 (.367h)

Conductance (avg): 3436

pH of Water (avg): 6.67

Well Water Temp. (avg): 15.17

Redox Potential (Eh): 168

Turbidity: 166

Weather Cond.: Partly Cloudy

Ext'l Amb. Temp. °C (prior sampling event): 24°

Time	~~1535~~ 1537	Gal. Purged	55
Conductance	3436	pH	6.67
Temp. °C	15.17		
Redox Potential Eh (mV)	168		
Turbidity (NTU)	166		

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time	0742	Gal. Purged	0
Conductance	2909	pH	6.79
Temp. °C	13.87		
Redox Potential Eh (mV)	188		
Turbidity (NTU)	2.5		

Before

Time	0744	Gal. Purged	
Conductance	2925	pH	7.02
Temp. °C	13.79		
Redox Potential Eh (mV)	179		
Turbidity (NTU)	3.9		

After

Volume of Water Purged Before: 55 gallon(s) After

Pumping Rate Calculation

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

Time to evacuate two casing volumes (2V)
T = 2V/Q = 6.89

Number of casing volumes evacuated (if other than two): 1.59

If well evacuated to dryness, number of gallons evacuated: 55

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

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	☒	☐	3x40 ml	☐	☒	HCL	☒	☐
Nutrients	☒	☐	100 ml	☐	☒	H2SO4	☒	☐
Heavy Metals	☐	☐	250 ml	☐	☐	HNO3	☐	☐
All Other Non Radiologics	☐	☐	250 ml	☐	☐	No Preserv.	☐	☐
Gross Alpha	☐	☐	1,000 ml	☐	☐	HNO3	☐	☐
Other (specify)	☒	☐	Sample volume	☐	☒		☐	☒
Chloride								

If preservative is used, specify Type and Quantity of Preservative:

Final Depth: 118.55 Sample Time: 0742

See instruction

Comment

Arrived on site at 1530 Tanner Holliday and Garrin palmer present for purge. Purge began at 1532 Purged well for a total of 5 minutes and 30 seconds- Purged well dry! Water was dirty! Purge ended at 1537. Left site at 1540 Arrived on site at 0737. Tanner and Garrin present to collect samples. Depth to water was 67.46. Samples bailed at 0742. Left site at 0745

TW4-02 10-03-2012 Do not touch this cell (SheetName)

DENISON MINES

ATTACHMENT 1-2
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUNDWATER

See instruction

Description of Sampling Event: 4th Quarter Chloroform 2012

Location (well name): TW4-03

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-03_10032012

Date and Time for Purging: 10/2/2012 and Sampling (if different): 10/3/2012

Well Purging Equip Used: ☒ pump or ☐ bailer

Well Pump (if other than Bennet): Grundfos

Purging Method Used: ☒ 2 casings ☐ 3 casings

Sampling Event: Quarterly Chloroform

Prev. Well Sampled in Sampling Event: TW4-03R

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 999 µMHOS/ cm

Well Depth(0.01ft): 141.00

Depth to Water Before Purging: 50.10

Casing Volume (V) 4" Well: 59.35 (.653h)
3" Well: 0 (.367h)

Conductance (avg): 1591

pH of Water (avg): 6.64

Well Water Temp. (avg): 14.37

Redox Potential (Eh): 344

Turbidity: 3.3

Weather Cond.: Clear

Ext'l Amb. Temp. °C (prior sampling event): 16°

Time	0730	Gal. Purged	80
Conductance	1591	pH	6.64
Temp. °C	14.37		
Redox Potential Eh (mV)	344		
Turbidity (NTU)	3.3		

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time	1005	Gal. Purged	0
Conductance	1671	pH	6.98
Temp. °C	15.30		
Redox Potential Eh (mV)	203		
Turbidity (NTU)	2.9		

Before

Time	1008	Gal. Purged	0
Conductance	1693	pH	7.04
Temp. °C	15.15		
Redox Potential Eh (mV)	193		
Turbidity (NTU)	7.1		

AFTER

Volume of Water Purged Before: 85 gallon(s) After

Pumping Rate Calculation

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

Time to evacuate two casing volumes (2V)
T = 2V/Q = 11.87

Number of casing volumes evacuated (if other than two): 1.43

If well evacuated to dryness, number of gallons evacuated: 85

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

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	☒	☐	3x40 ml	☐	☒	HCL	☒	☐
Nutrients	☒	☐	100 ml	☐	☒	H2SO4	☒	☐
Heavy Metals	☐	☐	250 ml	☐	☐	HNO3	☐	☐
All Other Non Radiologics	☐	☐	250 ml	☐	☐	No Preserv.	☐	☐
Gross Alpha	☐	☐	1,000 ml	☐	☐	HNO3	☐	☐
Other (specify)	☒	☐	Sample volume	☐	☒		☐	☒
Chloride								

If preservative is used, specify Type and Quantity of Preservative:

Final Depth: 140.00 Sample Time: 1005

See instruction

Comment

Arrived on site at 0719. Tanner and Garrin present for purge. Purge began at 0722. Purged well for a total of 8 minutes and 30 seconds. Water was clear. Purged well dry. Purge ended at 0730. Left site at 0733
Arrived on site at 1002. Tanner and Garrin present to collect samples Depth to water was ~~5017~~ 50.17. Samples bailed at 1005. Left site at 1008

TW4-03 10-02-2012 Do not touch this cell (SheetName)

DENISON MINES

ATTACHMENT 1-2
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUNDWATER

See instruction

Description of Sampling Event: 4Th Quarter Chloroform 2012

Location (well name): TW4-03R

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-03R_10022012

Date and Time for Purging: 10/2/2012 and Sampling (if different): N/A

Well Purging Equip Used: ☒ pump or ☐ bailer

Well Pump (if other than Bennet): Grundfos

Purging Method Used: ☐ 2 casings ☐ 3 casings

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 µMHOS/ cm

Well Depth(0.01ft): 0

Depth to Water Before Purging: 0

Casing Volume (V) 4" Well: 0 (.653h)
3" Well: 0 (.367h)

Conductance (avg): 3.4

pH of Water (avg): 5.40

Well Water Temp. (avg): 19.20

Redox Potential (Eh): 405

Turbidity: 1.8

Weather Cond.: Clear

Ext'l Amb. Temp. °C (prior sampling event): 16°

Time	0658	Gal. Purged	130
Conductance	3.4	pH	5.40
Temp. °C	19.20		
Redox Potential Eh (mV)	405		
Turbidity (NTU)	1.8		

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Volume of Water Purged: 150 gallon(s)

Pumping Rate Calculation

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

Time to evacuate two casing volumes (2V)
T = 2V/Q = 0

Number of casing volumes evacuated (if other than two): 0

If well evacuated to dryness, number of gallons evacuated: 0

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

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	☑	☐	3x40 ml	☐	☑	HCL	☒	☐
Nutrients	☒	☐	100 ml	☐	☒	H2SO4	☒	☐
Heavy Metals	☐	☐	250 ml	☐	☐	HNO3	☐	☐
All Other Non Radiologics	☐	☐	250 ml	☐	☐	No Preserv.	☐	☐
Gross Alpha	☐	☐	1,000 ml	☐	☐	HNO3	☐	☐
Other (specify)	☒	☐	Sample volume	☐	☒		☐	☒
Chloride								

If preservative is used, specify Type and Quantity of Preservative:

Final Depth: 0 Sample Time: 0700

See instruction

Comment

Rinsate began at 0645. Tanner and Garrin present for Rinsate.
Pumped 50 Gallons soap water and 100 Gallons of D.I. water
Rinsate ended and samples collected at 0700. Left site at 0704

TW4-03R 10-02-2012 Do not touch this cell (SheetName)

DENISON MINES

ATTACHMENT 1-2
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUNDWATER

See instruction

Description of Sampling Event: 4th Quarter Chloroform 2012

Location (well name): TW4-04

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-04-10032012

Date and Time for Purging: 10/3/2012 and Sampling (if different): N/A

Well Purging Equip Used: ☒ pump or ☐ bailer

Well Pump (if other than Bennet): Continuous

Purging Method Used: ☐ 2 casings ☐ 3 casings

Sampling Event: Quarterly Chloroform

Prev. Well Sampled in Sampling Event: TW4-10

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 999 µMHOS/ cm

Well Depth(0.01ft): 112.00

Depth to Water Before Purging: 69.95

Casing Volume (V) 4" Well: 27.45 (.653h)
3" Well: 0 (.367h)

Conductance (avg): 2331

pH of Water (avg): 6.56

Well Water Temp. (avg): 14.35

Redox Potential (Eh): 211

Turbidity: 70.2

Weather Cond.: Partly Cloudy

Ext'l Amb. Temp. °C (prior sampling event): 12°

Time	0754	Gal. Purged	0
Conductance	2331	pH	6.56
Temp. °C	14.35		
Redox Potential Eh (mV)	211		
Turbidity (NTU)	70.2		

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Volume of Water Purged: 0 gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = 8.4

Time to evacuate two casing volumes (2V)
T = 2V/Q = 0

Number of casing volumes evacuated (if other than two): 0

If well evacuated to dryness, number of gallons evacuated: 0

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

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	☒	☐	3x40 ml	☐	☒	HCL	☒	☐
Nutrients	☒	☐	100 ml	☐	☒	H2SO4	☒	☐
Heavy Metals	☐	☐	250 ml	☐	☐	HNO3	☐	☐
All Other Non Radiologics	☐	☐	250 ml	☐	☐	No Preserv.	☐	☐
Gross Alpha	☐	☐	1,000 ml	☐	☐	HNO3	☐	☐
Other (specify)	☒	☐	Sample volume	☐	☒		☐	☒
Chloride								

If preservative is used, specify Type and Quantity of Preservative:

Final Depth: 78.98 Sample Time: 0755

See instruction

Comment

Arrived on site at 0747, Tanner Garrin Deen Tom all present to collect Samples. Samples collected at 0755. Left site at 0800.

TW4-04 10-03-2012 Do not touch this cell (SheetName)

DENISON MINES

ATTACHMENT 1-2
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUNDWATER

See instruction

Description of Sampling Event: 4th Quarter Chloroform 2012

Location (well name): TW4-05

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-05_10032012

Date and Time for Purging: 10/2/2012 and Sampling (if different): 10/3/2012

Well Purging Equip Used: [X] pump or [ ] bailer

Well Pump (if other than Bennet): Grundfos

Purging Method Used: [X] 2 casings [ ] 3 casings

Sampling Event: Quarterly Chloroform

Prev. Well Sampled in Sampling Event: TW4-06

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 999 µMHOS/ cm

Well Depth(0.01ft): 120.00

Depth to Water Before Purging: 56.66

Casing Volume (V) 4" Well: 41.36 (.653h)
3" Well: 0 (.367h)

Conductance (avg): 1479

pH of Water (avg): 6.36

Well Water Temp. (avg): 15.63

Redox Potential (Eh): 173

Turbidity: 616

Weather Cond.: Clear

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

Time	1545	Gal. Purged	60
Conductance	1488	pH	6.39
Temp. °C	15.66		
Redox Potential Eh (mV)	176		
Turbidity (NTU)	622		

Time	1546	Gal. Purged	70
Conductance	1482	pH	6.42
Temp. °C	15.63		
Redox Potential Eh (mV)	176		
Turbidity (NTU)	621		

Time	1547	Gal. Purged	80
Conductance	1477	pH	6.29
Temp. °C	15.61		
Redox Potential Eh (mV)	173		
Turbidity (NTU)	622		

Time	1548	Gal. Purged	90
Conductance	1471	pH	6.35
Temp. °C	15.62		
Redox Potential Eh (mV)	170		
Turbidity (NTU)	601		

Volume of Water Purged: 90 gallon(s)

Pumping Rate Calculation

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

Time to evacuate two casing volumes (2V)
T = 2V/Q = 8.27

Number of casing volumes evacuated (if other than two): 0

If well evacuated to dryness, number of gallons evacuated: 0

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

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	☒	☐	3x40 ml	☐	☒	HCL	☒	☐
Nutrients	☒	☐	100 ml	☐	☒	H2SO4	☒	☐
Heavy Metals	☐	☐	250 ml	☐	☐	HNO3	☐	☐
All Other Non Radiologics	☐	☐	250 ml	☐	☐	No Preserv.	☐	☐
Gross Alpha	☐	☐	1,000 ml	☐	☐	HNO3	☐	☐
Other (specify)	☒	☐	Sample volume	☐	☒		☐	☒
Chloride								

If preservative is used, specify Type and Quantity of Preservative:

Final Depth: 57.00 Sample Time: 1118

See instruction

Comment

Arrived on site at 1535 Tanner, Garrin, Deen, Tom all present for purge. Purge began at 1539. Purged well for a total of 9 minutes. water was murky and dirty Purge ended at 1548. Left site at 1551
Arrived on site at 1114. Tanner and Garrin present to collect samples. Depth to water was 56.75
Samples bailed at 1118. Left site at 1120

TW4-05 10-02-2012 Do not touch this cell (SheetName)

DENISON MINES

ATTACHMENT 1-2
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUNDWATER

See instruction

Description of Sampling Event: 4TH Quarter Chloroform 2012

Location (well name): TW4-06

Sampler Name and initials: Tanner Holliday /TH

Field Sample ID: TW4-06.10032012

Date and Time for Purging: 10/2/2012 and Sampling (if different): 10/3/2012

Well Purging Equip Used: [X] pump or [ ] bailer

Well Pump (if other than Bennet): Grundfos

Purging Method Used: [X] 2 casings [ ] 3 casings

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: 999 µMHOS/ cm

Well Depth(0.01ft): 97.50

Depth to Water Before Purging: 69.60

Casing Volume (V) 4" Well: 18.21 (.653h)
3" Well: 0 (.367h)

Conductance (avg): 3916

pH of Water (avg): 6.71

Well Water Temp. (avg): 15.72

Redox Potential (Eh): 81

Turbidity: 732

Weather Cond.: Clear

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

Time	1510	Gal. Purged	25		
Conductance	3916	pH	6.71		
Temp. °C	15.72				
Redox Potential Eh (mV)	81				
Turbidity (NTU)	732				

Time		Gal. Purged			
Conductance		pH			
Temp. °C					
Redox Potential Eh (mV)					
Turbidity (NTU)					

Time	0736	Gal. Purged	0		
Conductance	~~3.61~~ 3906	pH	6.11		
Temp. °C	12.93				
Redox Potential Eh (mV)	268				
Turbidity (NTU)	23.1				

Before

Time	0740	Gal. Purged	0		
Conductance	3938	pH	6.21		
Temp. °C	13.11				
Redox Potential Eh (mV)	249				
Turbidity (NTU)	100.8				

After

83.2929.3.4 - GW-QAP rev7.2 06.06.12 / Template-[1211] - Printed 6/16/2012 11:06 AM from DMCUSD@DOM

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Volume of Water Purged: 25 gallon(s)

Pumping Rate Calculation

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

Time to evacuate two casing volumes (2V)
T = 2V/Q = 3.64

Number of casing volumes evacuated (if other than two): 1.37

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		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	☒	☐	3x40 ml	☐	☒	HCL	☒	☐
Nutrients	☒	☐	100 ml	☐	☒	H2SO4	☒	☐
Heavy Metals	☐	☐	250 ml	☐	☐	HNO3	☐	☐
All Other Non Radiologics	☐	☐	250 ml	☐	☐	No Preserv.	☐	☐
Gross Alpha	☐	☐	1,000 ml	☐	☐	HNO3	☐	☐
Other (specify)	☒	☐	Sample volume	☐	☒		☐	☒
Chloride								

If preservative is used, specify Type and Quantity of Preservative:

Final Depth: 96.00 Sample Time: 0736

See instruction

Comment

Arrived on site at 1505. Tanner, Garrin, Deen, Tom all present for purge. Purge began at 1508. Purged well for a total of 2 minutes and 30 seconds. Purged well dry! water was dirty with some dirt particles. Purge ended at 1510 left site at 1513. Arrived on site at 0729. Tanner Garrin Deen Tom all present to collect samples. Depth to water was 63.93. Samples bailed at 0736. Left site at 0741

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capturx COMPATIBLE WITH Acrobat FUNCTIONALITY

DENISON MINES

ATTACHMENT 1-2
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUNDWATER

See instruction

Description of Sampling Event: 4th Quarter Chloroform 2012

Location (well name): TW4-07

Sampler Name and initials: Tanner Holliday /TH

Field Sample ID: TW4-07_10042012

Date and Time for Purging: 10/3/2012 and Sampling (if different): 10/4/2012

Well Purging Equip Used: [X] pump or [ ] bailer

Well Pump (if other than Bennet): Grundfos

Purging Method Used: [X] 2 casings [ ] 3 casings

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: 999 µMHOS/ cm

Well Depth(0.01ft): 120.00

Depth to Water Before Purging: 68.05

Casing Volume (V) 4" Well: 33.92 (.653h)
3" Well: 0 (.367h)

Conductance (avg): 1588

pH of Water (avg): 6.80

Well Water Temp. (avg): 15.54

Redox Potential (Eh): 177

Turbidity: 44.7

Weather Cond.: Partly Cloudy

Ext'l Amb. Temp. °C (prior sampling event): 24°

Time	1401	Gal. Purged	60
Conductance	1588	pH	6.80
Temp. °C	15.54		
Redox Potential Eh (mV)	177		
Turbidity (NTU)	44.7		

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time	0715	Gal. Purged	0
Conductance	1587	pH	7.03
Temp. °C	15.15		
Redox Potential Eh (mV)	165		
Turbidity (NTU)	10.5		

Before

Time	0716	Gal. Purged	0
Conductance	1580	pH	7.01
Temp. °C	15.25		
Redox Potential Eh (mV)	170		
Turbidity (NTU)	15.1		

After

83.2920.3.24 - GW-QAP rev7.2 05.06.12 / Template-[122] - Printed 8/16/2012 11:12 AM from DMCSSB0038

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Volume of Water Purged: 60 gallon(s)

Pumping Rate Calculation

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

Time to evacuate two casing volumes (2V)
T = 2V/Q = 6.78

Number of casing volumes evacuated (if other than two): 1.76

If well evacuated to dryness, number of gallons evacuated: 60

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

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	☒	☐	3x40 ml	☐	☒	HCL	☒	☐
Nutrients	☒	☐	100 ml	☐	☒	H2SO4	☒	☐
Heavy Metals	☐	☐	250 ml	☐	☐	HNO3	☐	☐
All Other Non Radiologics	☐	☐	250 ml	☐	☐	No Preserv.	☐	☐
Gross Alpha	☐	☐	1,000 ml	☐	☐	HNO3	☐	☐
Other (specify)	☒	☐	Sample volume	☐	☒		☐	☒
Chloride								

If preservative is used, specify Type and Quantity of Preservative:

Final Depth: 118.76 Sample Time: 0715

See instruction

Comment

Arrived on site at 1352 Tanner and Garrin present for purge. Purge began at 1355 Purged well for a total of 6 minutes. Purged well dry! water was murky. Purge ended at 1401. Left site at 1403
Arrived on site at 0711. Tanner and Garrin present for sampling event. Depth to water was 69.50. Samples bailed at 0715. Left site at 0717

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DENISON MINES

ATTACHMENT 1-2
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUNDWATER

See instruction

Description of Sampling Event: 4Th Quarter Chloroform 2012

Location (well name): TW4-08

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-08_10032012

Date and Time for Purging: 10/2/2012 and Sampling (if different): 10/3/2012

Well Purging Equip Used: ☒ pump or ☐ bailer

Well Pump (if other than Bennet): Grundfos

Purging Method Used: ☒ 2 casings ☐ 3 casings

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: 999 µMHOS/ cm

Well Depth(0.01ft): 125.00

Depth to Water Before Purging: 66.50

Casing Volume (V) 4" Well: 38.20 (.653h)
3" Well: 0 (.367h)

Conductance (avg): 3250

pH of Water (avg): 6.97

Well Water Temp. (avg): 14.92

Redox Potential (Eh): 113

Turbidity: 53

Weather Cond.: Clear

Ext'l Amb. Temp. °C (prior sampling event): 19°

Time	1005	Gal. Purged	50
Conductance	3255	pH	6.97
Temp. °C	14.92		
Redox Potential Eh (mV)	120		
Turbidity (NTU)	54		

Time	1006	Gal. Purged	60
Conductance	3257	pH	6.97
Temp. °C	14.92		
Redox Potential Eh (mV)	113		
Turbidity (NTU)	54.1		

Time	1007	Gal. Purged	70
Conductance	3246	pH	6.97
Temp. °C	14.93		
Redox Potential Eh (mV)	111		
Turbidity (NTU)	53		

Time	1008	Gal. Purged	80
Conductance	3242	pH	6.97
Temp. °C	14.93		
Redox Potential Eh (mV)	109		
Turbidity (NTU)	53.6		

Volume of Water Purged: 80 gallon(s)

Pumping Rate Calculation

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

Time to evacuate two casing volumes (2V)
T = 2V/Q = 7.64

Number of casing volumes evacuated (if other than two): 0

If well evacuated to dryness, number of gallons evacuated: 0

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

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	☒	☐	3x40 ml	☐	☒	HCL	☒	☐
Nutrients	☒	☐	100 ml	☐	☒	H2SO4	☒	☐
Heavy Metals	☐	☐	250 ml	☐	☐	HNO3	☐	☐
All Other Non Radiologics	☐	☐	250 ml	☐	☐	No Preserv.	☐	☐
Gross Alpha	☐	☐	1,000 ml	☐	☐	HNO3	☐	☐
Other (specify)	☒	☐	Sample volume	☐	☒		☐	☒
Chloride								

If preservative is used, specify Type and Quantity of Preservative:

Final Depth: 78.03 Sample Time: 1021

See instruction

Comment

Arrived on site at 0958. Tanner and Garrin present for purge. Purge began at 1000
Purged well for a total of 8 minutes, water was mostly clear. Purge ended at 1008
Left site at 1011.
Arrived on site at 1017. Tanner and Garrin present to collect samples. Depth to water was 66.90
Samples bailed at 1021 Left site at 1023

TW4-08 10-02-2012 Do not touch this cell (SheetName)

DENISON MINES

ATTACHMENT 1-2
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUNDWATER

See instruction

Description of Sampling Event: 4Th Quarter Chloroform 2012

Location (well name): TW4-09

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-09_10032012

Date and Time for Purging: 10/2/2012 and Sampling (if different): 10/3/2012

Well Purging Equip Used: ☒ pump or ☐ bailer

Well Pump (if other than Bennet): Grundfos

Purging Method Used: ☒ 2 casings ☐ 3 casings

Sampling Event: Quarterly Chloroform

Prev. Well Sampled in Sampling Event: TW4-08

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 999 µMHOS/ cm

Well Depth(0.01ft): 120.00

Depth to Water Before Purging: 54.70

Casing Volume (V) 4" Well: 42.64 (.653h)
3" Well: 0 (.367h)

Conductance (avg): 2284

pH of Water (avg): 6.54

Well Water Temp. (avg): 14.99

Redox Potential (Eh): 225

Turbidity: 245

Weather Cond.: Clear

Ext'l Amb. Temp. °C (prior sampling event): 20°

Time	1037	Gal. Purged	60
Conductance	2289	pH	6.57
Temp. °C	15.00		
Redox Potential Eh (mV)	234		
Turbidity (NTU)	235		

Time	1038	Gal. Purged	70
Conductance	2282	pH	6.54
Temp. °C	14.98		
Redox Potential Eh (mV)	235		235
Turbidity (NTU)	249		

Time	1039	Gal. Purged	80
Conductance	2282	pH	6.54
Temp. °C	14.99		
Redox Potential Eh (mV)	221		
Turbidity (NTU)	255		

Time	1040	Gal. Purged	90
Conductance	2285	pH	6.54
Temp. °C	15.00		
Redox Potential Eh (mV)	211		
Turbidity (NTU)	243		

Volume of Water Purged: 90 gallon(s)

Pumping Rate Calculation

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

Time to evacuate two casing volumes (2V)
T = 2V/Q = 8.52

Number of casing volumes evacuated (if other than two): 0

If well evacuated to dryness, number of gallons evacuated: 0

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

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	☒	☐	3x40 ml	☐	☒	HCL	☒	☐
Nutrients	☒	☐	100 ml	☐	☒	H2SO4	☒	☐
Heavy Metals	☐	☐	250 ml	☐	☐	HNO3	☐	☐
All Other Non Radiologics	☐	☐	250 ml	☐	☐	No Preserv.	☐	☐
Gross Alpha	☐	☐	1,000 ml	☐	☐	HNO3	☐	☐
Other (specify)	☒	☐	Sample volume	☐	☒		☐	☒
Chloride								

If preservative is used, specify Type and Quantity of Preservative:

Final Depth: 72.20 Sample Time: 1030

See instruction

Comment

Arrived on site at 1028. Tanner and Garrin present for purge. Purge began at 1031 Purged well for a total of 9 minutes, water was a little dirty with some sand Particles. Purge ended at 1040. Left site at 1042
Arrived on site at 1024. Tanner and Garrin present to collect samples Depth to water was 54.56 Samples bailed at 1030. Left site at 1034

TW4-09 10-02-2012 Do not touch this cell (SheetName)

DENISON MINES

ATTACHMENT 1-2
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUNDWATER

See instruction

Description of Sampling Event: 4th Quarter Chloroform 2012

Location (well name): TW4-10

Sampler Name and initials: Tanner Holliday

Field Sample ID: TW4-10_10032012

Date and Time for Purging: 10/2/2012 and Sampling (if different): 10/3/2012

Well Purging Equip Used: [X] pump or [ ] bailer

Well Pump (if other than Bennet): Grundfos

Purging Method Used: [X] 2 casings [ ] 3 casings

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: 999 µMHOS/ cm

Well Depth(0.01ft): 111.00

Depth to Water Before Purging: 55.79

Casing Volume (V) 4" Well: 36.05 (.653h)
3" Well: 0 (.367h)

Conductance (avg): 2371

pH of Water (avg): 6.61

Well Water Temp. (avg): 15.41

Redox Potential (Eh): 78

Turbidity: 41.0

Weather Cond.: Clear

Ext'l Amb. Temp. °C (prior sampling event): 22°

Time	1709	Gal. Purged	47.50
Conductance	2371	pH	6.61
Temp. °C	15.41		
Redox Potential Eh (mV)	78		
Turbidity (NTU)	41.0		

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time	1125	Gal. Purged	0
Conductance	2412	pH	7.09
Temp. °C	17.62		
Redox Potential Eh (mV)	~~6.41~~ 141		
Turbidity (NTU)	22.1		

Before

Time	1127	Gal. Purged	0
Conductance	2391	pH	6.99
Temp. °C	17.59		
Redox Potential Eh (mV)	136		
Turbidity (NTU)	35.1		

After

Before / After

Volume of Water Purged: 47.50 gallon(s)

Pumping Rate Calculation

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

Time to evacuate two casing volumes (2V)
T = 2V/Q = 7.21

Number of casing volumes evacuated (if other than two): 1.31

If well evacuated to dryness, number of gallons evacuated: 47.50

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

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	☒	☐	3x40 ml	☐	☒	HCL	☒	☐
Nutrients	☒	☐	100 ml	☐	☒	H2SO4	☒	☐
Heavy Metals	☐	☐	250 ml	☐	☐	HNO3	☐	☐
All Other Non Radiologics	☐	☐	250 ml	☐	☐	No Preserv.	☐	☐
Gross Alpha	☐	☐	1,000 ml	☐	☐	HNO3	☐	☐
Other (specify)	☒	☐	Sample volume	☐	☒		☐	☒
Chloride								

If preservative is used, specify Type and Quantity of Preservative:

Final Depth: 109.92 Sample Time: 1125

See instruction

Comment

Arrived on site at 1702. Tanner and Garrin present for purge. Purge began at 1705. Purged well for a total of 4 minutes and 45 seconds. Water was a little murky but mostly clear. Purge ended at 1710. Left site at 1713 Arrived on site at 1121. Tanner and Garrin present for sampling event. Depth to water was 56.05 Samples bailed at 1125. Left site at 1128

TW4-10 10-02-2012 Do not touch this cell (SheetName)

DENISON MINES

ATTACHMENT 1-2
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUNDWATER

See instruction

Description of Sampling Event: 4th Quarter Chloroform 2012

Location (well name): TW4-11

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-11_10042012

Date and Time for Purging: 10/3/2012 and Sampling (if different): 10/4/2012

Well Purging Equip Used: [X] pump or [ ] bailer

Well Pump (if other than Bennet): Grundfos

Purging Method Used: [X] 2 casings [ ] 3 casings

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: 999 µMHOS/ cm

Well Depth(0.01ft): 100.00

Depth to Water Before Purging: 56.80

Casing Volume (V) 4" Well: 28.20 (.653h)
3" Well: 0 (.367h)

Conductance (avg): 1591

pH of Water (avg): 6.97

Well Water Temp. (avg): 14.64

Redox Potential (Eh): 196

Turbidity: 14

Weather Cond.: Partly Cloudy

Ext'l Amb. Temp. °C (prior sampling event): 24°

Time	1325	Gal. Purged	30
Conductance	1592	pH	6.91
Temp. °C	14.76		
Redox Potential Eh (mV)	204		
Turbidity (NTU)	13.9		

Time	1326	Gal. Purged	40
Conductance	1592	pH	7.02
Temp. °C	14.69		
Redox Potential Eh (mV)	195		
Turbidity (NTU)	14.2		

Time	1327	Gal. Purged	50
Conductance	1590	pH	6.98
Temp. °C	14.57		
Redox Potential Eh (mV)	194		
Turbidity (NTU)	14.5		

Time	1328	Gal. Purged	60
Conductance	1591	pH	7.00
Temp. °C	14.57		
Redox Potential Eh (mV)	194		
Turbidity (NTU)	15.0		

Volume of Water Purged: 60 gallon(s)

Pumping Rate Calculation

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

Time to evacuate two casing volumes (2V)
T = 2V/Q = 5.64

Number of casing volumes evacuated (if other than two): 0

If well evacuated to dryness, number of gallons evacuated: 0

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

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	☒	☐	3x40 ml	☐	☒	HCL	☒	☐
Nutrients	☒	☐	100 ml	☐	☒	H2SO4	☒	☐
Heavy Metals	☐	☐	250 ml	☐	☐	HNO3	☐	☐
All Other Non Radiologics	☐	☐	250 ml	☐	☐	No Preserv.	☐	☐
Gross Alpha	☐	☐	1,000 ml	☐	☐	HNO3	☐	☐
Other (specify)	☒	☐	Sample volume	☐	☒		☐	☒
Chloride								

If preservative is used, specify Type and Quantity of Preservative:

Final Depth: 97.69 Sample Time: 0701

See instruction

Comment

Arrived on site at 1320 Tanner and Garrin present for purge. Purge began at 1322 Purged well for a total of 6 minutes. water was clear. Purge ended at 1328. Left site at 1330.
Arrived on site at 0656. Tanner and Garrin present to collect samples. Depth to water was 58.80. Samples bailed at 0701. Left site at 0703

TW4-11 10-03-2012 Do not touch this cell (SheetName)

DENISON MINES

ATTACHMENT 1-2
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUNDWATER

See instruction

Description of Sampling Event: 4th Quarter Chloroform 2012

Location (well name): TW4-12

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-12_10032012

Date and Time for Purging: 10/2/2012 and Sampling (if different): 10/3/2012

Well Purging Equip Used: [X] pump or [ ] bailer

Well Pump (if other than Bennet): Grundfos

Purging Method Used: [X] 2 casings [ ] 3 casings

Sampling Event: Quarterly Chloroform

Prev. Well Sampled in Sampling Event: TW4-03

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 999 µMHOS/ cm

Well Depth(0.01ft): 101.50

Depth to Water Before Purging: 41.00

Casing Volume (V) 4" Well: 39.50 (.653h)
3" Well: 0 (.367h)

Conductance (avg): 1067

pH of Water (avg): 7.00

Well Water Temp. (avg): 14.63

Redox Potential (Eh): 336

Turbidity: 9.3

Weather Cond.: Clear

Ext'l Amb. Temp. °C (prior sampling event): 16°

Time	0806	Gal. Purged	50
Conductance	1067	pH	7.00
Temp. °C	14.63		
Redox Potential Eh (mV)	337		
Turbidity (NTU)	9.6		

Time	0807	Gal. Purged	60
Conductance	1067	pH	7.00
Temp. °C	14.63		
Redox Potential Eh (mV)	336		
Turbidity (NTU)	9.4		

Time	0808	Gal. Purged	70
Conductance	1069	pH	7.00
Temp. °C	14.63		
Redox Potential Eh (mV)	336		
Turbidity (NTU)	9.2		

Time	0809	Gal. Purged	80
Conductance	1068	pH	7.01
Temp. °C	14.63		
Redox Potential Eh (mV)	335		
Turbidity (NTU)	9.2		

Volume of Water Purged: 80 gallon(s)

Pumping Rate Calculation

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

Time to evacuate two casing volumes (2V)
T = 2V/Q = 7.90

Number of casing volumes evacuated (if other than two): 0

If well evacuated to dryness, number of gallons evacuated: 0

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

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	☒	☐	3x40 ml	☐	☒	HCL	☒	☐
Nutrients	☒	☐	100 ml	☐	☒	H2SO4	☒	☐
Heavy Metals	☐	☐	250 ml	☐	☐	HNO3	☐	☐
All Other Non Radiologics	☐	☐	250 ml	☐	☐	No Preserv.	☐	☐
Gross Alpha	☐	☐	1,000 ml	☐	☐	HNO3	☐	☐
Other (specify)	☒	☐	Sample volume	☐	☒		☐	☒
Chloride								

If preservative is used, specify Type and Quantity of Preservative:

Final Depth: 48.50 Sample Time: 0934

See instruction

Comment

Arrived on site at 0758. Tanner and Garrin present for purge. Purge began at 0801. Purged well for a total of 8 minutes. water was mostly clear. Purge ended at 0809. Left site at 0812.
Arrived on site at 0929. Tanner and Garrin present to collect samples. samples collected at 0934 Depth to water was 41.05 Left site at 0936

TW4-12 10-02-2012 Do not touch this cell (SheetName)

DENISON MINES

ATTACHMENT 1-2
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUNDWATER

See instruction

Description of Sampling Event: 4th Quarter Chloroform 2012

Location (well name): TW4-13

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-13_10032012

Date and Time for Purging: 10/2/2012 and Sampling (if different): 10/3/2012

Well Purging Equip Used: ☒ pump or ☐ bailer

Well Pump (if other than Bennet): Grundfos

Purging Method Used: ☒ 2 casings ☐ 3 casings

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: 999 µMHOS/ cm

Well Depth(0.01ft): 102.50

Depth to Water Before Purging: 46.78

Casing Volume (V) 4" Well: 36.38 (.653h)
3" Well: 0 (.367h)

Conductance (avg): 1592

pH of Water (avg): 7.03

Well Water Temp. (avg): 14.85

Redox Potential (Eh): 325

Turbidity: 33.7

Weather Cond.: Clear

Ext'l Amb. Temp. °C (prior sampling event): 17°

Time	0838	Gal. Purged	55
Conductance	1592	pH	7.03
Temp. °C	14.85		
Redox Potential Eh (mV)	325		
Turbidity (NTU)	33.7		

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time	0940	Gal. Purged	0
Conductance	1609	pH	7.03
Temp. °C	14.53		
Redox Potential Eh (mV)	174		
Turbidity (NTU)	0.3		

Before

Time	0942	Gal. Purged	0
Conductance	1603	pH	7.01
Temp. °C	14.49		
Redox Potential Eh (mV)	170		
Turbidity (NTU)	3.9		

After

Volume of Water Purged: Before 55 gallon(s) After

Pumping Rate Calculation

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

Time to evacuate two casing volumes (2V)
T = 2V/Q = 7.27

Number of casing volumes evacuated (if other than two) 1.51

If well evacuated to dryness, number of gallons evacuated 55

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

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	☒	☐	3x40 ml	☐	☒	HCL	☒	☐
Nutrients	☒	☐	100 ml	☐	☒	H2SO4	☒	☐
Heavy Metals	☐	☐	250 ml	☐	☐	HNO3	☐	☐
All Other Non Radiologics	☐	☐	250 ml	☐	☐	No Preserv.	☐	☐
Gross Alpha	☐	☐	1,000 ml	☐	☐	HNO3	☐	☐
Other (specify)	☒	☐	Sample volume	☐	☒		☐	☒
Chloride								

If preservative is used, specify Type and Quantity of Preservative:

Final Depth 101.00 Sample Time 0940

See instruction

Comment

Arrived on site at 0831. Tanner and Garrin present for purge. Purge began at 0833 Purged well for a total of 5 minutes and 30 seconds. Purged well dry. Water was mostly clear. Purge ended at 0838. Left site at 0841
Arrived on site at 0936. Tanner and Garrin present to collect samples. Depth to water was 47.15 Samples collected at 0940 Left site at 0943

TW4-13 10-02-2012 Do not touch this cell (SheetName)

DENISON MINES

ATTACHMENT 1-2
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUNDWATER

See instruction

Description of Sampling Event: 4Th Quarter Chloroform 2012

Location (well name): ~~TW4-18~~ TW4-14 TW4-14

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-14_10032012

Date and Time for Purging: 10/2/2012 and Sampling (if different): 10/3/2012

Well Purging Equip Used: ☒ pump or ☐ bailer

Well Pump (if other than Bennet): Grundfos

Purging Method Used: ☒ 2 casings ☐ 3 casings

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: 999 µMHOS/ cm

Well Depth(0.01ft): 93.00

Depth to Water Before Purging: 86.41

Casing Volume (V) 4" Well: 4.30 (.653h)
3" Well: 0 (.367h)

Conductance (avg): 661

pH of Water (avg): 7.40

Well Water Temp. (avg): 21.32

Redox Potential (Eh): 346

Turbidity: 147.5

Weather Cond.: Clear

Ext'l Amb. Temp. °C (prior sampling event): 17°

Time	0905	Gal. Purged	5
Conductance	661	pH	7.40
Temp. °C	21.32		
Redox Potential Eh (mV)	346		
Turbidity (NTU)	147.5		

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time	0946	Gal. Purged	0
Conductance	3488	pH	7.14
Temp. °C	15.15		
Redox Potential Eh (mV)	205		
Turbidity (NTU)	11.0		

Before

Time	0948	Gal. Purged	0
Conductance	3502	pH	7.08
Temp. °C	15.08		
Redox Potential Eh (mV)	197		
Turbidity (NTU)	13.9		

After

Before / After

Volume of Water Purged: 5 gallon(s)

Pumping Rate Calculation

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

Time to evacuate two casing volumes (2V)
T = 2V/Q = .86

Number of casing volumes evacuated (if other than two): 1.16

If well evacuated to dryness, number of gallons evacuated: 5

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

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	☒	☐	3x40 ml	☐	☒	HCL	☒	☐
Nutrients	☒	☐	100 ml	☐	☒	H2SO4	☒	☐
Heavy Metals	☐	☐	250 ml	☐	☐	HNO3	☐	☐
All Other Non Radiologics	☐	☐	250 ml	☐	☐	No Preserv.	☐	☐
Gross Alpha	☐	☐	1,000 ml	☐	☐	HNO3	☐	☐
Other (specify)	☒	☐	Sample volume	☐	☒		☒	☒
Chloroform.								
Chloride								

If preservative is used, specify Type and Quantity of Preservative:

Final Depth: 91.37 Sample Time: 0946

See instruction

Comment

Arrived on site at 0902. Tanner and Garrin present for purge. Purge began at 0904
Purged well for 30 seconds. Purged well dry. Purge ended at 0905. Left site at 0908.
not enough water in well to fully clear out the hose.
Arrived on site at 0943. Tanner and Garrin present to collect samples
Depth to water was 89.98. samples bailed at 0946. Left site at 0948

TW4-14 10-02-2012 Do not touch this cell (SheetName)

DENISON MINES

ATTACHMENT 1-2
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUNDWATER

See instruction

Description of Sampling Event: 4th Quarter Chloroform 2012

Location (well name): MW-26

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: MW-26_10042012

Date and Time for Purging: 10/4/2012 and Sampling (if different): N/A

Well Purging Equip Used: ☒ pump or ☐ bailer

Well Pump (if other than Bennet): Grundfos - Continuous

Purging Method Used: ☐ 2 casings ☐ 3 casings

Sampling Event: Quarterly Chloroform

Prev. Well Sampled in Sampling Event: TW4-02

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 999 µMHOS/ cm

Well Depth(0.01ft): ~~121.33~~ 122.50

Depth to Water Before Purging: 58.39

Casing Volume (V) 4" Well: 41.86 (.653h)
3" Well: 0 (.367h)

Conductance (avg): 3377

pH of Water (avg): 6.65

Well Water Temp. (avg): 14.40

Redox Potential (Eh): 177

Turbidity: 0

Weather Cond.: Partly Cloudy

Ext'l Amb. Temp. °C (prior sampling event): 13°

Time	0758	Gal. Purged	0
Conductance	3377	pH	6.65
Temp. °C	14.40		
Redox Potential Eh (mV)	177		
Turbidity (NTU)	0		

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Volume of Water Purged: 0 gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = 10.4

Time to evacuate two casing volumes (2V)
T = 2V/Q = 0

Number of casing volumes evacuated (if other than two): 0

If well evacuated to dryness, number of gallons evacuated: 0

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

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	☒	☐	3x40 ml	☐	☒	HCL	☒	☐
Nutrients	☒	☐	100 ml	☐	☒	H2SO4	☒	☐
Heavy Metals	☐	☐	250 ml	☐	☐	HNO3	☐	☐
All Other Non Radiologics	☐	☐	250 ml	☐	☐	No Preserv.	☐	☐
Gross Alpha	☐	☐	1,000 ml	☐	☐	HNO3	☐	☐
Other (specify)	☒	☐	Sample volume	☐	☒		☐	☒
Chloride								

If preservative is used, specify Type and Quantity of Preservative:

Final Depth: 79.92 Sample Time: 0759

See instruction

Comment

Arrived on site at 0754. Tanner and Garrin present for sampling event. Samples pulled at 0759. water was clear. Left site at 0801

MW-26 10-04-2012 Do not touch this cell (SheetName)

DENISON MINES

ATTACHMENT 1-2
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUNDWATER

See instruction

Description of Sampling Event: 4Th Quarter Chloroform 2012

Location (well name): TW4-16

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-16_10032012

Date and Time for Purging: 10/2/2012 and Sampling (if different): 10/3/2012

Well Purging Equip Used: [X] pump or [ ] bailer

Well Pump (if other than Bennet): Grundfos

Purging Method Used: [X] 2 casings [ ] 3 casings

Sampling Event: Quarterly Chloroform

Prev. Well Sampled in Sampling Event: TW4-09

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 999 µMHOS/ cm

Well Depth(0.01ft): 142.00

Depth to Water Before Purging: 59.30

Casing Volume (V) 4" Well: 54.00 (.653h)
3" Well: 0 (.367h)

Conductance (avg): 2125

pH of Water (avg): 6.46

Well Water Temp. (avg): 15.00

Redox Potential (Eh): 42

Turbidity: 590

Weather Cond.: Clear

Ext'l Amb. Temp. °C (prior sampling event): 20°

Time	1200	Gal. Purged	90
Conductance	2151	pH	6.47
Temp. °C	14.99		
Redox Potential Eh (mV)	44		
Turbidity (NTU)	576		

Time	1201	Gal. Purged	100
Conductance	2124	pH	6.46
Temp. °C	14.99		
Redox Potential Eh (mV)	43		
Turbidity (NTU)	580		

Time	1202	Gal. Purged	110
Conductance	2121	pH	6.46
Temp. °C	15.01		
Redox Potential Eh (mV)	41		
Turbidity (NTU)	597		

Time	1203	Gal. Purged	120
Conductance	2106	pH	6.47
Temp. °C	15.02		
Redox Potential Eh (mV)	40		
Turbidity (NTU)	616		

Volume of Water Purged: 120 gallon(s)

Pumping Rate Calculation

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

Time to evacuate two casing volumes (2V)
T = 2V/Q = 10.80

Number of casing volumes evacuated (if other than two): 0

If well evacuated to dryness, number of gallons evacuated: 0

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

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	☒	☐	3x40 ml	☐	☒	HCL	☒	☐
Nutrients	☒	☐	100 ml	☐	☒	H2SO4	☒	☐
Heavy Metals	☐	☐	250 ml	☐	☐	HNO3	☐	☐
All Other Non Radiologics	☐	☐	250 ml	☐	☐	No Preserv.	☐	☐
Gross Alpha	☐	☐	1,000 ml	☐	☐	HNO3	☐	☐
Other (specify)	☒	☐	Sample volume	☐	☒		☐	☒
Chloride								

If preservative is used, specify Type and Quantity of Preservative:

Final Depth: 121.16 Sample Time: 1100

See instruction

Comment

Arrived on site at 1148 Tanner and Garrin present for purge. Purge began at 1151 Purged well for a total of 12 minutes. Water was Dirty with sand and a Brown color. Slowly cleared throughout purge. Purge ended at 1203. Left site at 1206. Arrived on site at 1056. Tanner and Garrin present to collect samples Depth to water was 59.70 Samples bailed at 1100. Left site at 1102

TW4-16 10-02-2012 Do not touch this cell (SheetName)

DENISON MINES

ATTACHMENT 1-2
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUNDWATER

See instruction

Description of Sampling Event: 4th Quarter Chloroform 2012

Location (well name): MW-32

Sampler Name and initials: Garrin Palmer / GP

Field Sample ID: MW-32_10102012

Date and Time for Purging: 10/10/2012 and Sampling (if different): NA

Well Purging Equip Used: ☒ pump or ☐ bailer

Well Pump (if other than Bennet): QED

Purging Method Used: ☒ 2 casings ☐ 3 casings

Sampling Event: Quarterly Chloroform

Prev. Well Sampled in Sampling Event: MW-04

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 999 µMHOS/ cm

Well Depth(0.01ft): 130.6

Depth to Water Before Purging: 74.27

Casing Volume (V) 4" Well: 36.78 (.653h)
3" Well: 0 (.367h)

Conductance (avg): 3832

pH of Water (avg): 6.42

Well Water Temp. (avg): 14.97

Redox Potential (Eh): 280

Turbidity: 4.0

Weather Cond.: Clear

Ext'l Amb. Temp. °C (prior sampling event): 15°

Time	1316	Gal. Purged	75.08
Conductance	3825	pH	6.44
Temp. °C	15.00		
Redox Potential Eh (mV)	277		
Turbidity (NTU)	4.0		

Time	1317	Gal. Purged	75.29
Conductance	3832	pH	6.43
Temp. °C	14.94		
Redox Potential Eh (mV)	281		
Turbidity (NTU)	4.1		

Time	1318	Gal. Purged	75.51
Conductance	3841	pH	6.42
Temp. °C	15.02		
Redox Potential Eh (mV)	283		
Turbidity (NTU)	4.1		

Time	1319	Gal. Purged	75.73
Conductance	3830	pH	6.42
Temp. °C	14.95		
Redox Potential Eh (mV)	280		
Turbidity (NTU)	4.0		

Volume of Water Purged: 75.95 gallon(s)

Pumping Rate Calculation

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

Time to evacuate two casing volumes (2V)
T = 2V/Q = 338.98

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

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

Name of Certified Analytical Laboratory if Other Than Energy Labs: NA

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	☒	☐	3x40 ml	☐	☒	HCL	☒	☐
Nutrients	☒	☐	100 ml	☐	☒	H2SO4	☒	☐
Heavy Metals	☐	☐	250 ml	☐	☐	HNO3	☐	☐
All Other Non Radiologics	☐	☐	250 ml	☐	☐	No Preserv.	☐	☐
Gross Alpha	☐	☐	1,000 ml	☐	☐	HNO3	☐	☐
Other (specify)	☒	☐	Sample volume	☐	☒		☐	☒
Chloride								

If preservative is used, specify Type and Quantity of Preservative:

Final Depth: 79.85 Sample Time: 1320

See instruction

Comment

Arrived on site at 0725. Garrin present for purge and sampling event. Purge at 0730. Water was clear throughout purge. Purge ended at 1319. Samples were collected at 1320. Purged well for a total of 350 minutes. Left site at 1325.

MW-32 10-10-2012 Do not touch this cell (SheetName)

DENISON MINES

ATTACHMENT 1-2
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUNDWATER

See instruction

Description of Sampling Event: 4Th Quarter Chloroform

Location (well name): TW4-18

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-18_10032012

Date and Time for Purging: 10/2/2012 and Sampling (if different): 10/3/2012

Well Purging Equip Used: [X] pump or [ ] bailer

Well Pump (if other than Bennet): Grundfos

Purging Method Used: [X] 2 casings [ ] 3 casings

Sampling Event: Quarterly Chloroform

Prev. Well Sampled in Sampling Event: TW4-05

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 999 µMHOS/ cm

Well Depth(0.01ft): 137.50

Depth to Water Before Purging: 57.21

Casing Volume (V) 4" Well: 52.49 (.653h)
3" Well: 0 (.367h)

Conductance (avg): 2055

pH of Water (avg): 6.12

Well Water Temp. (avg): 15.52

Redox Potential (Eh): 117

Turbidity: 737

Weather Cond.: Clear

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

Time	Gal. Purged	Conductance	pH	Temp. °C	Redox Potential Eh (mV)	Turbidity (NTU)
1625	80	2072	6.14	15.52	116	716
1626	90	2070	6.12	15.52	117	735
1627	100	2045	6.12	15.52	118	740
1628	110	2035	6.11	15.52	118	760

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Volume of Water Purged: 110 gallon(s)

Pumping Rate Calculation

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

Time to evacuate two casing volumes (2V)
T = 2V/Q = 10.48

Number of casing volumes evacuated (if other than two): 0

If well evacuated to dryness, number of gallons evacuated: 0

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

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	☒	☐	3x40 ml	☐	☒	HCL	☒	☐
Nutrients	☒	☐	100 ml	☐	☒	H2SO4	☒	☐
Heavy Metals	☐	☐	250 ml	☐	☐	HNO3	☐	☐
All Other Non Radiologics	☐	☐	250 ml	☐	☐	No Preserv.	☐	☐
Gross Alpha	☐	☐	1,000 ml	☐	☐	HNO3	☐	☐
Other (specify)	☒	☐	Sample volume	☐	☒		☐	☒
Chloride								

If preservative is used, specify Type and Quantity of Preservative:

Final Depth: 57.68 (57.68)

Sample Time: 0832

See instruction

Comment

Arrived on site at 1612. Tanner, Garrin, Deen, Tom all present for purge. Purge began at 1617. Purged well for a total of 11 minutes. water was Murky and dirty. Purge ended at 1628. Left site at 1632.

Arrived on site at 0826. Tanner Garrin Deen Tom all present to collect samples. Depth to water was 57.27 samples bailed at 0832. Left site at 0836

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DENISON MINES

ATTACHMENT 1-2
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUNDWATER

See instruction

Description of Sampling Event: 4Th Quarter chloroform 2012

Location (well name): TW4-19

Sampler Name and initials: Tanner Holliday/JH

Field Sample ID: TW4-19_10032012

Date and Time for Purging: 10/3/2012 and Sampling (if different): N/A

Well Purging Equip Used: ☒ pump or ☐ bailer

Well Pump (if other than Bennet): Continuous

Purging Method Used: ☐ 2 casings ☐ 3 casings

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: 999 µMHOS/ cm

Well Depth(0.01ft): 125.00

Depth to Water Before Purging: 56.80

Casing Volume (V) 4" Well: 44.53 (.653h)
3" Well: 0 (.367h)

Conductance (avg): 2801

pH of Water (avg): 6.82

Well Water Temp. (avg): 15.01

Redox Potential (Eh): 204

Turbidity: 2.1

Weather Cond.: Partly Cloudy

Ext'l Amb. Temp. °C (prior sampling event): 14°

Time	0853	Gal. Purged	0
Conductance	2801	pH	6.82
Temp. °C	15.01		
Redox Potential Eh (mV)	204		
Turbidity (NTU)	2.1		

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Volume of Water Purged: 0 gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = 14.0

Time to evacuate two casing volumes (2V)
T = 2V/Q = 0

Number of casing volumes evacuated (if other than two): 0

If well evacuated to dryness, number of gallons evacuated: 0

Name of Certified Analytical Laboratory if Other Than Energy Labs: 0

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	☒	☐	3x40 ml	☐	☒	HCL	☒	☐
Nutrients	☒	☐	100 ml	☐	☒	H2SO4	☒	☐
Heavy Metals	☐	☐	250 ml	☐	☐	HNO3	☐	☐
All Other Non Radiologics	☐	☐	250 ml	☐	☐	No Preserv.	☐	☐
Gross Alpha	☐	☐	1,000 ml	☐	☐	HNO3	☐	☐
Other (specify)	☒	☐	Sample volume	☐	☒		☐	☒
Chloride								

If preservative is used, specify Type and Quantity of Preservative:

Final Depth: 69.87 Sample Time: 0854

See instruction

Comment

Arrived on site at 0846. Tanner Garrin Deen Tom all present to collect samples. Samples collected at 0854. Water was clear.
Left site at 0858

TW4-19 10-03-2012 Do not touch this cell (SheetName)

DENISON MINES

ATTACHMENT 1-2
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUNDWATER

See instruction

Description of Sampling Event: 4th Quarter Chloroform 2012

Location (well name): TW4-20

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-20_10032012

Date and Time for Purging: 10/3/2012 and Sampling (if different): N/A

Well Purging Equip Used: ☒ pump or ☐ bailer

Well Pump (if other than Bennet): Continuous

Purging Method Used: ☐ 2 casings ☐ 3 casings

Sampling Event: Quarterly Chloroform

Prev. Well Sampled in Sampling Event: TW4-04

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 999 µMHOS/ cm

Well Depth(0.01ft): 106.00

Depth to Water Before Purging: 55.95

Casing Volume (V) 4" Well: 32.68 (.653h)
3" Well: 0 (.367h)

Conductance (avg): 4055

pH of Water (avg): 6.32

Well Water Temp. (avg): 14.91

Redox Potential (Eh): 214

Turbidity: 4.4

Weather Cond.: Partly Cloudy

Ext'l Amb. Temp. °C (prior sampling event): 13°

Time	0808	Gal. Purged	0
Conductance	4055	pH	6.32
Temp. °C	14.91		
Redox Potential Eh (mV)	214		
Turbidity (NTU)	4.4		

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Volume of Water Purged: 0 gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = 10.4

Time to evacuate two casing volumes (2V)
T = 2V/Q = 0

Number of casing volumes evacuated (if other than two): 0

If well evacuated to dryness, number of gallons evacuated: 0

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

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	☒	☐	3x40 ml	☐	☒	HCL	☒	☐
Nutrients	☒	☐	100 ml	☐	☒	H2SO4	☒	☐
Heavy Metals	☐	☐	250 ml	☐	☐	HNO3	☐	☐
All Other Non Radiologics	☐	☐	250 ml	☐	☐	No Preserv.	☐	☐
Gross Alpha	☐	☐	1,000 ml	☐	☐	HNO3	☐	☐
Other (specify)	☒	☐	Sample volume	☐	☒		☐	☒
Chloride								

If preservative is used, specify Type and Quantity of Preservative:

Final Depth: 97.83 Sample Time: 0809

See instruction

Comment

Arrived on site at 0803. Tanner Garrin Deen Tom all present to collect samples. Samples collected at 0809. water was mostly clear. Left site at 0820

TW4-20 10-03-2012 Do not touch this cell (SheetName)

DENISON MINES

ATTACHMENT 1-2
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUNDWATER

See instruction

Description of Sampling Event: 4th Quarter Chloroform 2012

Location (well name): TW4-21

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-21_10042012

Date and Time for Purging: 10/3/2012 and Sampling (if different): 10/4/2012

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

Purging Method Used: [X] 2 casings [ ] 3 casings

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: 999 µMHOS/ cm Well Depth(0.01ft): 121.00

Depth to Water Before Purging: 54.15 Casing Volume (V) 4" Well: 43.65 (.653h)
3" Well: 0 (.367h)

Conductance (avg): 3462 pH of Water (avg): 6.85

Well Water Temp. (avg): 16.14 Redox Potential (Eh): 215 Turbidity: 156

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

Time	1254	Gal. Purged	60
Conductance	3446	pH	6.86
Temp. °C	16.16		
Redox Potential Eh (mV)	216		
Turbidity (NTU)	148		

Time	1255	Gal. Purged	70
Conductance	3451	pH	6.85
Temp. °C	16.15		
Redox Potential Eh (mV)	215		
Turbidity (NTU)	154		

Time	1256	Gal. Purged	80
Conductance	3472	pH	6.85
Temp. °C	16.13		
Redox Potential Eh (mV)	215		
Turbidity (NTU)	159		

Time	1257	Gal. Purged	90
Conductance	3481	pH	6.84
Temp. °C	16.12		
Redox Potential Eh (mV)	215		
Turbidity (NTU)	163		

Volume of Water Purged: 90 gallon(s)

Pumping Rate Calculation

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

Time to evacuate two casing volumes (2V)
T = 2V/Q = 8.73

Number of casing volumes evacuated (if other than two): 0

If well evacuated to dryness, number of gallons evacuated: 0

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

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	☒	☐	3x40 ml	☐	☒	HCL	☒	☐
Nutrients	☒	☐	100 ml	☐	☒	H2SO4	☒	☐
Heavy Metals	☐	☐	250 ml	☐	☐	HNO3	☐	☐
All Other Non Radiologics	☐	☐	250 ml	☐	☐	No Preserv.	☐	☐
Gross Alpha	☐	☐	1,000 ml	☐	☐	HNO3	☐	☐
Other (specify)	☒	☐	Sample volume	☐	☒		☐	☒
Chloride								

If preservative is used, specify Type and Quantity of Preservative:

Final Depth: 79.13 Sample Time: 0646

See instruction

Comment

Arrived on site at 1246. Tanner and Garrin present for purge. purge began at 1248. Purged well for a total of 9 minutes. Water was clear through most the purge. Towards the end it got murky. Purge ended at 1257. Left site at 1259
Arrived on site at 0639. Tanner and Garrin on site to collect samples. Depth to water was 54.10 Samples bailed at 0646 Left site at 0650

TW4-21 10-03-2012 Do not touch this cell (SheetName)

DENISON MINES

ATTACHMENT 1-2
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUNDWATER

See instruction

Description of Sampling Event: 4th Quarter Chloroform 2012

Location (well name): TW4-21R

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-21R_10032012

Date and Time for Purging: 10/3/2012 and Sampling (if different): N/A

Well Purging Equip Used: ☒ pump or ☐ bailer

Well Pump (if other than Bennet): Grundfos

Purging Method Used: ☐ 2 casings ☐ 3 casings

Sampling Event: Quarterly Chloroform

Prev. Well Sampled in Sampling Event: TW4-19

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 999 µMHOS/ cm

Well Depth(0.01ft): 0

Depth to Water Before Purging: 0

Casing Volume (V) 4" Well: 0 (.653h)
3" Well: 0 (.367h)

Conductance (avg): 5.5

pH of Water (avg): 6.66

Well Water Temp. (avg): 24.50

Redox Potential (Eh): 166

Turbidity: 0

Weather Cond.: Partly Cloudy

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

Time	1235	Gal. Purged	130
Conductance	5.5	pH	6.66
Temp. °C	24.50		
Redox Potential Eh (mV)	166		
Turbidity (NTU)	0		

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Volume of Water Purged: 150 gallon(s)

Pumping Rate Calculation

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

Time to evacuate two casing volumes (2V)
T = 2V/Q = 0

Number of casing volumes evacuated (if other than two): 0

If well evacuated to dryness, number of gallons evacuated: 0

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

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	☒	☐	3x40 ml	☐	☒	HCL	☒	☐
Nutrients	☒	☐	100 ml	☐	☒	H2SO4	☒	☐
Heavy Metals	☐	☐	250 ml	☐	☐	HNO3	☐	☐
All Other Non Radiologics	☐	☐	250 ml	☐	☐	No Preserv.	☐	☐
Gross Alpha	☐	☐	1,000 ml	☐	☐	HNO3	☐	☐
Other (specify)	☒	☐	Sample volume	☐	☒		☐	☒
Chloride								

If preservative is used, specify Type and Quantity of Preservative:

Final Depth: 0 Sample Time: 1237

See instruction

Comment

Arrived on site at 1220. Rinsate began at 1222. Tanner and Garrin present for Rinsate. ~~Rinsate bag~~ Pumped 50 Gallons of soap water and ~~150~~ 100 Gallons of DI water. Rinsate ended and samples collected at 1237 Left site at 1240

TW4-21R 10-03-2012 Do not touch this cell (SheetName)

DENISON MINES

ATTACHMENT 1-2
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUNDWATER

See instruction

Description of Sampling Event: 4th Quarter Chloroform 2012

Location (well name): TW4-22

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-22_10042012

Date and Time for Purging: 10/3/2012 and Sampling (if different): 10/4/2012

Well Purging Equip Used: [X] pump or [ ] bailer

Well Pump (if other than Bennet): Grundfos

Purging Method Used: [X] 2 casings [ ] 3 casings

Sampling Event: Quarterly Chloroform

Prev. Well Sampled in Sampling Event: TW4-07

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 999 µMHOS/ cm

Well Depth(0.01ft): 113.50

Depth to Water Before Purging: 52.98

Casing Volume (V) 4" Well: 39.51 (.653h)
3" Well: 0 (.367h)

Conductance (avg): 3741

pH of Water (avg): 6.83

Well Water Temp. (avg): 15.96

Redox Potential (Eh): 189

Turbidity: 5.7

Weather Cond.: ~~Clr~~ Partly Cloudy

Ext'l Amb. Temp. °C (prior sampling event): 24°

Time	1436	Gal. Purged	65
Conductance	3741	pH	6.83
Temp. °C	15.96		
Redox Potential Eh (mV)	189		
Turbidity (NTU)	5.7		

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time	0725	Gal. Purged	0
Conductance	1312	pH	7.16
Temp. °C	14.35		
Redox Potential Eh (mV)	170		
Turbidity (NTU)	3.0		

Before

Time	0727	Gal. Purged	0
Conductance	1315	pH	7.15
Temp. °C	14.41		
Redox Potential Eh (mV)	163		
Turbidity (NTU)	8.9		

After

Before / After

Volume of Water Purged: 65 gallon(s)

Pumping Rate Calculation

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

Time to evacuate two casing volumes (2V)
T = 2V/Q = 7.90

Number of casing volumes evacuated (if other than two) ~~0.~~ 1.64

If well evacuated to dryness, number of gallons evacuated ~~0~~ 65

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

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	☒	☐	3x40 ml	☐	☒	HCL	☒	☐
Nutrients	☒	☐	100 ml	☐	☒	H2SO4	☒	☐
Heavy Metals	☐	☐	250 ml	☐	☐	HNO3	☐	☐
All Other Non Radiologics	☐	☐	250 ml	☐	☐	No Preserv.	☐	☐
Gross Alpha	☐	☐	1,000 ml	☐	☐	HNO3	☐	☐
Other (specify)	☒	☐	Sample volume	☐	☒		☐	☒
Chloride								

If preservative is used, specify Type and Quantity of Preservative:

Final Depth: 112.10 Sample Time: 0725

See instruction

Comment

Arrived on site at 1427 Tanner Holliday and Garrin Palmer present for purge Purge began at 1430. Purged well for a total of 6 minutes and 30 seconds. Purged well dry! Purge ended at 1436, water was clear. Left site at 1439 Arrived on site at 0721. Tanner and Garrin present to collect samples. Depth to water was 53.01. Samples bailed at 0725 Left site at 0728

TW4-22 10-03-2012 Do not touch this cell (SheetName)

DENISON MINES

ATTACHMENT 1-2
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUNDWATER

See instruction

Description of Sampling Event: 4th Quarter Chloroform 2012

Location (well name): TW4-23

Sampler Name and initials: Tanner Holliday /TH

Field Sample ID: TW4-23_10032012

Date and Time for Purging: 10/2/2012 and Sampling (if different): 10/3/2012

Well Purging Equip Used: ☒ pump or ☐ bailer

Well Pump (if other than Bennet): Grundfos

Purging Method Used: ☒ 2 casings ☐ 3 casings

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: 999 µMHOS/ cm

Well Depth(0.01ft): 114.00

Depth to Water Before Purging: 64.40

Casing Volume (V) 4" Well: 32.38 (.653h)
3" Well: 0 (.367h)

Conductance (avg): 3616

pH of Water (avg): 6.39

Well Water Temp. (avg): 14.34

Redox Potential (Eh): 203

Turbidity: 393

Weather Cond.: Clear

Ext'l Amb. Temp. °C (prior sampling event): 18°

Time	0935	Gal. Purged	40
Conductance	3613	pH	6.40
Temp. °C	14.36		
Redox Potential Eh (mV)	204		
Turbidity (NTU)	373		

Time	0936	Gal. Purged	50
Conductance	3610	pH	6.40
Temp. °C	14.34		
Redox Potential Eh (mV)	203		
Turbidity (NTU)	390		

Time	0937	Gal. Purged	60
Conductance	3623	pH	6.40
Temp. °C	14.34		
Redox Potential Eh (mV)	203		
Turbidity (NTU)	401		

Time	0938	Gal. Purged	70
Conductance	3618	pH	6.38
Temp. °C	14.33		
Redox Potential Eh (mV)	203		
Turbidity (NTU)	410		

Volume of Water Purged: 70 gallon(s)

Pumping Rate Calculation

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

Time to evacuate two casing volumes (2V)
T = 2V/Q = 6.47

Number of casing volumes evacuated (if other than two): 0

If well evacuated to dryness, number of gallons evacuated: 0

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

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	☒	☐	3x40 ml	☐	☒	HCL	☒	☐
Nutrients	☒	☐	100 ml	☐	☒	H2SO4	☒	☐
Heavy Metals	☐	☐	250 ml	☐	☐	HNO3	☐	☐
All Other Non Radiologics	☐	☐	250 ml	☐	☐	No Preserv.	☐	☐
Gross Alpha	☐	☐	1,000 ml	☐	☐	HNO3	☐	☐
Other (specify)	☒	☐	Sample volume	☐	☒		☐	☒
Chloride								

If preservative is used, specify Type and Quantity of Preservative:

Final Depth: 80.55 Sample Time: 1014

See instruction

Comment

Arrived on site at 0928. Tanner and Garrin present for purge. Purge began at 0931 Purged well for a total of 7 minutes. water had an orange color to it. Purge ended at 0938. Left site at 0941.
Arrived on site at 1011. Tanner and Garrin present to collect samples. Depth to water was 64.39. Samples bailed at 1014 Left site at 1017

TW4-23 10-02-2012 Do not touch this cell (SheetName)

DENISON MINES

ATTACHMENT 1-2
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUNDWATER

See instruction

Description of Sampling Event: 4th Quarter Chloroform 2012

Location (well name): TW4-24

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-24_10032012

Date and Time for Purging: 10/2/2012 and Sampling (if different): 10/3/2012

Well Purging Equip Used: [X] pump or [ ] bailer

Well Pump (if other than Bennet): Grundfos

Purging Method Used: [X] 2 casings [ ] 3 casings

Sampling Event: Quarterly Chloroform

Prev. Well Sampled in Sampling Event: TW4-25

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 999 µMHOS/ cm

Well Depth(0.01ft): 112.50

Depth to Water Before Purging: 54.59

Casing Volume (V) 4" Well: 37.81 (.653h)
3" Well: 0 (.367h)

Conductance (avg): 9066

pH of Water (avg): 6.60

Well Water Temp. (avg): 15.53

Redox Potential (Eh): 63

Turbidity: 56.57

Weather Cond.: Clear

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

Time	1405	Gal. Purged	50
Conductance	8784	pH	6.64
Temp. °C	15.73		
Redox Potential Eh (mV)	65		
Turbidity (NTU)	53.6		

Time	1406	Gal. Purged	60
Conductance	8975	pH	6.59
Temp. °C	15.50		
Redox Potential Eh (mV)	63		
Turbidity (NTU)	56.5		

Time	1407	Gal. Purged	70
Conductance	9204	pH	6.59
Temp. °C	15.44		
Redox Potential Eh (mV)	63		
Turbidity (NTU)	57.1		

Time	1408	Gal. Purged	80
Conductance	9301	pH	6.58
Temp. °C	15.45		
Redox Potential Eh (mV)	63		
Turbidity (NTU)	59.1		

Volume of Water Purged: 80 gallon(s)

Pumping Rate Calculation

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

Time to evacuate two casing volumes (2V)
T = 2V/Q = 7.56

Number of casing volumes evacuated (if other than two): 0

If well evacuated to dryness, number of gallons evacuated: 0

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

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	☒	☐	3x40 ml	☐	☒	HCL	☒	☐
Nutrients	☒	☐	100 ml	☐	☒	H2SO4	☒	☐
Heavy Metals	☐	☐	250 ml	☐	☐	HNO3	☐	☐
All Other Non Radiologics	☐	☐	250 ml	☐	☐	No Preserv.	☐	☐
Gross Alpha	☐	☐	1,000 ml	☐	☐	HNO3	☐	☐
Other (specify)	☒	☐	Sample volume	☐	☒		☐	☒
Chloride								

If preservative is used, specify Type and Quantity of Preservative:

Final Depth: 61.20 Sample Time: 1053

See instruction

Comment

Arrived on site at 1355. Tanner and Garrin present for purge. Purge began at 1400 Purged well for a total of 8 minutes. water was mostly clear. Purge ended and at 1408, Left site at 1411

Arrived on site at 1048. Tanner and Garrin Present for sampling. Depth to water was 54.64. samples bailed at 1053 Left site at 1055

TW4-24 10-02-2012 Do not touch this cell (SheetName)

DENISON MINES

ATTACHMENT 1-2
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUNDWATER

See instruction

Description of Sampling Event: 4Th Quarter Chloroform 2012

Location (well name): TW4-25

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-25_10032012

Date and Time for Purging: 10/2/2012 and Sampling (if different): 10/3/2012

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

Purging Method Used: [X] 2 casings [ ] 3 casings

Sampling Event: Quarterly Chloroform Prev. Well Sampled in Sampling Event: TW4-27

pH Buffer 7.0: 7.0 pH Buffer 4.0: 4.0

Specific Conductance: 999 µMHOS/ cm Well Depth(0.01ft): 134.80

Depth to Water Before Purging: 49.30 Casing Volume (V) 4" Well: 55.83 (.653h)
3" Well: 0 (.367h)

Conductance (avg): 2897 pH of Water (avg): 6.98

Well Water Temp. (avg): 15.26 Redox Potential (Eh): 184 Turbidity: 180

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

Time	1319	Gal. Purged	90
Conductance	2914	pH	6.99
Temp. °C	15.25		
Redox Potential Eh (mV)	183		
Turbidity (NTU)	171		

Time	1320	Gal. Purged	100
Conductance	2902	pH	6.99
Temp. °C	15.27		
Redox Potential Eh (mV)	184		
Turbidity (NTU)	178		

Time	1321	Gal. Purged	110
Conductance	2891	pH	6.98
Temp. °C	15.26		
Redox Potential Eh (mV)	185		
Turbidity (NTU)	183		

Time	1322	Gal. Purged	120
Conductance	2884	pH	6.98
Temp. °C	15.26		
Redox Potential Eh (mV)	185		
Turbidity (NTU)	189		

Volume of Water Purged: 120 gallon(s)

Pumping Rate Calculation

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

Time to evacuate two casing volumes (2V)
T = 2V/Q = 11.16

Number of casing volumes evacuated (if other than two): 0

If well evacuated to dryness, number of gallons evacuated: 0

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

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	☒	☐	3x40 ml	☐	☒	HCL	☒	☐
Nutrients	☒	☐	100 ml	☐	☒	H2SO4	☒	☐
Heavy Metals	☐	☐	250 ml	☐	☐	HNO3	☐	☐
All Other Non Radiologics	☐	☐	250 ml	☐	☐	No Preserv.	☐	☐
Gross Alpha	☐	☐	1,000 ml	☐	☐	HNO3	☐	☐
Other (specify)	☒	☐	Sample volume	☐	☒		☐	☒
Chloride								

If preservative is used, specify Type and Quantity of Preservative:

Final Depth: 70.90 Sample Time: 1111

See instruction

Comment

Arrived on site at 1308. Tanner and Garrin present for purge. Purge began at 1310 Purged well for a total of 12 minutes. Water was murky. Purge ended at 1322. Left site at 1324.
Arrived on site at 1105. Tanner and Garrin present for sampling event. ~~Deptt~~ Depth to water was 49.32. Samples bailed at 1111. Left site at 1113

TW4-25 10-02-2012 Do not touch this cell (SheetName)

DENISON MINES

ATTACHMENT 1-2
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUNDWATER

See instruction

Description of Sampling Event: 4th Quarter Chloroform

Location (well name): TW4-26

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-26 10032012

Date and Time for Purging: 10/2/2012 and Sampling (if different): 10/3/2012

Well Purging Equip Used: [X] pump or [ ] bailer

Well Pump (if other than Bennet): Grundfos

Purging Method Used: [X] 2 casings [ ] 3 casings

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 µMHOS/ cm

Well Depth(0.01ft): 86.00

Depth to Water Before Purging: 63.00

Casing Volume (V) 4" Well: 15.01 (.653h)
3" Well: 0 (.367h)

Conductance (avg): 6272

pH of Water (avg): 4.26

Well Water Temp. (avg): 15.95

Redox Potential (Eh): 385

Turbidity: 158

Weather Cond.: Clear

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

Time	1437	Gal. Purged	20
Conductance	6272	pH	4.26
Temp. °C	15.95		
Redox Potential Eh (mV)	385		
Turbidity (NTU)	158		

Time		Gal. Purged	
Conductance		pH	
Temp. °C	15.99		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time	0721	Gal. Purged	0
Conductance	6246	pH	4.11
Temp. °C	13.20		
Redox Potential Eh (mV)	311		
Turbidity (NTU)	9.0		

Before

Time	0724	Gal. Purged	
Conductance	6248	pH	4.09
Temp. °C	13.30		
Redox Potential Eh (mV)	330		
Turbidity (NTU)	11.0		

After

Before / After

Volume of Water Purged: 20 gallon(s)

Pumping Rate Calculation

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

Time to evacuate two casing volumes (2V)
T = 2V/Q = 3.00

Number of casing volumes evacuated (if other than two): 1.33

If well evacuated to dryness, number of gallons evacuated: 20

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

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	☒	☐	3x40 ml	☐	☒	HCL	☒	☐
Nutrients	☒	☐	100 ml	☐	☒	H2SO4	☒	☐
Heavy Metals	☐	☐	250 ml	☐	☐	HNO3	☐	☐
All Other Non Radiologics	☐	☐	250 ml	☐	☐	No Preserv.	☐	☐
Gross Alpha	☐	☐	1,000 ml	☐	☐	HNO3	☐	☐
Other (specify)	☒	☐	Sample volume	☐	☒		☐	☒
Chloride								

If preservative is used, specify Type and Quantity of Preservative:

Final Depth: 84.91 Sample Time: 0721

See instruction

Comment

Arrived on site at 1431 Tanner, Garrin, Deen, Tom all on site for purge.
Purge began at 1435. Purged well for a total of 2 minutes.
Purged well dry. Purge ended at 1437
Arrived on site at 0716. Tanner Deen Garrin Tom all present to collect samples.
Depth to ~~was~~ water was 63.10. Samples bailed at 0721. Left site at 0726

TW4-26 10-02-2012 Do not touch this cell (SheetName)

DENISON MINES

ATTACHMENT 1-2
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUNDWATER

See instruction

Description of Sampling Event: 4th Quarter Chloroform 2012

Location (well name): TW4-27

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-27_10032012

Date and Time for Purging: 10/2/2012 and Sampling (if different): 10/3/2012

Well Purging Equip Used: ☑ pump or ☐ bailer

Well Pump (if other than Bennet): Grundfos

Purging Method Used: ☒ 2 casings ☐ 3 casings

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 µMHOS/ cm

Well Depth(0.01ft): 96.00

Depth to Water Before Purging: 82.32

Casing Volume (V) 4" Well: 8.93 (.653h)
3" Well: 0 (.367h)

Conductance (avg): 5237

pH of Water (avg): 7.04

Well Water Temp. (avg): 17.31

Redox Potential (Eh): 171

Turbidity: 110

Weather Cond.: Clear

Ext'l Amb. Temp. °C (prior sampling event): 22°

Time	1229	Gal. Purged	7.5
Conductance	5237	pH	7.04
Temp. °C	17.31		
Redox Potential Eh (mV)	171		
Turbidity (NTU)	110		

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time	0704	Gal. Purged	
Conductance	5046	pH	5.74
Temp. °C	14.78		
Redox Potential Eh (mV)	233		
Turbidity (NTU)	20.3		

Before

Time	0707	Gal. Purged	
Conductance	5240	pH	5.91
Temp. °C	14.51		
Redox Potential Eh (mV)	237		
Turbidity (NTU)	20.6		

After

Before / After

Volume of Water Purged: 7.5 gallon(s)

Pumping Rate Calculation

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

Time to evacuate two casing volumes (2V)
T = 2V/Q = 1.78

Number of casing volumes evacuated (if other than two): .83

If well evacuated to dryness, number of gallons evacuated: 7.5

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

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	☒	☐	3x40 ml	☐	☒	HCL	☒	☐
Nutrients	☒	☐	100 ml	☐	☒	H2SO4	☒	☐
Heavy Metals	☐	☐	250 ml	☐	☐	HNO3	☐	☐
All Other Non Radiologics	☐	☐	250 ml	☐	☐	No Preserv.	☐	☐
Gross Alpha	☐	☐	1,000 ml	☐	☐	HNO3	☐	☐
Other (specify)	☒	☐	Sample volume	☐	☒		☐	☒
Chloride								

If preservative is used, specify Type and Quantity of Preservative:

Final Depth: 94.69 Sample Time: 0704

See instruction

Comment

Arrived on site at 1226 Tanner Holliday and Garrin Palmer present for purge. Purge began at 1229. Purged well for 45 seconds. Purged well dry! Water was a little murky. Purge ended at 1230. Left site at 1233
Arrived on site at 0654 Tanner, Garrin, Tom, Deen all present to collect samples. Depth to water was 82.68. Samples were bailed at 0704. Left site at 0710

TW4-27 10-02-2012 Do not touch this cell (SheetName)

DENISON MINES

ATTACHMENT 1-2
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUNDWATER

See instruction

Description of Sampling Event: 4TH Quarter Chloroform 2012

Location (well name): TW4-60

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-60_10042012

Date and Time for Purging: 10/4/2012 and Sampling (if different): N/A

Well Purging Equip Used: ☐ pump or ☐ bailer

Well Pump (if other than Bennet): N/A

Purging Method Used: ☐ 2 casings ☐ 3 casings

Sampling Event: Quarterly Chloroform

Prev. Well Sampled in Sampling Event: MW-04

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 999 µMHOS/ cm

Well Depth(0.01ft): 0

Depth to Water Before Purging: 0

Casing Volume (V) 4" Well: 0 (.653h)
3" Well: 0 (.367h)

Conductance (avg): 0.9

pH of Water (avg): 7.51

Well Water Temp. (avg): 21.58

Redox Potential (Eh): 147

Turbidity: 0

Weather Cond.: Clear

Ext'l Amb. Temp. °C (prior sampling event): 20°

Time	0835	Gal. Purged	0
Conductance	0.9	pH	7.51
Temp. °C	21.58		
Redox Potential Eh (mV)	147		
Turbidity (NTU)	0		

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Volume of Water Purged: 0 gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = 0

Time to evacuate two casing volumes (2V)
T = 2V/Q = 0

Number of casing volumes evacuated (if other than two): 0

If well evacuated to dryness, number of gallons evacuated: 0

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

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	☒	☐	3x40 ml	☐	☒	HCL	☒	☐
Nutrients	☒	☐	100 ml	☐	☒	H2SO4	☒	☐
Heavy Metals	☐	☐	250 ml	☐	☐	HNO3	☐	☐
All Other Non Radiologics	☐	☐	250 ml	☐	☐	No Preserv.	☐	☐
Gross Alpha	☐	☐	1,000 ml	☐	☐	HNO3	☐	☐
Other (specify)	☒	☐	Sample volume	☐	☒		☐	☒
Chloride								

If preservative is used, specify Type and Quantity of Preservative:

Final Depth: 0

Sample Time: 0836

See instruction

Comment

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TW4-60 10-04-2012 Do not touch this cell (SheetName)

DENISON MINES

ATTACHMENT 1-2
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUNDWATER

See instruction

Description of Sampling Event: 4Th Quarter Chloroform 2012

Location (well name): TW4-65

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-65_10032012

Date and Time for Purging: 10/2/2012 and Sampling (if different): 10/3/2012

Well Purging Equip Used: ☒ pump or ☐ bailer

Well Pump (if other than Bennet): Grundfos

Purging Method Used: ☒ 2 casings ☐ 3 casings

Sampling Event: Quarterly Chloroform

Prev. Well Sampled in Sampling Event: TW4-08

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 999 µMHOS/ cm

Well Depth(0.01ft): 120.00

Depth to Water Before Purging: 54.70

Casing Volume (V) 4" Well: 42.64 (.653h)
3" Well: 0 (.367h)

Conductance (avg): 2284

pH of Water (avg): 6.54

Well Water Temp. (avg): 14.99

Redox Potential (Eh): 225

Turbidity: 245

Weather Cond.: Clear

Ext'l Amb. Temp. °C (prior sampling event): 20°

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Volume of Water Purged: 90 gallon(s)

Pumping Rate Calculation

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

Time to evacuate two casing volumes (2V)
T = 2V/Q = 8.52

Number of casing volumes evacuated (if other than two): 0

If well evacuated to dryness, number of gallons evacuated: 0

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

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	☒	☐	3x40 ml	☐	☒	HCL	☒	☐
Nutrients	☒	☐	100 ml	☐	☒	H2SO4	☒	☐
Heavy Metals	☐	☐	250 ml	☐	☐	HNO3	☐	☐
All Other Non Radiologics	☐	☐	250 ml	☐	☐	No Preserv.	☐	☐
Gross Alpha	☐	☐	1,000 ml	☐	☐	HNO3	☐	☐
Other (specify)	☒	☐	Sample volume	☐	☒		☐	☒
Chloride								

If preservative is used, specify Type and Quantity of Preservative:

Final Depth: 72.20 Sample Time: 1030

See instruction

Comment

Duplicate of TW4-09

TW4-65 10-02-2012 Do not touch this cell (SheetName)

DENISON MINES

ATTACHMENT 1-2
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUNDWATER

See instruction

Description of Sampling Event: 4th Quarter Chloroform 2012

Location (well name): TW4-70

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-70_10042012

Date and Time for Purging: 10/3/2012 and Sampling (if different): 10/4/2012

Well Purging Equip Used: ☒ pump or ☐ bailer

Well Pump (if other than Bennet): Grundfos

Purging Method Used: ☒ 2 casings ☐ 3 casings

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: 999 µMHOS/ cm

Well Depth(0.01ft): 121.00

Depth to Water Before Purging: 54.15

Casing Volume (V) 4" Well: 43.65 (.653h)
3" Well: 0 (.367h)

Conductance (avg): 3462

pH of Water (avg): 6.85

Well Water Temp. (avg): 16.14

Redox Potential (Eh): 215

Turbidity: 156

Weather Cond.: Partly Cloudy

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

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Volume of Water Purged: 90 gallon(s)

Pumping Rate Calculation

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

Time to evacuate two casing volumes (2V)
T = 2V/Q = 8.73

Number of casing volumes evacuated (if other than two): 0

If well evacuated to dryness, number of gallons evacuated: 0

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

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	☒	☐	3x40 ml	☐	☒	HCL	☒	☐
Nutrients	☒	☐	100 ml	☐	☒	H2SO4	☒	☐
Heavy Metals	☐	☐	250 ml	☐	☐	HNO3	☐	☐
All Other Non Radiologics	☐	☐	250 ml	☐	☐	No Preserv.	☐	☐
Gross Alpha	☐	☐	1,000 ml	☐	☐	HNO3	☐	☐
Other (specify)	☒	☐	Sample volume	☐	☒		☐	☒
Chloride								

If preservative is used, specify Type and Quantity of Preservative:

Final Depth: 79.13 Sample Time: 0646

See instruction

Comment

Duplicate of TW4-21

TW4-70 10-03-2012 Do not touch this cell (SheetName)

Tab C

Weekly and Monthly Depth to Water Data

Depth to Water

Date 10/1/2012

Name Tanner Holliday

Time	Well	Depth	Comments
1344	MW-4	80.20	Flow 4.3 GPM
			Meter 967390.94
1339	MW-26	58.70	Flow 10.5
			Meter 257769.93
1309	TW4-19	59.95	Flow 14.0 GPM
			Meter @ 647079.00
1335	TW4-20	56.30	Flow 10.3 GPM
			Meter 513346.58
1349	TW4-4	73.49	Flow 8.4 GPM
			Meter 908125.80
	Water:	383392	

Depth to Water

Date 10/8/2012 **Name** David Turk

Time	Well	Depth	Comments
1310	MW-4	71.40	Flow ~~0~~ Not running
			Meter 974480.34
1305	MW-26	59.74	Flow ~~0~~ Not running
			Meter 259823.81
1252	TW4-19	57.72	Flow ~~0~~ Not Running
			Meter ~~659708.44~~ 659708.44
1300	TW4-20	56.22	Flow ~~0~~ Not Running
			Meter 515108.44
1315	TW4-4	69.52	Flow ~~0~~ Not running
			Meter 914328.73
	Water:	406038	

2490518

Depth to Water

Date 10/15/12 **Name** Garrin Palmer, Tanner Holliday

Time	Well	Depth	Comments
0640	MW-4	71.80	Flow 4.3 GPM
			Meter 981241.63
0650	MW-26	61.22	Flow 10.5 GPM
			Meter 261671.40
0620	TW4-19	59.61	Flow 14.0 GPM
			Meter 671440.00
0654	TW4-20	56.27	Flow 10.3
			Meter 516704.86
0734	TW4-4	69.37	Flow 8.5 GPM
			Meter 900058.41
	Water:	413817	

Depth to Water

Date 10/23/2012 Name Garrin Palmer, Tanner Holliday

Time	Well	Depth	Comments
1454	MW-4	72.03	Flow 4.3 GPM
			Meter 989803.09
1500	MW-26	76.50	Flow 10.4 GPM
			Meter 0263902.04
1424	TW4-19	59.41	Flow 14.0 GPM
			Meter 688404.07
1405	TW4-20	57.30	Flow 10.3 GPM
			Meter 518726.09
1450	TW4-4	70.53	Flow 8.6 GPM
			Meter 927544.70
	Water:	415754	

11.4
.74

2527631

Depth to Water

Date 10/29/12 **Name** Garrin Palmer, Tanner Holliday

Time	Well	Depth	Comments
1424	MW-4	73.10	Flow @ 4.4 GPM
			Meter 995936.73
1420	MW-26	57.90	Flow 10.4 GPM
			Meter 265609.15
1450	TW4-19	~~63.93~~ 63.09	Flow 14.0 GPM
			Meter 699702.05
1417	TW4-20	74.79	Flow 10.2 GPM
			Meter 520166.75
1428	TW4-4	71.93	Flow 8.5 GPM
			Meter 932836.50
	Water:	418370	

Chloroform Wells

Date 10/30/2012 **Name** Garrin Palmer, Tanner Holliday

Time	Well	Depth	Comments
1212	MW-4	72.20	
1210	TW4-1	64.90	
1216	TW4-2	67.40	
1207	TW4-3	50.30	
1218	TW4-4	69.84	
1204	TW4-5	57.05	
1219	TW4-6	69.75	
1212	TW4-7	68.41	
1209	TW4-8	66.60	
1205	TW4-9	54.90	
1202	TW4-10	56.05	
1217	TW4-11	57.04	
1232	TW4-12	41.16	
1231	TW4-13	47.10	
1229	TW4-14	86.44	
1200	TW4-15	80.52	
1240	TW4-16	59.32	
1238	TW4-17	74.30	
1151	TW4-18	57.50	
1247	TW4-19	59.70	
1158	TW4-20	58.00	
1148	TW4-21	54.46	
1157	TW4-22	53.15	
1221	TW4-23	64.41	
1155	TW4-24	54.75	
1146	TW4-25	49.70	
1223	TW4-26	63.10	
1227	TW4-27	82.32	

Depth to Water

Date 11/5/12 **Name** Garrin Palmer/Tanner Holliday

Time	Well	Depth	Comments
1330	MW-4	73.05	Flow 4.4 GPM
			Meter 1003136.04
1326	MW-26	58.04	Flow 10.4 GPM
			Meter 267685.00
1403	TW4-19	59.83	Flow ~~8.4 GPM~~ 14.0 GPM
			Meter ~~7~~12814.00
1322	TW4-20	66.83	Flow 10.3 GPM
			Meter 521833.10
1335	TW4-4	71.03	Flow 8.4 GPM
			Meter 938950.6
	Water:	427087	

Depth to Water

Date 11/12/12 Name Garrin Palmer

Time	Well	Depth	Comments
1448	MW-4	71.90	Flow 4.3 GPM
			Meter 10102 86.74
1444	MW-26	60.95	Flow 10.4 GPM
			Meter 269587.04
1505	TW4-19	62.55	Flow 14.0 GPM
			Meter 725901.05
1438	TW4-20	56.73	Flow 10.3 GPM
			Meter 523472.77
1454	TW4-4	70.01	Flow 8.4 GPM
			Meter 945272.80
	Water:	440807	

Depth to Water

Date 11/19/2012 **Name** Garrin Palmer, Tanner Holliday

Time	Well	Depth	Comments
1437	MW-4	72.90	Flow 4.3 GPM
			Meter 1017370.19
1433	MW-26	62.10	Flow 10.4 GPM
			Meter 271847.96
1500	TW4-19	61.13	Flow 14.0 GPM
			Meter 738978.08
1429	TW4-20	57.70	Flow 10.3 GPM
			Meter 525154.33
1441	TW4-4	70.95	Flow 8.5 GPM
			Meter 961272.9
	Water:	446644	

Chloroform Wells

Date 11/23/2012 **Name** Tanner Holliday

Time	Well	Depth	Comments
0736	MW-4	73.61	
0741	TW4-1	64.10	
0733	TW4-2	66.80	
0728	TW4-3	49.38	
0747	TW4-4	69.99	
0721	TW4-5	55.95	
0750	TW4-6	69.61	
0738	TW4-7	67.65	
0744	TW4-8	66.18	
0724	TW4-9	53.87	
0718	TW4-10	55.39	
0819	TW4-11	56.65	
0801	TW4-12	40.50	
0803	TW4-13	45.80	
0806	TW4-14	86.60	
0714	TW4-15	70.37	
0816	TW4-16	60.15	
0814	TW4-17	74.87	
0830	TW4-18	56.50	
0839	TW4-19	59.99	
0710	TW4-20	71.98	
0833	TW4-21	53.90	
0707	TW4-22	52.90	
0756	TW4-23	64.69	
0704	TW4-24	54.48	
0825	TW4-25	47.73	
0753	TW4-26	63.05	
0809	TW4-27	82.57	

Depth to Water

Date 11/26/2012 **Name** Tanner Holliday

Time	Well	Depth	Comments
1421	MW-4	72.16	Flow 4.3 GPM
			Meter 1024686.92
1417	MW-26	65.83	Flow 10.4 GPM
			Meter 273648.54
~~1425~~ 1500	TW4-19	~~69.94~~ 62.11	Flow 14.0 GPM
			Meter ~~9573~~ 752081.08
1413	TW4-20	57.05	Flow 10.3 GPM
			Meter 526801.85
1425	TW4-4	69.94	Flow 8.5 GPM
			Meter 957363.0
	Water:	460580	

Depth to Water

Date 12/4/2012 **Name** Garrin Palmer, Tanner Holliday

Time	Well	Depth	Comments
1023	MW-4	73.69	Flow 4.4 GPM
			Meter 1032724.22
1019	MW-26	57.95	Flow 10.4 GPM
			Meter 275977.93
0933	TW4-19	60.20	Flow 14 GPM
			Meter 766146.00
1016	TW4-20	78.10	Flow 10.9 GPM
			Meter 528754.12
1026	TW4-4	69.79	Flow 8.6 GPM
			Meter 964025.14
	Water:	486783	

Depth to Water

Date 12/11/2012 Name Tanner Holliday

Time	Well	Depth	Comments
1451	MW-4	72.34	Flow ~~GPM~~ Power was off
			Meter Meter froze and broke 1037856.37
1448	MW-26	59.99	Flow 10.4 GPM
			Meter 277967.38
1440	TW4-19	60.01	Flow 14.0 GPM
			Meter 779042.02
1445	TW4-20	72.19	Flow 10.5 GPM
			Meter 530301.35
1455	TW4-4	70.09	Flow ~~GPM~~ Power was off
			Meter 968354.5
	Water:	512037	

Depth to Water

Date 12/17/2012 **Name** Tanner Holliday

Time	Well	Depth	Comments
1405	MW-4	71.11	Flow 3.7 GPM
			Meter 2259.66
1412	MW-26	103.91	Flow 10.3 GPM
			Meter 286121.90
1300	TW4-19	62.12	Flow 14.0
			Meter 790324.02
1415	TW4-20	72.01	Flow 10.2 GPM
			Meter 531673.56
1401	TW4-4	75.93	Flow 8.0 GPM
			Meter 972684.0
	Water:	536004	

Depth to Water

Date 12/24/12 Name Garcia Palmer, Tanner Holliday

Time	Well	Depth	Comments
0952	MW-4	67.10	Flow 4.3 GPM
			Meter 4718.67
0948	MW-26	58.75	Flow 10.0
			Meter 287437.52
0959	TW4-19	69.97	Flow 8.2 GPM
			Meter 976569.68
0945	TW4-20	55.20	Flow 8.6
			Meter 532668.03
0955	TW4-4	59.95	Flow 14.0 GPM
			Meter 994215.00
	Water:	562065	

Depth to Water

Date 12/31/12 Name Garrin Palmer

Time	Well	Depth	Comments
1415	MW-4	65.34	Flow 4.4 GPM
			Meter 8374.83
1405	MW-26	74.60	Flow 10.4 GPM
			Meter 288567.13
1432	TW4-19	59.90	Flow 14.0 GPM
			Meter 803732.00
1410	TW4-20	54.20	Flow 10.2 GPM
			Meter 533460.95
1420	TW4-4	69.88	Flow Flow meter was melted because heat lamp was too
			Meter close to meter. unable to get reading.
	Water:	590365	

Tab D

Kriged Current Quarter Groundwater Contour Map, Details Map, and Depth to Water Summary

NAME: Garrin Palmer

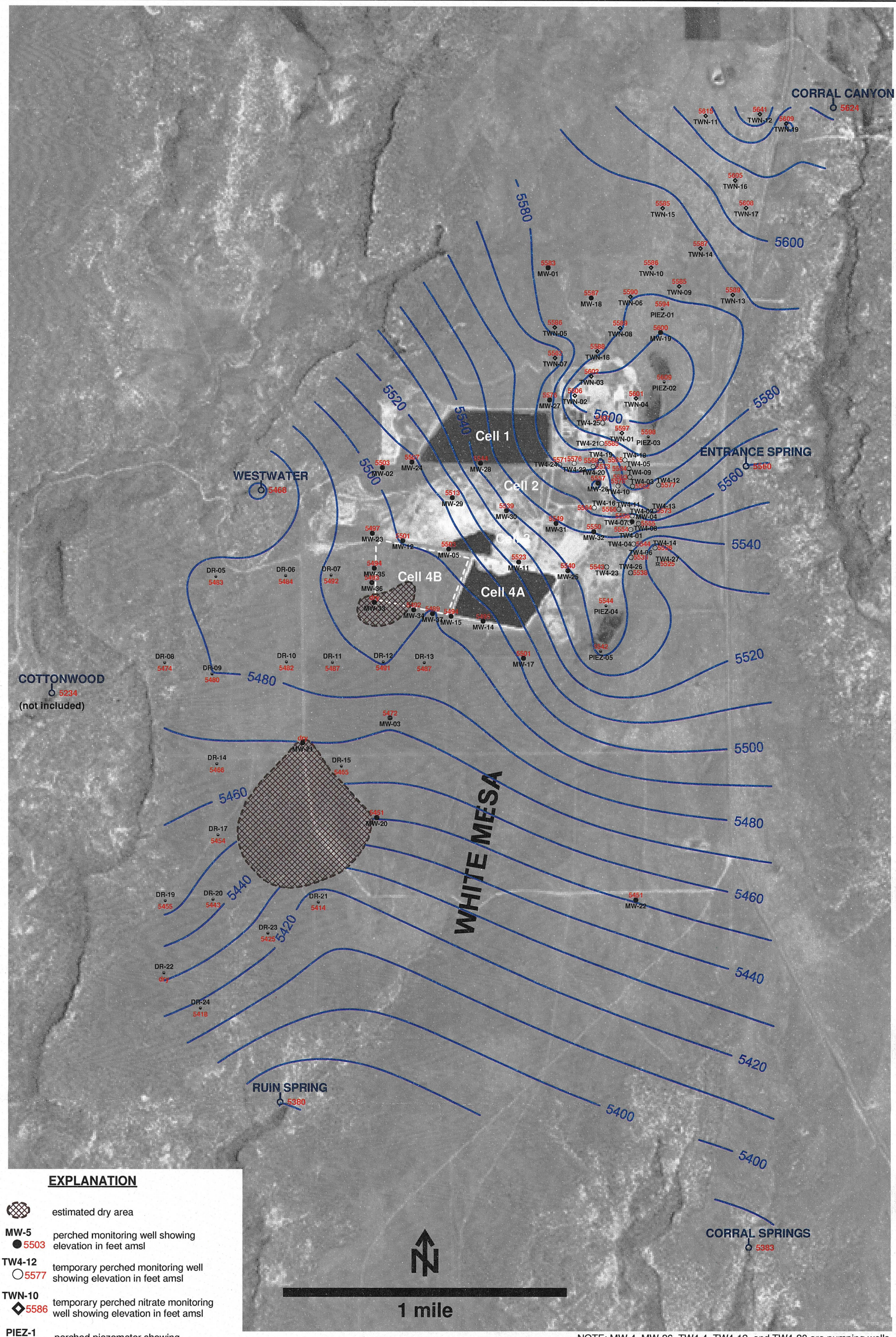
DATE: 12/28/2012

TIME	WELL	Static level
824	MW-1	64.15
706	MW-2	109.75
701	MW-3	83.06
701	MW-3A	85.04
719	MW-5	106.27
717	MW-11	87.54
721	MW-12	108.50
740	MW-14	103.52
736	MW-15	106.35
1445	MW-17	73.60
827	MW-18	70.12
746	MW-19	55.01
650	MW-20	89.95
645	MW-22	66.71
723	MW-23	115.39
641	MW-24	114.18
714	MW-25	73.19
654	MW-26	59.93
705	MW-27	51.46
639	MW-28	76.28
708	MW-29	101.82
710	MW-30	75.51
712	MW-31	67.49
658	MW-32	74.95
728	MW-33	DRY
731	MW-34	107.95
725	MW-35	112.36
727	MW-36	110.51
734	MW-37	110.17

TIME	WELL	Static Level
1251	MW-4	73.02
1256	TW4-1	64.99
1249	TW4-2	66.90
1245	TW4-3	50.29
1302	TW4-4	69.98
1240	TW4-5	56.81
1307	TW4-6	70.04
1253	TW4-7	67.92
1259	TW4-8	66.54
1243	TW4-9	54.75
1236	TW4-10	56.37
1330	TW4-11	57.85
1320	TW4-12	47.13
1322	TW4-13	47.15
1325	TW4-14	86.89
1233	TW4-15	68.15
1333	TW4-16	60.25
1336	TW4-17	74.95
1201	TW4-18	56.63
1400	TW4-19	63.18
1231	TW4-20	56.95
1204	TW4-21	54.10
1228	TW4-22	53.41
1310	TW4-23	64.76
1225	TW4-24	54.78
1157	TW4-25	47.50
1314	TW4-26	63.48
1328	TW4-27	83.08

TIME	WELL	Static Level
1341	PIEZ-1	61.55
13.43	PIEZ-2	20.20
1346	PIEZ-3	40.31
1438	PIEZ-4	46.85
1441	PIEZ-5	41.95
1207	TWN-1	51.47
1210	TWN-2	20.93
1214	TWN-3	32.76
1218	TWN-4	41.01
838	TWN-5	69.28
820	TWN-6	75.27
840	TWN-7	87.76
831	TWN-8	62.30
752	TWN-9	62.21
817	TWN-10	80.70
811	TWN-11	69.25
806	TWN-12	27.72
755	TWN-13	45.61
758	TWN-14	62.20
814	TWN-15	91.74
803	TWN-16	47.60
801	TWN-17	33.47
836	TWN-18	57.95
858	TWN-19	52.50

TIME	WELL	Static Level
NA	DR-1	ABANDON
NA	DR-2	ABANDON
910	DR-5	82.9
916	DR-6	94.4
1500	DR-7	92
925	DR-8	50.96
922	DR-9	86.31
919	DR-10	78.12
1454	DR-11	98.25
1451	DR-12	89.12
1448	DR-13	69.65
931	DR-14	76.27
959	DR-15	92.8
NA	DR-16	ABANDON
934	DR-17	64.75
NA	DR-18	ABANDON
937	DR-19	63.05
946	DR-20	55.35
1002	DR-21	107.35
939	DR-22	DRY
951	DR-23	70.46
942	DR-24	43.54
NA	DR-25	ABANDON



EXPLANATION

- estimated dry area
- **MW-5** ● 5503 — perched monitoring well showing elevation in feet amsl
- **TW4-12** ○ 5577 — temporary perched monitoring well showing elevation in feet amsl
- **TWN-10** ◇ 5586 — temporary perched nitrate monitoring well showing elevation in feet amsl
- **PIEZ-1** ⊖ 5594 — perched piezometer showing elevation in feet amsl
- **TW4-27** ☼ 5525 — temporary perched monitoring well installed October, 2011 showing elevation in feet amsl
- **RUIN SPRING** 5380 — seep or spring 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 4th QUARTER, 2012 WATER LEVELS WHITE MESA SITE

APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/feb13/Uwl1212.srf	D-1

CORRAL CANYON 5624

TWN-11 5615 | TWN-12 5641 | TWN-19 5609

TWN-16 5605

TWN-15 5585 | TWN-17 5608

TWN-14 5587

MW-01 5583 | TWN-10 5586 | TWN-09 5595 | TWN-13 5589

MW-18 5587 | TWN-06 5590 | PIEZ-01 5594

TWN-05 5586 | TWN-08 5589 | MW-19 5600

TWN-07 5584 | TWN-18 5588

TWN-03 5602 | PIEZ-02 5603

MW-27 5575 | TWN-02 5606 | TWN-04 5601

TW4-20 5600 | TW4-21 5585 | TWN-01 5597 | PIEZ-03 5598

TW4-24 5571 | TW4-22 5576 | TW4-23 5564 | TW4-19 5585 | TW4-16 5585 | TW4-17 5585 | TW4-18 5585 | TW4-15 5585 | TW4-12 5577 | TW4-13 5573 | TW4-14 5526 | TW4-27 5525

MW-02 5503 | MW-24 5507 | MW-28 5544 | MW-26 5557 | TW4-03 5574 | TW4-10 5557 | TW4-11 5568 | TW4-02 5558 | MW-04 5555 | TW4-07 5554 | TW4-08 5550 | TW4-01 5544 | TW4-04 5538 | TW4-06 5538 | TW4-26 5538

MW-29 5513 | MW-30 5539 | MW-31 5549 | MW-32 5550 | MW-25 5540 | TW4-23 5543 | PIEZ-04 5544

MW-23 5497 | MW-12 5501 | MW-05 5503 | MW-11 5523

MW-35 5494 | MW-36 5493 | MW-33 5494 | MW-34 5492 | MW-37 5489 | MW-15 5494 | MW-14 5495

MW-17 5501 | PIEZ-05 5542

DR-05 5483 | DR-06 5484 | DR-07 5492

DR-08 5474 | DR-09 5480 | DR-10 5482 | DR-11 5487 | DR-12 5491 | DR-13 5487

MW-03 5472

MW-21 dry | DR-14 5466 | DR-15 5465

MW-20 5451 | DR-17 5454

DR-19 5455 | DR-20 5443 | DR-21 5414

MW-22 5451

DR-23 5425

DR-22 dry

DR-24 5418

Cell 1

Cell 2

Cell 3

Cell 4A

Cell 4B

WESTWATER 5468

ENTRANCE SPRING 5560

COTTONWOOD 5234 (not included)

RUIN SPRING 5380

CORRAL SPRINGS 5383

WHITE MESA

5600 | 5580 | 5560 | 5540 | 5520 | 5500 | 5480 | 5460 | 5440 | 5420 | 5400

1 mile

EXPLANATION

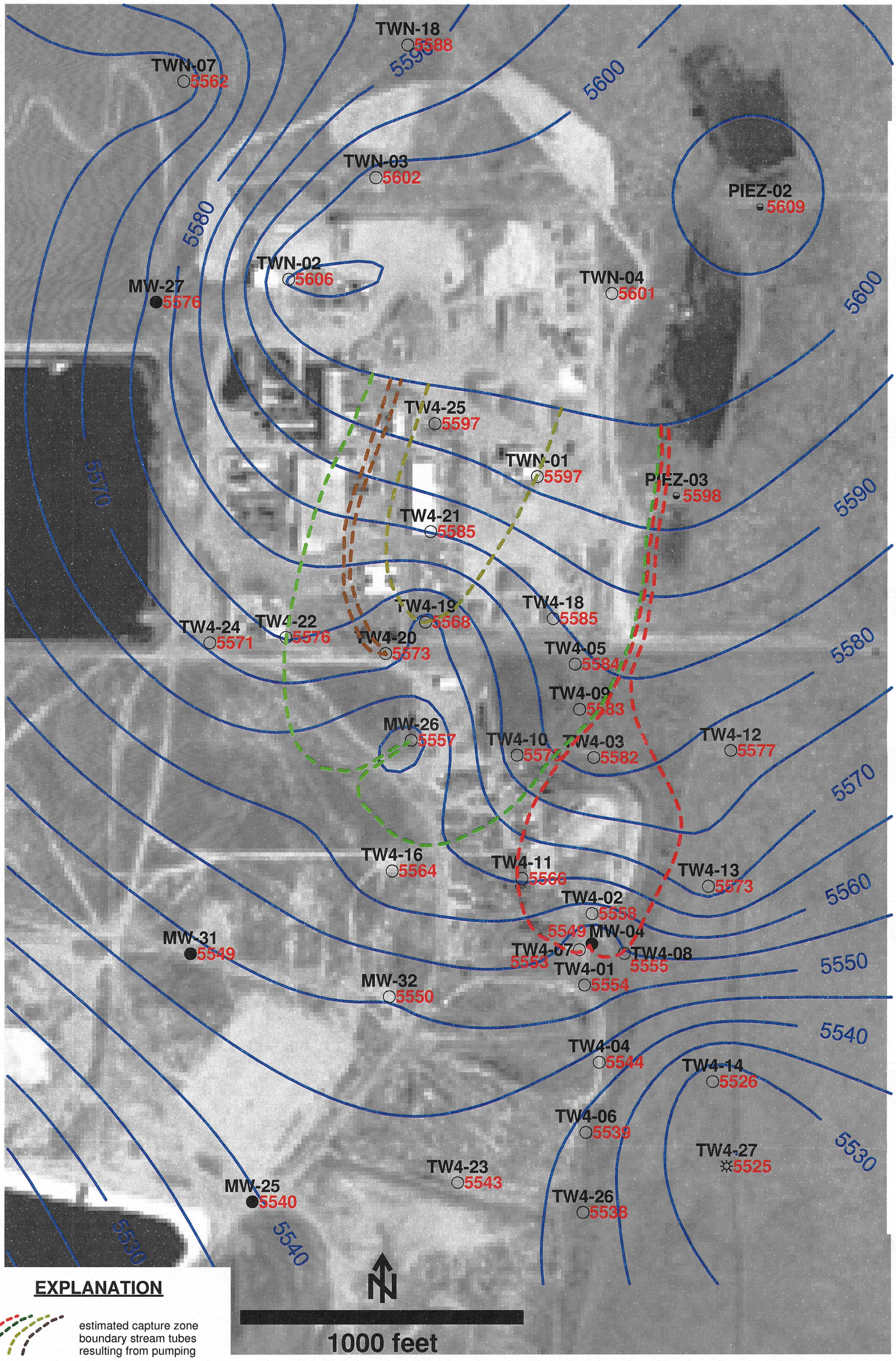
- estimated capture zone boundary stream tubes resulting from pumping
- estimated dry area
- MW-5 ● 5503 — perched monitoring well showing elevation in feet amsl
- TW4-12 ○ 5577 — temporary perched monitoring well showing elevation in feet amsl
- TWN-10 ◇ 5586 — temporary perched nitrate monitoring well showing elevation in feet amsl
- PIEZ-1 ⊖ 5594 — perched piezometer showing elevation in feet amsl
- TW4-27 ☼ 5525 — temporary perched monitoring well installed October, 2011 showing elevation in feet amsl
- RUIN SPRING 5380 — seep or spring 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 4th QUARTER, 2012 WATER LEVELS AND ESTIMATED CAPTURE ZONES WHITE MESA SITE

APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/feb13/Uwl1212cz2.srf	D-2



EXPLANATION

estimated capture zone boundary stream tubes resulting from pumping

MW-4 ● 5549 — perched monitoring well showing elevation in feet amsl

TW4-1 ○ 5554 — temporary perched monitoring well showing elevation in feet amsl

PIEZ-2 ⊖ 5609 — perched piezometer showing elevation in feet amsl

TW4-27 ☼ 5525 — temporary perched monitoring well installed October, 2011 showing elevation in feet amsl

NOTE: MW-4, MW-26, TW4-4, TW4-19 and TW4-20 are pumping wells

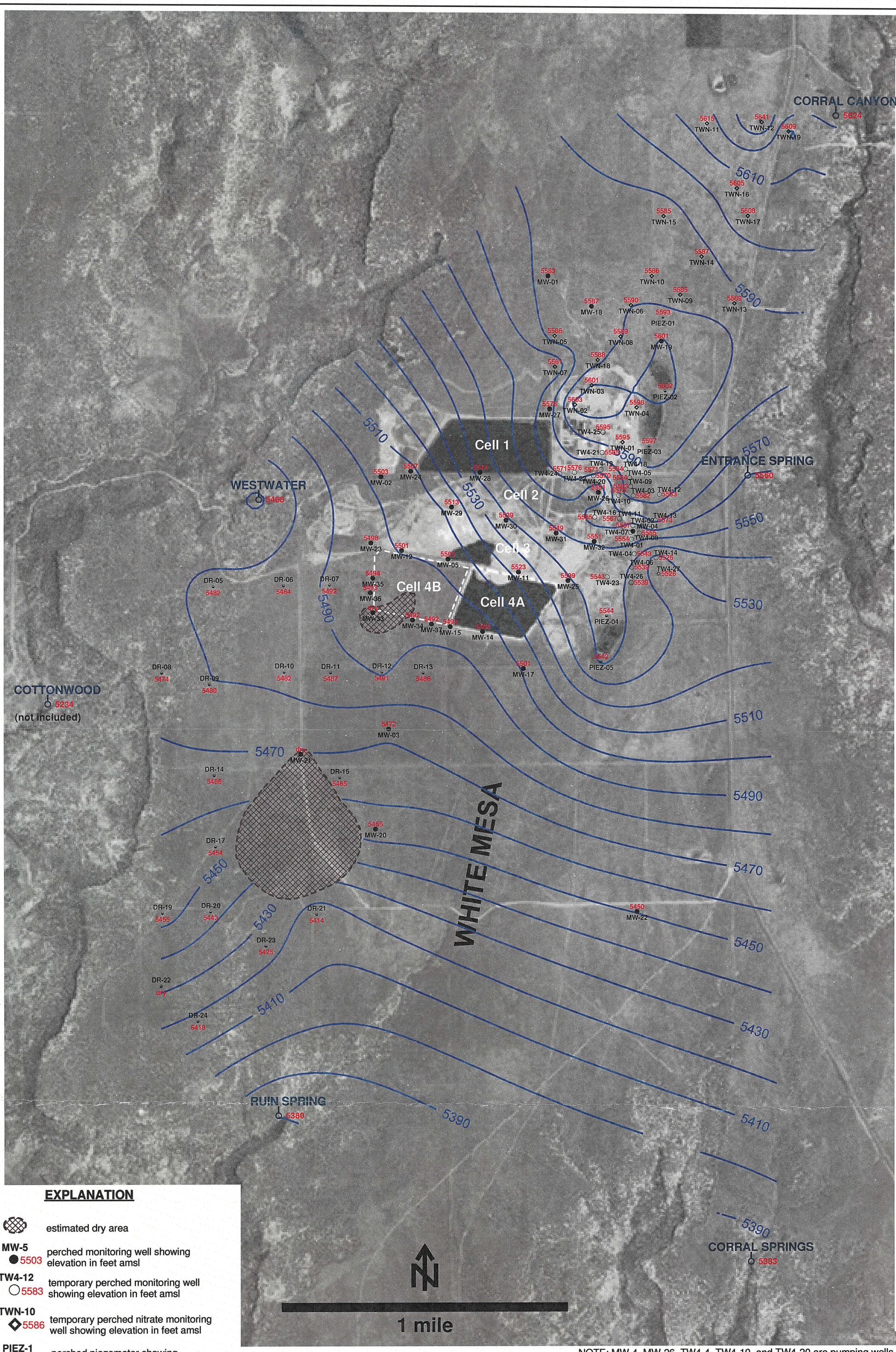
HYDRO GEO CHEM, INC.

KRIGED 4th QUARTER, 2012 WATER LEVELS AND ESTIMATED CAPTURE ZONES WHITE MESA SITE (detail map)

APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/nov12/Uwl212cz.srf	D-3

Tab E

Kriged Previous Quarter Groundwater Contour Map



EXPLANATION

- estimated dry area
- **MW-5** ● 5503 — perched monitoring well showing elevation in feet amsl
- **TW4-12** ○ 5583 — temporary perched monitoring well showing elevation in feet amsl
- **TWN-10** ◇ 5586 — temporary perched nitrate monitoring well showing elevation in feet amsl
- **PIEZ-1** ⬭ 5593 — perched piezometer showing elevation in feet amsl
- **TW4-27** ☼ 5526 — temporary perched monitoring well installed October, 2011 showing elevation in feet amsl
- **RUIN SPRING** 5380 — seep or spring showing elevation in feet amsl

NOTE: MW-4, MW-26, TW4-4, TW4-19, and TW4-20 are pumping wells

HYDRO GEO CHEM, INC.

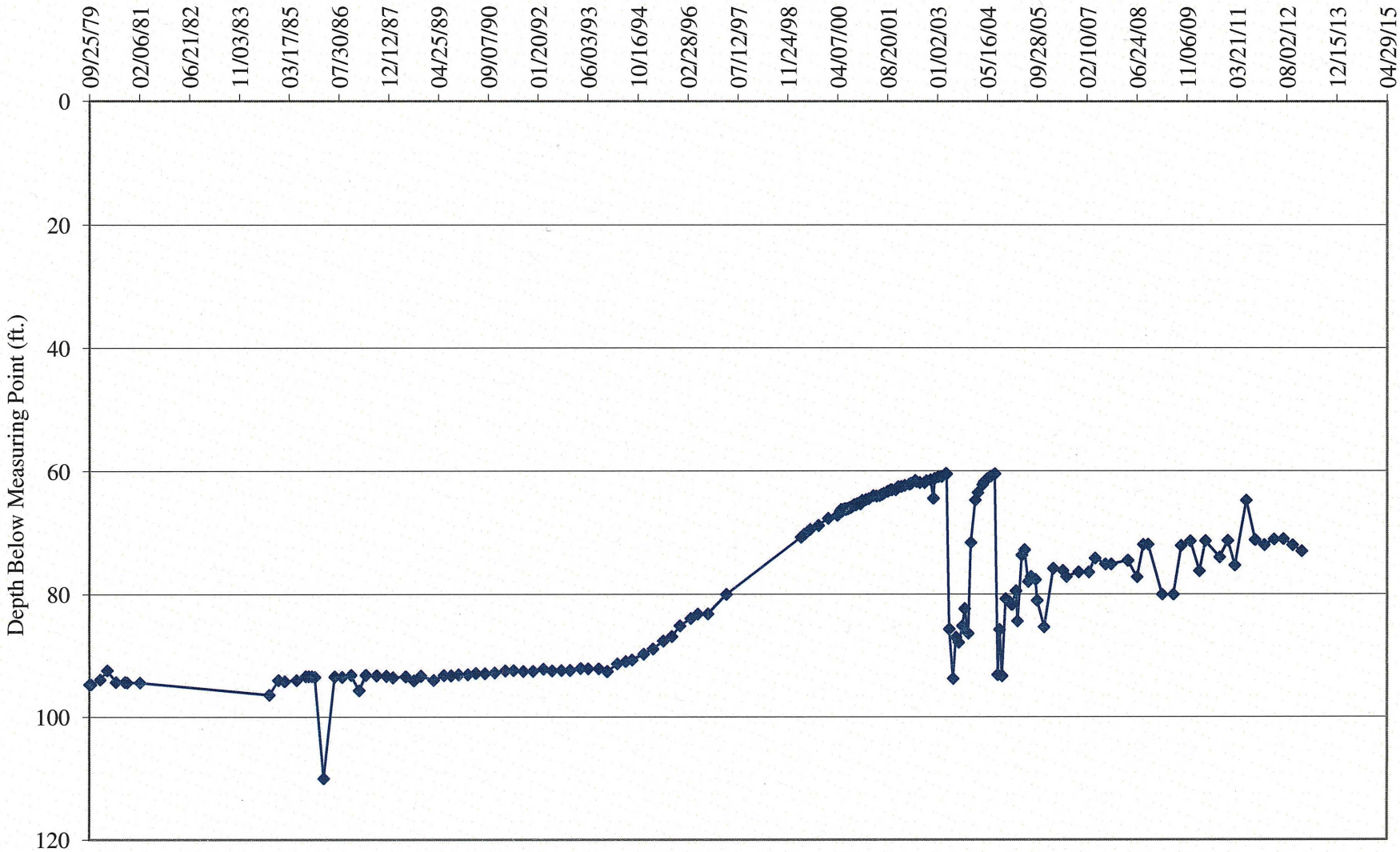
KRIGED 3rd QUARTER, 2012 WATER LEVELS WHITE MESA SITE

APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/nov12/Uwl0912.srf	E-1

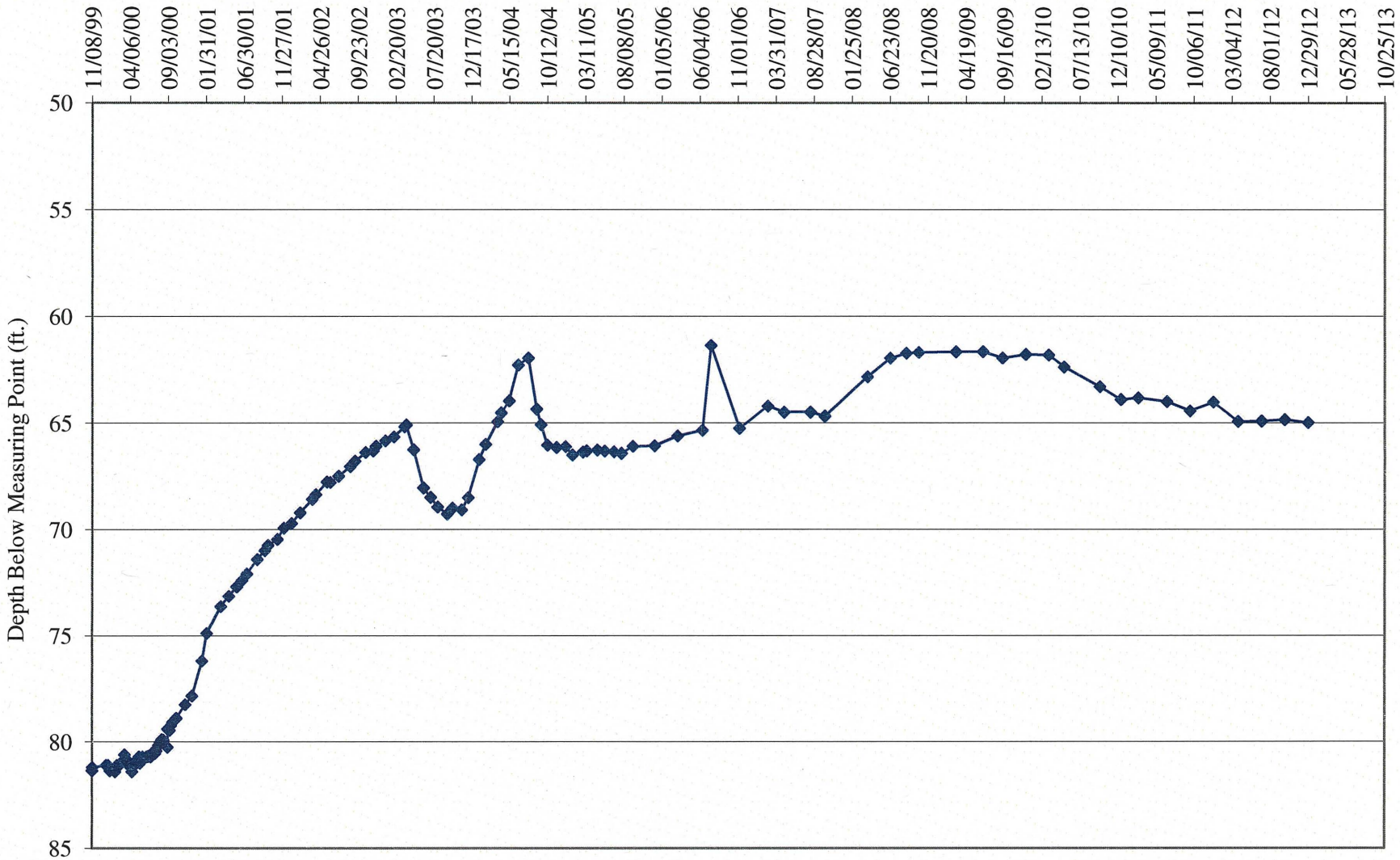
Tab F

Hydrographs of Groundwater Elevations Over Time for Chloroform Monitoring Wells

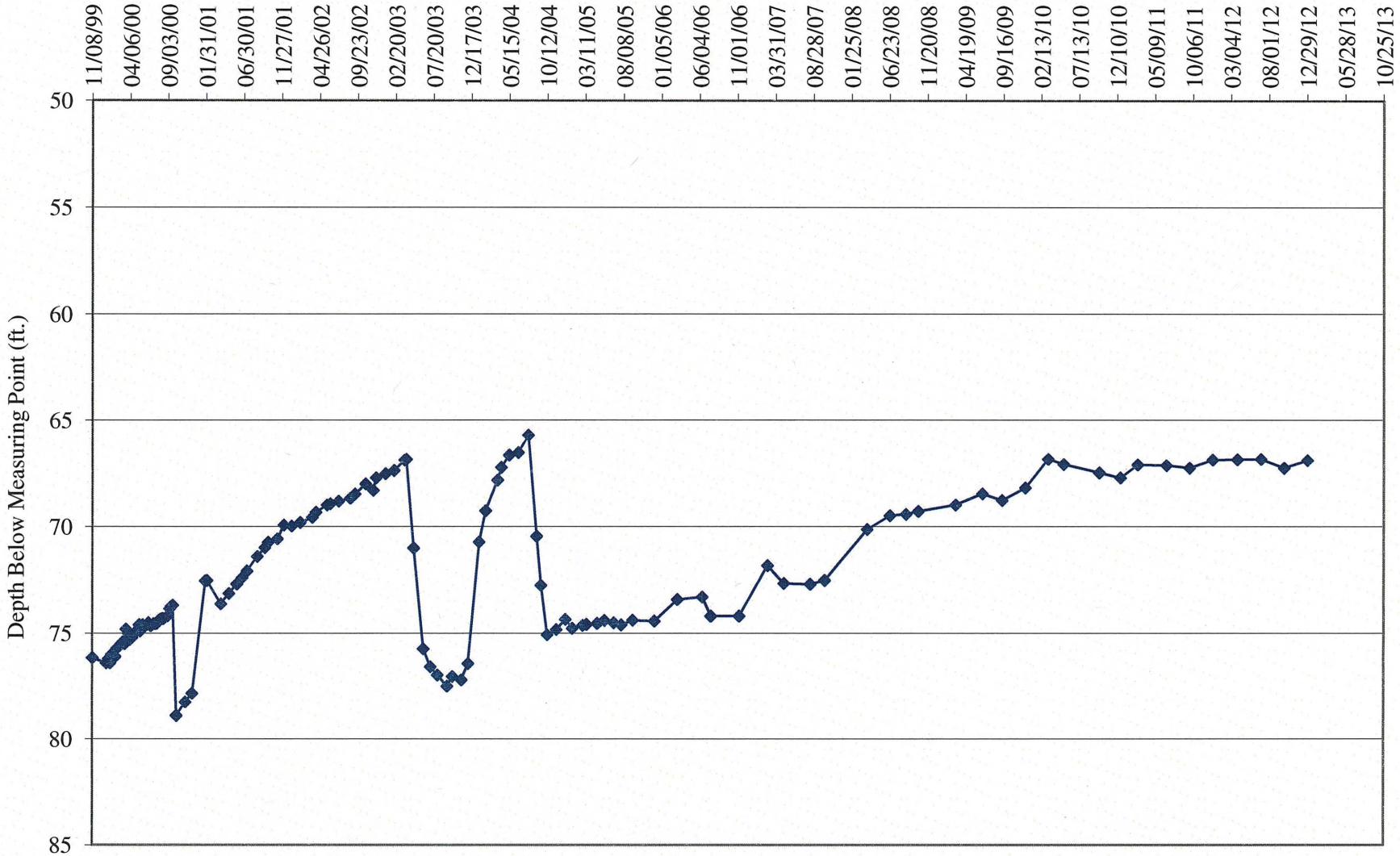
MW 4 Water Depth Over Time (ft. blmp)



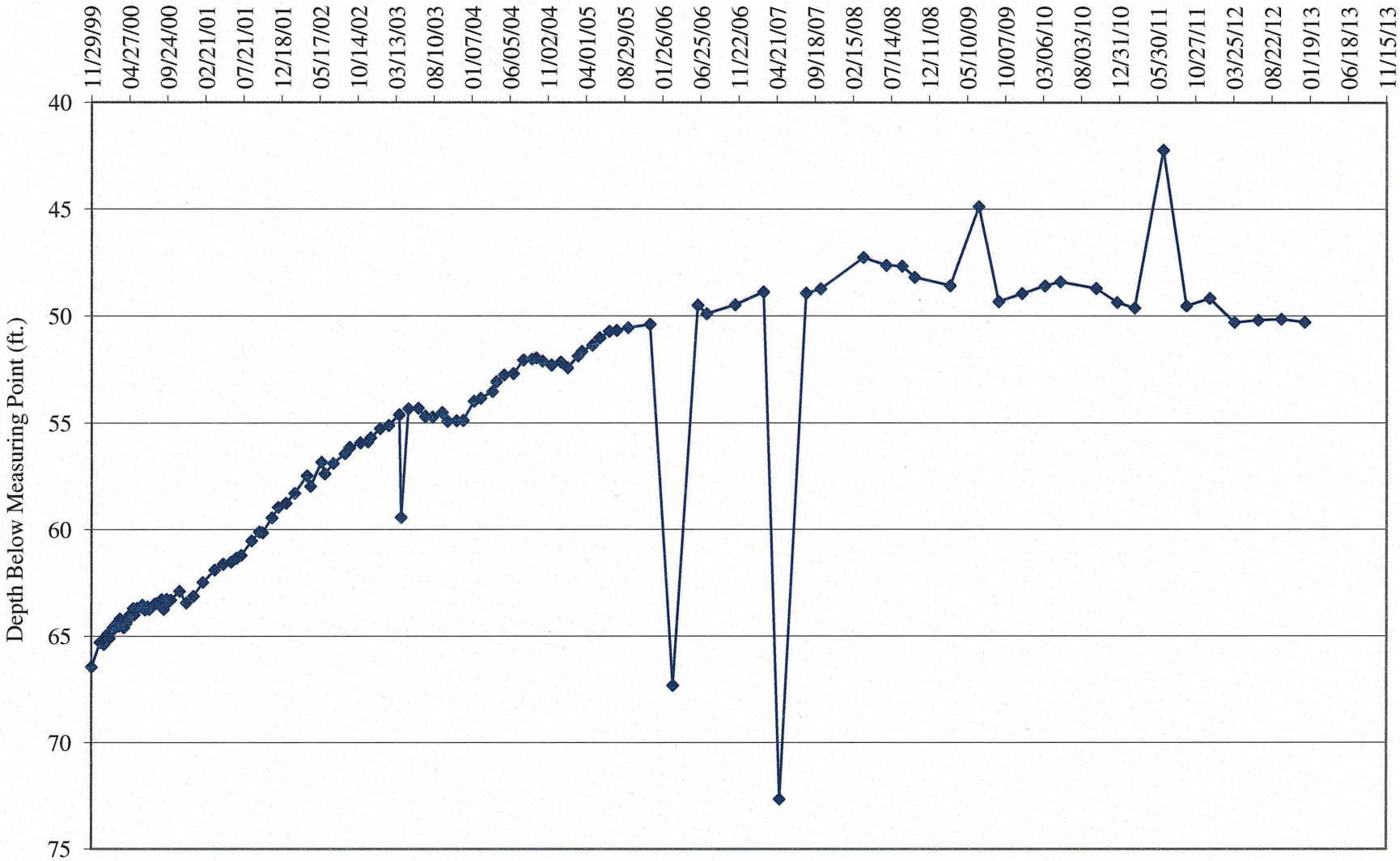
TW4-1 Water Depth Over Time (ft. blmp)



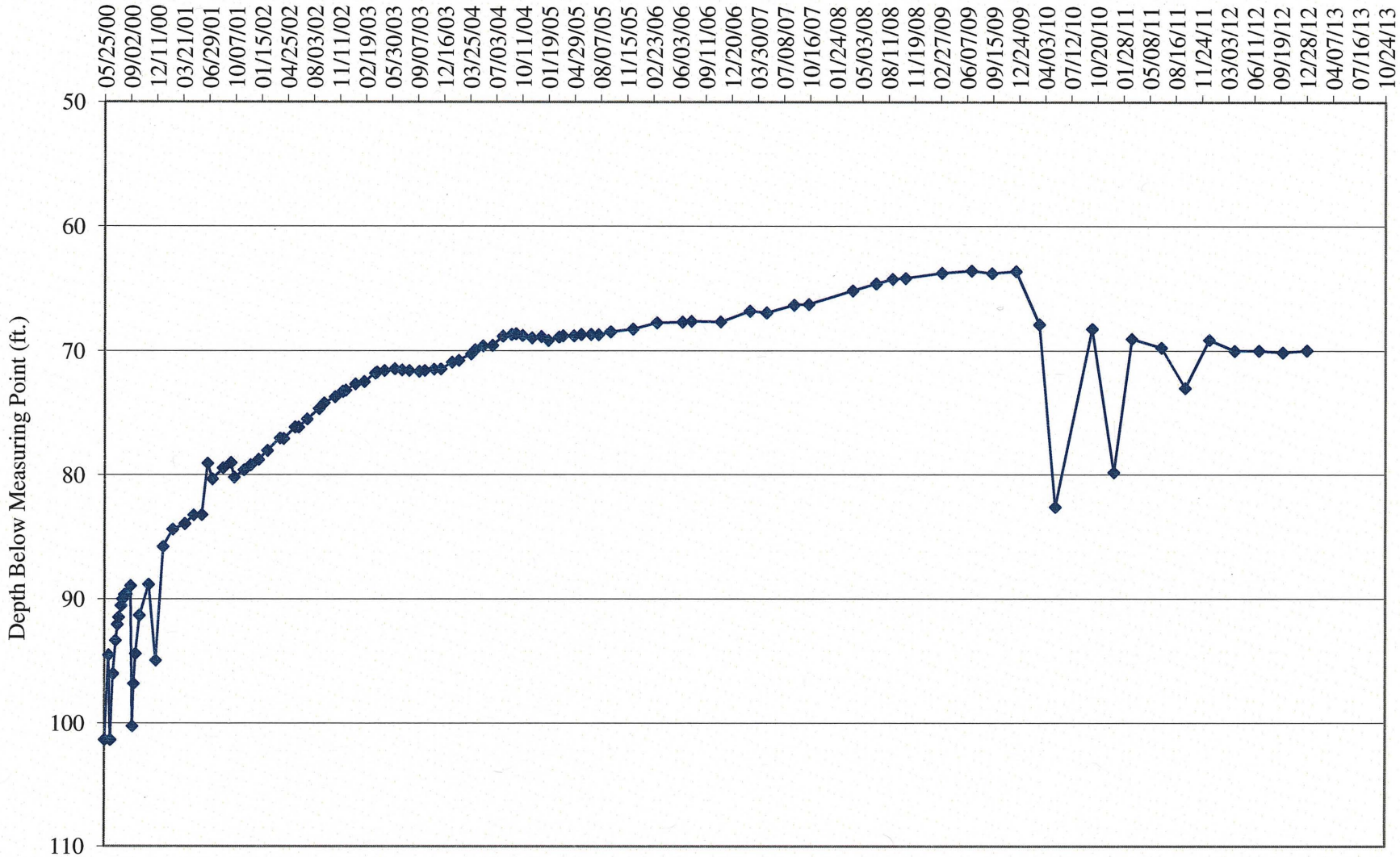
TW4-2 Water Depth Over Time (ft. blmp)



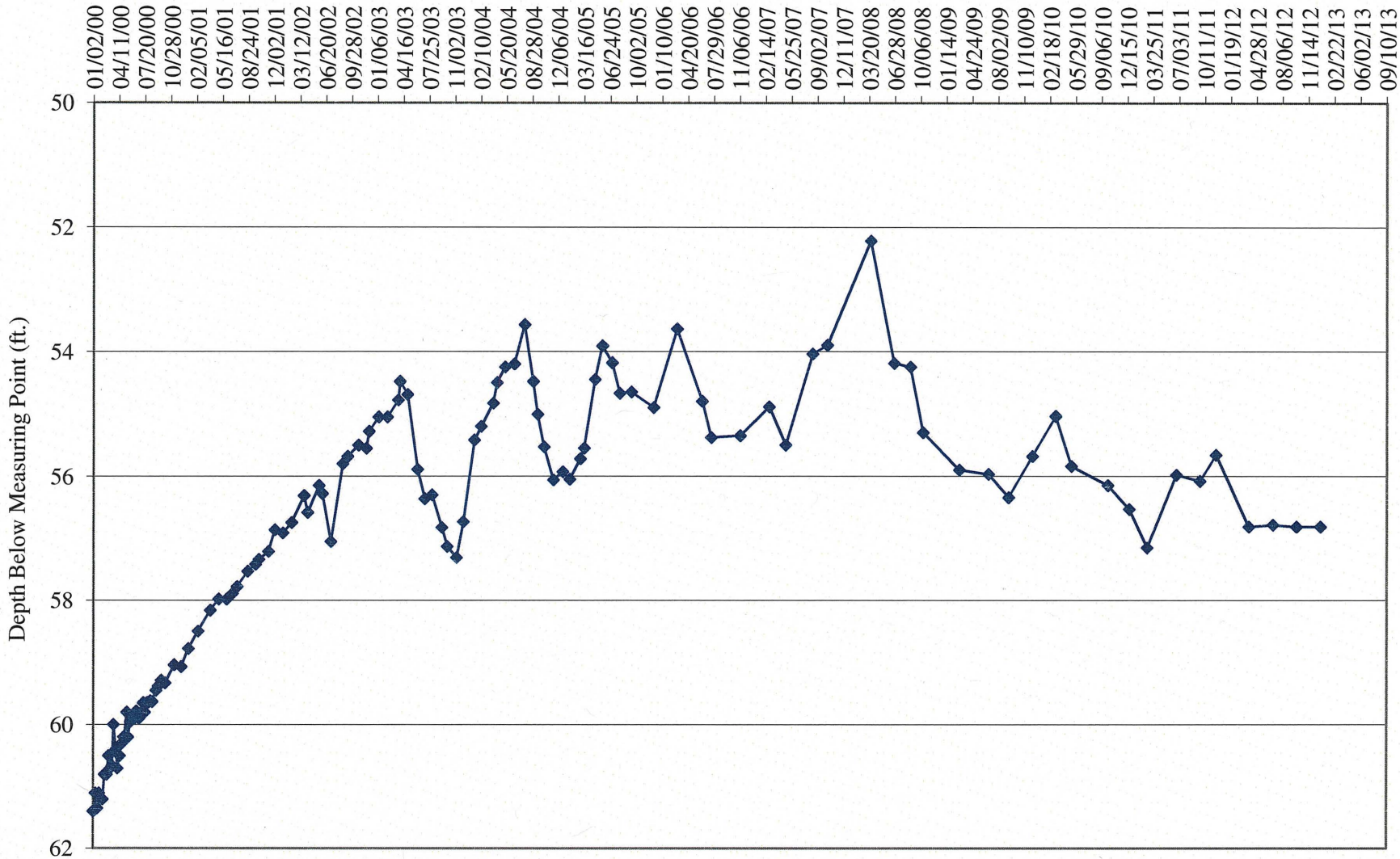
TW4-3 Water Depth Over Time (ft. blmp)



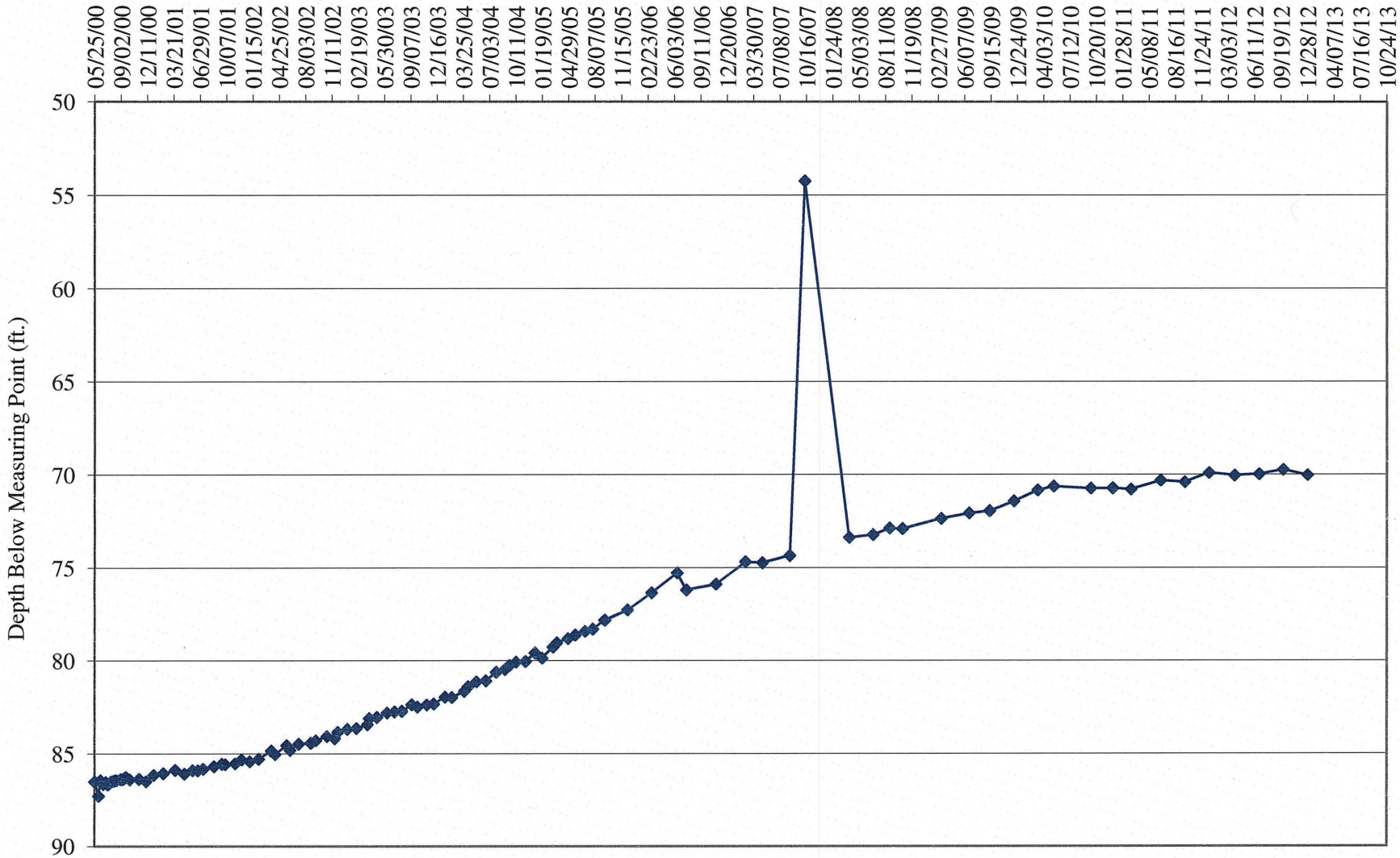
TW4-4 Water Depth Over Time (ft. blmp)



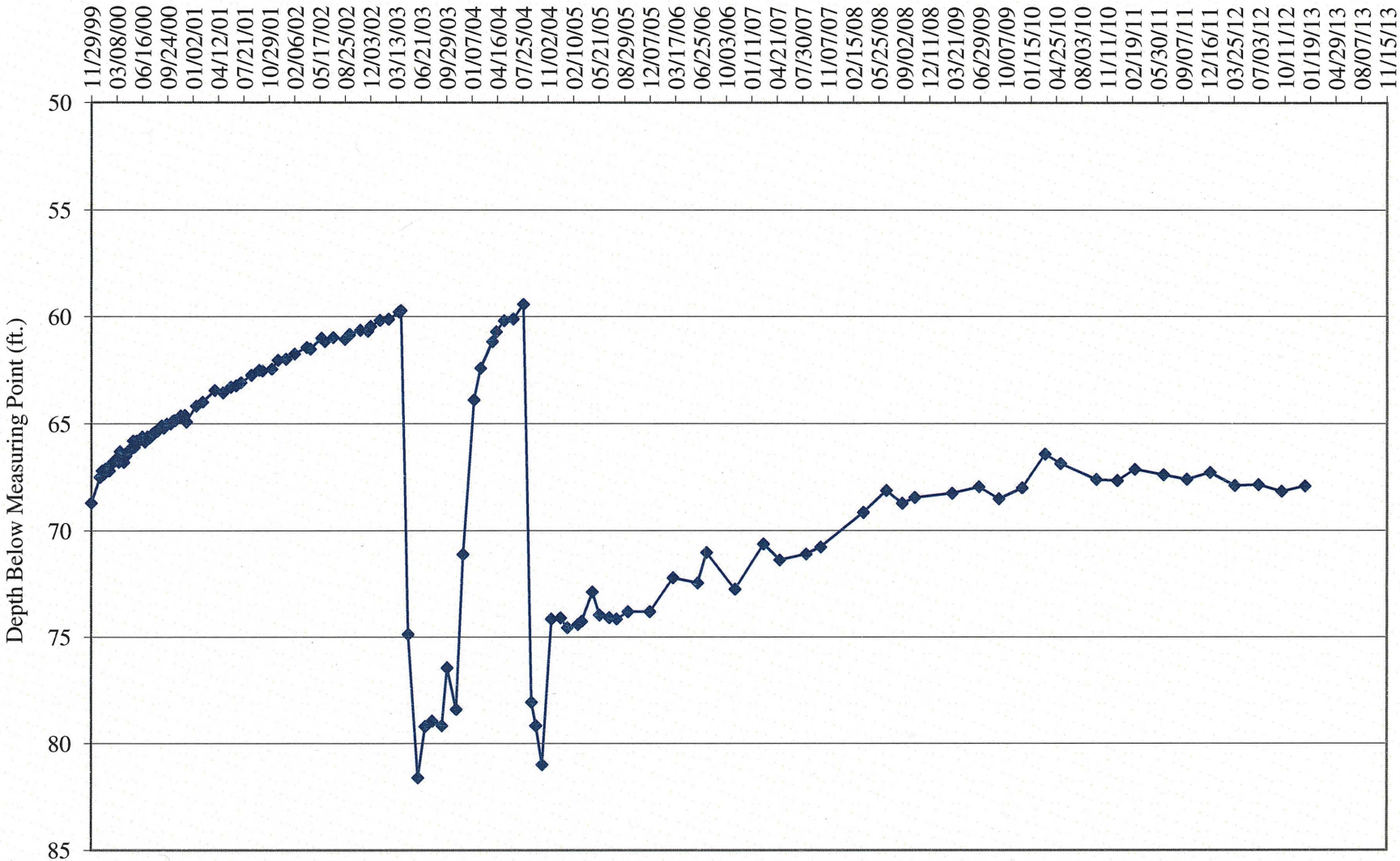
TW4-5 Water Depth Over Time (ft. blmp)



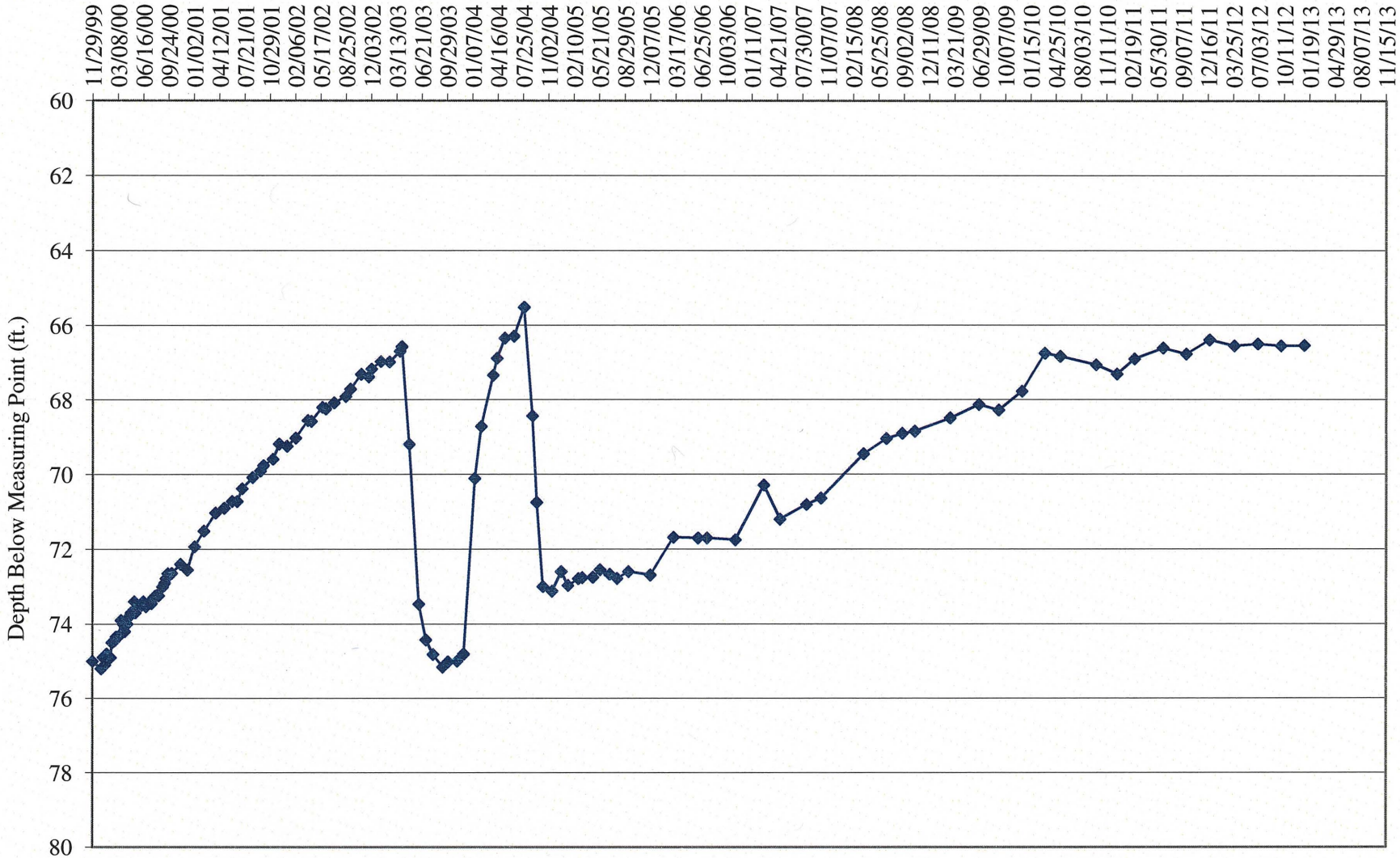
TW4-6 Water Depth Over Time (ft. blmp)



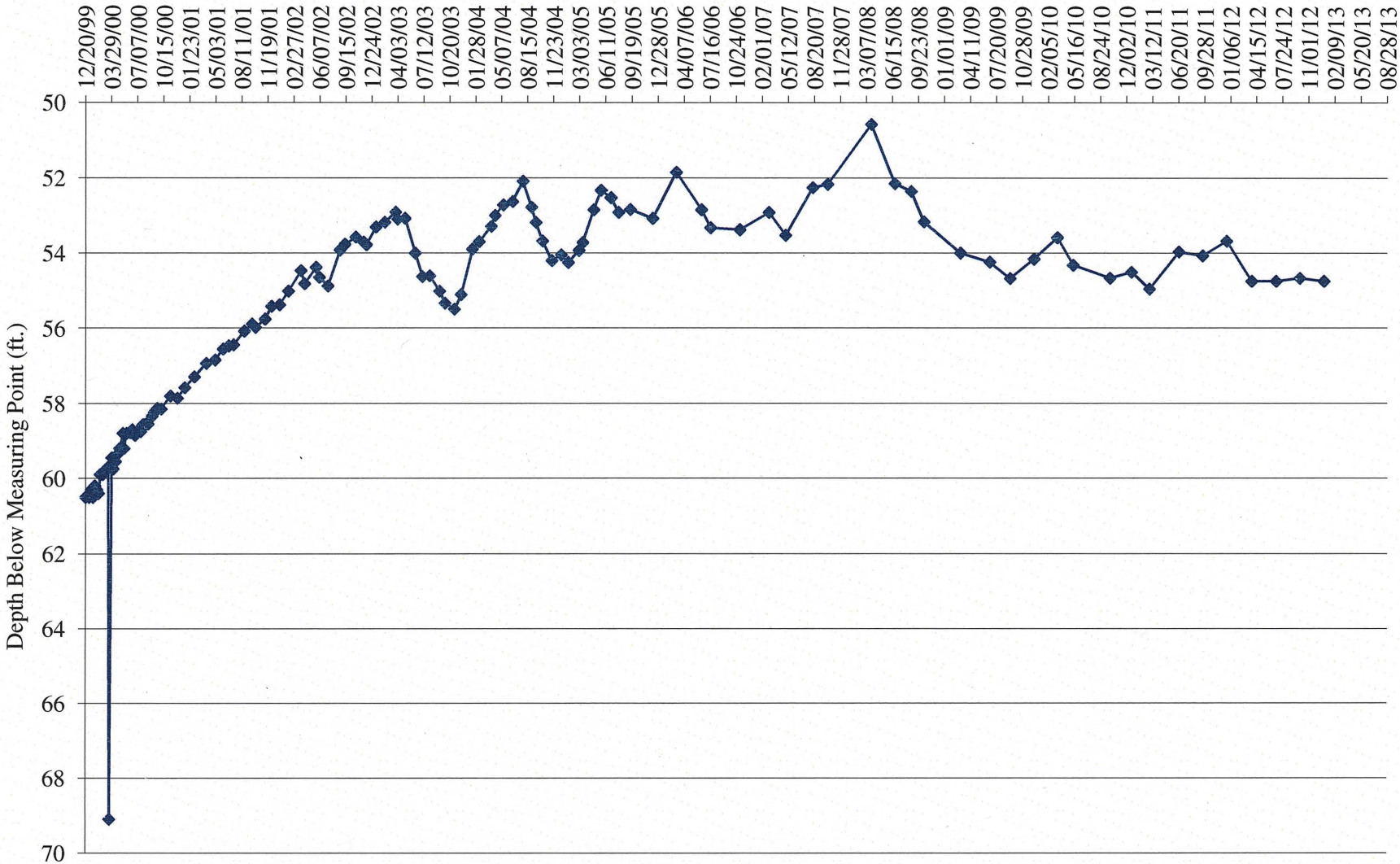
TW4-7 Water Depth Over Time (ft. blmp)



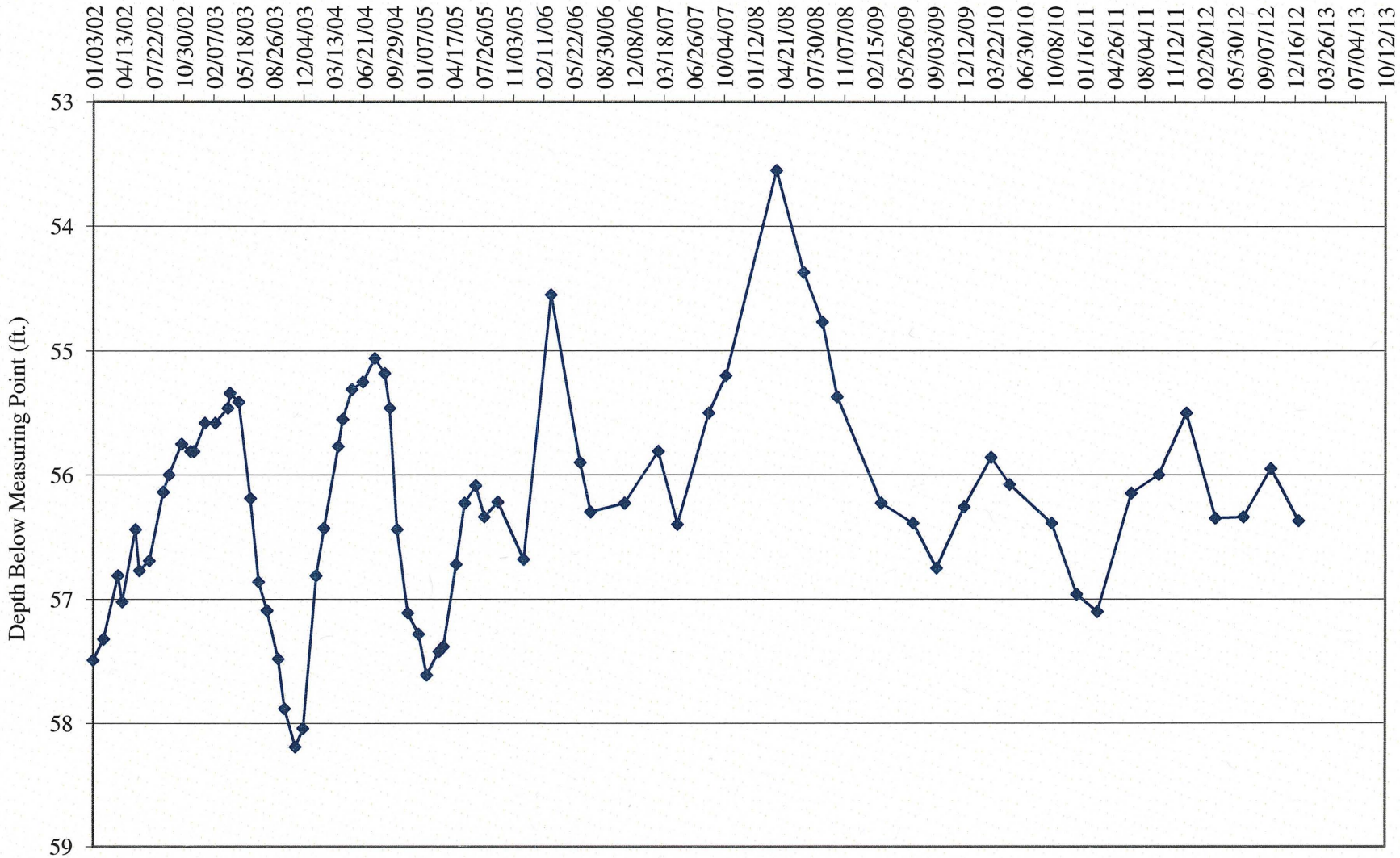
TW4-8 Water Depth Over Time (ft. blmp)



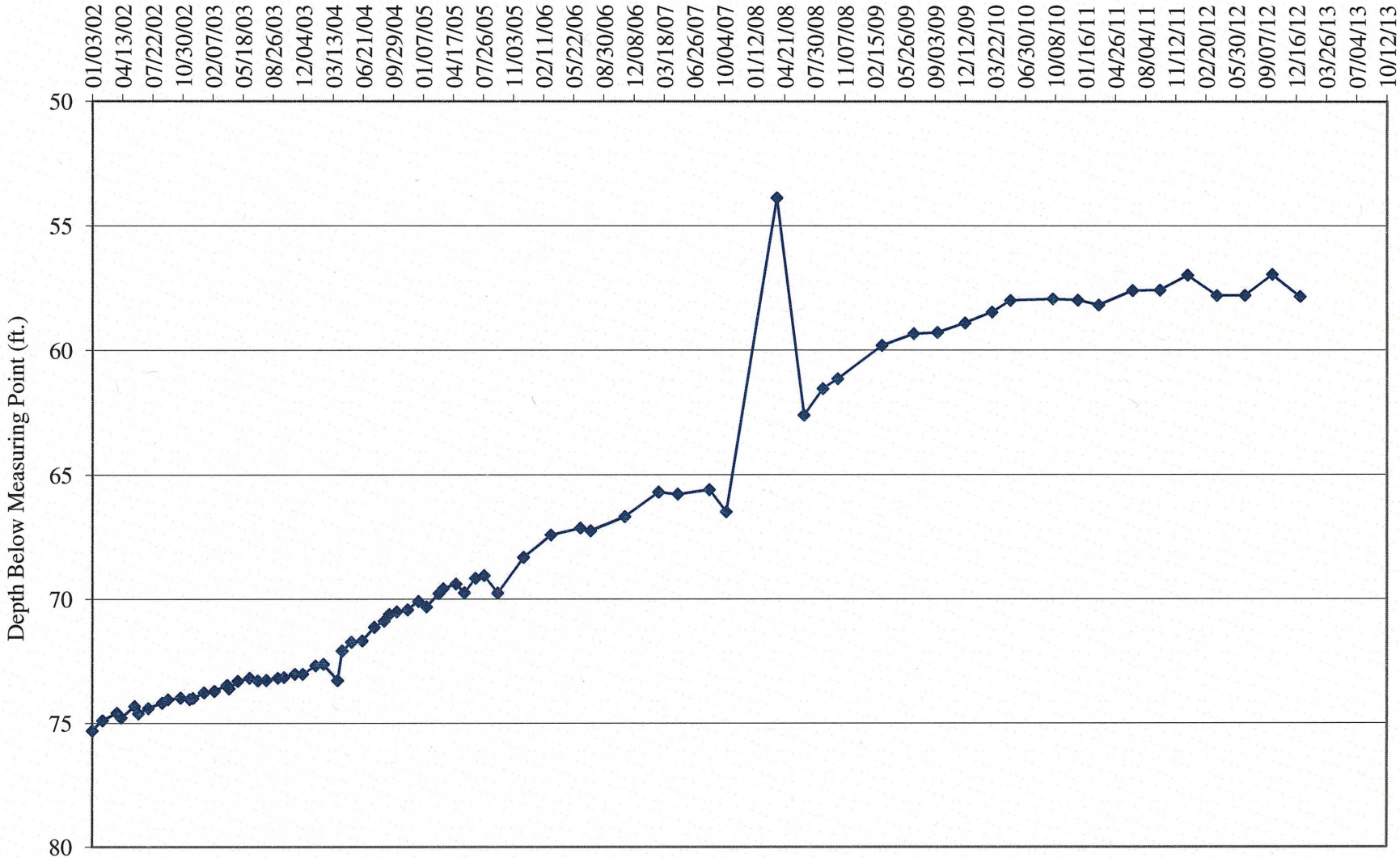
TW4-9 Water Depth Over Time (ft. blmp)



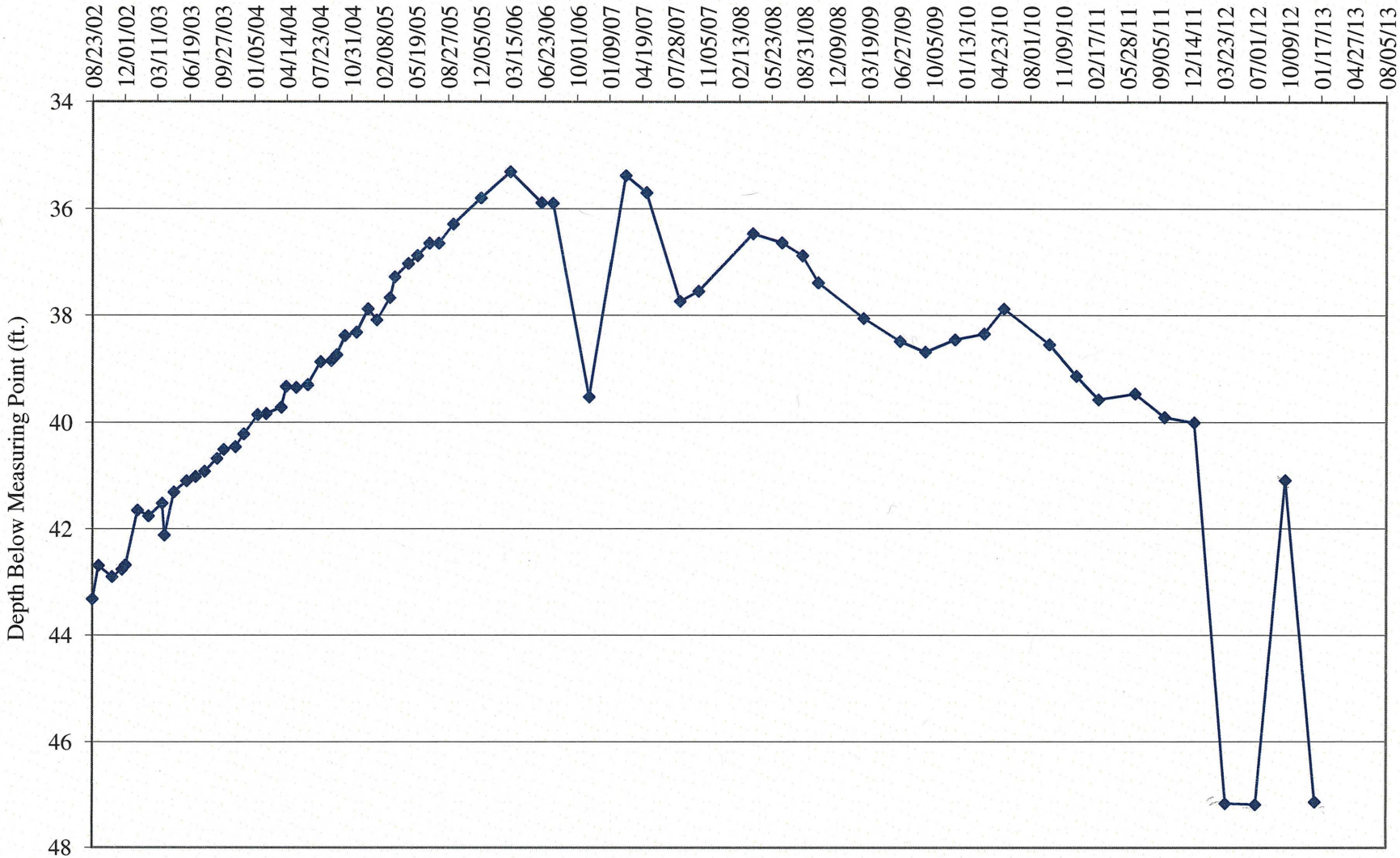
TW4-10 Water Depth Over Time (ft. blmp)



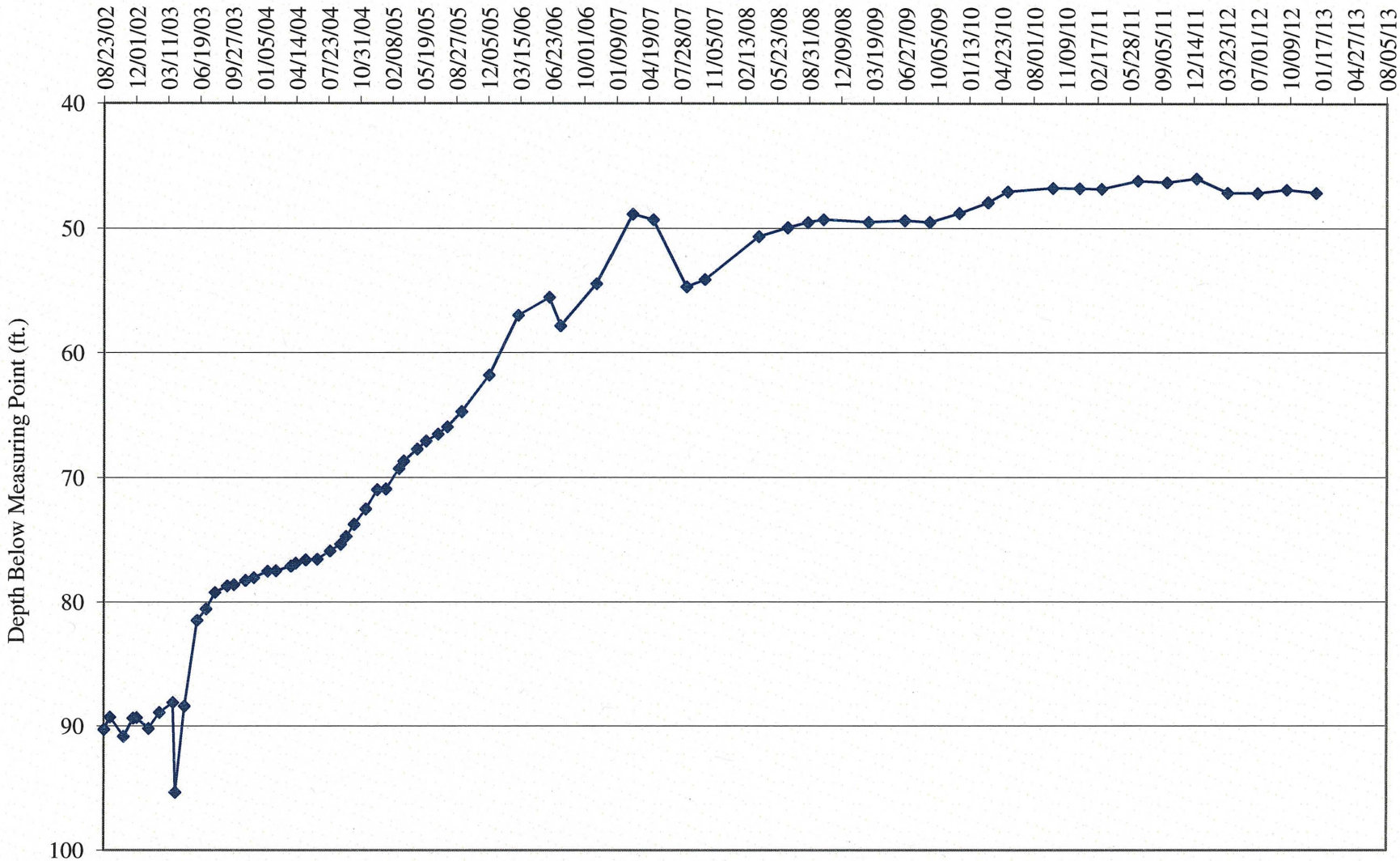
TW4-11 Water Depth Over Time (ft. blmp)



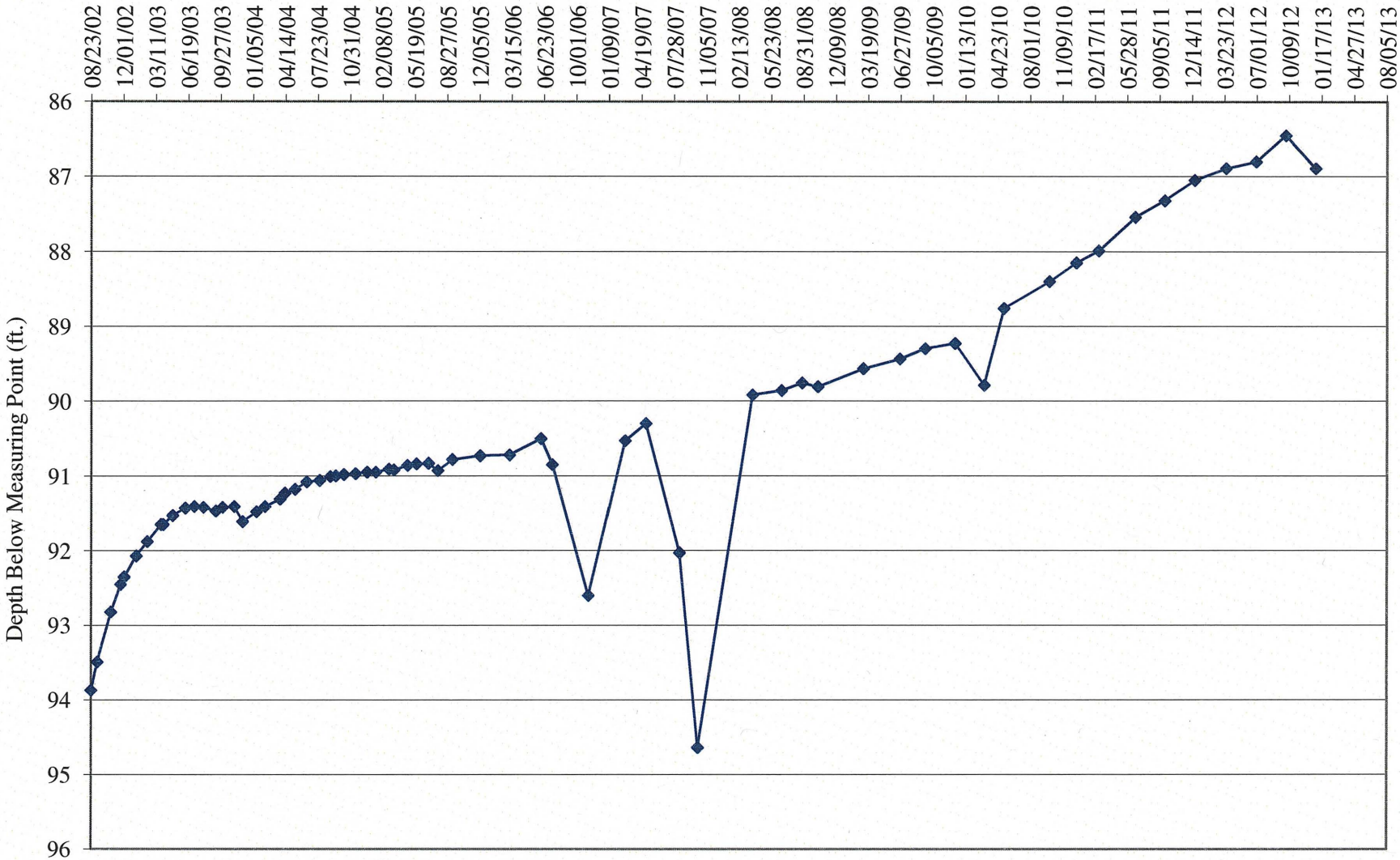
TW4-12 Water Depth Over Time (ft. blmp)



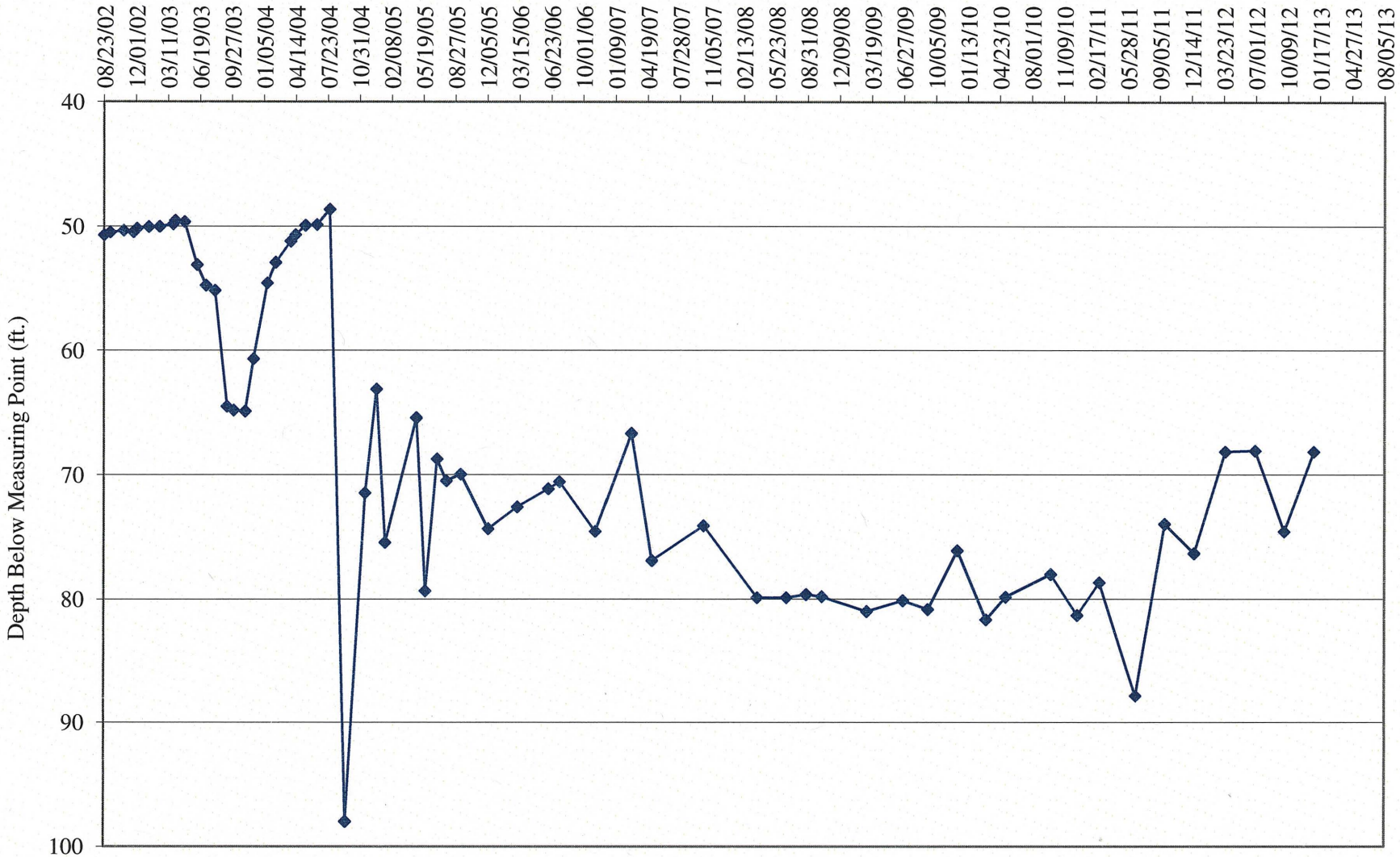
TW4-13 Water Depth Over Time (ft. blmp)



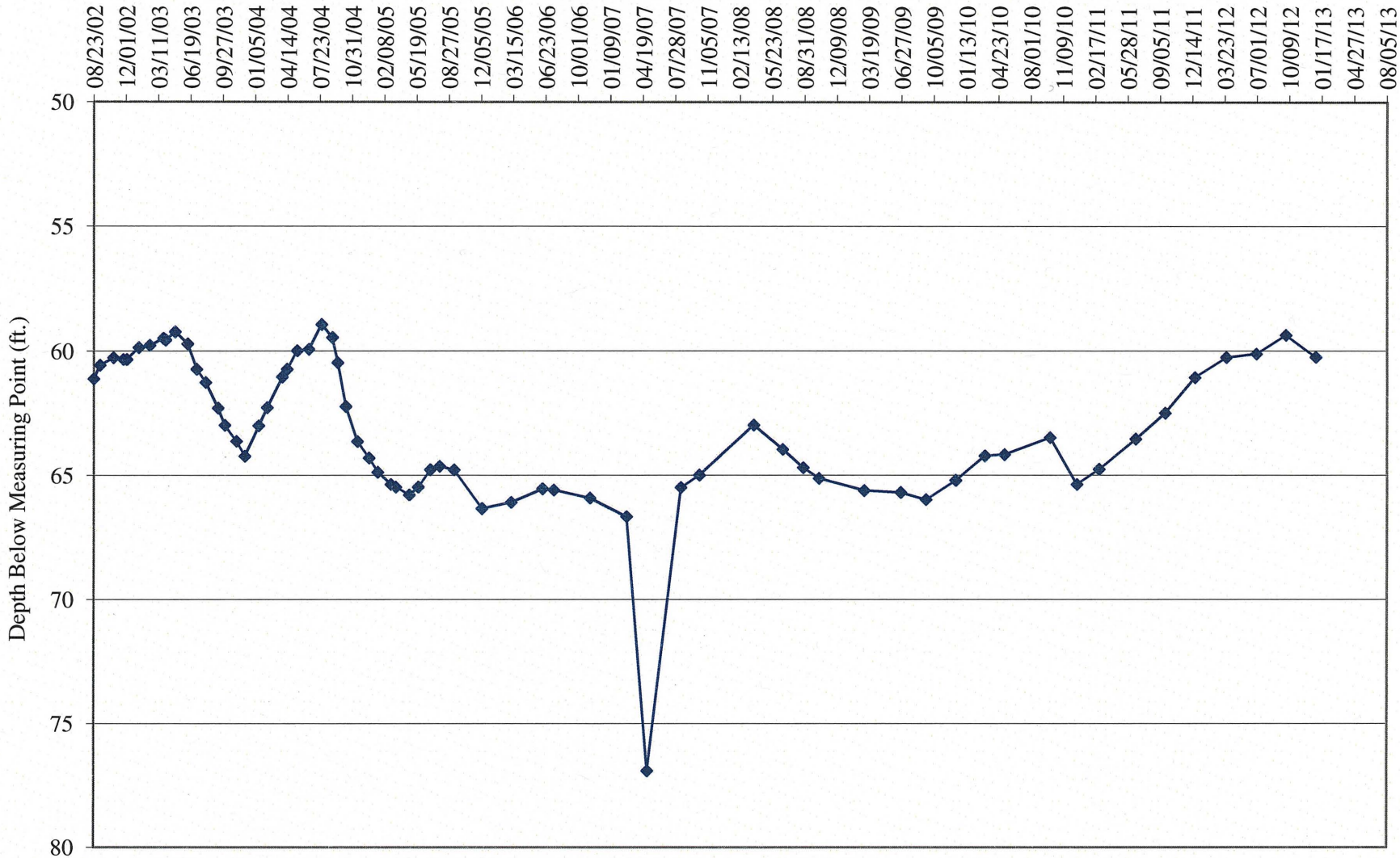
TW4-14 Water Depth Over Time (ft. blmp)



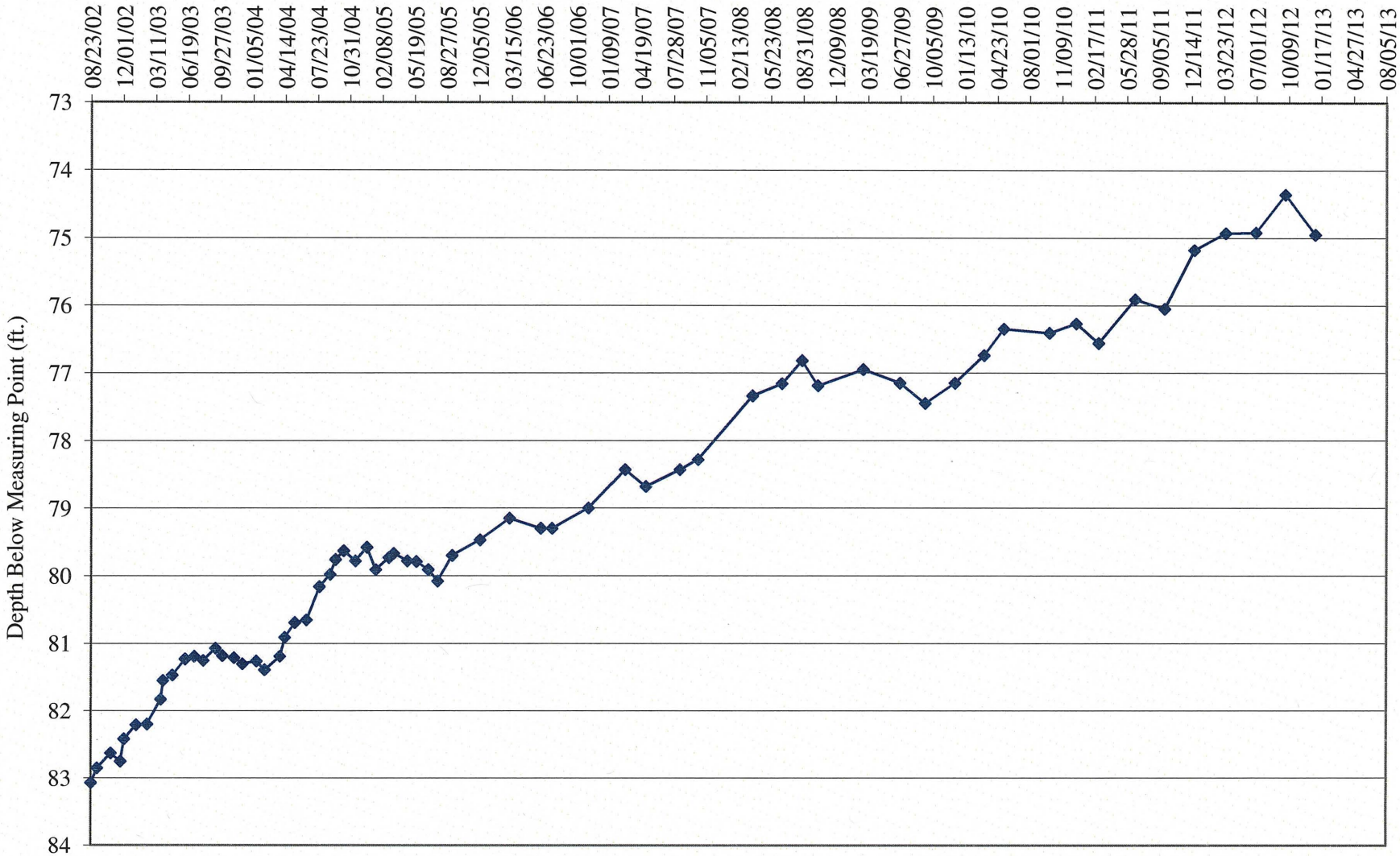
MW-26 Water Depth Over Time (ft. blmp)



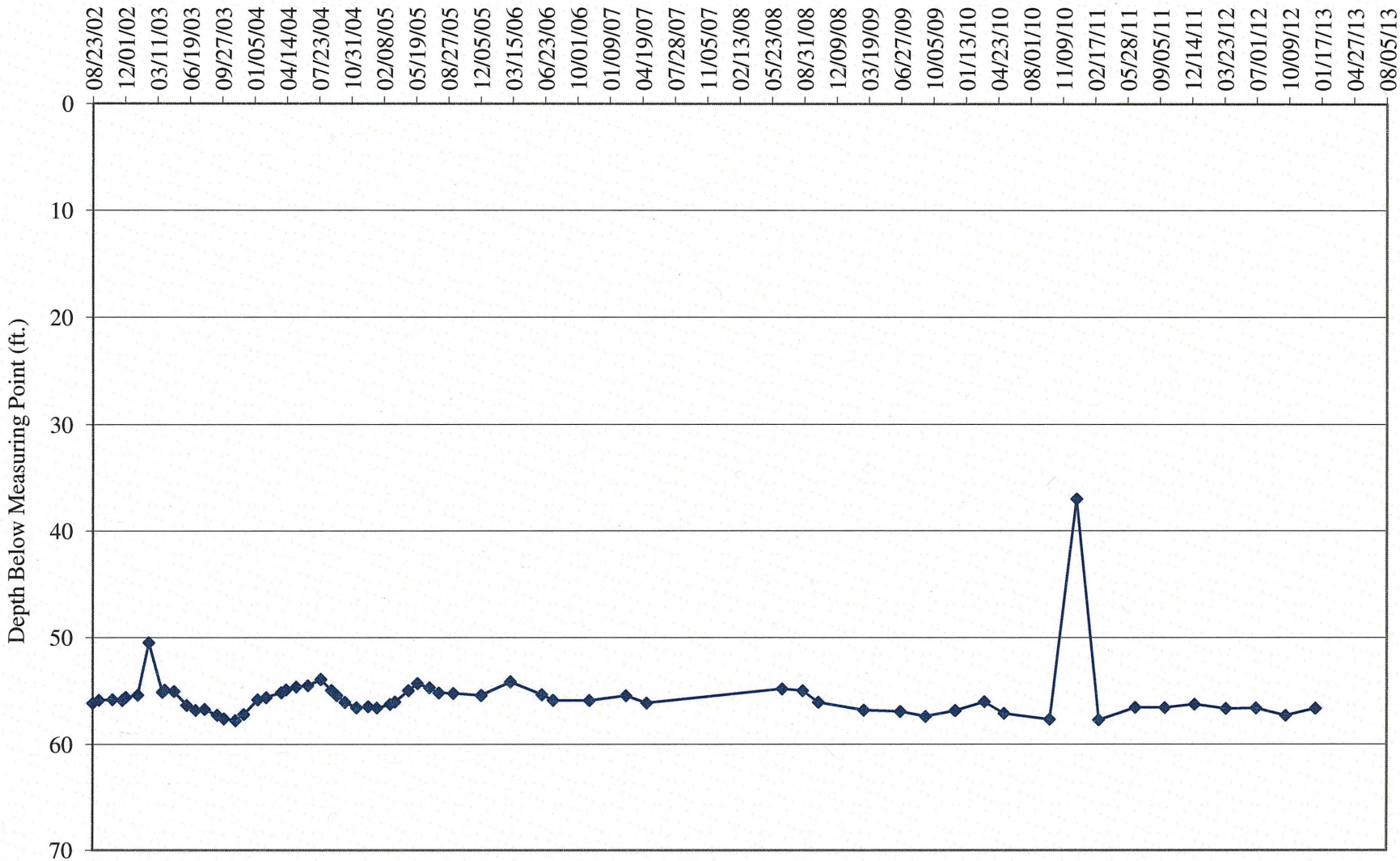
TW4-16 Water Depth Over Time (ft. blmp)



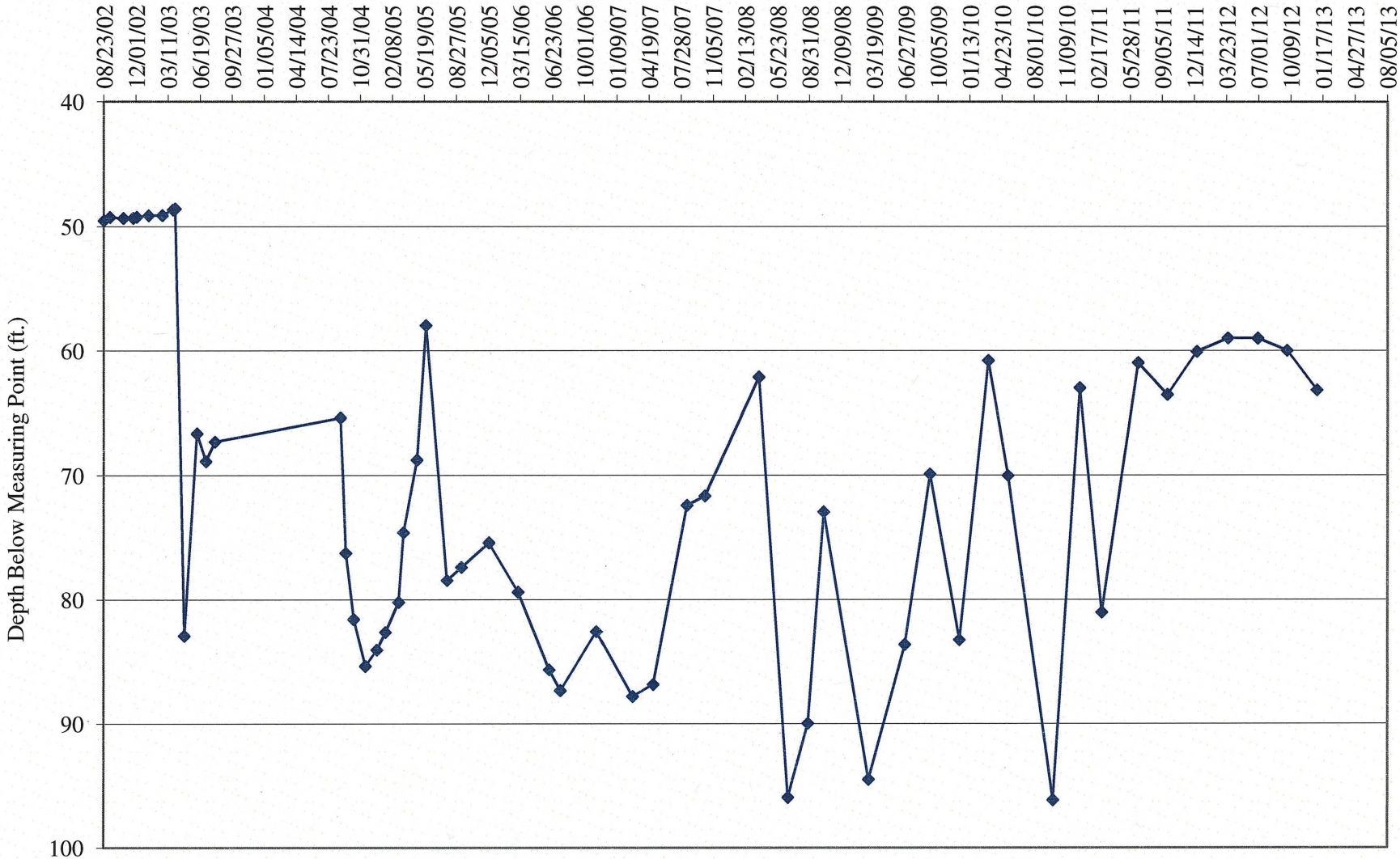
MW-32 Water Depth Over Time (ft. blmp)



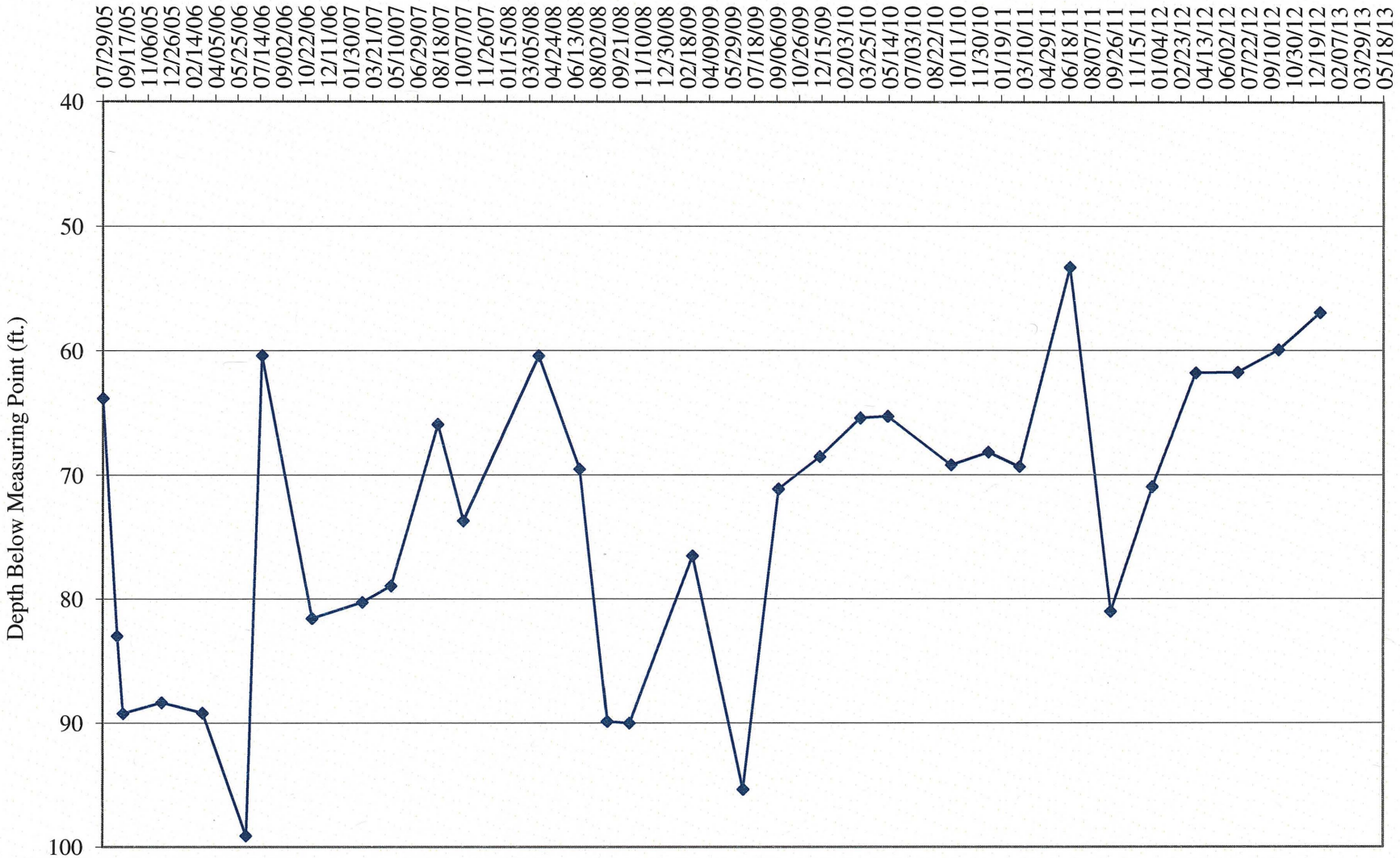
TW4-18 Water Depth Over Time (ft. blmp)



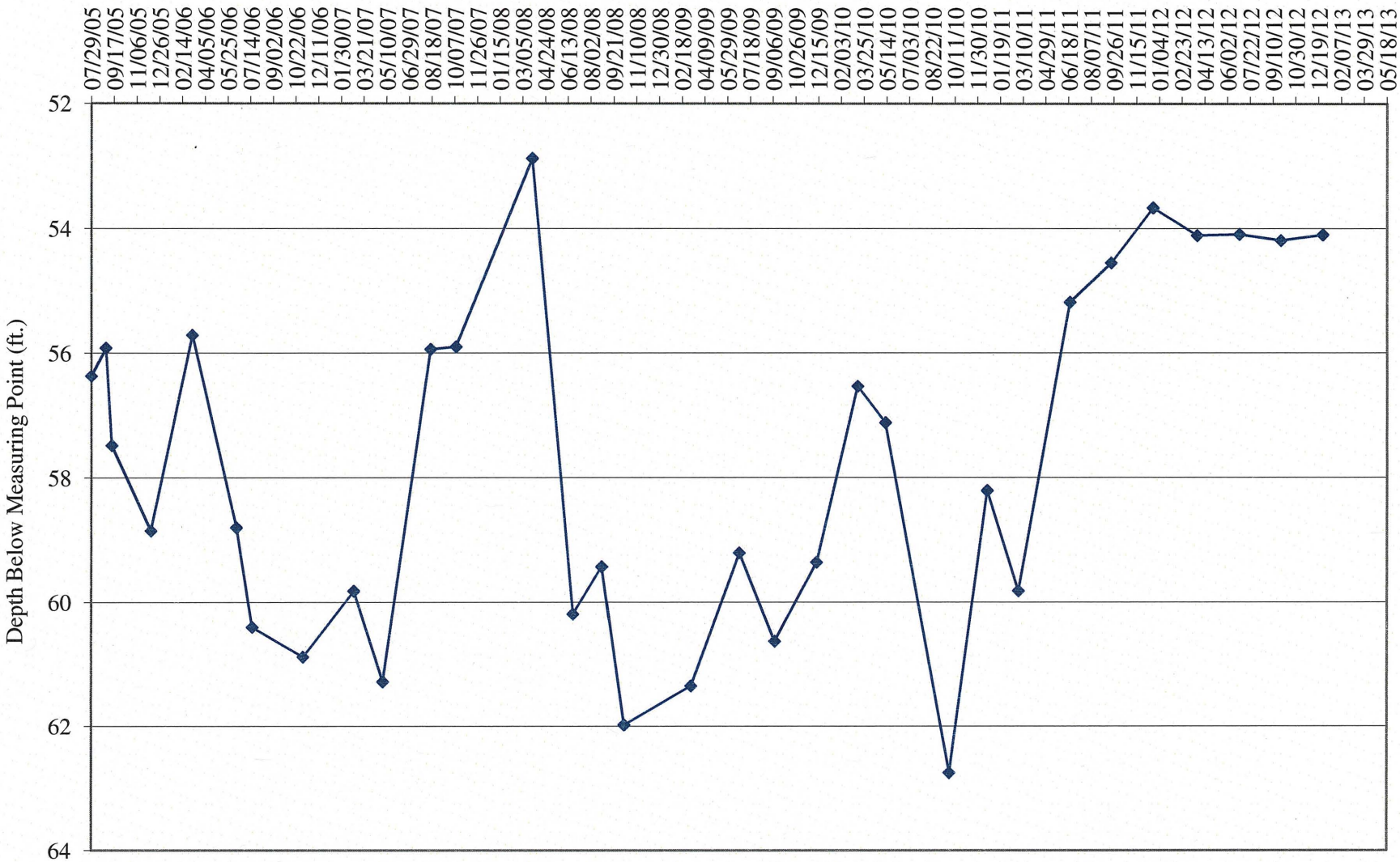
TW4-19 Water Depth Over Time (ft. blmp)



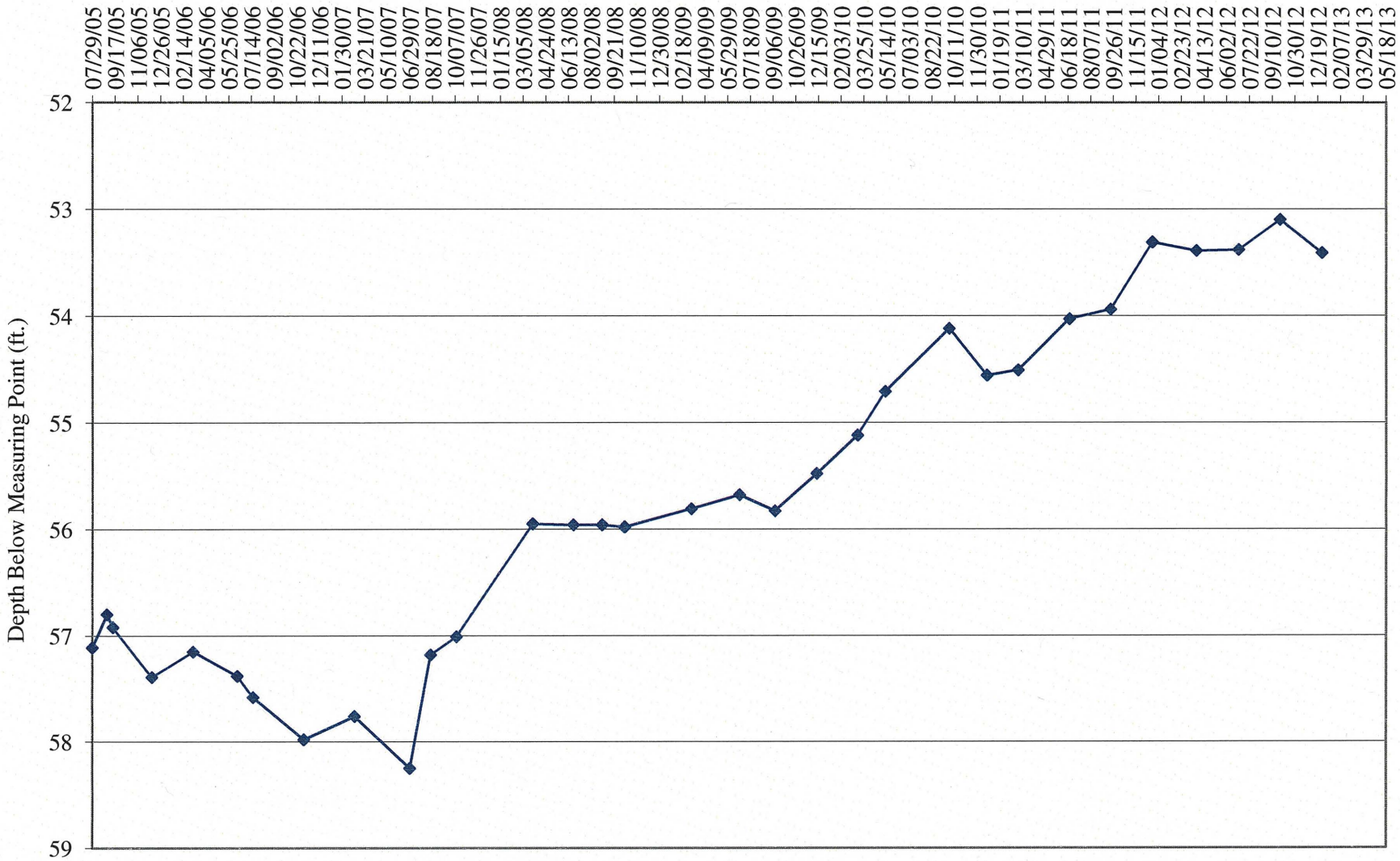
TW4-20 Water Depth Over Time (ft. blmp)



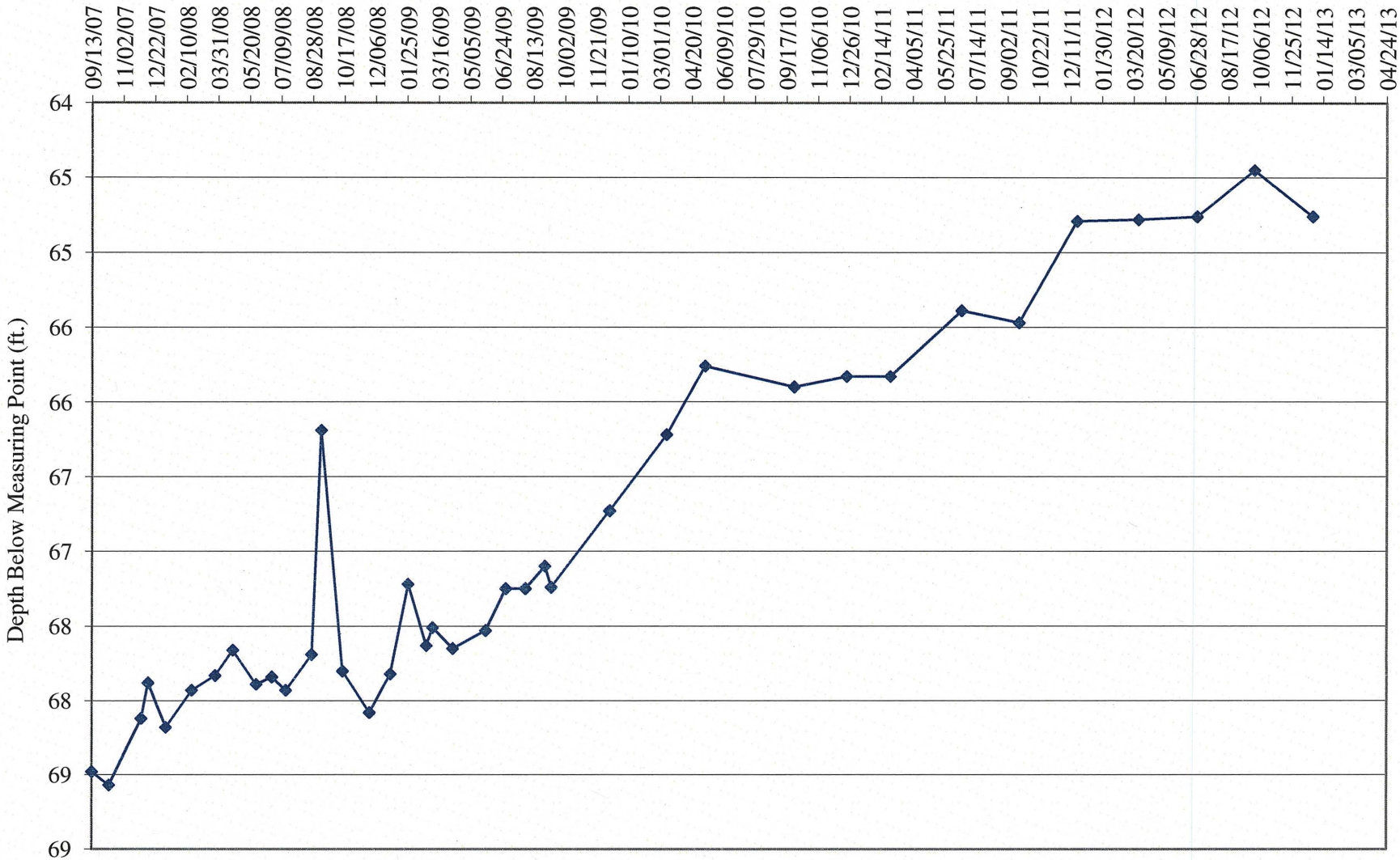
TW4-21 Water Depth Over Time (ft. blmp)



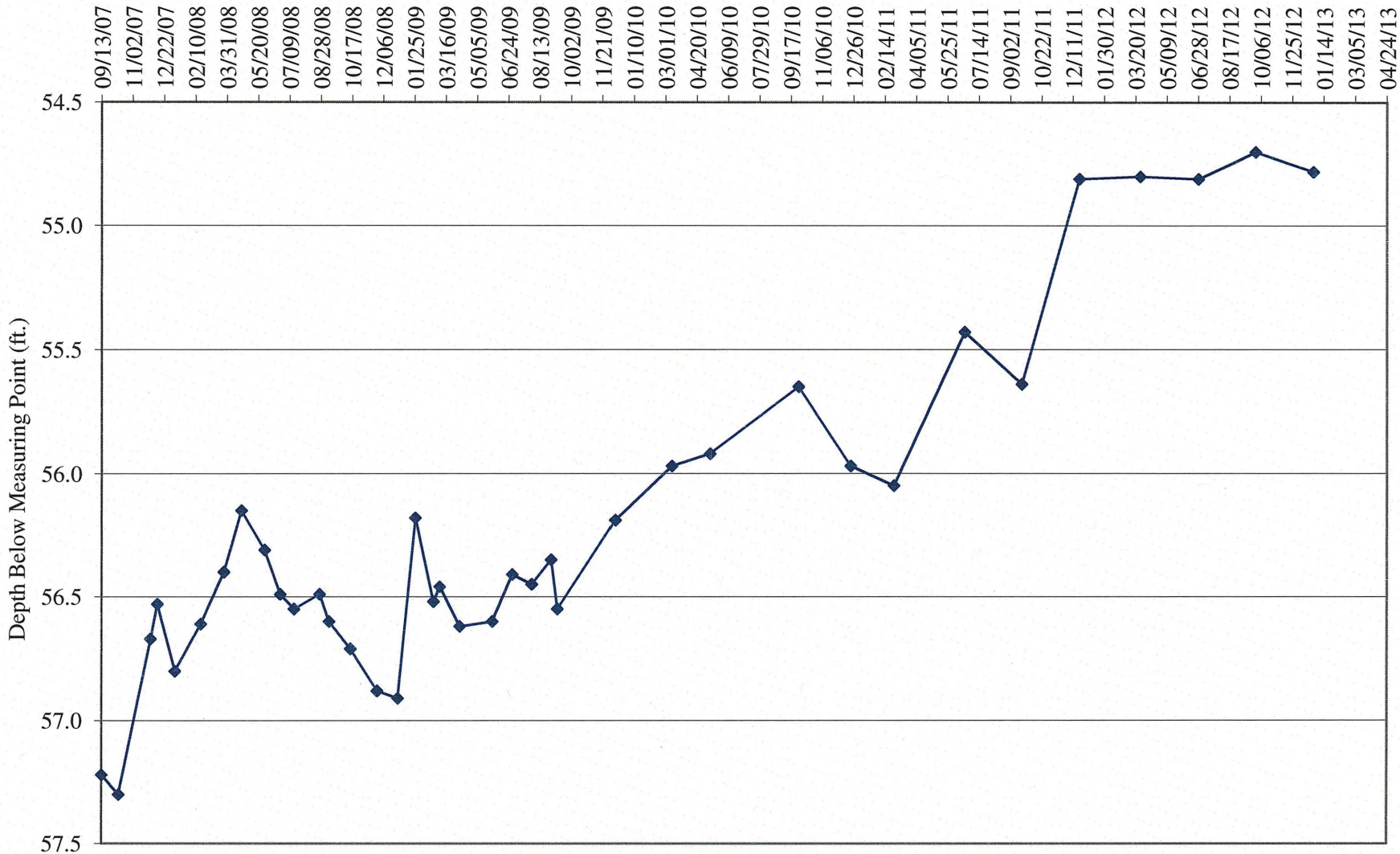
TW4-22 Water Depth Over Time (ft. blmp)



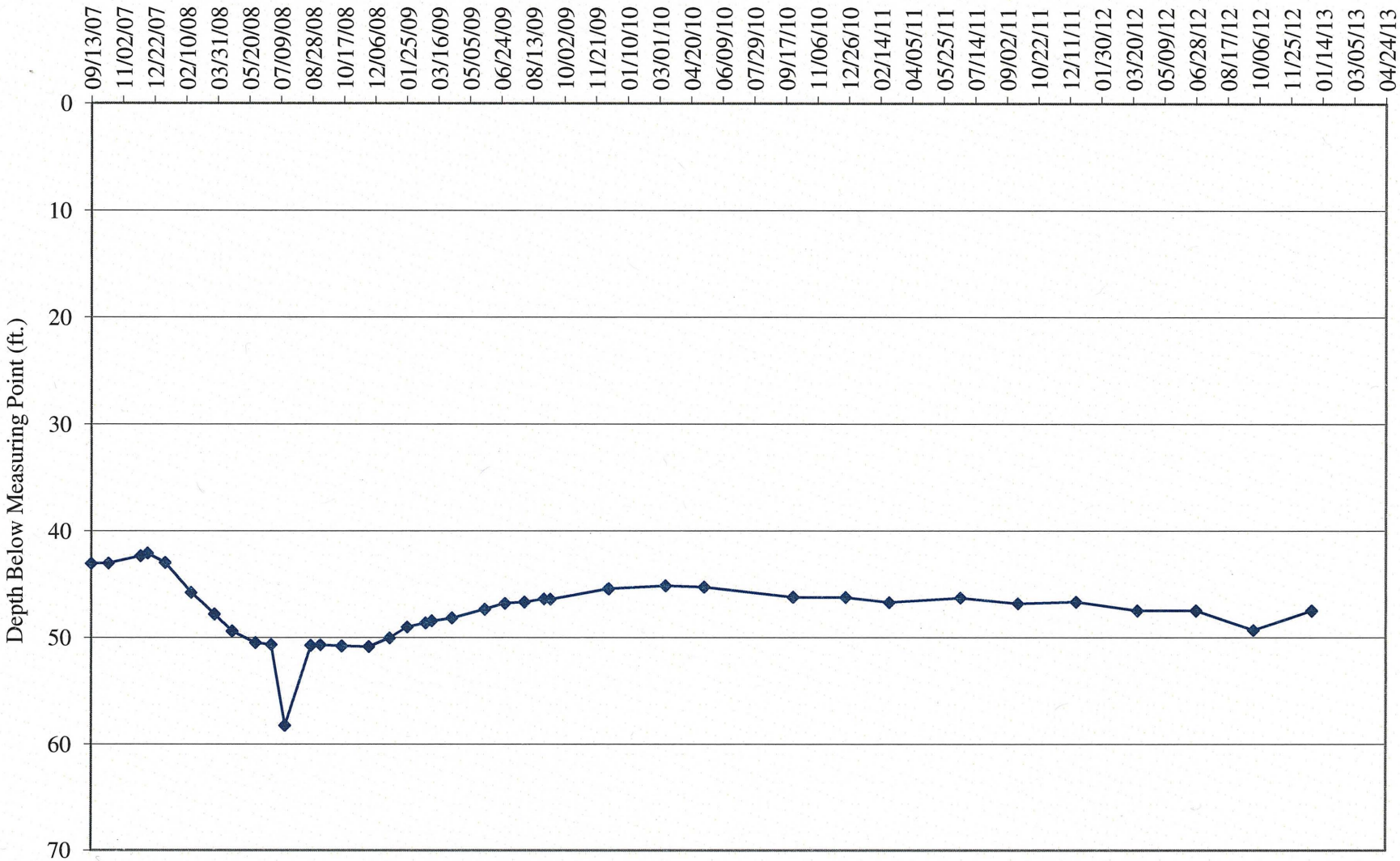
TW4-23 Water Depth Over Time (ft. blmp)

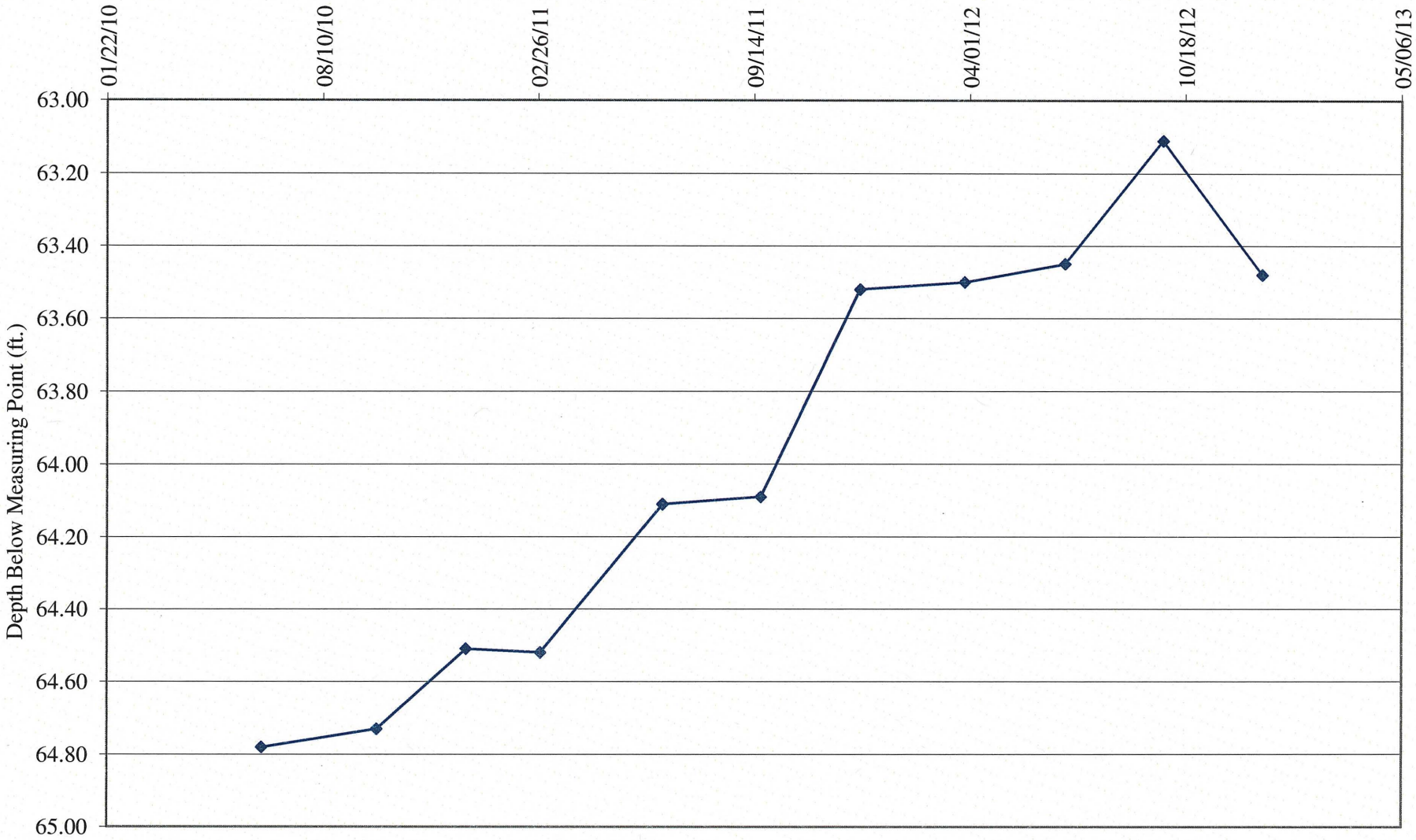


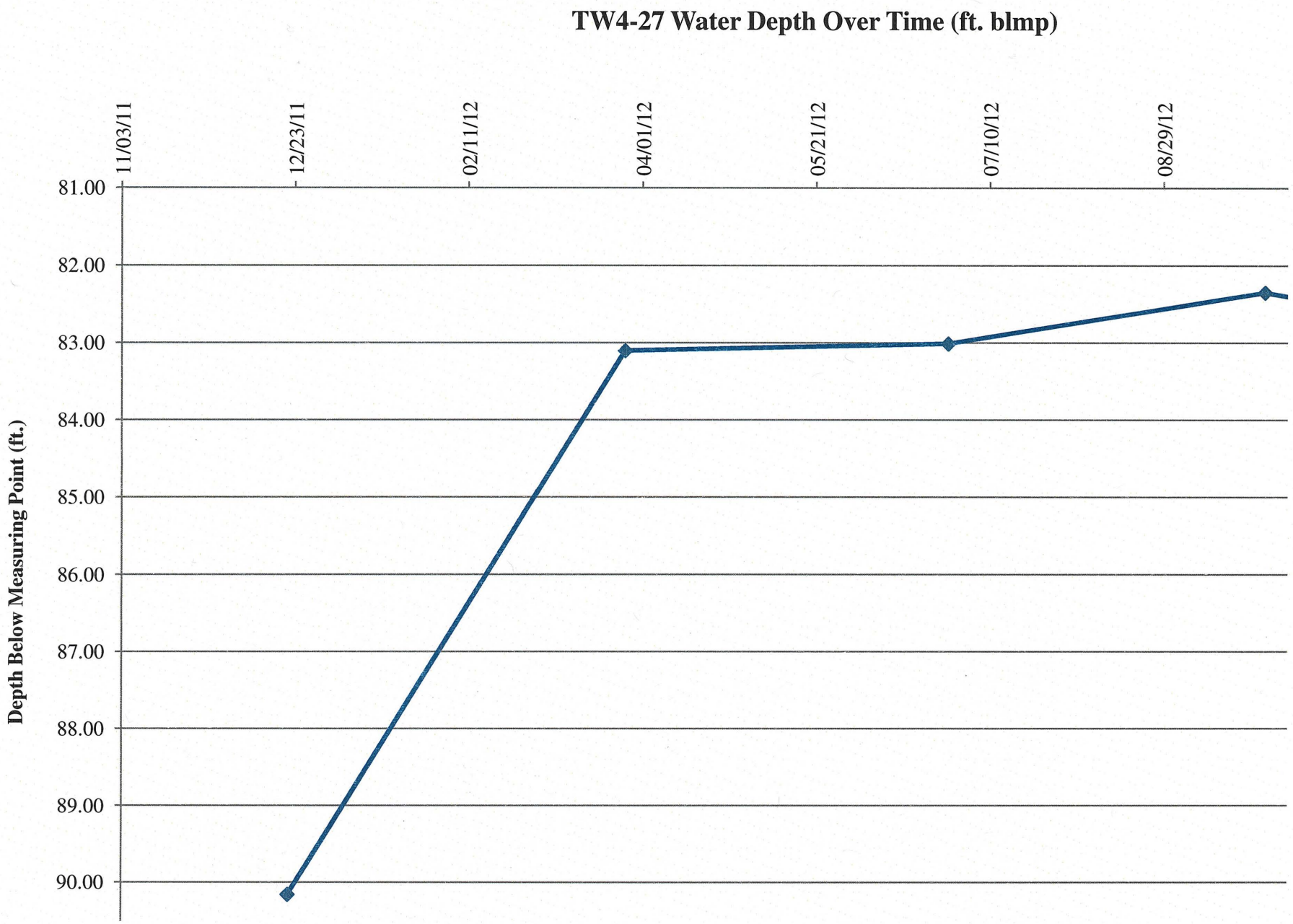
TW4-24 Water Depth Over Time (ft. blmp)



TW4-25 Water Depth Over Time (ft. blmp)




TW4-26 Water Depth Over Time (ft. blmp)
01/22/10
08/10/10
02/26/11
09/14/11
04/01/12
10/18/12
05/06/13
63.00
63.20
63.40
63.60
63.80
64.00
64.20
64.40
64.60
64.80
65.00
Depth Below Measuring Point (ft.)


TW4-27 Water Depth Over Time (ft. blmp)
11/03/11
12/23/11
02/11/12
04/01/12
05/21/12
07/10/12
08/29/12
81.00
82.00
83.00
84.00
85.00
86.00
87.00
88.00
89.00
90.00
Depth Below Measuring Point (ft.)

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	
5,551.01				12/21/10	71.32	69.76	

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
5,547.00				02/28/11	75.33	73.77	
5,557.54				06/21/11	64.79	63.23	
5,551.14				09/20/11	71.19	69.63	
5,550.32				12/21/11	72.01	70.45	
5,551.22				03/27/12	71.11	69.55	
5,551.29				06/28/12	71.04	69.48	
5,550.29				09/27/12	72.04	70.48	
5,549.31				12/28/12	73.02	71.46	

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	5,618.58	1.02				111.04
5,537.23				11/08/99	81.35	80.33	
5,537.38				11/09/99	81.20	80.18	
5,537.48				01/02/00	81.10	80.08	
5,537.48				01/10/00	81.10	80.08	
5,537.23				01/17/00	81.35	80.33	
5,537.28				01/24/00	81.30	80.28	
5,537.28				02/01/00	81.30	80.28	
5,537.18				02/07/00	81.40	80.38	
5,537.48				02/14/00	81.10	80.08	
5,537.48				02/23/00	81.10	80.08	
5,537.58				03/01/00	81.00	79.98	
5,537.68				03/08/00	80.90	79.88	
5,537.98				03/15/00	80.60	79.58	
5,537.68				03/20/00	80.90	79.88	
5,537.68				03/29/00	80.90	79.88	
5,537.43				04/04/00	81.15	80.13	
5,537.18				04/13/00	81.40	80.38	
5,537.48				04/21/00	81.10	80.08	
5,537.68				04/28/00	80.90	79.88	
5,537.58				05/01/00	81.00	79.98	
5,537.88				05/11/00	80.70	79.68	
5,537.58				05/15/00	81.00	79.98	
5,537.88				05/25/00	80.70	79.68	
5,537.88				06/09/00	80.70	79.68	
5,537.90				06/16/00	80.68	79.66	
5,537.88				06/26/00	80.70	79.68	
5,538.10				07/06/00	80.48	79.46	
5,538.04				07/13/00	80.54	79.52	
5,538.16				07/18/00	80.42	79.40	
5,538.42				07/27/00	80.16	79.14	
5,538.56				08/02/00	80.02	79.00	
5,538.68				08/09/00	79.90	78.88	
5,538.66				08/15/00	79.92	78.90	
5,538.33				08/31/00	80.25	79.23	
5,539.18				09/01/00	79.40	78.38	
5,539.12				09/08/00	79.46	78.44	
5,539.34				09/13/00	79.24	78.22	
5,539.50				09/20/00	79.08	78.06	
5,539.69				10/05/00	78.89	77.87	
5,540.33				11/09/00	78.25	77.23	
5,540.74				12/06/00	77.84	76.82	
5,542.39				01/14/01	76.19	75.17	
5,543.69				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	5,618.58	1.02				111.04
5,544.96				03/29/01	73.62	72.60	
5,545.45				04/30/01	73.13	72.11	
5,545.89				05/31/01	72.69	71.67	
5,546.19				06/21/01	72.39	71.37	
5,546.50				07/10/01	72.08	71.06	
5,547.18				08/20/01	71.40	70.38	
5,547.59				09/19/01	70.99	69.97	
5,547.84				10/02/01	70.74	69.72	
5,548.12				11/08/01	70.46	69.44	
5,548.65				12/03/01	69.93	68.91	
5,548.87				01/03/02	69.71	68.69	
5,549.37				02/06/02	69.21	68.19	
5,550.00				03/26/02	68.58	67.56	
5,550.22				04/09/02	68.36	67.34	
5,550.81				05/23/02	67.77	66.75	
5,550.79				06/05/02	67.79	66.77	
5,551.08				07/08/02	67.50	66.48	
5,551.54				08/23/02	67.04	66.02	
5,551.79				09/11/02	66.79	65.77	
5,552.19				10/23/02	66.39	65.37	
5,552.27				11/22/02	66.31	65.29	
5,552.48				12/03/02	66.10	65.08	
5,552.74				01/09/03	65.84	64.82	
5,552.92				02/12/03	65.66	64.64	
5,553.40				03/26/03	65.18	64.16	
5,553.48				04/02/03	65.10	64.08	
5,552.32				05/01/03	66.26	65.24	
5,550.53				06/09/03	68.05	67.03	
5,550.09				07/07/03	68.49	67.47	
5,549.64				08/04/03	68.94	67.92	
5,549.31				09/11/03	69.27	68.25	
5,549.58				10/02/03	69.00	67.98	
5,549.50				11/07/03	69.08	68.06	
5,550.07				12/03/03	68.51	67.49	
5,551.86				01/15/04	66.72	65.70	
5,552.57				02/10/04	66.01	64.99	
5,553.63				03/28/04	64.95	63.93	
5,554.04				04/12/04	64.54	63.52	
5,554.60				05/13/04	63.98	62.96	
5,556.28				06/18/04	62.30	61.28	
5,556.61				07/28/04	61.97	60.95	
5,554.21				08/30/04	64.37	63.35	
5,553.49				09/16/04	65.09	64.07	

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	5,618.58	1.02				111.04
5,552.53				10/11/04	66.05	65.03	
5,552.42				11/16/04	66.16	65.14	
5,552.46				12/22/04	66.12	65.10	
5,552.07				01/18/05	66.51	65.49	
5,552.21				02/28/05	66.37	65.35	
5,552.26				03/15/05	66.32	65.30	
5,552.30				04/26/05	66.28	65.26	
5,552.25				05/24/05	66.33	65.31	
5,552.22				06/30/05	66.36	65.34	
5,552.15				07/29/05	66.43	65.41	
5,552.47				09/12/05	66.11	65.09	
5,552.50				12/07/05	66.08	65.06	
5,552.96				03/08/06	65.62	64.60	
5,553.23				06/14/06	65.35	64.33	
5,557.20				07/18/06	61.38	60.36	
5,553.32				11/07/06	65.26	64.24	
5,554.35				02/27/07	64.23	63.21	
5,554.07				05/02/07	64.51	63.49	
5,554.07				08/14/07	64.51	63.49	
5,553.88				10/10/07	64.70	63.68	
5,555.73				03/26/08	62.85	61.83	
5,556.60				06/24/08	61.98	60.96	
5,556.83				08/26/08	61.75	60.73	
5,556.87				10/14/08	61.71	60.69	
5,556.90				03/10/09	61.68	60.66	
5,556.91				06/24/09	61.67	60.65	
5,556.61				09/10/09	61.97	60.95	
5,556.78				12/11/09	61.8	60.78	
5,556.75				03/11/10	61.83	60.81	
5,556.19				05/11/10	62.39	61.37	
5,555.26				09/29/10	63.32	62.30	
5,554.66				12/21/10	63.92	62.90	
5,554.74				02/28/11	63.84	62.82	
5,554.57				06/21/11	64.01	62.99	
5,554.13				09/20/11	64.45	63.43	
5,554.54				12/21/11	64.04	63.02	
5,553.64				03/27/12	64.94	63.92	
5,553.66				06/28/12	64.92	63.90	
5,553.73				09/27/12	64.85	63.83	
5,553.59				12/28/12	64.99	63.97	

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	5,624.72	1.62				121.125
5,548.57				11/08/99	76.15	74.53	
5,548.57				11/09/99	76.15	74.53	
5,548.32				01/02/00	76.40	74.78	
5,548.52				01/10/00	76.20	74.58	
5,548.32				01/17/00	76.40	74.78	
5,548.72				01/24/00	76.00	74.38	
5,548.62				02/01/00	76.10	74.48	
5,548.62				02/07/00	76.10	74.48	
5,549.02				02/14/00	75.70	74.08	
5,549.12				02/23/00	75.60	73.98	
5,549.22				03/01/00	75.50	73.88	
5,549.32				03/08/00	75.40	73.78	
5,549.22				03/15/00	75.50	73.88	
5,549.92				03/20/00	74.80	73.18	
5,549.72				03/29/00	75.00	73.38	
5,549.42				04/04/00	75.30	73.68	
5,549.52				04/13/00	75.20	73.58	
5,549.72				04/21/00	75.00	73.38	
5,549.82				04/28/00	74.90	73.28	
5,549.82				05/01/00	74.90	73.28	
5,550.12				05/11/00	74.60	72.98	
5,549.82				05/15/00	74.90	73.28	
5,550.12				05/25/00	74.60	72.98	
5,550.12				06/09/00	74.60	72.98	
5,550.22				06/16/00	74.50	72.88	
5,550.07				06/26/00	74.65	73.03	
5,550.17				07/06/00	74.55	72.93	
5,550.17				07/13/00	74.55	72.93	
5,550.18				07/18/00	74.54	72.92	
5,550.33				07/27/00	74.39	72.77	
5,550.38				08/02/00	74.34	72.72	
5,550.40				08/09/00	74.32	72.70	
5,550.42				08/15/00	74.30	72.68	
5,550.54				08/31/00	74.18	72.56	
5,550.87				09/08/00	73.85	72.23	
5,550.97				09/13/00	73.75	72.13	
5,551.04				09/20/00	73.68	72.06	
5,545.83				10/05/00	78.89	77.27	
5,546.47				11/09/00	78.25	76.63	
5,546.88				12/06/00	77.84	76.22	
5,552.18				01/26/01	72.54	70.92	
5,552.20				02/02/01	72.52	70.90	
5,551.10				03/29/01	73.62	72.00	

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	5,624.72	1.62				121.125
5,551.59				04/30/01	73.13	71.51	
5,552.03				05/31/01	72.69	71.07	
5,552.33				06/21/01	72.39	70.77	
5,552.64				07/10/01	72.08	70.46	
5,553.32				08/20/01	71.40	69.78	
5,553.73				09/19/01	70.99	69.37	
5,553.98				10/02/01	70.74	69.12	
5,554.14				11/08/01	70.58	68.96	
5,554.79				12/03/01	69.93	68.31	
5,554.74				01/03/02	69.98	68.36	
5,554.91				02/06/02	69.81	68.19	
5,555.15				03/26/02	69.57	67.95	
5,555.39				04/09/02	69.33	67.71	
5,555.73				05/23/02	68.99	67.37	
5,555.79				06/05/02	68.93	67.31	
5,555.91				07/08/02	68.81	67.19	
5,556.04				08/23/02	68.68	67.06	
5,556.25				09/11/02	68.47	66.85	
5,556.72				10/23/02	68.00	66.38	
5,556.42				11/22/02	68.30	66.68	
5,557.01				12/03/02	67.71	66.09	
5,557.20				01/09/03	67.52	65.90	
5,557.35				02/12/03	67.37	65.75	
5,557.83				03/26/03	66.89	65.27	
5,557.87				04/02/03	66.85	65.23	
5,553.71				05/01/03	71.01	69.39	
5,548.98				06/09/03	75.74	74.12	
5,548.14				07/07/03	76.58	74.96	
5,547.75				08/04/03	76.97	75.35	
5,547.22				09/11/03	77.50	75.88	
5,547.68				10/02/03	77.04	75.42	
5,547.52				11/07/03	77.20	75.58	
5,548.29				12/03/03	76.43	74.81	
5,554.00				01/15/04	70.72	69.10	
5,555.46				02/10/04	69.26	67.64	
5,556.90				03/28/04	67.82	66.20	
5,557.49				04/12/04	67.23	65.61	
5,558.07				05/13/04	66.65	65.03	
5,558.19				06/18/04	66.53	64.91	
5,559.00				07/28/04	65.72	64.10	
5,554.26				08/30/04	70.46	68.84	
5,551.97				09/16/04	72.75	71.13	
5,549.65				10/11/04	75.07	73.45	

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	5,624.72	1.62				121.125
5,549.89				11/16/04	74.83	73.21	
5,550.37				12/22/04	74.35	72.73	
5,549.95				01/18/05	74.77	73.15	
5,550.09				02/28/05	74.63	73.01	
5,550.13				03/15/05	74.59	72.97	
5,550.18				04/26/05	74.54	72.92	
5,550.32				05/24/05	74.40	72.78	
5,550.21				06/30/05	74.51	72.89	
5,550.11				07/29/05	74.61	72.99	
5,550.33				09/12/05	74.39	72.77	
5,550.29				12/07/05	74.43	72.81	
5,551.30				03/08/06	73.42	71.80	
5,551.42				06/14/06	73.3	71.68	
5,550.52				07/18/06	74.20	72.58	
5550.52				11/07/06	74.20	72.58	
5552.89				02/27/07	71.83	70.21	
5,552.06				05/02/07	72.66	71.04	
5,552.02				08/14/07	72.7	71.08	
5,552.20				10/10/07	72.52	70.90	
5,554.58				03/26/08	70.14	68.52	
5,555.23				06/24/08	69.49	67.87	
5,555.29				08/26/08	69.43	67.81	
5,555.43				10/14/08	69.29	67.67	
5,555.73				03/10/09	68.99	67.37	
5,556.25				06/24/09	68.47	66.85	
5,555.94				09/10/09	68.78	67.16	
5,556.53				12/11/09	68.19	66.57	
5,557.87				03/11/10	66.85	65.23	
5,557.63				05/11/10	67.09	65.47	
5,557.24				09/29/10	67.48	65.86	
5,557.00				12/21/10	67.72	66.10	
5,557.61				02/28/11	67.11	65.49	
5,557.58				06/21/11	67.14	65.52	
5,557.46				09/20/11	67.26	65.64	
5,557.84				12/21/11	66.88	65.26	
5,557.86				03/27/12	66.86	65.24	
5,557.87				06/28/12	66.85	65.23	
5,557.46				09/27/12	67.26	65.64	
5,557.82				12/28/12	66.9	65.28	

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	
5,572.78				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	
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	

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
5,579.93				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	
5,582.86				12/21/10	49.37	48.35	
5,582.60				02/28/11	49.63	48.61	
5,590.00				06/21/11	42.23	41.21	
5,582.70				09/20/11	49.53	48.51	
5,583.05				12/21/11	49.18	48.16	
5,581.93				03/27/12	50.30	49.28	
5,582.03				06/28/12	50.20	49.18	
5,582.08				09/27/12	50.15	49.13	
5,581.94				12/28/12	50.29	49.27	

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	
5,533.865				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	
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	

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
5,540.985				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	
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	

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
5,549.305				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	
5,533.66				12/21/10	79.83	78.65	
5,544.44				02/28/11	69.05	67.87	
5,543.73				06/21/11	69.76	68.58	
5,540.48				09/20/11	73.01	71.83	
5,544.36				12/21/11	69.13	67.95	
5,543.48				03/27/12	70.01	68.83	
5,543.49				06/28/12	70.00	68.82	
5,543.36				09/27/12	70.13	68.95	
5,543.51				12/28/12	69.98	68.80	

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	
5,583.49				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	
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	

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
5,584.65				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	
5,584.17				12/21/10	56.53	54.58	
5,583.55				02/28/11	57.15	55.20	
5,584.72				06/21/11	55.98	54.03	
5,584.62				09/20/11	56.08	54.13	
5,585.04				11/21/11	55.66	53.71	
5,583.89				03/27/12	56.81	54.86	
5,583.92				06/28/12	56.78	54.83	
5,583.89				09/27/12	56.81	54.86	
5,583.89				12/28/12	56.81	54.86	

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	
5,523.25				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	
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	

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
5,525.15				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	
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	

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
5,535.87				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	
5,538.04				12/21/10	70.74	69.29	
5,537.98				02/28/11	70.8	69.35	
5,538.46				06/21/11	70.32	68.87	
5,538.37				09/20/11	70.41	68.96	
5,538.87				12/21/11	69.91	68.46	
5,538.73				03/27/12	70.05	68.60	
5,538.80				06/28/12	69.98	68.53	
5,539.04				09/27/12	69.74	68.29	
5,538.74				12/28/12	70.04	68.59	

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	
5,553.40				12/21/10	67.67	66.47	
5,553.93				02/28/11	67.14	65.94	
5,553.67				06/21/11	67.4	66.20	
5,553.46				09/20/11	67.61	66.41	
5,553.78				12/21/11	67.29	66.09	
5,553.17				03/27/12	67.90	66.70	
5,553.21				06/28/12	67.86	66.66	
5,552.90				09/27/12	68.17	66.97	
5,553.15				12/28/12	67.92	66.72	

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	5,621.40	4.60				126.00
5,546.40				11/29/99	75.00	70.40	
5,546.20				01/02/00	75.20	70.60	
5,546.50				01/10/00	74.90	70.30	
5,546.30				01/17/00	75.10	70.50	
5,546.60				01/24/00	74.80	70.20	
5,546.50				02/01/00	74.90	70.30	
5,546.50				02/07/00	74.90	70.30	
5,546.90				02/14/00	74.50	69.90	
5,546.95				02/23/00	74.45	69.85	
5,547.05				03/01/00	74.35	69.75	
5,547.05				03/08/00	74.35	69.75	
5,547.10				03/15/00	74.30	69.70	
5,547.50				03/20/00	73.90	69.30	
5,547.40				03/29/00	74.00	69.40	
5,547.20				04/04/00	74.20	69.60	
5,547.40				04/13/00	74.00	69.40	
5,547.60				04/21/00	73.80	69.20	
5,547.70				04/28/00	73.70	69.10	
5,547.70				05/01/00	73.70	69.10	
5,548.00				05/11/00	73.40	68.80	
5,547.70				05/15/00	73.70	69.10	
5,547.90				05/25/00	73.50	68.90	
5,547.90				06/09/00	73.50	68.90	
5,548.00				06/16/00	73.40	68.80	
5,547.87				06/26/00	73.53	68.93	
5,547.95				07/06/00	73.45	68.85	
5,547.96				07/13/00	73.44	68.84	
5,547.95				07/18/00	73.45	68.85	
5,548.11				07/27/00	73.29	68.69	
5,548.15				08/02/00	73.25	68.65	
5,548.17				08/09/00	73.23	68.63	
5,548.16				08/15/00	73.24	68.64	
5,548.40				08/31/00	73.00	68.40	
5,548.50				09/08/00	72.90	68.30	
5,548.62				09/13/00	72.78	68.18	
5,548.75				09/20/00	72.65	68.05	
5,548.76				10/05/00	72.64	68.04	
5,549.00				11/09/00	72.40	67.80	
5,548.85				12/06/00	72.55	67.95	
5,549.47				01/03/01	71.93	67.33	
5,549.89				02/09/01	71.51	66.91	
5,550.37				03/27/01	71.03	66.43	
5,550.50				04/30/01	70.90	66.30	

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	5,621.40	4.60				126.00
5,550.68				05/31/01	70.72	66.12	
5,550.68				06/20/01	70.72	66.12	
5,551.02				07/10/01	70.38	65.78	
5,551.32				08/20/01	70.08	65.48	
5,551.49				09/19/01	69.91	65.31	
5,551.64				10/02/01	69.76	65.16	
5,551.81				11/08/01	69.59	64.99	
5,552.22				12/03/01	69.18	64.58	
5,552.16				01/03/02	69.24	64.64	
5,552.38				02/06/02	69.02	64.42	
5,552.85				03/26/02	68.55	63.95	
5,552.83				04/09/02	68.57	63.97	
5,553.20				05/23/02	68.20	63.60	
5,553.16				06/05/02	68.24	63.64	
5,553.32				07/08/02	68.08	63.48	
5,553.49				08/23/02	67.91	63.31	
5,553.69				09/11/02	67.71	63.11	
5,554.09				10/23/02	67.31	62.71	
5,554.02				11/22/02	67.38	62.78	
5,554.23				12/03/02	67.17	62.57	
5,554.43				01/09/03	66.97	62.37	
5,554.42				02/12/03	66.98	62.38	
5,554.71				03/26/03	66.69	62.09	
5,554.83				04/02/03	66.57	61.97	
5,552.21				05/01/03	69.19	64.59	
5,547.93				06/09/03	73.47	68.87	
5,546.97				07/07/03	74.43	69.83	
5,546.58				08/04/03	74.82	70.22	
5,546.24				09/11/03	75.16	70.56	
5,546.38				10/02/03	75.02	70.42	
5,546.40				11/07/03	75.00	70.40	
5,546.59				12/03/03	74.81	70.21	
5,551.29				01/15/04	70.11	65.51	
5,552.69				02/10/04	68.71	64.11	
5,554.06				03/28/04	67.34	62.74	
5,554.52				04/12/04	66.88	62.28	
5,555.06				05/13/04	66.34	61.74	
5,555.11				06/18/04	66.29	61.69	
5,555.88				07/28/04	65.52	60.92	
5,552.97				08/30/04	68.43	63.83	
5,550.65				09/16/04	70.75	66.15	
5,548.40				10/11/04	73.00	68.40	
5,548.28				11/16/04	73.12	68.52	

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	5,621.40	4.60				126.00
5,548.80				12/22/04	72.60	68.00	
5,548.43				01/18/05	72.97	68.37	
5,548.61				02/28/05	72.79	68.19	
5,548.64				03/15/05	72.76	68.16	
5,548.65				04/26/05	72.75	68.15	
5,548.85				05/24/05	72.55	67.95	
5,548.73				06/30/05	72.67	68.07	
5,548.62				07/29/05	72.78	68.18	
5,548.80				09/12/05	72.60	68.00	
5,548.71				12/07/05	72.69	68.09	
5,549.72				03/08/06	71.68	67.08	
5,549.70				06/13/06	71.70	67.10	
5,549.70				07/18/06	71.70	67.10	
5,549.65				11/07/06	71.75	67.15	
5,551.11				02/27/07	70.29	65.69	
5,550.20				05/02/07	71.20	66.60	
5,550.59				08/14/07	70.81	66.21	
5,550.76				10/10/07	70.64	66.04	
5,551.95				03/26/08	69.45	64.85	
5,552.36				06/24/08	69.04	64.44	
5,552.50				08/26/08	68.9	64.30	
5,552.56				10/14/08	68.84	64.24	
5,552.91				03/03/09	68.49	63.89	
5,553.27				06/24/09	68.13	63.53	
5,553.12				09/10/09	68.28	63.68	
5,553.63				12/11/09	67.77	63.17	
5,554.65				03/11/10	66.75	62.15	
5,554.57				05/11/10	66.83	62.23	
5,554.34				09/29/10	67.06	62.46	
5,554.09				12/21/10	67.31	62.71	
5,554.50				02/28/11	66.9	62.30	
5,554.79				06/21/11	66.61	62.01	
5,554.63				09/20/11	66.77	62.17	
5,555.01				12/21/11	66.39	61.79	
5,554.85				03/27/12	66.55	61.95	
5,554.90				06/28/12	66.50	61.90	
5,554.85				09/27/12	66.55	61.95	
5,554.86				12/28/12	66.54	61.94	

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	60.50	59.02	
5,577.09				01/02/00	60.50	59.02	
5,577.29				01/10/00	60.30	58.82	
5,577.09				01/17/00	60.50	59.02	
5,577.39				01/24/00	60.20	58.72	
5,577.29				02/01/00	60.30	58.82	
5,577.19				02/07/00	60.40	58.92	
5,577.69				02/14/00	59.90	58.42	
5,577.69				02/23/00	59.90	58.42	
5,577.79				03/01/00	59.80	58.32	
5,577.79				03/08/00	59.80	58.32	
5,577.89				03/15/00	59.70	58.22	
5,568.49				03/20/00	69.10	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	59.20	57.72	
5,578.39				05/01/00	59.20	57.72	
5,578.79				05/11/00	58.80	57.32	
5,578.39				05/15/00	59.20	57.72	
5,578.79				05/25/00	58.80	57.32	
5,578.81				06/09/00	58.78	57.30	
5,578.89				06/16/00	58.70	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	57.80	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	
5,581.83				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	
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	

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
5,583.54				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	54.00	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	
5,583.08				12/21/10	54.51	53.03	
5,582.63				02/28/11	54.96	53.48	
5,583.62				06/21/11	53.97	52.49	
5,583.52				09/20/11	54.07	52.59	
5,583.91				12/21/11	53.68	52.20	
5,582.84				03/27/12	54.75	53.27	
5,582.84				06/28/12	54.75	53.27	
5,582.92				09/27/12	54.67	53.19	
5,582.84				12/28/12	54.75	53.27	

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				111
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				111
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	
5,577.28				12/21/10	56.96	54.71	
5,577.14				02/28/11	57.1	54.85	
5,578.09				06/21/11	56.15	53.90	
5,578.24				09/20/11	56	53.75	
5,578.74				12/21/11	55.5	53.25	
5,577.89				03/27/12	56.35	54.10	
5,577.90				06/28/12	56.34	54.09	
5,578.29				09/27/12	55.95	53.70	
5,577.87				12/28/12	56.37	54.12	

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				100
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				100
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	65.70	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	59.30	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	
5,565.62				12/21/10	58.00	56.30	
5,565.42				02/28/11	58.20	56.50	
5,566.01				06/21/11	57.61	55.91	
5,566.03				09/20/11	57.59	55.89	
5,566.63				12/21/11	56.99	55.29	
5,565.81				03/27/12	57.81	56.11	
5,565.82				06/28/12	57.80	56.10	
5,566.66				09/27/12	56.96	55.26	
5,565.77				12/28/12	57.85	56.15	

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	5,624.23	1.85				101.5
5,580.91				08/23/02	43.32	41.47	
5,581.54				09/11/02	42.69	40.84	
5,581.33				10/23/02	42.90	41.05	
5,581.47				11/22/02	42.76	40.91	
5,581.55				12/03/02	42.68	40.83	
5,582.58				01/09/03	41.65	39.80	
5,582.47				02/12/03	41.76	39.91	
5,582.71				03/26/03	41.52	39.67	
5,582.11				04/02/03	42.12	40.27	
5,582.92				05/01/03	41.31	39.46	
5,583.13				06/09/03	41.10	39.25	
5,583.21				07/07/03	41.02	39.17	
5,583.31				08/04/03	40.92	39.07	
5,583.55				09/11/03	40.68	38.83	
5,583.72				10/02/03	40.51	38.66	
5,583.77				11/07/03	40.46	38.61	
5,584.01				12/03/03	40.22	38.37	
5,584.37				01/15/04	39.86	38.01	
5,584.39				02/10/04	39.84	37.99	
5,584.51				03/28/04	39.72	37.87	
5,584.90				04/12/04	39.33	37.48	
5,584.88				05/13/04	39.35	37.50	
5,584.93				06/18/04	39.30	37.45	
5,585.36				07/28/04	38.87	37.02	
5,585.38				08/30/04	38.85	37.00	
5,585.49				09/16/04	38.74	36.89	
5,585.85				10/11/04	38.38	36.53	
5,585.91				11/16/04	38.32	36.47	
5,586.35				12/22/04	37.88	36.03	
5,586.14				01/18/05	38.09	36.24	
5,586.56				02/28/05	37.67	35.82	
5,586.95				03/15/05	37.28	35.43	
5,587.20				04/26/05	37.03	35.18	
5,587.35				05/24/05	36.88	35.03	
5,587.58				06/30/05	36.65	34.80	
5,587.58				07/29/05	36.65	34.80	
5,587.94				09/12/05	36.29	34.44	
5,588.43				12/07/05	35.80	33.95	
5,588.92				03/08/06	35.31	33.46	
5,588.34				06/13/06	35.89	34.04	
5,588.33				07/18/06	35.90	34.05	
5,584.70				11/07/06	39.53	37.68	
5588.85				02/27/07	35.38	33.53	

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	5,624.23	1.85				101.5
5,588.53				05/02/07	35.70	33.85	
5,586.49				08/14/07	37.74	35.89	
5,586.68				10/10/07	37.55	35.70	
5,587.76				03/26/08	36.47	34.62	
5,587.59				06/24/08	36.64	34.79	
5,587.35				08/26/08	36.88	35.03	
5,586.84				10/14/08	37.39	35.54	
5,586.17				03/03/09	38.06	36.21	
5,585.74				06/24/09	38.49	36.64	
5,585.54				09/10/09	38.69	36.84	
5,585.77				12/11/09	38.46	36.61	
5,585.88				03/11/10	38.35	36.50	
5,586.35				05/11/10	37.88	36.03	
5,585.68				09/29/10	38.55	36.70	
5,585.09				12/21/10	39.14	37.29	
5,584.65				02/28/11	39.58	37.73	
5,584.76				06/21/11	39.47	37.62	
5,584.32				09/20/11	39.91	38.06	
5,584.22				12/21/11	40.01	38.16	
5,577.07				03/27/12	47.16	45.31	
5,577.05				06/28/12	47.18	45.33	
5,583.14				09/27/12	41.09	39.24	
5,577.10				12/28/12	47.13	45.28	

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				102.5
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				102.5
5,570.63				05/02/07	49.31	47.46	
5,565.24				08/14/07	54.70	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	49.30	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	
5,573.14				12/21/10	46.80	44.95	
5,573.10				02/28/11	46.84	44.99	
5,573.75				06/21/11	46.19	44.34	
5,573.63				09/20/11	46.31	44.46	
5,573.94				12/21/11	46.00	44.15	
5,572.79				03/27/12	47.15	45.30	
5,572.77				06/28/12	47.17	45.32	
5,573.04				09/27/12	46.90	45.05	
5,572.79				12/28/12	47.15	45.30	

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				93
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				93
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	89.30	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	
5,524.62				12/21/10	88.15	86.30	
5,524.78				02/28/11	87.99	86.14	
5,525.23				06/21/11	87.54	85.69	
5,525.45				09/20/11	87.32	85.47	
5,525.72				12/21/11	87.05	85.20	
5,525.88				03/27/12	86.89	85.04	
5,525.97				06/28/12	86.80	84.95	
5,526.32				09/27/12	86.45	84.60	
5,525.88				12/28/12	86.89	85.04	

Water Levels and Data over Time
White Mesa Mill - Well 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 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	
5,544.14				12/21/10	81.31	80.01	
5,546.77				02/28/11	78.68	77.38	
5,537.60				06/21/11	87.85	86.55	
5,551.46				09/20/11	73.99	72.69	
5,549.12				12/21/11	76.33	75.03	
5,557.30				03/27/12	68.15	66.85	
5,557.38				06/28/12	68.07	66.77	
5,550.86				09/27/12	74.59	73.29	
5,557.30				12/28/12	68.15	66.85	

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				142
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	63.00	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	65.80	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				142
5,547.11				05/02/07	76.91	75.08	
5,558.52				08/14/07	65.50	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	64.70	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	65.70	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	
5,558.65				12/21/10	65.37	63.54	
5,559.26				02/28/11	64.76	62.93	
5,560.48				06/21/11	63.54	61.71	
5,561.52				09/20/11	62.50	60.67	
5,562.95				12/21/11	61.07	59.24	
5,563.76				03/27/12	60.26	58.43	
5,563.90				06/28/12	60.12	58.29	
5,564.65				09/27/12	59.37	57.54	
5,563.77				12/28/12	60.25	58.42	

Water Levels and Data over Time
White Mesa Mill - Well 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				130.6
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 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				130.6
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	
5,548.97				12/21/10	76.27	74.44	
5,548.68				02/28/11	76.56	74.73	
5,549.33				06/21/11	75.91	74.08	
5,549.19				09/20/11	76.05	74.22	
5,550.06				12/21/11	75.18	73.35	
5,550.31				03/27/12	74.93	73.10	
5,550.32				06/28/12	74.92	73.09	
5,550.88				09/27/12	74.36	72.53	
5,550.29				12/28/12	74.95	73.12	

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				137.5
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				137.5
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	
5,604.29				12/21/10	36.99	34.84	
5,583.56				02/28/11	57.72	55.57	
5,584.73				06/21/11	56.55	54.40	
5,584.71				09/20/11	56.57	54.42	
5,585.03				12/21/11	56.25	54.10	
5,584.63				03/27/12	56.65	54.50	
5,584.67				06/28/12	56.61	54.46	
5,583.98				09/27/12	57.30	55.15	
5,584.65				12/28/12	56.63	54.48	

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	87.80	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	
5,568.40				12/21/10	62.99	61.13	
5,550.36				02/28/11	81.03	79.17	
5,570.41				06/21/11	60.98	59.12	
5,567.84				09/20/11	63.55	61.69	
5,571.32				12/21/11	60.07	58.21	
5,572.40				03/27/12	58.99	57.13	
5,572.39				06/28/12	59.00	57.14	
5,571.40				09/27/12	59.99	58.13	
5,568.21				12/28/12	63.18	61.32	

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	
5,561.35				12/21/10	68.18	67.17	
5,560.18				02/28/11	69.35	68.34	
5,576.23				06/21/11	53.30	52.29	
5,548.50				09/20/11	81.03	80.02	
5,558.58				12/21/11	70.95	69.94	
5,567.73				03/27/12	61.80	60.79	
5,567.77				06/28/12	61.76	60.75	
5,569.58				09/27/12	59.95	58.94	
5,572.58				12/28/12	56.95	55.94	

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	55.90	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	
5,581.14				12/21/10	58.21	57.06	
5,579.53				02/28/11	59.82	58.67	
5,584.17				06/21/11	55.18	54.03	
5,584.80				09/20/11	54.55	53.40	
5,585.68				12/21/11	53.67	52.52	
5,585.24				03/27/12	54.11	52.96	
5,585.26				06/28/12	54.09	52.94	
5,585.16				09/27/12	54.19	53.04	
5,585.25				12/28/12	54.10	52.95	

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	
5,574.44				12/21/10	54.56	53.39	
5,574.49				02/28/11	54.51	53.34	
5,574.97				06/21/11	54.03	52.86	
5,575.06				09/20/11	53.94	52.77	
5,575.69				12/21/11	53.31	52.14	
5,575.61				03/27/12	53.39	52.22	
5,575.62				06/28/12	53.38	52.21	
5,575.90				09/27/12	53.10	51.93	
5,575.59				12/28/12	53.41	52.24	

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
	5,605.77	5,607.37	1.60				113.5
5,538.89				09/13/07	68.48	66.88	
5,538.80				10/10/07	68.57	66.97	
5,539.25				11/30/07	68.12	66.52	
5,539.49				12/11/07	67.88	66.28	
5,539.19				01/08/08	68.18	66.58	
5,539.44				02/18/08	67.93	66.33	
5,539.54				03/26/08	67.83	66.23	
5,539.71				04/23/08	67.66	66.06	
5539.48				05/30/08	67.89	66.29	
5,539.53				06/24/08	67.84	66.24	
5,539.44				07/16/08	67.93	66.33	
5,539.68				08/26/08	67.69	66.09	
5,541.18				09/10/08	66.19	64.59	
5,539.57				10/14/08	67.80	66.20	
5,539.29				11/26/08	68.08	66.48	
5,539.55				12/29/08	67.82	66.22	
5,540.15				01/26/09	67.22	65.62	
5,539.74				02/24/09	67.63	66.03	
5,539.86				03/06/09	67.51	65.91	
5,539.72				04/07/09	67.65	66.05	
5,539.84				05/29/09	67.53	65.93	
5,540.12				06/30/09	67.25	65.65	
5,540.12				07/31/09	67.25	65.65	
5,540.27				08/31/09	67.10	65.50	
5,540.13				09/10/09	67.24	65.64	
5,540.64				12/11/09	66.73	65.13	
5,541.15				03/11/10	66.22	64.62	
5,541.61				05/11/10	65.76	64.16	
5,541.47				09/29/10	65.90	64.30	
5,541.54				12/21/10	65.83	64.23	
5,541.54				02/28/11	65.83	64.23	
5,541.98				06/21/11	65.39	63.79	
5,541.90				09/20/11	65.47	63.87	
5,542.58				12/21/11	64.79	63.19	
5,542.59				03/27/12	64.78	63.18	
5,542.61				06/28/12	64.76	63.16	
5,542.92				09/27/12	64.45	62.85	
5,542.61				12/28/12	64.76	63.16	

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
	5,625.70	5,627.83	2.13				113.5
5,570.61				09/13/07	57.22	55.09	
5,570.53				10/10/07	57.30	55.17	
5,571.16				11/30/07	56.67	54.54	
5,571.30				12/11/07	56.53	54.40	
5,571.03				01/08/08	56.80	54.67	
5,571.22				02/18/08	56.61	54.48	
5,571.43				03/26/08	56.40	54.27	
5,571.68				04/23/08	56.15	54.02	
5571.52				05/30/08	56.31	54.18	
5,571.34				06/24/08	56.49	54.36	
5,571.28				07/16/08	56.55	54.42	
5,571.34				08/26/08	56.49	54.36	
5,571.23				09/10/08	56.60	54.47	
5,571.12				10/14/08	56.71	54.58	
5,570.95				11/26/08	56.88	54.75	
5,570.92				12/29/08	56.91	54.78	
5,571.65				01/26/09	56.18	54.05	
5,571.31				02/24/09	56.52	54.39	
5,571.37				03/06/09	56.46	54.33	
5,571.21				04/07/09	56.62	54.49	
5,571.23				05/29/09	56.60	54.47	
5,571.42				06/30/09	56.41	54.28	
5,571.38				07/31/09	56.45	54.32	
5,571.48				08/31/09	56.35	54.22	
5,571.28				09/10/09	56.55	54.42	
5,571.64				12/11/09	56.19	54.06	
5,571.86				03/11/10	55.97	53.84	
5,571.91				05/11/10	55.92	53.79	
5,572.18				09/29/10	55.65	53.52	
5,571.86				12/21/10	55.97	53.84	
5,571.78				02/28/11	56.05	53.92	
5,572.40				06/21/11	55.43	53.30	
5,572.19				09/20/11	55.64	53.51	
5,573.02				12/21/11	54.81	52.68	
5,573.03				03/27/12	54.80	52.67	
5,573.02				06/28/12	54.81	52.68	
5,573.13				09/27/12	54.70	52.57	
5,573.05				12/28/12	54.78	52.65	

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				134.8
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	46.80	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	
5,598.66				12/21/10	46.25	29.17	
5,598.18				02/28/11	46.73	29.65	
5,598.61				06/21/11	46.30	29.22	
5,598.08				09/20/11	46.83	29.75	
5,598.23				12/21/11	46.68	29.60	
5,597.41				03/27/12	47.50	30.42	
5,597.41				06/28/12	47.50	30.42	
5,595.60				09/27/12	49.31	32.23	
5,597.41				12/28/12	47.50	30.42	

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	
5,537.17				12/21/10	64.51	62.81	
5,537.16				02/28/11	64.52	62.82	
5,537.57				06/21/11	64.11	62.41	
5,537.59				09/20/11	64.09	62.39	
5,538.16				12/21/11	63.52	61.82	
5,538.18				03/27/12	63.50	61.80	
5538.23				06/28/12	63.45	61.75	
5,538.57				09/27/12	63.11	61.41	
5,538.20				12/28/12	63.48	61.78	

Water Levels and Data over Time
White Mesa Mill - Well TW4-27

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
	5,606.19	5,607.94	1.75				96
5,517.78				12/21/11	90.16	88.41	
5,524.84				03/27/12	83.10	81.35	
5,524.93				06/28/12	83.01	81.26	
5,525.59				09/27/12	82.35	80.60	
5,524.86				12/28/12	83.08	81.33	

Tab H

Laboratory Analytical Reports

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Energy Fuels Resources (USA) Inc
Project: 4th Quarter Chloroform 2012
Lab ID: C12100263-028
Client Sample ID: MW-04_10042012

Report Date: 10/19/12
Collection Date: 10/04/12 08:10
DateReceived: 10/05/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	42	mg/L		1		E300.0	10/09/12 20:59 / wc
Nitrogen, Nitrate+Nitrite as N	4.8	mg/L	D	0.5		E353.2	10/05/12 15:16 / ljl
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	1	ug/L		1.0		SW8260B	10/11/12 04:15 / jk
Chloroform	1300	ug/L	D	100		SW8260B	10/12/12 05:20 / jk
Chloromethane	ND	ug/L		1.0		SW8260B	10/11/12 04:15 / jk
Methylene chloride	ND	ug/L		1.0		SW8260B	10/11/12 04:15 / jk
Surr: 1,2-Dichlorobenzene-d4	103	%REC		80-120		SW8260B	10/11/12 04:15 / jk
Surr: Dibromofluoromethane	112	%REC		70-130		SW8260B	10/11/12 04:15 / jk
Surr: p-Bromofluorobenzene	109	%REC		80-120		SW8260B	10/11/12 04:15 / jk
Surr: Toluene-d8	100	%REC		80-120		SW8260B	10/11/12 04:15 / jk

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

Prepared by Casper, WY Branch

Client: Energy Fuels Resources (USA) Inc
Project: 4th Quarter Chloroform 2012
Lab ID: C12100263-027
Client Sample ID: TW4-01_10042012

Report Date: 10/19/12
Collection Date: 10/04/12 07:34
DateReceived: 10/05/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	40	mg/L		1		E300.0	10/09/12 20:43 / wc
Nitrogen, Nitrate+Nitrite as N	6.5	mg/L	D	0.5		E353.2	10/05/12 15:13 / ljl
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	10/11/12 03:39 / jk
Chloroform	1100	ug/L	D	100		SW8260B	10/12/12 04:44 / jk
Chloromethane	ND	ug/L		1.0		SW8260B	10/11/12 03:39 / jk
Methylene chloride	ND	ug/L		1.0		SW8260B	10/11/12 03:39 / jk
Surr: 1,2-Dichlorobenzene-d4	95.0	%REC		80-120		SW8260B	10/11/12 03:39 / jk
Surr: Dibromofluoromethane	112	%REC		70-130		SW8260B	10/11/12 03:39 / jk
Surr: p-Bromofluorobenzene	101	%REC		80-120		SW8260B	10/11/12 03:39 / jk
Surr: Toluene-d8	96.0	%REC		80-120		SW8260B	10/11/12 03:39 / jk

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

Prepared by Casper, WY Branch

Client: Energy Fuels Resources (USA) Inc
Project: 4th Quarter Chloroform 2012
Lab ID: C12100263-029
Client Sample ID: TW4-02_10042012

Report Date: 10/19/12
Collection Date: 10/04/12 07:42
DateReceived: 10/05/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	49	mg/L		1		E300.0	10/09/12 21:14 / wc
Nitrogen, Nitrate+Nitrite as N	7.6	mg/L	D	0.5		E353.2	10/05/12 15:18 / ljl
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	2	ug/L		1.0		SW8260B	10/11/12 04:51 / jk
Chloroform	3100	ug/L	D	100		SW8260B	10/13/12 07:44 / jk
Chloromethane	ND	ug/L		1.0		SW8260B	10/11/12 04:51 / jk
Methylene chloride	ND	ug/L		1.0		SW8260B	10/11/12 04:51 / jk
Surr: 1,2-Dichlorobenzene-d4	101	%REC		80-120		SW8260B	10/11/12 04:51 / jk
Surr: Dibromofluoromethane	112	%REC		70-130		SW8260B	10/11/12 04:51 / jk
Surr: p-Bromofluorobenzene	105	%REC		80-120		SW8260B	10/11/12 04:51 / jk
Surr: Toluene-d8	101	%REC		80-120		SW8260B	10/11/12 04:51 / jk

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

Prepared by Casper, WY Branch

Client: Energy Fuels Resources (USA) Inc
Project: 4th Quarter Chloroform 2012
Lab ID: C12100263-002
Client Sample ID: TW4-03_10032012

Report Date: 10/19/12
Collection Date: 10/03/12 10:05
DateReceived: 10/05/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	25	mg/L		1		E300.0	10/08/12 20:36 / wc
Nitrogen, Nitrate+Nitrite as N	4.8	mg/L	D	0.5		E353.2	10/05/12 13:46 / ljl
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	10/09/12 20:45 / jk
Chloroform	ND	ug/L		1.0		SW8260B	10/09/12 20:45 / jk
Chloromethane	ND	ug/L		1.0		SW8260B	10/09/12 20:45 / jk
Methylene chloride	ND	ug/L		1.0		SW8260B	10/09/12 20:45 / jk
Surr: 1,2-Dichlorobenzene-d4	104	%REC		80-120		SW8260B	10/09/12 20:45 / jk
Surr: Dibromofluoromethane	114	%REC		70-130		SW8260B	10/09/12 20:45 / jk
Surr: p-Bromofluorobenzene	102	%REC		80-120		SW8260B	10/09/12 20:45 / jk
Surr: Toluene-d8	102	%REC		80-120		SW8260B	10/09/12 20:45 / jk

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

Prepared by Casper, WY Branch

Client: Energy Fuels Resources (USA) Inc
Project: 4th Quarter Chloroform 2012
Lab ID: C12100263-001
Client Sample ID: TW4-03R_10022012

Report Date: 10/19/12
Collection Date: 10/02/12 07:00
DateReceived: 10/05/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	ND	mg/L		1		E300.0	10/08/12 19:50 / wc
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	10/05/12 13:38 / ljl
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	10/09/12 20:09 / jk
Chloroform	2	ug/L		1.0		SW8260B	10/09/12 20:09 / jk
Chloromethane	ND	ug/L		1.0		SW8260B	10/09/12 20:09 / jk
Methylene chloride	ND	ug/L		1.0		SW8260B	10/09/12 20:09 / jk
Surr: 1,2-Dichlorobenzene-d4	100	%REC		80-120		SW8260B	10/09/12 20:09 / jk
Surr: Dibromofluoromethane	118	%REC		70-130		SW8260B	10/09/12 20:09 / jk
Surr: p-Bromofluorobenzene	101	%REC		80-120		SW8260B	10/09/12 20:09 / jk
Surr: Toluene-d8	102	%REC		80-120		SW8260B	10/09/12 20:09 / jk

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Energy Fuels Resources (USA) Inc
Project: 4th Quarter Chloroform 2012
Lab ID: C12100263-019
Client Sample ID: TW4-04_10032012

Report Date: 10/19/12
Collection Date: 10/03/12 07:55
DateReceived: 10/05/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	38	mg/L		1		E300.0	10/09/12 02:00 / wc
Nitrogen, Nitrate+Nitrite as N	7	mg/L	D	1		E353.2	10/05/12 14:41 / ljl
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	1	ug/L		1.0		SW8260B	10/10/12 19:18 / jk
Chloroform	1400	ug/L	D	100		SW8260B	10/12/12 01:08 / jk
Chloromethane	ND	ug/L		1.0		SW8260B	10/10/12 19:18 / jk
Methylene chloride	ND	ug/L		1.0		SW8260B	10/10/12 19:18 / jk
Surr: 1,2-Dichlorobenzene-d4	97.0	%REC		80-120		SW8260B	10/10/12 19:18 / jk
Surr: Dibromofluoromethane	119	%REC		70-130		SW8260B	10/10/12 19:18 / jk
Surr: p-Bromofluorobenzene	99.0	%REC		80-120		SW8260B	10/10/12 19:18 / jk
Surr: Toluene-d8	101	%REC		80-120		SW8260B	10/10/12 19:18 / jk

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

Prepared by Casper, WY Branch

Client: Energy Fuels Resources (USA) Inc
Project: 4th Quarter Chloroform 2012
Lab ID: C12100263-015
Client Sample ID: TW4-05_10032012

Report Date: 10/19/12
Collection Date: 10/03/12 11:18
DateReceived: 10/05/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	38	mg/L		1		E300.0	10/09/12 00:58 / wc
Nitrogen, Nitrate+Nitrite as N	7.7	mg/L	D	0.5		E353.2	10/05/12 14:31 / ljl
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	10/09/12 21:21 / jk
Chloroform	8	ug/L		1.0		SW8260B	10/09/12 21:21 / jk
Chloromethane	ND	ug/L		1.0		SW8260B	10/09/12 21:21 / jk
Methylene chloride	ND	ug/L		1.0		SW8260B	10/09/12 21:21 / jk
Surr: 1,2-Dichlorobenzene-d4	96.0	%REC		80-120		SW8260B	10/09/12 21:21 / jk
Surr: Dibromofluoromethane	109	%REC		70-130		SW8260B	10/09/12 21:21 / jk
Surr: p-Bromofluorobenzene	95.0	%REC		80-120		SW8260B	10/09/12 21:21 / jk
Surr: Toluene-d8	101	%REC		80-120		SW8260B	10/09/12 21:21 / jk

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

Prepared by Casper, WY Branch

Client: Energy Fuels Resources (USA) Inc
Project: 4th Quarter Chloroform 2012
Lab ID: C12100263-014
Client Sample ID: TW4-06_10032012

Report Date: 10/19/12
Collection Date: 10/03/12 07:36
DateReceived: 10/05/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	41	mg/L	D	2		E300.0	10/09/12 00:43 / wc
Nitrogen, Nitrate+Nitrite as N	0.2	mg/L		0.1		E353.2	10/05/12 14:28 / ljl
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	10/10/12 09:18 / jk
Chloroform	9	ug/L		1.0		SW8260B	10/10/12 09:18 / jk
Chloromethane	ND	ug/L		1.0		SW8260B	10/10/12 09:18 / jk
Methylene chloride	ND	ug/L		1.0		SW8260B	10/10/12 09:18 / jk
Surr: 1,2-Dichlorobenzene-d4	96.0	%REC		80-120		SW8260B	10/10/12 09:18 / jk
Surr: Dibromofluoromethane	116	%REC		70-130		SW8260B	10/10/12 09:18 / jk
Surr: p-Bromofluorobenzene	97.0	%REC		80-120		SW8260B	10/10/12 09:18 / jk
Surr: Toluene-d8	103	%REC		80-120		SW8260B	10/10/12 09:18 / jk

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

Prepared by Casper, WY Branch

Client: Energy Fuels Resources (USA) Inc
Project: 4th Quarter Chloroform 2012
Lab ID: C12100263-025
Client Sample ID: TW4-07_10042012

Report Date: 10/19/12
Collection Date: 10/04/12 07:15
DateReceived: 10/05/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	41	mg/L		1		E300.0	10/09/12 04:34 / wc
Nitrogen, Nitrate+Nitrite as N	3.8	mg/L	D	0.2		E353.2	10/05/12 15:08 / ljl
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	10/11/12 02:28 / jk
Chloroform	940	ug/L	D	100		SW8260B	10/12/12 03:32 / jk
Chloromethane	ND	ug/L		1.0		SW8260B	10/11/12 02:28 / jk
Methylene chloride	ND	ug/L		1.0		SW8260B	10/11/12 02:28 / jk
Surr: 1,2-Dichlorobenzene-d4	103	%REC		80-120		SW8260B	10/11/12 02:28 / jk
Surr: Dibromofluoromethane	119	%REC		70-130		SW8260B	10/11/12 02:28 / jk
Surr: p-Bromofluorobenzene	105	%REC		80-120		SW8260B	10/11/12 02:28 / jk
Surr: Toluene-d8	105	%REC		80-120		SW8260B	10/11/12 02:28 / jk

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

Prepared by Casper, WY Branch

Client: Energy Fuels Resources (USA) Inc
Project: 4th Quarter Chloroform 2012
Lab ID: C12100263-007
Client Sample ID: TW4-08_10032012

Report Date: 10/19/12
Collection Date: 10/03/12 10:21
DateReceived: 10/05/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	47	mg/L	D	2		E300.0	10/08/12 21:53 / wc
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	10/05/12 13:58 / ljl
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	10/10/12 05:07 / jk
Chloroform	ND	ug/L		1.0		SW8260B	10/10/12 05:07 / jk
Chloromethane	ND	ug/L		1.0		SW8260B	10/10/12 05:07 / jk
Methylene chloride	ND	ug/L		1.0		SW8260B	10/10/12 05:07 / jk
Surr: 1,2-Dichlorobenzene-d4	95.0	%REC		80-120		SW8260B	10/10/12 05:07 / jk
Surr: Dibromofluoromethane	113	%REC		70-130		SW8260B	10/10/12 05:07 / jk
Surr: p-Bromofluorobenzene	96.0	%REC		80-120		SW8260B	10/10/12 05:07 / jk
Surr: Toluene-d8	103	%REC		80-120		SW8260B	10/10/12 05:07 / jk

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

Prepared by Casper, WY Branch

Client: Energy Fuels Resources (USA) Inc
Project: 4th Quarter Chloroform 2012
Lab ID: C12100263-008
Client Sample ID: TW4-09_10032012

Report Date: 10/19/12
Collection Date: 10/03/12 10:30
DateReceived: 10/05/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	21	mg/L		1		E300.0	10/08/12 22:09 / wc
Nitrogen, Nitrate+Nitrite as N	3.8	mg/L	D	0.5		E353.2	10/05/12 14:01 / ljl
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	10/10/12 05:43 / jk
Chloroform	ND	ug/L		1.0		SW8260B	10/10/12 05:43 / jk
Chloromethane	ND	ug/L		1.0		SW8260B	10/10/12 05:43 / jk
Methylene chloride	ND	ug/L		1.0		SW8260B	10/10/12 05:43 / jk
Surr: 1,2-Dichlorobenzene-d4	96.0	%REC		80-120		SW8260B	10/10/12 05:43 / jk
Surr: Dibromofluoromethane	116	%REC		70-130		SW8260B	10/10/12 05:43 / jk
Surr: p-Bromofluorobenzene	101	%REC		80-120		SW8260B	10/10/12 05:43 / jk
Surr: Toluene-d8	98.0	%REC		80-120		SW8260B	10/10/12 05:43 / jk

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

Prepared by Casper, WY Branch

Client: Energy Fuels Resources (USA) Inc
Project: 4th Quarter Chloroform 2012
Lab ID: C12100263-017
Client Sample ID: TW4-10_10032012

Report Date: 10/19/12
Collection Date: 10/03/12 11:52
DateReceived: 10/05/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	45	mg/L		1		E300.0	10/09/12 01:29 / wc
Nitrogen, Nitrate+Nitrite as N	1.6	mg/L		0.1		E353.2	10/05/12 14:36 / ljl
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	10/10/12 18:07 / jk
Chloroform	140	ug/L	D	100		SW8260B	10/11/12 23:57 / jk
Chloromethane	ND	ug/L		1.0		SW8260B	10/10/12 18:07 / jk
Methylene chloride	ND	ug/L		1.0		SW8260B	10/10/12 18:07 / jk
Surr: 1,2-Dichlorobenzene-d4	102	%REC		80-120		SW8260B	10/10/12 18:07 / jk
Surr: Dibromofluoromethane	113	%REC		70-130		SW8260B	10/10/12 18:07 / jk
Surr: p-Bromofluorobenzene	103	%REC		80-120		SW8260B	10/10/12 18:07 / jk
Surr: Toluene-d8	101	%REC		80-120		SW8260B	10/10/12 18:07 / jk

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

Prepared by Casper, WY Branch

Client: Energy Fuels Resources (USA) Inc
Project: 4th Quarter Chloroform 2012
Lab ID: C12100263-024
Client Sample ID: TW4-11_10042012

Report Date: 10/19/12
Collection Date: 10/04/12 07:01
DateReceived: 10/05/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	50	mg/L		1		E300.0	10/09/12 04:19 / wc
Nitrogen, Nitrate+Nitrite as N	7	mg/L	D	1		E353.2	10/05/12 15:06 / ljl
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	10/11/12 01:52 / jk
Chloroform	730	ug/L	D	100		SW8260B	10/12/12 02:56 / jk
Chloromethane	ND	ug/L		1.0		SW8260B	10/11/12 01:52 / jk
Methylene chloride	ND	ug/L		1.0		SW8260B	10/11/12 01:52 / jk
Surr: 1,2-Dichlorobenzene-d4	96.0	%REC		80-120		SW8260B	10/11/12 01:52 / jk
Surr: Dibromofluoromethane	115	%REC		70-130		SW8260B	10/11/12 01:52 / jk
Surr: p-Bromofluorobenzene	104	%REC		80-120		SW8260B	10/11/12 01:52 / jk
Surr: Toluene-d8	98.0	%REC		80-120		SW8260B	10/11/12 01:52 / jk

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

Prepared by Casper, WY Branch

Client: Energy Fuels Resources (USA) Inc
Project: 4th Quarter Chloroform 2012
Lab ID: C12100263-003
Client Sample ID: TW4-12_10032012

Report Date: 10/19/12
Collection Date: 10/03/12 09:34
DateReceived: 10/05/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	39	mg/L		1		E300.0	10/08/12 20:52 / wc
Nitrogen, Nitrate+Nitrite as N	13	mg/L	D	1		E353.2	10/05/12 13:48 / ljl
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	10/10/12 02:44 / jk
Chloroform	ND	ug/L		1.0		SW8260B	10/10/12 02:44 / jk
Chloromethane	ND	ug/L		1.0		SW8260B	10/10/12 02:44 / jk
Methylene chloride	ND	ug/L		1.0		SW8260B	10/10/12 02:44 / jk
Surr: 1,2-Dichlorobenzene-d4	95.0	%REC		80-120		SW8260B	10/10/12 02:44 / jk
Surr: Dibromofluoromethane	114	%REC		70-130		SW8260B	10/10/12 02:44 / jk
Surr: p-Bromofluorobenzene	98.0	%REC		80-120		SW8260B	10/10/12 02:44 / jk
Surr: Toluene-d8	105	%REC		80-120		SW8260B	10/10/12 02:44 / jk

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

Prepared by Casper, WY Branch

Client: Energy Fuels Resources (USA) Inc
Project: 4th Quarter Chloroform 2012
Lab ID: C12100263-004
Client Sample ID: TW4-13_10032012

Report Date: 10/19/12
Collection Date: 10/03/12 09:40
DateReceived: 10/05/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	60	mg/L		1		E300.0	10/08/12 21:07 / wc
Nitrogen, Nitrate+Nitrite as N	5.9	mg/L	D	0.5		E353.2	10/05/12 13:51 / ljl
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	10/10/12 03:19 / jk
Chloroform	ND	ug/L		1.0		SW8260B	10/10/12 03:19 / jk
Chloromethane	ND	ug/L		1.0		SW8260B	10/10/12 03:19 / jk
Methylene chloride	ND	ug/L		1.0		SW8260B	10/10/12 03:19 / jk
Surr: 1,2-Dichlorobenzene-d4	103	%REC		80-120		SW8260B	10/10/12 03:19 / jk
Surr: Dibromofluoromethane	109	%REC		70-130		SW8260B	10/10/12 03:19 / jk
Surr: p-Bromofluorobenzene	104	%REC		80-120		SW8260B	10/10/12 03:19 / jk
Surr: Toluene-d8	102	%REC		80-120		SW8260B	10/10/12 03:19 / jk

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

Prepared by Casper, WY Branch

Client: Energy Fuels Resources (USA) Inc
Project: 4th Quarter Chloroform 2012
Lab ID: C12100263-005
Client Sample ID: TW4-14_10032012

Report Date: 10/19/12
Collection Date: 10/03/12 09:46
DateReceived: 10/05/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	37	mg/L	D	2		E300.0	10/08/12 21:22 / wc
Nitrogen, Nitrate+Nitrite as N	4.2	mg/L	D	0.5		E353.2	10/05/12 13:53 / ljl
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	10/10/12 03:55 / jk
Chloroform	ND	ug/L		1.0		SW8260B	10/10/12 03:55 / jk
Chloromethane	ND	ug/L		1.0		SW8260B	10/10/12 03:55 / jk
Methylene chloride	ND	ug/L		1.0		SW8260B	10/10/12 03:55 / jk
Surr: 1,2-Dichlorobenzene-d4	103	%REC		80-120		SW8260B	10/10/12 03:55 / jk
Surr: Dibromofluoromethane	109	%REC		70-130		SW8260B	10/10/12 03:55 / jk
Surr: p-Bromofluorobenzene	103	%REC		80-120		SW8260B	10/10/12 03:55 / jk
Surr: Toluene-d8	102	%REC		80-120		SW8260B	10/10/12 03:55 / jk

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

Prepared by Casper, WY Branch

Client: Energy Fuels Resources (USA) Inc
Project: 4th Quarter Chloroform 2012
Lab ID: C12100263-030
Client Sample ID: MW-26_10042012

Report Date: 10/19/12
Collection Date: 10/04/12 07:59
DateReceived: 10/05/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	68	mg/L	D	2		E300.0	10/09/12 21:30 / wc
Nitrogen, Nitrate+Nitrite as N	1.8	mg/L		0.1		E353.2	10/05/12 15:21 / ljl
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	10/11/12 05:26 / jk
Chloroform	1200	ug/L	D	100		SW8260B	10/12/12 06:31 / jk
Chloromethane	ND	ug/L		1.0		SW8260B	10/11/12 05:26 / jk
Methylene chloride	4	ug/L		1.0		SW8260B	10/11/12 05:26 / jk
Surr: 1,2-Dichlorobenzene-d4	99.0	%REC		80-120		SW8260B	10/11/12 05:26 / jk
Surr: Dibromofluoromethane	116	%REC		70-130		SW8260B	10/11/12 05:26 / jk
Surr: p-Bromofluorobenzene	104	%REC		80-120		SW8260B	10/11/12 05:26 / jk
Surr: Toluene-d8	98.0	%REC		80-120		SW8260B	10/11/12 05:26 / jk

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

Prepared by Casper, WY Branch

Client: Energy Fuels Resources (USA) Inc
Project: 4th Quarter Chloroform 2012
Lab ID: C12100263-009
Client Sample ID: TW4-16_10032012

Report Date: 10/19/12
Collection Date: 10/03/12 11:00
DateReceived: 10/05/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	53	mg/L	D	2		E300.0	10/08/12 22:24 / wc
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	10/05/12 14:03 / ljl
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	10/10/12 06:19 / jk
Chloroform	ND	ug/L		1.0		SW8260B	10/10/12 06:19 / jk
Chloromethane	ND	ug/L		1.0		SW8260B	10/10/12 06:19 / jk
Methylene chloride	3	ug/L		1.0		SW8260B	10/10/12 06:19 / jk
Surr: 1,2-Dichlorobenzene-d4	97.0	%REC		80-120		SW8260B	10/10/12 06:19 / jk
Surr: Dibromofluoromethane	114	%REC		70-130		SW8260B	10/10/12 06:19 / jk
Surr: p-Bromofluorobenzene	98.0	%REC		80-120		SW8260B	10/10/12 06:19 / jk
Surr: Toluene-d8	104	%REC		80-120		SW8260B	10/10/12 06:19 / jk

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

Prepared by Casper, WY Branch

Client: Energy Fuels Resources (USA) Inc
Project: 4th Quarter Chloroform 2012
Lab ID: C12100576-001
Client Sample ID: MW-32_10102012

Report Date: 10/19/12
Collection Date: 10/10/12 13:20
DateReceived: 10/12/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	35	mg/L	D	2		E300.0	10/16/12 23:26 / wc
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	10/15/12 14:05 / lr
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	10/15/12 19:57 / jlr
Chloroform	ND	ug/L		1.0		SW8260B	10/15/12 19:57 / jlr
Chloromethane	ND	ug/L		1.0		SW8260B	10/15/12 19:57 / jlr
Methylene chloride	ND	ug/L		1.0		SW8260B	10/15/12 19:57 / jlr
Surr: 1,2-Dichlorobenzene-d4	100	%REC		80-120		SW8260B	10/15/12 19:57 / jlr
Surr: Dibromofluoromethane	114	%REC		70-130		SW8260B	10/15/12 19:57 / jlr
Surr: p-Bromofluorobenzene	97.0	%REC		80-120		SW8260B	10/15/12 19:57 / jlr
Surr: Toluene-d8	103	%REC		80-120		SW8260B	10/15/12 19:57 / 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

Prepared by Casper, WY Branch

Client: Energy Fuels Resources (USA) Inc
Project: 4th Quarter Chloroform 2012
Lab ID: C12100263-016
Client Sample ID: TW4-18_10032012

Report Date: 10/19/12
Collection Date: 10/03/12 08:32
DateReceived: 10/05/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	27	mg/L		1		E300.0	10/09/12 01:14 / wc
Nitrogen, Nitrate+Nitrite as N	6	mg/L	D	1		E353.2	10/05/12 14:33 / ljl
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	10/10/12 17:31 / jk
Chloroform	30	ug/L		1.0		SW8260B	10/10/12 17:31 / jk
Chloromethane	ND	ug/L		1.0		SW8260B	10/10/12 17:31 / jk
Methylene chloride	ND	ug/L		1.0		SW8260B	10/10/12 17:31 / jk
Surr: 1,2-Dichlorobenzene-d4	103	%REC		80-120		SW8260B	10/10/12 17:31 / jk
Surr: Dibromofluoromethane	116	%REC		70-130		SW8260B	10/10/12 17:31 / jk
Surr: p-Bromofluorobenzene	103	%REC		80-120		SW8260B	10/10/12 17:31 / jk
Surr: Toluene-d8	101	%REC		80-120		SW8260B	10/10/12 17:31 / jk

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

Prepared by Casper, WY Branch

Client: Energy Fuels Resources (USA) Inc
Project: 4th Quarter Chloroform 2012
Lab ID: C12100263-018
Client Sample ID: TW4-19_10032012

Report Date: 10/19/12
Collection Date: 10/03/12 08:54
DateReceived: 10/05/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	150	mg/L	D	2		E300.0	10/09/12 01:45 / wc
Nitrogen, Nitrate+Nitrite as N	4.1	mg/L	D	0.5		E353.2	10/05/12 14:38 / ljl
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	4	ug/L		1.0		SW8260B	10/10/12 18:42 / jk
Chloroform	1500	ug/L	D	100		SW8260B	10/12/12 00:32 / jk
Chloromethane	ND	ug/L		1.0		SW8260B	10/10/12 18:42 / jk
Methylene chloride	ND	ug/L		1.0		SW8260B	10/10/12 18:42 / jk
Surr: 1,2-Dichlorobenzene-d4	96.0	%REC		80-120		SW8260B	10/10/12 18:42 / jk
Surr: Dibromofluoromethane	118	%REC		70-130		SW8260B	10/10/12 18:42 / jk
Surr: p-Bromofluorobenzene	106	%REC		80-120		SW8260B	10/10/12 18:42 / jk
Surr: Toluene-d8	99.0	%REC		80-120		SW8260B	10/10/12 18:42 / jk

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

Prepared by Casper, WY Branch

Client: Energy Fuels Resources (USA) Inc
Project: 4th Quarter Chloroform 2012
Lab ID: C12100263-020
Client Sample ID: TW4-20_10032012

Report Date: 10/19/12
Collection Date: 10/03/12 08:09
DateReceived: 10/05/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	302	mg/L	D	4		E300.0	10/09/12 02:16 / wc
Nitrogen, Nitrate+Nitrite as N	11	mg/L	D	1		E353.2	10/05/12 14:43 / ljl
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	22	ug/L		1.0		SW8260B	10/10/12 19:54 / jk
Chloroform	19000	ug/L	D	250		SW8260B	10/13/12 07:08 / jk
Chloromethane	ND	ug/L		1.0		SW8260B	10/10/12 19:54 / jk
Methylene chloride	ND	ug/L		1.0		SW8260B	10/10/12 19:54 / jk
Surr: 1,2-Dichlorobenzene-d4	93.0	%REC		80-120		SW8260B	10/10/12 19:54 / jk
Surr: Dibromofluoromethane	131	%REC	S	70-130		SW8260B	10/10/12 19:54 / jk
Surr: p-Bromofluorobenzene	100	%REC		80-120		SW8260B	10/10/12 19:54 / jk
Surr: Toluene-d8	108	%REC		80-120		SW8260B	10/10/12 19:54 / jk

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

Prepared by Casper, WY Branch

Client: Energy Fuels Resources (USA) Inc
Project: 4th Quarter Chloroform 2012
Lab ID: C12100263-023
Client Sample ID: TW4-21_10042012

Report Date: 10/19/12
Collection Date: 10/04/12 06:46
DateReceived: 10/05/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	270	mg/L	D	2		E300.0	10/09/12 04:03 / wc
Nitrogen, Nitrate+Nitrite as N	14	mg/L	D	1		E353.2	10/05/12 15:03 / ljl
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	7	ug/L		1.0		SW8260B	10/11/12 01:16 / jk
Chloroform	390	ug/L	D	100		SW8260B	10/12/12 02:20 / jk
Chloromethane	ND	ug/L		1.0		SW8260B	10/11/12 01:16 / jk
Methylene chloride	ND	ug/L		1.0		SW8260B	10/11/12 01:16 / jk
Surr: 1,2-Dichlorobenzene-d4	97.0	%REC		80-120		SW8260B	10/11/12 01:16 / jk
Surr: Dibromofluoromethane	111	%REC		70-130		SW8260B	10/11/12 01:16 / jk
Surr: p-Bromofluorobenzene	101	%REC		80-120		SW8260B	10/11/12 01:16 / jk
Surr: Toluene-d8	101	%REC		80-120		SW8260B	10/11/12 01:16 / jk

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

Prepared by Casper, WY Branch

Client: Energy Fuels Resources (USA) Inc
Project: 4th Quarter Chloroform 2012
Lab ID: C12100263-021
Client Sample ID: TW4-21R_10032012

Report Date: 10/19/12
Collection Date: 10/03/12 12:37
DateReceived: 10/05/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	ND	mg/L		1		E300.0	10/09/12 03:02 / wc
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	10/05/12 14:53 / ljl
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	10/10/12 20:30 / jk
Chloroform	16	ug/L		1.0		SW8260B	10/10/12 20:30 / jk
Chloromethane	ND	ug/L		1.0		SW8260B	10/10/12 20:30 / jk
Methylene chloride	ND	ug/L		1.0		SW8260B	10/10/12 20:30 / jk
Surr: 1,2-Dichlorobenzene-d4	97.0	%REC		80-120		SW8260B	10/10/12 20:30 / jk
Surr: Dibromofluoromethane	113	%REC		70-130		SW8260B	10/10/12 20:30 / jk
Surr: p-Bromofluorobenzene	104	%REC		80-120		SW8260B	10/10/12 20:30 / jk
Surr: Toluene-d8	98.0	%REC		80-120		SW8260B	10/10/12 20:30 / jk

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Energy Fuels Resources (USA) Inc
Project: 4th Quarter Chloroform 2012
Lab ID: C12100263-026
Client Sample ID: TW4-22_10042012

Report Date: 10/19/12
Collection Date: 10/04/12 07:25
DateReceived: 10/05/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	130	mg/L		1		E300.0	10/09/12 20:28 / wc
Nitrogen, Nitrate+Nitrite as N	14	mg/L	D	1		E353.2	10/05/12 15:11 / ljl
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	10/11/12 03:03 / jk
Chloroform	330	ug/L	D	100		SW8260B	10/12/12 04:08 / jk
Chloromethane	ND	ug/L		1.0		SW8260B	10/11/12 03:03 / jk
Methylene chloride	ND	ug/L		1.0		SW8260B	10/11/12 03:03 / jk
Surr: 1,2-Dichlorobenzene-d4	98.0	%REC		80-120		SW8260B	10/11/12 03:03 / jk
Surr: Dibromofluoromethane	108	%REC		70-130		SW8260B	10/11/12 03:03 / jk
Surr: p-Bromofluorobenzene	106	%REC		80-120		SW8260B	10/11/12 03:03 / jk
Surr: Toluene-d8	99.0	%REC		80-120		SW8260B	10/11/12 03:03 / jk

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

Prepared by Casper, WY Branch

Client: Energy Fuels Resources (USA) Inc
Project: 4th Quarter Chloroform 2012
Lab ID: C12100263-006
Client Sample ID: TW4-23_10032012

Report Date: 10/19/12
Collection Date: 10/03/12 10:14
DateReceived: 10/05/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	45	mg/L	D	2		E300.0	10/08/12 21:38 / wc
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	10/05/12 13:56 / ljl
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	10/10/12 04:31 / jk
Chloroform	ND	ug/L		1.0		SW8260B	10/10/12 04:31 / jk
Chloromethane	ND	ug/L		1.0		SW8260B	10/10/12 04:31 / jk
Methylene chloride	ND	ug/L		1.0		SW8260B	10/10/12 04:31 / jk
Surr: 1,2-Dichlorobenzene-d4	98.0	%REC		80-120		SW8260B	10/10/12 04:31 / jk
Surr: Dibromofluoromethane	114	%REC		70-130		SW8260B	10/10/12 04:31 / jk
Surr: p-Bromofluorobenzene	101	%REC		80-120		SW8260B	10/10/12 04:31 / jk
Surr: Toluene-d8	102	%REC		80-120		SW8260B	10/10/12 04:31 / jk

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

Prepared by Casper, WY Branch

Client: Energy Fuels Resources (USA) Inc
Project: 4th Quarter Chloroform 2012
Lab ID: C12100263-012
Client Sample ID: TW4-24_10032012

Report Date: 10/19/12
Collection Date: 10/03/12 10:53
DateReceived: 10/05/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	405	mg/L	D	4		E300.0	10/09/12 00:12 / wc
Nitrogen, Nitrate+Nitrite as N	38	mg/L	D	1		E353.2	10/05/12 14:23 / ljl
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	10/10/12 08:06 / jk
Chloroform	1	ug/L		1.0		SW8260B	10/10/12 08:06 / jk
Chloromethane	ND	ug/L		1.0		SW8260B	10/10/12 08:06 / jk
Methylene chloride	ND	ug/L		1.0		SW8260B	10/10/12 08:06 / jk
Surr: 1,2-Dichlorobenzene-d4	100	%REC		80-120		SW8260B	10/10/12 08:06 / jk
Surr: Dibromofluoromethane	112	%REC		70-130		SW8260B	10/10/12 08:06 / jk
Surr: p-Bromofluorobenzene	97.0	%REC		80-120		SW8260B	10/10/12 08:06 / jk
Surr: Toluene-d8	102	%REC		80-120		SW8260B	10/10/12 08:06 / jk

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

Prepared by Casper, WY Branch

Client: Energy Fuels Resources (USA) Inc
Project: 4th Quarter Chloroform 2012
Lab ID: C12100263-011
Client Sample ID: TW4-25_10032012

Report Date: 10/19/12
Collection Date: 10/03/12 11:11
DateReceived: 10/05/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	338	mg/L	D	2		E300.0	10/08/12 23:26 / wc
Nitrogen, Nitrate+Nitrite as N	17	mg/L	D	1		E353.2	10/05/12 14:16 / ljl
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	10/10/12 07:30 / jk
Chloroform	ND	ug/L		1.0		SW8260B	10/10/12 07:30 / jk
Chloromethane	ND	ug/L		1.0		SW8260B	10/10/12 07:30 / jk
Methylene chloride	ND	ug/L		1.0		SW8260B	10/10/12 07:30 / jk
Surr: 1,2-Dichlorobenzene-d4	102	%REC		80-120		SW8260B	10/10/12 07:30 / jk
Surr: Dibromofluoromethane	111	%REC		70-130		SW8260B	10/10/12 07:30 / jk
Surr: p-Bromofluorobenzene	102	%REC		80-120		SW8260B	10/10/12 07:30 / jk
Surr: Toluene-d8	100	%REC		80-120		SW8260B	10/10/12 07:30 / jk

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

Prepared by Casper, WY Branch

Client: Energy Fuels Resources (USA) Inc
Project: 4th Quarter Chloroform 2012
Lab ID: C12100263-013
Client Sample ID: TW4-26_10032012

Report Date: 10/19/12
Collection Date: 10/03/12 07:21
DateReceived: 10/05/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	19	mg/L	D	4		E300.0	10/09/12 00:28 / wc
Nitrogen, Nitrate+Nitrite as N	12	mg/L	D	1		E353.2	10/05/12 14:26 / ljl
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	10/10/12 08:42 / jk
Chloroform	6	ug/L		1.0		SW8260B	10/10/12 08:42 / jk
Chloromethane	ND	ug/L		1.0		SW8260B	10/10/12 08:42 / jk
Methylene chloride	ND	ug/L		1.0		SW8260B	10/10/12 08:42 / jk
Surr: 1,2-Dichlorobenzene-d4	99.0	%REC		80-120		SW8260B	10/10/12 08:42 / jk
Surr: Dibromofluoromethane	117	%REC		70-130		SW8260B	10/10/12 08:42 / jk
Surr: p-Bromofluorobenzene	99.0	%REC		80-120		SW8260B	10/10/12 08:42 / jk
Surr: Toluene-d8	100	%REC		80-120		SW8260B	10/10/12 08:42 / jk

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

Prepared by Casper, WY Branch

Client: Energy Fuels Resources (USA) Inc
Project: 4th Quarter Chloroform 2012
Lab ID: C12100263-010
Client Sample ID: TW4-27_10032012

Report Date: 10/19/12
Collection Date: 10/03/12 07:04
DateReceived: 10/05/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	18	mg/L	D	4		E300.0	10/08/12 22:40 / wc
Nitrogen, Nitrate+Nitrite as N	36	mg/L	D	2		E353.2	10/05/12 14:06 / ljl
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	10/10/12 06:54 / jk
Chloroform	ND	ug/L		1.0		SW8260B	10/10/12 06:54 / jk
Chloromethane	ND	ug/L		1.0		SW8260B	10/10/12 06:54 / jk
Methylene chloride	ND	ug/L		1.0		SW8260B	10/10/12 06:54 / jk
Surr: 1,2-Dichlorobenzene-d4	94.0	%REC		80-120		SW8260B	10/10/12 06:54 / jk
Surr: Dibromofluoromethane	111	%REC		70-130		SW8260B	10/10/12 06:54 / jk
Surr: p-Bromofluorobenzene	101	%REC		80-120		SW8260B	10/10/12 06:54 / jk
Surr: Toluene-d8	104	%REC		80-120		SW8260B	10/10/12 06:54 / jk

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

Prepared by Casper, WY Branch

Client: Energy Fuels Resources (USA) Inc
Project: 4th Quarter Chloroform 2012
Lab ID: C12100263-031
Client Sample ID: TW4-60_10042012

Report Date: 10/19/12
Collection Date: 10/04/12 08:36
DateReceived: 10/05/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	ND	mg/L		1		E300.0	10/09/12 21:45 / wc
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	10/05/12 15:28 / ljl
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	10/11/12 06:02 / jk
Chloroform	2	ug/L		1.0		SW8260B	10/11/12 06:02 / jk
Chloromethane	ND	ug/L		1.0		SW8260B	10/11/12 06:02 / jk
Methylene chloride	ND	ug/L		1.0		SW8260B	10/11/12 06:02 / jk
Surr: 1,2-Dichlorobenzene-d4	96.0	%REC		80-120		SW8260B	10/11/12 06:02 / jk
Surr: Dibromofluoromethane	109	%REC		70-130		SW8260B	10/11/12 06:02 / jk
Surr: p-Bromofluorobenzene	103	%REC		80-120		SW8260B	10/11/12 06:02 / jk
Surr: Toluene-d8	102	%REC		80-120		SW8260B	10/11/12 06:02 / jk

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Energy Fuels Resources (USA) Inc
Project: 4th Quarter Chloroform 2012
Lab ID: C12100263-022
Client Sample ID: TW4-65_10032012

Report Date: 10/19/12
Collection Date: 10/03/12 10:30
DateReceived: 10/05/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	21	mg/L		1		E300.0	10/09/12 03:48 / wc
Nitrogen, Nitrate+Nitrite as N	4.0	mg/L	D	0.5		E353.2	10/05/12 15:01 / ljl
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	10/11/12 00:40 / jk
Chloroform	ND	ug/L		1.0		SW8260B	10/11/12 00:40 / jk
Chloromethane	ND	ug/L		1.0		SW8260B	10/11/12 00:40 / jk
Methylene chloride	ND	ug/L		1.0		SW8260B	10/11/12 00:40 / jk
Surr: 1,2-Dichlorobenzene-d4	100	%REC		80-120		SW8260B	10/11/12 00:40 / jk
Surr: Dibromofluoromethane	111	%REC		70-130		SW8260B	10/11/12 00:40 / jk
Surr: p-Bromofluorobenzene	108	%REC		80-120		SW8260B	10/11/12 00:40 / jk
Surr: Toluene-d8	99.0	%REC		80-120		SW8260B	10/11/12 00:40 / jk

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

Prepared by Casper, WY Branch

Client: Energy Fuels Resources (USA) Inc
Project: 4th Quarter Chloroform 2012
Lab ID: C12100263-032
Client Sample ID: TW4-70_10042012

Report Date: 10/19/12
Collection Date: 10/04/12 06:46
DateReceived: 10/05/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	249	mg/L		1		E300.0	10/09/12 22:00 / wc
Nitrogen, Nitrate+Nitrite as N	14	mg/L	D	1		E353.2	10/05/12 15:36 / ljl
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	8	ug/L		1.0		SW8260B	10/11/12 06:38 / jk
Chloroform	430	ug/L	D	100		SW8260B	10/12/12 07:07 / jk
Chloromethane	ND	ug/L		1.0		SW8260B	10/11/12 06:38 / jk
Methylene chloride	ND	ug/L		1.0		SW8260B	10/11/12 06:38 / jk
Surr: 1,2-Dichlorobenzene-d4	96.0	%REC		80-120		SW8260B	10/11/12 06:38 / jk
Surr: Dibromofluoromethane	116	%REC		70-130		SW8260B	10/11/12 06:38 / jk
Surr: p-Bromofluorobenzene	105	%REC		80-120		SW8260B	10/11/12 06:38 / jk
Surr: Toluene-d8	100	%REC		80-120		SW8260B	10/11/12 06:38 / jk

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

Prepared by Casper, WY Branch

Client: Energy Fuels Resources (USA) Inc
Project: 4th Quarter Chloroform 2012
Lab ID: C12100263-033
Client Sample ID: Trip Blank 6746

Report Date: 10/19/12
Collection Date: 10/02/12
DateReceived: 10/05/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	10/10/12 16:19 / jk
Chloroform	ND	ug/L		1.0		SW8260B	10/10/12 16:19 / jk
Chloromethane	ND	ug/L		1.0		SW8260B	10/10/12 16:19 / jk
Methylene chloride	ND	ug/L		1.0		SW8260B	10/10/12 16:19 / jk
Surr: 1,2-Dichlorobenzene-d4	94.0	%REC		80-120		SW8260B	10/10/12 16:19 / jk
Surr: Dibromofluoromethane	106	%REC		70-130		SW8260B	10/10/12 16:19 / jk
Surr: p-Bromofluorobenzene	104	%REC		80-120		SW8260B	10/10/12 16:19 / jk
Surr: Toluene-d8	98.0	%REC		80-120		SW8260B	10/10/12 16:19 / jk

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Energy Fuels Resources (USA) Inc
Project: 4th Quarter Chloroform 2012
Lab ID: C12100576-002
Client Sample ID: Trip Blank 6979

Report Date: 10/19/12
Collection Date: 10/10/12
DateReceived: 10/12/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	10/15/12 20:33 / jlr
Chloroform	ND	ug/L		1.0		SW8260B	10/15/12 20:33 / jlr
Chloromethane	ND	ug/L		1.0		SW8260B	10/15/12 20:33 / jlr
Methylene chloride	ND	ug/L		1.0		SW8260B	10/15/12 20:33 / jlr
Surr: 1,2-Dichlorobenzene-d4	104	%REC		80-120		SW8260B	10/15/12 20:33 / jlr
Surr: Dibromofluoromethane	109	%REC		70-130		SW8260B	10/15/12 20:33 / jlr
Surr: p-Bromofluorobenzene	104	%REC		80-120		SW8260B	10/15/12 20:33 / jlr
Surr: Toluene-d8	100	%REC		80-120		SW8260B	10/15/12 20:33 / 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

Prepared by Casper, WY Branch

Client: Energy Fuels Resources (USA) Inc
Project: 4th Quarter Chloroform 2012
Lab ID: C12100263-034
Client Sample ID: Temp Blank

Report Date: 10/19/12
Collection Date: 10/04/12
DateReceived: 10/05/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
Temperature	3.6	°C				E170.1	10/05/12 09:40 / 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

Prepared by Casper, WY Branch

Client: Energy Fuels Resources (USA) Inc
Project: 4th Quarter Chloroform 2012
Lab ID: C12100576-003
Client Sample ID: Temp Blank

Report Date: 10/19/12
Collection Date: 10/11/12
DateReceived: 10/12/12
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
Temperature	1.3	°C				E170.1	10/12/12 09:30 / kbh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

ANALYTICAL SUMMARY REPORT

October 19, 2012

Energy Fuels Resources (USA) Inc
6425 S Hwy 191
Blanding, UT 84511

Workorder No.: C12100263 Quote ID: C2975 - Chloroform Sampling

Project Name: 4th Quarter Chloroform 2012

Energy Laboratories, Inc. Casper WY received the following 34 samples for Energy Fuels Resources (USA) Inc on 10/5/2012 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C12100263-001	TW4-03R_10022012	10/02/12 7:00	10/05/12	Aqueous	E300.0 Anions Nitrogen, Nitrate + Nitrite SW8260B VOCs, Standard List
C12100263-002	TW4-03_10032012	10/03/12 10:05	10/05/12	Aqueous	Same As Above
C12100263-003	TW4-12_10032012	10/03/12 9:34	10/05/12	Aqueous	Same As Above
C12100263-004	TW4-13_10032012	10/03/12 9:40	10/05/12	Aqueous	Same As Above
C12100263-005	TW4-14_10032012	10/03/12 9:46	10/05/12	Aqueous	Same As Above
C12100263-006	TW4-23_10032012	10/03/12 10:14	10/05/12	Aqueous	Same As Above
C12100263-007	TW4-08_10032012	10/03/12 10:21	10/05/12	Aqueous	Same As Above
C12100263-008	TW4-09_10032012	10/03/12 10:30	10/05/12	Aqueous	Same As Above
C12100263-009	TW4-16_10032012	10/03/12 11:00	10/05/12	Aqueous	Same As Above
C12100263-010	TW4-27_10032012	10/03/12 7:04	10/05/12	Aqueous	Same As Above
C12100263-011	TW4-25_10032012	10/03/12 11:11	10/05/12	Aqueous	Same As Above
C12100263-012	TW4-24_10032012	10/03/12 10:53	10/05/12	Aqueous	Same As Above
C12100263-013	TW4-26_10032012	10/03/12 7:21	10/05/12	Aqueous	Same As Above
C12100263-014	TW4-06_10032012	10/03/12 7:36	10/05/12	Aqueous	Same As Above
C12100263-015	TW4-05_10032012	10/03/12 11:18	10/05/12	Aqueous	Same As Above
C12100263-016	TW4-18_10032012	10/03/12 8:32	10/05/12	Aqueous	Same As Above
C12100263-017	TW4-10_10032012	10/03/12 11:52	10/05/12	Aqueous	Same As Above
C12100263-018	TW4-19_10032012	10/03/12 8:54	10/05/12	Aqueous	Same As Above
C12100263-019	TW4-04_10032012	10/03/12 7:55	10/05/12	Aqueous	Same As Above
C12100263-020	TW4-20_10032012	10/03/12 8:09	10/05/12	Aqueous	Same As Above
C12100263-021	TW4-21R_10032012	10/03/12 12:37	10/05/12	Aqueous	Same As Above
C12100263-022	TW4-65_10032012	10/03/12 10:30	10/05/12	Aqueous	Same As Above
C12100263-023	TW4-21_10042012	10/04/12 6:46	10/05/12	Aqueous	Same As Above
C12100263-024	TW4-11_10042012	10/04/12 7:01	10/05/12	Aqueous	Same As Above
C12100263-025	TW4-07_10042012	10/04/12 7:15	10/05/12	Aqueous	Same As Above
C12100263-026	TW4-22_10042012	10/04/12 7:25	10/05/12	Aqueous	Same As Above
C12100263-027	TW4-01_10042012	10/04/12 7:34	10/05/12	Aqueous	Same As Above

ANALYTICAL SUMMARY REPORT

C12100263-028	MW-04_10042012	10/04/12 8:10	10/05/12	Aqueous	Same As Above
C12100263-029	TW4-02_10042012	10/04/12 7:42	10/05/12	Aqueous	Same As Above
C12100263-030	MW-26_10042012	10/04/12 7:59	10/05/12	Aqueous	Same As Above
C12100263-031	TW4-60_10042012	10/04/12 8:36	10/05/12	Aqueous	Same As Above
C12100263-032	TW4-70_10042012	10/04/12 6:46	10/05/12	Aqueous	Same As Above
C12100263-033	Trip Blank 6746	10/02/12 0:00	10/05/12	Aqueous	SW8260B VOCs, Standard List
C12100263-034	Temp Blank	10/04/12 0:00	10/05/12	Aqueous	Temperature

The results as reported relate only to the item(s) submitted for testing. The analyses presented in this report were performed at Energy Laboratories, Inc., 2393 Salt Creek Hwy., Casper, WY 82601, unless otherwise noted. Radiochemistry analyses were performed at Energy Laboratories, Inc., 2325 Kerzell Lane, Casper, WY 82601, unless otherwise noted. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

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: 2012.10.19 12:14:35 -06:00

CLIENT: Energy Fuels Resources (USA) Inc
Project: 4th Quarter Chloroform 2012
Sample Delivery Group: C12100263

Report Date: 10/19/12

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-cs - Energy Laboratories, Inc. - College Station, TX

CERTIFICATIONS:
USEPA: WY00002, Radiochemical WY00937; FL-DOH NELAC: E87641, Radiochemical E871017; California: 02118CA; Oregon: WY200001, Radiochemical WY200002; Utah: WY00002; Washington: C836

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

Prepared by Casper, WY Branch

Client: Energy Fuels Resources (USA) Inc
Report Date: 10/19/12
Project: 4th Quarter Chloroform 2012
Work Order: C12100263

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0									Analytical Run: IC2-C_121008A	
Sample ID: ICV-100812-10	Initial Calibration Verification Standard								10/08/12 14:57	
Chloride		9.93	mg/L	1.0	99	90	110			
Method: E300.0									Batch: R165596	
Sample ID: ICB-100812-11	Method Blank					Run: IC2-C_121008A			10/08/12 15:12	
Chloride		ND	mg/L	1.0						
Sample ID: LFB-100812-13	Laboratory Fortified Blank					Run: IC2-C_121008A			10/08/12 15:43	
Chloride		9.85	mg/L	1.0	99	90	110			
Sample ID: LFBD-100812-14	Laboratory Fortified Blank Duplicate					Run: IC2-C_121008A			10/08/12 15:59	
Chloride		10.0	mg/L	1.0	100	90	110	1.8	10	
Sample ID: C12100263-001AMS	Sample Matrix Spike					Run: IC2-C_121008A			10/08/12 20:05	
Chloride		9.94	mg/L	1.0	99	90	110			
Sample ID: C12100263-001AMSD	Sample Matrix Spike Duplicate					Run: IC2-C_121008A			10/08/12 20:21	
Chloride		10.1	mg/L	1.0	101	90	110	2.0	10	
Sample ID: C12100263-011AMS	Sample Matrix Spike					Run: IC2-C_121008A			10/08/12 23:41	
Chloride		470	mg/L	2.1	131	90	110			S
Sample ID: C12100263-011AMSD	Sample Matrix Spike Duplicate					Run: IC2-C_121008A			10/08/12 23:57	
Chloride		434	mg/L	2.1	95	90	110	8.0	10	
Sample ID: C12100263-021AMS	Sample Matrix Spike					Run: IC2-C_121008A			10/09/12 03:17	
Chloride		10.1	mg/L	1.0	101	90	110			
Sample ID: C12100263-021AMSD	Sample Matrix Spike Duplicate					Run: IC2-C_121008A			10/09/12 03:33	
Chloride		10.3	mg/L	1.0	103	90	110	2.2	10	

Qualifiers:

RL - Analyte reporting limit.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Energy Fuels Resources (USA) Inc
Report Date: 10/19/12
Project: 4th Quarter Chloroform 2012
Work Order: C12100263

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E353.2										Batch: R165456
Sample ID: MBLK-1		Method Blank				Run: TECHNICON_121005A				10/05/12 11:23
Nitrogen, Nitrate+Nitrite as N		ND	mg/L	0.10						
Sample ID: LCS-2		Laboratory Control Sample				Run: TECHNICON_121005A				10/05/12 11:25
Nitrogen, Nitrate+Nitrite as N		2.53	mg/L	0.10	101	90	110			
Sample ID: LFB-3		Laboratory Fortified Blank				Run: TECHNICON_121005A				10/05/12 11:28
Nitrogen, Nitrate+Nitrite as N		1.96	mg/L	0.10	100	90	110			
Sample ID: C12100263-001BMS		Sample Matrix Spike				Run: TECHNICON_121005A				10/05/12 13:41
Nitrogen, Nitrate+Nitrite as N		1.96	mg/L	0.10	100	90	110			
Sample ID: C12100263-001BMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_121005A				10/05/12 13:43
Nitrogen, Nitrate+Nitrite as N		2.04	mg/L	0.10	104	90	110	4.0	10	
Sample ID: C12100263-011BMS		Sample Matrix Spike				Run: TECHNICON_121005A				10/05/12 14:18
Nitrogen, Nitrate+Nitrite as N		36.5	mg/L	1.0	103	90	110			
Sample ID: C12100263-011BMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_121005A				10/05/12 14:21
Nitrogen, Nitrate+Nitrite as N		37.1	mg/L	1.0	106	90	110	1.6	10	
Sample ID: C12100263-021BMS		Sample Matrix Spike				Run: TECHNICON_121005A				10/05/12 14:56
Nitrogen, Nitrate+Nitrite as N		1.99	mg/L	0.10	101	90	110			
Sample ID: C12100263-021BMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_121005A				10/05/12 14:58
Nitrogen, Nitrate+Nitrite as N		1.92	mg/L	0.10	98	90	110	3.6	10	
Sample ID: C12100263-031BMS		Sample Matrix Spike				Run: TECHNICON_121005A				10/05/12 15:31
Nitrogen, Nitrate+Nitrite as N		1.98	mg/L	0.10	101	90	110			
Sample ID: C12100263-031BMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_121005A				10/05/12 15:33
Nitrogen, Nitrate+Nitrite as N		1.99	mg/L	0.10	102	90	110	0.5	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Energy Fuels Resources (USA) Inc
Report Date: 10/19/12
Project: 4th Quarter Chloroform 2012
Work Order: C12100263

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										Batch: R165614
Sample ID: 100912_LCS_4	8	Laboratory Control Sample				Run: SATURNCA_121009A				10/09/12 16:15
Carbon tetrachloride		11	ug/L	1.0	109	70	130			
Chloroform		11	ug/L	1.0	108	70	130			
Chloromethane		12	ug/L	1.0	119	70	130			
Methylene chloride		11	ug/L	1.0	112	70	130			
Surr: 1,2-Dichlorobenzene-d4				1.0	104	80	120			
Surr: Dibromofluoromethane				1.0	113	70	130			
Surr: p-Bromofluorobenzene				1.0	102	80	130			
Surr: Toluene-d8				1.0	103	80	120			
Sample ID: 100912_MBLK_6	8	Method Blank				Run: SATURNCA_121009A				10/09/12 17:45
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	98	80	120			
Surr: Dibromofluoromethane				1.0	106	70	130			
Surr: p-Bromofluorobenzene				1.0	100	80	120			
Surr: Toluene-d8				1.0	101	80	120			
Sample ID: C12100263-015CMS	8	Sample Matrix Spike				Run: SATURNCA_121009A				10/09/12 23:44
Carbon tetrachloride		220	ug/L	10	110	70	130			
Chloroform		220	ug/L	10	107	70	130			
Chloromethane		210	ug/L	10	106	70	130			
Methylene chloride		210	ug/L	10	105	70	130			
Surr: 1,2-Dichlorobenzene-d4				1.0	97	80	120			
Surr: Dibromofluoromethane				1.0	109	70	130			
Surr: p-Bromofluorobenzene				1.0	103	80	120			
Surr: Toluene-d8				1.0	105	80	120			
Sample ID: C12100263-015CMSD	8	Sample Matrix Spike Duplicate				Run: SATURNCA_121009A				10/10/12 00:20
Carbon tetrachloride		220	ug/L	10	110	70	130	0.4	20	
Chloroform		220	ug/L	10	107	70	130	0.4	20	
Chloromethane		220	ug/L	10	111	70	130	4.4	20	
Methylene chloride		220	ug/L	10	109	70	130	3.7	20	
Surr: 1,2-Dichlorobenzene-d4				1.0	96	80	120	0.0	10	
Surr: Dibromofluoromethane				1.0	109	70	130	0.0	10	
Surr: p-Bromofluorobenzene				1.0	101	80	120	0.0	10	
Surr: Toluene-d8				1.0	100	80	120	0.0	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Energy Fuels Resources (USA) Inc
Report Date: 10/19/12
Project: 4th Quarter Chloroform 2012
Work Order: C12100263

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										Batch: R165658
Sample ID: 101012_LCS_4	8	Laboratory Control Sample				Run: SATURNCA_121010A				10/10/12 13:48
Carbon tetrachloride		11	ug/L	1.0	112	70	130			
Chloroform		11	ug/L	1.0	110	70	130			
Chloromethane		10	ug/L	1.0	105	70	130			
Methylene chloride		10	ug/L	1.0	103	70	130			
Surr: 1,2-Dichlorobenzene-d4				1.0	102	80	120			
Surr: Dibromofluoromethane				1.0	103	70	130			
Surr: p-Bromofluorobenzene				1.0	107	80	130			
Surr: Toluene-d8				1.0	101	80	120			
Sample ID: 101012_MBLK_6	8	Method Blank				Run: SATURNCA_121010A				10/10/12 15:00
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	98	80	120			
Surr: Dibromofluoromethane				1.0	109	70	130			
Surr: p-Bromofluorobenzene				1.0	103	80	120			
Surr: Toluene-d8				1.0	98	80	120			
Sample ID: C12100263-016CMS	8	Sample Matrix Spike				Run: SATURNCA_121010A				10/10/12 21:41
Carbon tetrachloride		220	ug/L	10	112	70	130			
Chloroform		280	ug/L	10	89	70	130			
Chloromethane		210	ug/L	10	106	70	130			
Methylene chloride		210	ug/L	10	104	70	130			
Surr: 1,2-Dichlorobenzene-d4				1.0	95	80	120			
Surr: Dibromofluoromethane				1.0	109	70	130			
Surr: p-Bromofluorobenzene				1.0	105	80	120			
Surr: Toluene-d8				1.0	100	80	120			
Sample ID: C12100263-016CMSD	8	Sample Matrix Spike Duplicate				Run: SATURNCA_121010A				10/10/12 22:17
Carbon tetrachloride		240	ug/L	10	119	70	130	5.9	20	
Chloroform		270	ug/L	10	86	70	130	1.8	20	
Chloromethane		210	ug/L	10	107	70	130	0.8	20	
Methylene chloride		210	ug/L	10	106	70	130	1.5	20	
Surr: 1,2-Dichlorobenzene-d4				1.0	97	80	120	0.0	10	
Surr: Dibromofluoromethane				1.0	110	70	130	0.0	10	
Surr: p-Bromofluorobenzene				1.0	108	80	120	0.0	10	
Surr: Toluene-d8				1.0	102	80	120	0.0	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Energy Fuels Resources (USA) Inc
Report Date: 10/19/12
Project: 4th Quarter Chloroform 2012
Work Order: C12100263

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										Batch: R165720
Sample ID: 101112_LCS_4	5	Laboratory Control Sample				Run: SATURNCA_121011B				10/11/12 12:46
Chloroform		10.0	ug/L	1.0	100	70	130			
Surr: 1,2-Dichlorobenzene-d4				1.0	98	80	120			
Surr: Dibromofluoromethane				1.0	103	70	130			
Surr: p-Bromofluorobenzene				1.0	102	80	130			
Surr: Toluene-d8				1.0	98	80	120			
Sample ID: 101112_MBLK_6	5	Method Blank				Run: SATURNCA_121011B				10/11/12 13:58
Chloroform		ND	ug/L	1.0						
Surr: 1,2-Dichlorobenzene-d4				1.0	94	80	120			
Surr: Dibromofluoromethane				1.0	109	70	130			
Surr: p-Bromofluorobenzene				1.0	98	80	120			
Surr: Toluene-d8				1.0	100	80	120			
Sample ID: C12100263-028CMS	5	Sample Matrix Spike				Run: SATURNCA_121011B				10/12/12 08:19
Chloroform		3400	ug/L	100	105	70	130			
Surr: 1,2-Dichlorobenzene-d4				1.0	104	80	120			
Surr: Dibromofluoromethane				1.0	108	70	130			
Surr: p-Bromofluorobenzene				1.0	108	80	120			
Surr: Toluene-d8				1.0	99	80	120			
Sample ID: C12100263-028CMSD	5	Sample Matrix Spike Duplicate				Run: SATURNCA_121011B				10/12/12 08:55
Chloroform		3400	ug/L	100	105	70	130	0.2	20	
Surr: 1,2-Dichlorobenzene-d4				1.0	99	80	120	0.0	10	
Surr: Dibromofluoromethane				1.0	106	70	130	0.0	10	
Surr: p-Bromofluorobenzene				1.0	101	80	120	0.0	10	
Surr: Toluene-d8				1.0	102	80	120	0.0	10	
Method: SW8260B										Batch: R165799
Sample ID: 101212_LCS_4	5	Laboratory Control Sample				Run: SATURNCA_121012C				10/12/12 13:37
Chloroform		9.8	ug/L	1.0	98	70	130			
Surr: 1,2-Dichlorobenzene-d4				1.0	97	80	120			
Surr: Dibromofluoromethane				1.0	110	70	130			
Surr: p-Bromofluorobenzene				1.0	106	80	130			
Surr: Toluene-d8				1.0	100	80	120			
Sample ID: 101212_MBLK_6	5	Method Blank				Run: SATURNCA_121012C				10/12/12 14:49
Chloroform		ND	ug/L	1.0						
Surr: 1,2-Dichlorobenzene-d4				1.0	99	80	120			
Surr: Dibromofluoromethane				1.0	107	70	130			
Surr: p-Bromofluorobenzene				1.0	102	80	120			
Surr: Toluene-d8				1.0	98	80	120			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

Standard Reporting Procedures

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

Workorder Receipt Checklist

Energy Fuels Resources (USA) Inc — C12100263

Login completed by: Tracy Judge — Date Received: 10/5/2012

Reviewed by: BL2000\swaldrop — Received by: tj

Reviewed Date: 10/8/2012 — 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? (Exclude analyses that are considered field parameters such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.)	Yes ☑	No ☐	
Temp Blank received?	Yes ☑	No ☐	Not Applicable ☐
Container/Temp Blank temperature:	3.6°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

Chain of Custody and Analytical Request Record

Page 1 of 4

PLEASE PRINT (Provide as much information as possible.)

Company Name:	Project Name, PWS, Permit, Etc.	Sample Origin	EPA/State Compliance:
Energy Fuels	4th Quarter Chloroform 2012	State: UT	Yes ☒ No ☐
Report Mail Address: PO Box 809 Blanding UT 84511	**Contact Name:** Garrin Palmer **Phone/Fax:** 435 678 2221	**Email:**	**Sampler: (Please Print)** Tanner Holliday
Invoice Address: Same	**Invoice Contact & Phone:** David Turk 435 678 2221	**Purchase Order:**	**Quote/Bottle Order:**

Special Report/Formats:

☐ DW ☐ EDD/EDT (Electronic Data) Format: _____
☐ POTW/WWTP ☐ LEVEL IV
☐ State: _____ ☐ NELAC
☐ Other: _____

ANALYSIS REQUESTED

Number of Containers
Sample Type: A W S V B O DW
Air Water Soils/Solids Vegetation Bioassay Other DW - Drinking Water

Quote # C2975

SEE ATTACHED

Standard Turnaround (TAT)

RUSH

Contact ELI prior to **RUSH** sample submittal for charges and scheduling – See Instruction Page

Comments:

Shipped by: Fedex-Es
Cooler ID(s): Client
Receipt Temp 3.6 °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	TW4-03R10022012	10/2/2012	0700	5-W	X	
2	TW4-03_10032012	10/3/2012	1005	5-W	X	
3	TW4-12_10032012	10/3/2012	0934	5-W	X	
4	TW4-13_10032012	10/3/2012	0940	5-W	X	
5	TW4-14_10032012	10/3/2012	0946	5-W	X	
6	TW4-23_10032012	10/3/2012	1014	5-W	X	
7	TW4-08_10032012	10/3/2012	1021	5-W	X	
8	TW4-09_10032012	10/3/2012	1030	5-W	X	
9	TW4-16_10032012	10/3/2012	1100	5-W	X	
10	TW4-27_10032012	10/3/2012	0704	5-W	X	

LABORATORY USE ONLY
C12100263

Custody Record MUST be Signed

	Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
	Tanner Holliday	10/4/2012 1100	Tanner Holliday			
	Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
				Received by Laboratory:	Date/Time: 10/5/12 / 940	Signature: Tracy Judge

Sample Disposal: Return to Client: _____ Lab Disposal: _____

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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.

Chain of Custody and Analytical Request Record

PLEASE PRINT (Provide as much information as possible.)

Company Name:	Project Name, PWS, Permit, Etc.	Sample Origin State:	EPA/State Compliance: Yes ☐ No ☐
Report Mail Address: Same as Page 1	Contact Name: Phone/Fax:	Email:	Sampler: (Please Print)
Invoice Address:	Invoice Contact & Phone:	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

Quote # C2975

SEE ATTACHED

Standard Turnaround (TAT)

R U S H

Contact ELI prior to **RUSH** sample submittal for charges and scheduling – See Instruction Page

Comments:

Shipped by: Fedex-ES

Cooler ID(s): Client

Receipt Temp 3.6 °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	
1	TW4-25_10032012	10/3/12	1111	S-W	X
2	TW4-24_10032012	10/3/12	1053	S-W	X
3	TW4-26_10032012	10/3/12	0721	S-W	X
4	TW4-06_10032012	10/3/12	0736	S-W	X
5	TW4-05_10032012	10/3/12	1118	S-W	X
6	TW4-18_10032012	10/3/12	0832	S-W	X
7	TW4-10_10032012	10/3/12	1152	S-W	X
8	TW4-19_10032012	10/3/12	0854	S-W	X
9	TW4-04_10032012	10/3/12	0755	S-W	X
10	TW4-20_10032012	10/3/12	0809	S-W	X

LABORATORY USE ONLY

Custody Record MUST be Signed

	Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
	Tanner Holliday	10/4/2012 1100	Tanner Holliday			
	Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
				Received by Laboratory:	Date/Time: 10/5/12 940	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 State:	EPA/State Compliance: Yes ☐ No ☐
Report Mail Address: Same	Contact Name: Phone/Fax: as Page 1	Email:	Sampler: (Please Print)
Invoice Address:	Invoice Contact & Phone:	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

Quote # C2975 | | | | | | | | | | SEE ATTACHED

Standard Turnaround (TAT) — R U S H

Contact ELI prior to **RUSH** sample submittal for charges and scheduling – See Instruction Page

Comments:

Shipped by: Fedex-ES
Cooler ID(s): Client
Receipt Temp: 3.6 °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	TW4-21R_10032012	10/3/12	1237	5-W	X										
2	TW4-65_10032012	10/3/12	1030	5-W	X										
3	TW4-21_10042012	10/4/12	0646	5-W	X										
4	TW4-11_10042012	10/4/12	0701	5-W	X										
5	TW4-07_10042012	10/4/12	0715	5-W	X										
6	TW4-22_10042012	10/4/12	0725	5-W	X										
7	TW4-01_10042012	10/4/12	0734	5-W	X										
8	MW-04_10042012	10/4/12	0810	5-W	X										
9	TW4-02_10042012	10/4/12	0742	5-W	X										
10	MW-26_10042012	10/4/12	0759	5-W	X										

LABORATORY USE ONLY

Custody Record MUST be Signed

Relinquished by (print): Tanner Holliday	Date/Time: 10/4/2012 1100	Signature: Tanner Holliday	Received by (print):	Date/Time: Signature:
Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time: Signature:
Sample Disposal: Return to Client: _____	Lab Disposal: _____		Received by Laboratory:	Date/Time: 10-5-12/940 Signature: Tracy Lundgren

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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 State:	EPA/State Compliance: Yes ☐ No ☐
Report Mail Address: Same	Contact Name: as Page 1 Phone/Fax:	Email:	Sampler: (Please Print)
Invoice Address:	Invoice Contact & Phone:	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

Quote # C2975

SEE ATTACHED

Standard Turnaround (TAT)

R U S H

Contact ELI prior to **RUSH** sample submittal for charges and scheduling – See Instruction Page

Comments:

Shipped by: Fedex-ES
Cooler ID(s): Client
Receipt Temp: 3.6 °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 TAT	RUSH	Comments
1	TW4-60_10042012	10/4/12	0836	5-W	X												
2	TW4-70_10042012	10/4/12	0646	5-W	X												
3	Trip Blank	10/02/12															
4	Temp Blank	10/4/12															
5																	
6																	
7																	
8																	
9																	
10																	

LABORATORY USE ONLY

Custody Record MUST be Signed

Relinquished by (print): Tanner Holliday	Date/Time: 10/4/12 1100	Signature: Tanner Holliday	Received by (print):	Date/Time: Signature:
Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time: Signature:
Sample Disposal: Return to Client: _____ Lab Disposal: _____			Received by Laboratory:	Date/Time: 10/5/12 940 Signature: Tracy Judge

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Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.

ENERGY LABORATORIES
www.energylab.com
Analytical Excellence Since 1952
Helena, MT 877-472-0711 • Billings, MT 800-735-4489 • Casper, WY 888-235-0515
Gillette, WY 866-686-7175 • Rapid City, SD 888-672-1225 • College Station, TX 888-690-2218

ANALYTICAL SUMMARY REPORT

October 19, 2012

Energy Fuels Resources (USA) Inc
6425 S Hwy 191
Blanding, UT 84511

Workorder No.: C12100576 Quote ID: C2975 - Chloroform Sampling

Project Name: 4th Quarter Chloroform 2012

Energy Laboratories, Inc. Casper WY received the following 3 samples for Energy Fuels Resources (USA) Inc on 10/12/2012 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C12100576-001	MW-32_10102012	10/10/12 13:20	10/12/12	Aqueous	E300.0 Anions Nitrogen, Nitrate + Nitrite SW8260B VOCs, Standard List
C12100576-002	Trip Blank 6979	10/10/12 0:00	10/12/12	Aqueous	SW8260B VOCs, Standard List
C12100576-003	Temp Blank	10/11/12 0:00	10/12/12	Aqueous	Temperature

The results as reported relate only to the item(s) submitted for testing. The analyses presented in this report were performed at Energy Laboratories, Inc., 2393 Salt Creek Hwy., Casper, WY 82601, unless otherwise noted. Radiochemistry analyses were performed at Energy Laboratories, Inc., 2325 Kerzell Lane, Casper, WY 82601, unless otherwise noted. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

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: 2012.10.19 12:37:30 -06:00

CLIENT: Energy Fuels Resources (USA) Inc
Project: 4th Quarter Chloroform 2012
Sample Delivery Group: C12100576

Report Date: 10/19/12

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-cs - Energy Laboratories, Inc. - College Station, TX

CERTIFICATIONS:
USEPA: WY00002, Radiochemical WY00937; FL-DOH NELAC: E87641, Radiochemical E871017; California: 02118CA; Oregon: WY200001, Radiochemical WY200002; Utah: WY00002; Washington: C836

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

Prepared by Casper, WY Branch

Client: Energy Fuels Resources (USA) Inc
Report Date: 10/19/12
Project: 4th Quarter Chloroform 2012
Work Order: C12100576

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0									Analytical Run: IC2-C_121016A	
Sample ID: ICV-101612-10		Initial Calibration Verification Standard							10/16/12 16:29	
Chloride		9.83	mg/L	1.0	98	90	110			
Method: E300.0									Batch: R165971	
Sample ID: ICB-101612-11		Method Blank				Run: IC2-C_121016A			10/16/12 16:45	
Chloride		ND	mg/L	2.0						
Sample ID: LFB-101612-12		Laboratory Fortified Blank				Run: IC2-C_121016A			10/16/12 17:00	
Chloride		9.66	mg/L	1.0	96	90	110			
Sample ID: C12100579-002AMS		Sample Matrix Spike				Run: IC2-C_121016A			10/17/12 01:14	
Chloride		55.1	mg/L	1.0	97	90	110			
Sample ID: C12100579-002AMSD		Sample Matrix Spike Duplicate				Run: IC2-C_121016A			10/17/12 01:29	
Chloride		55.3	mg/L	1.0	97	90	110	0.3	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Energy Fuels Resources (USA) Inc
Report Date: 10/19/12
Project: 4th Quarter Chloroform 2012
Work Order: C12100576

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E353.2										Batch: R165810
Sample ID: MBLK-1		Method Blank				Run: TECHNICON_121015A				10/15/12 10:45
Nitrogen, Nitrate+Nitrite as N		ND	mg/L	0.10						
Sample ID: LCS-2		Laboratory Control Sample				Run: TECHNICON_121015A				10/15/12 10:47
Nitrogen, Nitrate+Nitrite as N		2.58	mg/L	0.10	103	90	110			
Sample ID: LFB-3		Laboratory Fortified Blank				Run: TECHNICON_121015A				10/15/12 10:50
Nitrogen, Nitrate+Nitrite as N		1.98	mg/L	0.10	101	90	110			
Sample ID: C12100574-006CMS		Sample Matrix Spike				Run: TECHNICON_121015A				10/15/12 13:50
Nitrogen, Nitrate+Nitrite as N		1.95	mg/L	0.10	99	90	110			
Sample ID: C12100574-006CMSD		Sample Matrix Spike Duplicate				Run: TECHNICON_121015A				10/15/12 13:52
Nitrogen, Nitrate+Nitrite as N		1.91	mg/L	0.10	97	90	110	2.1	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Energy Fuels Resources (USA) Inc
Report Date: 10/19/12
Project: 4th Quarter Chloroform 2012
Work Order: C12100576

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										Batch: R165841
Sample ID: 101512_LCS_4	8	Laboratory Control Sample				Run: SATURNCA_121015A				10/15/12 14:26
Carbon tetrachloride		9.9	ug/L	1.0	99	70	130			
Chloroform		9.5	ug/L	1.0	95	70	130			
Chloromethane		11	ug/L	1.0	108	70	130			
Methylene chloride		9.3	ug/L	1.0	93	70	130			
Surr: 1,2-Dichlorobenzene-d4				1.0	92	80	120			
Surr: Dibromofluoromethane				1.0	103	70	130			
Surr: p-Bromofluorobenzene				1.0	98	80	130			
Surr: Toluene-d8				1.0	100	80	120			
Sample ID: 101512_MBLK_6	8	Method Blank				Run: SATURNCA_121015A				10/15/12 15:38
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	96	80	120			
Surr: Dibromofluoromethane				1.0	109	70	130			
Surr: p-Bromofluorobenzene				1.0	96	80	120			
Surr: Toluene-d8				1.0	102	80	120			
Sample ID: C12100563-004JMS	8	Sample Matrix Spike				Run: SATURNCA_121015A				10/16/12 06:44
Carbon tetrachloride		210	ug/L	10	105	70	130			
Chloroform		210	ug/L	10	106	70	130			
Chloromethane		220	ug/L	10	112	70	130			
Methylene chloride		200	ug/L	10	100	70	130			
Surr: 1,2-Dichlorobenzene-d4				1.0	100	80	120			
Surr: Dibromofluoromethane				1.0	111	70	130			
Surr: p-Bromofluorobenzene				1.0	105	80	120			
Surr: Toluene-d8				1.0	101	80	120			
Sample ID: C12100563-004JMSD	8	Sample Matrix Spike Duplicate				Run: SATURNCA_121015A				10/16/12 07:20
Carbon tetrachloride		210	ug/L	10	107	70	130	1.5	20	
Chloroform		210	ug/L	10	106	70	130	0.8	20	
Chloromethane		220	ug/L	10	108	70	130	3.3	20	
Methylene chloride		200	ug/L	10	102	70	130	2.0	20	
Surr: 1,2-Dichlorobenzene-d4				1.0	97	80	120	0.0	10	
Surr: Dibromofluoromethane				1.0	110	70	130	0.0	10	
Surr: p-Bromofluorobenzene				1.0	106	80	120	0.0	10	
Surr: Toluene-d8				1.0	96	80	120	0.0	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

Standard Reporting Procedures

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

Workorder Receipt Checklist

Energy Fuels Resources (USA) Inc C12100576

Login completed by: Kerri Schroeder
Date Received: 10/12/2012

Reviewed by: BL2000\swaldrop
Received by: km

Reviewed Date: 10/18/2012
Carrier name: NDA

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? (Exclude analyses that are considered field parameters such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.)	Yes ☑	No ☐	
Temp Blank received?	Yes ☑	No ☐	Not Applicable ☐
Container/Temp Blank temperature:	1.3°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

Chain of Custody and Analytical Request Record

PLEASE PRINT (Provide as much information as possible.)

Company Name: Energy Fuels	Project Name, PWS, Permit, Etc.: 4th Quarter Chloroform 2012	Sample Origin State: UT	EPA/State Compliance: Yes ☒ No ☐
Report Mail Address: ~~6425 S. Hwy 191~~ PO Box 809 Blanding, UT 84511	Contact Name: Garrin Palmer Phone/Fax: 435 678 2221	Email:	Sampler: (Please Print) Garrin Palmer
Invoice Address: Same	Invoice Contact & Phone: Same	Purchase Order:	Quote/Bottle Order:

Special Report/Formats:

☐ DW ☐ EDD/EDT (Electronic Data) Format: _____
☐ POTW/WWTP ☐ LEVEL IV
☐ State: _____ ☐ NELAC
☐ Other: _____

Number of Containers
Sample Type: A W S V B O DW
Air Water Soils/Solids
Vegetation Biossay Other
DW - Drinking Water

ANALYSIS REQUESTED

Quote # C2975

SEE ATTACHED

Standard Turnaround (TAT)

RUSH

Contact ELI prior to **RUSH** sample submittal for charges and scheduling – See Instruction Page

Comments:

Shipped by: UPS-GA-ARS

Cooler ID(s): Client

Receipt Temp: 1.3 °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	MW-32_10102012	10/10/2012	1320	S-W	X	
2	Trip Blank 6979	10/10/2012				
3	Temp Blank	10/11/2012				
4						
5						
6						
7						
8						
9						
10						

C12100576

LABORATORY USE ONLY

Custody Record MUST be Signed

Relinquished by (print): Garrin Palmer	Date/Time: 10/11/12 1100	Signature: Garrin Palmer	Received by (print): / Date/Time: / Signature:
Relinquished by (print):	Date/Time:	Signature:	Received by (print): / Date/Time: / Signature:
Sample Disposal: Return to Client: _____ Lab Disposal: _____			Received by laboratory: Kristy Miller Date/Time: 10/12/12 930 Signature:

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.

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	--			1944		N/A	6.95		N/A	14.41		N/A	176		N/A	0.0		N/A
TW4-01	59.16	70.00	59	70	OK	2113	2123	0.47	6.48	6.48	0.00	15.23	15.15	0.53	169	159	6.10	18.2	18.1	0.55
TW4-02	68.94	55.00	69	55	Pumped Dry	2909	2925	0.55	6.79	7.02	3.33	13.87	13.79	0.58	188	179	4.90	2.5	3.9	43.75
TW4-03	118.70	85.00	119	85	Pumped Dry	1671	1693	1.31	6.98	7.04	0.86	15.30	15.15	0.99	203	193	5.05	2.9	7.1	84.00
TW4-04	NA	Continuously pumped well	--			2331		N/A	6.56		N/A	14.35		N/A	211		N/A	70.2		N/A
TW4-05	82.72	90.00	83	90	OK	1477	1471	0.41	6.29	6.35	0.95	15.61	15.62	0.06	173	170	1.75	622	601	3.43
TW4-06	36.42	25.00	36	25	Pumped Dry	3906	3938	0.82	6.11	6.21	1.62	12.93	13.11	1.38	268	249	7.35	23.1	100.8	125.42
TW4-07	67.84	60.00	68	60	Pumped Dry	1587	1580	0.44	7.03	7.01	0.28	15.15	15.25	0.66	165	170	2.99	10.5	15.1	35.94
TW4-08	76.40	80.00	76	80	OK	3246	3242	0.12	6.97	6.97	0.00	14.93	14.93	0.00	111	109	1.82	53.0	53.6	1.13
TW4-09	85.28	90.00	85	90	OK	2282	2285	0.13	6.54	6.54	0.00	14.99	15.00	0.07	221	211	4.63	255	243	4.82
TW4-10	72.10	47.50	72	48	Pumped Dry	2412	2391	0.87	7.09	6.94	2.14	17.62	17.59	0.17	141	136	3.61	22.1	35.1	45.45
TW4-11	56.40	60.00	56	60	OK	1590	1591	0.06	6.98	7.00	0.29	14.57	14.57	0.00	194	194	0.00	14.5	15.0	3.39
TW4-12	71.00	80.00	71	80	OK	1069	1068	0.09	7.00	7.01	0.14	14.63	14.63	0.00	336	335	0.30	9.2	9.2	0.00
TW4-13	72.76	55.00	73	55	Pumped Dry	1609	1603	0.37	7.03	7.01	0.28	14.53	14.49	0.28	174	170	2.33	0.3	3.9	171.43
TW4-14	8.60	5.00	9	5	Pumped Dry	3488	3502	0.40	7.14	7.08	0.84	15.15	15.08	0.46	205	197	3.98	11	13.9	23.29
TW4-15 (MW-26)	NA	Continuously pumped well	--			3377		N/A	6.65		N/A	14.40		N/A	177		N/A	0.00		N/A
TW4-16	108.00	120.00	108	120	OK	2121	2106	0.71	6.46	6.47	0.15	15.01	15.02	0.07	41	40	2.47	597	610	2.15
TW4-17 (MW-32)	73.56	75.95	74	76	OK	3841	3830	0.29	6.42	6.42	0.00	15.02	14.95	0.47	283	280	1.07	4.1	4.0	2.47
TW4-18	104.98	110.00	105	110	OK	2045	2035	0.49	6.12	6.11	0.16	15.52	15.52	0.00	118	118	0.00	740	760	2.67
TW4-19	NA	Continuously pumped well	--			2801		N/A	6.82		N/A	15.01		N/A	204		N/A	2.1		N/A
TW4-20	NA	Continuously pumped well	--			4055		N/A	6.32		N/A	14.91		N/A	214		N/A	4.4		N/A
TW4-21	87.30	90.00	87	90	OK	3472	3481	0.26	6.85	6.84	0.15	16.13	16.12	0.06	215	215	0.00	159	163	2.48
TW4-22	79.02	65.00	79	65	Pumped Dry	1312	1315	0.23	7.16	7.15	0.14	14.35	14.41	0.42	170	163	4.20	3	8.9	99.16
TW4-23	64.76	70.00	65	70	OK	3623	3618	0.14	6.40	6.38	0.31	14.34	14.33	0.07	203	203	0.00	401	410	2.22
TW4-24	75.62	80.00	76	80	OK	9204	9301	1.05	6.59	6.58	0.15	15.44	15.45	0.06	63	63	0.00	57.1	59.1	3.44
TW4-25	111.66	120.00	112	120	OK	2891	2884	0.24	6.98	6.98	0.00	15.26	15.26	0.00	185	185	0.00	183	189	3.23
TW4-26	30.02	20.00	30	20	Pumped Dry	6246	6248	0.03	4.11	4.09	0.49	13.2	13.30	0.75	311	330	5.93	9.0	11.0	20.00
TW4-27	17.86	7.50	18	8	Pumped Dry	5046	5240	3.77	5.74	5.91	2.92	14.78	14.51	1.84	233	237	1.70	20.3	20.6	1.47

MW-4, TW4-4, MW-26, TW4-19, and TW4-20 are continually pumped wells.

TW4-02,TW4-03, TW4-06, TW4-07, TW4-10, TW4-13, TW4-14, TW4-22, TW4-26, and TW4-27 were pumped dry and sampled after recovery.

RPD >10%. Per the revised QAP Revision 7.2, Attachment 2-3, when a well is purged to dryness, only pH, temperature and specific conductance parameters are required to be within 10% RPD. Redox potential and turbidity parameters are measured for information purposes only and as such are not required to meet the 10% RPD criteria used for pH, specific conductance and temperature.

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 are included for information purposes only.

I-2: Holding Time Evaluation

Location ID	Parameter Name	Date Sampled	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
Trip Blank	Carbon tetrachloride	10/2/2012	10/10/2012	8	14	OK
Trip Blank	Chloroform	10/2/2012	10/10/2012	8	14	OK
Trip Blank	Chloromethane	10/2/2012	10/10/2012	8	14	OK
Trip Blank	Methylene chloride	10/2/2012	10/10/2012	8	14	OK
Trip Blank	Carbon tetrachloride	10/10/2012	10/15/2012	5	14	OK
Trip Blank	Chloroform	10/10/2012	10/15/2012	5	14	OK
Trip Blank	Chloromethane	10/10/2012	10/15/2012	5	14	OK
Trip Blank	Methylene chloride	10/10/2012	10/15/2012	5	14	OK
MW-04	Chloride	10/4/2012	10/9/2012	5	28	OK
MW-04	Carbon tetrachloride	10/4/2012	10/11/2012	7	14	OK
MW-04	Chloroform	10/4/2012	10/12/2012	8	14	OK
MW-04	Chloromethane	10/4/2012	10/11/2012	7	14	OK
MW-04	Methylene chloride	10/4/2012	10/11/2012	7	14	OK
MW-04	Nitrate+Nitrite as N	10/4/2012	10/5/2012	1	28	OK
TW4-01	Chloride	10/4/2012	10/9/2012	5	28	OK
TW4-01	Carbon tetrachloride	10/4/2012	10/11/2012	7	14	OK
TW4-01	Chloroform	10/4/2012	10/12/2012	8	14	OK
TW4-01	Chloromethane	10/4/2012	10/11/2012	7	14	OK
TW4-01	Methylene chloride	10/4/2012	10/11/2012	7	14	OK
TW4-01	Nitrate+Nitrite as N	10/4/2012	10/5/2012	1	28	OK
TW4-02	Chloride	10/4/2012	10/9/2012	5	28	OK
TW4-02	Carbon tetrachloride	10/4/2012	10/11/2012	7	14	OK
TW4-02	Chloroform	10/4/2012	10/13/2012	9	14	OK
TW4-02	Chloromethane	10/4/2012	10/11/2012	7	14	OK
TW4-02	Methylene chloride	10/4/2012	10/11/2012	7	14	OK
TW4-02	Nitrate+Nitrite as N	10/4/2012	10/5/2012	1	28	OK
TW4-03	Chloride	10/3/2012	10/8/2012	5	28	OK
TW4-03	Carbon tetrachloride	10/3/2012	10/9/2012	6	14	OK
TW4-03	Chloroform	10/3/2012	10/9/2012	6	14	OK
TW4-03	Chloromethane	10/3/2012	10/9/2012	6	14	OK
TW4-03	Methylene chloride	10/3/2012	10/9/2012	6	14	OK
TW4-03	Nitrate+Nitrite as N	10/3/2012	10/5/2012	2	28	OK
TW4-03R	Chloride	10/2/2012	10/8/2012	6	28	OK
TW4-03R	Carbon tetrachloride	10/2/2012	10/9/2012	7	14	OK
TW4-03R	Chloroform	10/2/2012	10/9/2012	7	14	OK
TW4-03R	Chloromethane	10/2/2012	10/9/2012	7	14	OK
TW4-03R	Methylene chloride	10/2/2012	10/9/2012	7	14	OK
TW4-03R	Nitrate+Nitrite as N	10/2/2012	10/5/2012	3	28	OK
TW4-04	Chloride	10/3/2012	10/9/2012	6	28	OK
TW4-04	Carbon tetrachloride	10/3/2012	10/10/2012	7	14	OK
TW4-04	Chloroform	10/3/2012	10/12/2012	9	14	OK
TW4-04	Chloromethane	10/3/2012	10/10/2012	7	14	OK
TW4-04	Methylene chloride	10/3/2012	10/10/2012	7	14	OK
TW4-04	Nitrate+Nitrite as N	10/3/2012	10/5/2012	2	28	OK
TW4-05	Chloride	10/3/2012	10/9/2012	6	28	OK
TW4-05	Carbon tetrachloride	10/3/2012	10/9/2012	6	14	OK
TW4-05	Chloroform	10/3/2012	10/9/2012	6	14	OK
TW4-05	Chloromethane	10/3/2012	10/9/2012	6	14	OK

I-2: Holding Time Evaluation

Location ID	Parameter Name	Date Sampled	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
TW4-05	Methylene chloride	10/3/2012	10/9/2012	6	14	OK
TW4-05	Nitrate+Nitrite as N	10/3/2012	10/5/2012	2	28	OK
TW4-06	Chloride	10/3/2012	10/9/2012	6	28	OK
TW4-06	Carbon tetrachloride	10/3/2012	10/10/2012	7	14	OK
TW4-06	Chloroform	10/3/2012	10/10/2012	7	14	OK
TW4-06	Chloromethane	10/3/2012	10/10/2012	7	14	OK
TW4-06	Methylene chloride	10/3/2012	10/10/2012	7	14	OK
TW4-06	Nitrate+Nitrite as N	10/3/2012	10/5/2012	2	28	OK
TW4-07	Chloride	10/4/2012	10/9/2012	5	28	OK
TW4-07	Carbon tetrachloride	10/4/2012	10/11/2012	7	14	OK
TW4-07	Chloroform	10/4/2012	10/12/2012	8	14	OK
TW4-07	Chloromethane	10/4/2012	10/11/2012	7	14	OK
TW4-07	Methylene chloride	10/4/2012	10/11/2012	7	14	OK
TW4-07	Nitrate+Nitrite as N	10/4/2012	10/5/2012	1	28	OK
TW4-08	Chloride	10/3/2012	10/8/2012	5	28	OK
TW4-08	Carbon tetrachloride	10/3/2012	10/10/2012	7	14	OK
TW4-08	Chloroform	10/3/2012	10/10/2012	7	14	OK
TW4-08	Chloromethane	10/3/2012	10/10/2012	7	14	OK
TW4-08	Methylene chloride	10/3/2012	10/10/2012	7	14	OK
TW4-08	Nitrate+Nitrite as N	10/3/2012	10/5/2012	2	28	OK
TW4-09	Chloride	10/3/2012	10/8/2012	5	28	OK
TW4-09	Carbon tetrachloride	10/3/2012	10/10/2012	7	14	OK
TW4-09	Chloroform	10/3/2012	10/10/2012	7	14	OK
TW4-09	Chloromethane	10/3/2012	10/10/2012	7	14	OK
TW4-09	Methylene chloride	10/3/2012	10/10/2012	7	14	OK
TW4-09	Nitrate+Nitrite as N	10/3/2012	10/5/2012	2	28	OK
TW4-10	Chloride	10/3/2012	10/9/2012	6	28	OK
TW4-10	Carbon tetrachloride	10/3/2012	10/10/2012	7	14	OK
TW4-10	Chloroform	10/3/2012	10/11/2012	8	14	OK
TW4-10	Chloromethane	10/3/2012	10/10/2012	7	14	OK
TW4-10	Methylene chloride	10/3/2012	10/10/2012	7	14	OK
TW4-10	Nitrate+Nitrite as N	10/3/2012	10/5/2012	2	28	OK
TW4-11	Chloride	10/4/2012	10/9/2012	5	28	OK
TW4-11	Carbon tetrachloride	10/4/2012	10/11/2012	7	14	OK
TW4-11	Chloroform	10/4/2012	10/12/2012	8	14	OK
TW4-11	Chloromethane	10/4/2012	10/11/2012	7	14	OK
TW4-11	Methylene chloride	10/4/2012	10/11/2012	7	14	OK
TW4-11	Nitrate+Nitrite as N	10/4/2012	10/5/2012	1	28	OK
TW4-12	Chloride	10/3/2012	10/8/2012	5	28	OK
TW4-12	Carbon tetrachloride	10/3/2012	10/10/2012	7	14	OK
TW4-12	Chloroform	10/3/2012	10/10/2012	7	14	OK
TW4-12	Chloromethane	10/3/2012	10/10/2012	7	14	OK
TW4-12	Methylene chloride	10/3/2012	10/10/2012	7	14	OK
TW4-12	Nitrate+Nitrite as N	10/3/2012	10/5/2012	2	28	OK
TW4-13	Chloride	10/3/2012	10/8/2012	5	28	OK
TW4-13	Carbon tetrachloride	10/3/2012	10/10/2012	7	14	OK
TW4-13	Chloroform	10/3/2012	10/10/2012	7	14	OK
TW4-13	Chloromethane	10/3/2012	10/10/2012	7	14	OK

I-2: Holding Time Evaluation

Location ID	Parameter Name	Date Sampled	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
TW4-13	Methylene chloride	10/3/2012	10/10/2012	7	14	OK
TW4-13	Nitrate+Nitrite as N	10/3/2012	10/5/2012	2	28	OK
TW4-14	Chloride	10/3/2012	10/8/2012	5	28	OK
TW4-14	Carbon tetrachloride	10/3/2012	10/10/2012	7	14	OK
TW4-14	Chloroform	10/3/2012	10/10/2012	7	14	OK
TW4-14	Chloromethane	10/3/2012	10/10/2012	7	14	OK
TW4-14	Methylene chloride	10/3/2012	10/10/2012	7	14	OK
TW4-14	Nitrate+Nitrite as N	10/3/2012	10/5/2012	2	28	OK
MW-26	Chloride	10/4/2012	10/9/2012	5	28	OK
MW-26	Carbon tetrachloride	10/4/2012	10/11/2012	7	14	OK
MW-26	Chloroform	10/4/2012	10/12/2012	8	14	OK
MW-26	Chloromethane	10/4/2012	10/11/2012	7	14	OK
MW-26	Methylene chloride	10/4/2012	10/11/2012	7	14	OK
MW-26	Nitrate+Nitrite as N	10/4/2012	10/5/2012	1	28	OK
TW4-16	Chloride	10/3/2012	10/8/2012	5	28	OK
TW4-16	Carbon tetrachloride	10/3/2012	10/10/2012	7	14	OK
TW4-16	Chloroform	10/3/2012	10/10/2012	7	14	OK
TW4-16	Chloromethane	10/3/2012	10/10/2012	7	14	OK
TW4-16	Methylene chloride	10/3/2012	10/10/2012	7	14	OK
TW4-16	Nitrate+Nitrite as N	10/3/2012	10/5/2012	2	28	OK
MW-32	Chloride	10/10/2012	10/16/2012	6	28	OK
MW-32	Carbon tetrachloride	10/10/2012	10/15/2012	5	14	OK
MW-32	Chloroform	10/10/2012	10/15/2012	5	14	OK
MW-32	Chloromethane	10/10/2012	10/15/2012	5	14	OK
MW-32	Methylene chloride	10/10/2012	10/15/2012	5	14	OK
MW-32	Nitrate+Nitrite as N	10/10/2012	10/15/2012	5	28	OK
TW4-18	Chloride	10/3/2012	10/9/2012	6	28	OK
TW4-18	Carbon tetrachloride	10/3/2012	10/10/2012	7	14	OK
TW4-18	Chloroform	10/3/2012	10/10/2012	7	14	OK
TW4-18	Chloromethane	10/3/2012	10/10/2012	7	14	OK
TW4-18	Methylene chloride	10/3/2012	10/10/2012	7	14	OK
TW4-18	Nitrate+Nitrite as N	10/3/2012	10/5/2012	2	28	OK
TW4-19	Chloride	10/3/2012	10/9/2012	6	28	OK
TW4-19	Carbon tetrachloride	10/3/2012	10/10/2012	7	14	OK
TW4-19	Chloroform	10/3/2012	10/12/2012	9	14	OK
TW4-19	Chloromethane	10/3/2012	10/10/2012	7	14	OK
TW4-19	Methylene chloride	10/3/2012	10/10/2012	7	14	OK
TW4-19	Nitrate+Nitrite as N	10/3/2012	10/5/2012	2	28	OK
TW4-20	Chloride	10/3/2012	10/9/2012	6	28	OK
TW4-20	Carbon tetrachloride	10/3/2012	10/10/2012	7	14	OK
TW4-20	Chloroform	10/3/2012	10/13/2012	10	14	OK
TW4-20	Chloromethane	10/3/2012	10/10/2012	7	14	OK
TW4-20	Methylene chloride	10/3/2012	10/10/2012	7	14	OK
TW4-20	Nitrate+Nitrite as N	10/3/2012	10/5/2012	2	28	OK
TW4-21	Chloride	10/4/2012	10/9/2012	5	28	OK
TW4-21	Carbon tetrachloride	10/4/2012	10/11/2012	7	14	OK
TW4-21	Chloroform	10/4/2012	10/12/2012	8	14	OK
TW4-21	Chloromethane	10/4/2012	10/11/2012	7	14	OK

I-2: Holding Time Evaluation

Location ID	Parameter Name	Date Sampled	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
TW4-21	Methylene chloride	10/4/2012	10/11/2012	7	14	OK
TW4-21	Nitrate+Nitrite as N	10/4/2012	10/5/2012	1	28	OK
TW4-21R	Chloride	10/3/2012	10/9/2012	6	28	OK
TW4-21R	Carbon tetrachloride	10/3/2012	10/10/2012	7	14	OK
TW4-21R	Chloroform	10/3/2012	10/10/2012	7	14	OK
TW4-21R	Chloromethane	10/3/2012	10/10/2012	7	14	OK
TW4-21R	Methylene chloride	10/3/2012	10/10/2012	7	14	OK
TW4-21R	Nitrate+Nitrite as N	10/3/2012	10/5/2012	2	28	OK
TW4-22	Chloride	10/4/2012	10/9/2012	5	28	OK
TW4-22	Carbon tetrachloride	10/4/2012	10/11/2012	7	14	OK
TW4-22	Chloroform	10/4/2012	10/12/2012	8	14	OK
TW4-22	Chloromethane	10/4/2012	10/11/2012	7	14	OK
TW4-22	Methylene chloride	10/4/2012	10/11/2012	7	14	OK
TW4-22	Nitrate+Nitrite as N	10/4/2012	10/5/2012	1	28	OK
TW4-23	Chloride	10/3/2012	10/8/2012	5	28	OK
TW4-23	Carbon tetrachloride	10/3/2012	10/10/2012	7	14	OK
TW4-23	Chloroform	10/3/2012	10/10/2012	7	14	OK
TW4-23	Chloromethane	10/3/2012	10/10/2012	7	14	OK
TW4-23	Methylene chloride	10/3/2012	10/10/2012	7	14	OK
TW4-23	Nitrate+Nitrite as N	10/3/2012	10/5/2012	2	28	OK
TW4-24	Chloride	10/3/2012	10/9/2012	6	28	OK
TW4-24	Carbon tetrachloride	10/3/2012	10/10/2012	7	14	OK
TW4-24	Chloroform	10/3/2012	10/10/2012	7	14	OK
TW4-24	Chloromethane	10/3/2012	10/10/2012	7	14	OK
TW4-24	Methylene chloride	10/3/2012	10/10/2012	7	14	OK
TW4-24	Nitrate+Nitrite as N	10/3/2012	10/5/2012	2	28	OK
TW4-25	Chloride	10/3/2012	10/8/2012	5	28	OK
TW4-25	Carbon tetrachloride	10/3/2012	10/10/2012	7	14	OK
TW4-25	Chloroform	10/3/2012	10/10/2012	7	14	OK
TW4-25	Chloromethane	10/3/2012	10/10/2012	7	14	OK
TW4-25	Methylene chloride	10/3/2012	10/10/2012	7	14	OK
TW4-25	Nitrate+Nitrite as N	10/3/2012	10/5/2012	2	28	OK
TW4-26	Chloride	10/3/2012	10/9/2012	6	28	OK
TW4-26	Carbon tetrachloride	10/3/2012	10/10/2012	7	14	OK
TW4-26	Chloroform	10/3/2012	10/10/2012	7	14	OK
TW4-26	Chloromethane	10/3/2012	10/10/2012	7	14	OK
TW4-26	Methylene chloride	10/3/2012	10/10/2012	7	14	OK
TW4-26	Nitrate+Nitrite as N	10/3/2012	10/5/2012	2	28	OK
TW4-27	Chloride	10/3/2012	10/8/2012	5	28	OK
TW4-27	Carbon tetrachloride	10/3/2012	10/10/2012	7	14	OK
TW4-27	Chloroform	10/3/2012	10/10/2012	7	14	OK
TW4-27	Chloromethane	10/3/2012	10/10/2012	7	14	OK
TW4-27	Methylene chloride	10/3/2012	10/10/2012	7	14	OK
TW4-27	Nitrate+Nitrite as N	10/3/2012	10/5/2012	2	28	OK
TW4-60	Chloride	10/4/2012	10/9/2012	5	28	OK
TW4-60	Carbon tetrachloride	10/4/2012	10/11/2012	7	14	OK
TW4-60	Chloroform	10/4/2012	10/11/2012	7	14	OK
TW4-60	Chloromethane	10/4/2012	10/11/2012	7	14	OK

I-2: Holding Time Evaluation

Location ID	Parameter Name	Date Sampled	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
TW4-60	Methylene chloride	10/4/2012	10/11/2012	7	14	OK
TW4-60	Nitrate+Nitrite as N	10/4/2012	10/5/2012	1	28	OK
TW4-65	Chloride	10/3/2012	10/9/2012	6	28	OK
TW4-65	Carbon tetrachloride	10/3/2012	10/11/2012	8	14	OK
TW4-65	Chloroform	10/3/2012	10/11/2012	8	14	OK
TW4-65	Chloromethane	10/3/2012	10/11/2012	8	14	OK
TW4-65	Methylene chloride	10/3/2012	10/11/2012	8	14	OK
TW4-65	Nitrate+Nitrite as N	10/3/2012	10/5/2012	2	28	OK
TW4-70	Chloride	10/4/2012	10/9/2012	5	28	OK
TW4-70	Carbon tetrachloride	10/4/2012	10/11/2012	7	14	OK
TW4-70	Chloroform	10/4/2012	10/12/2012	8	14	OK
TW4-70	Chloromethane	10/4/2012	10/11/2012	7	14	OK
TW4-70	Methylene chloride	10/4/2012	10/11/2012	7	14	OK
TW4-70	Nitrate+Nitrite as N	10/4/2012	10/5/2012	1	28	OK

Table I-3 Recipt Temperature Check

Sample Batch	Wells in Batch	Temperature
C12100263	MW-04, TW4-01, TW4-02, TW4-03, TW4-03R, TW4-04, TW4-05, TW4-06, TW4-07, TW4-08, TW4-09, TW4-10, TW4-11, TW4-12, TW4-13, TW4-14, MW-26, TW4-16, TW4-18, TW4-19, TW4-20, TW4-21, TW4-21R, TW4-22, TW4-23, TW4-24, TW4-25, TW$-26, TW4-27, Trip Blank	3.6 ˚C
C12100576	MW-32, Trip Blank	1.3 ˚C

I-4 Analytical Method Check

Parameter	Method	Method Used by Lab
Carbon Tetrachloride	SW8260B or SW8260C	SW8260B
Chloride	A4500-Cl B or A4500-Cl E or E300.0	E300.0
Chloroform	SW8260B or SW8260C	SW8260B
Chloromethane	SW8260B or SW8260C	SW8260B
Methylene chloride	SW8260B or SW8260C	SW8260B
Nitrogen	E353.1 or E353.2	E353.2

All parameters were analyzed using the reporting method specificied in the QAP

I-5 Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Required Reporting Limit	Units	RL Check
Trip Blank	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK
Trip Blank	Chloroform	1	ug/L	U	1	ug/L	OK
Trip Blank	Chloromethane	1	ug/L	U	1	ug/L	OK
Trip Blank	Methylene chloride	1	ug/L	U	1	ug/L	OK
Trip Blank	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK
Trip Blank	Chloroform	1	ug/L	U	1	ug/L	OK
Trip Blank	Chloromethane	1	ug/L	U	1	ug/L	OK
Trip Blank	Methylene chloride	1	ug/L	U	1	ug/L	OK
MW-04	Chloride	1	mg/L		1	mg/L	OK
MW-04	Carbon tetrachloride	1	ug/L		1	ug/L	OK
MW-04	Chloroform	100	ug/L	D	1	ug/L	OK
MW-04	Chloromethane	1	ug/L	U	1	ug/L	OK
MW-04	Methylene chloride	1	ug/L	U	1	ug/L	OK
MW-04	Nitrate+Nitrite as N	0.5	ug/L	D	0.1	ug/L	OK
TW4-01	Chloride	1	mg/L		1	mg/L	OK
TW4-01	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK
TW4-01	Chloroform	100	ug/L	D	1	ug/L	OK
TW4-01	Chloromethane	1	ug/L	U	1	ug/L	OK
TW4-01	Methylene chloride	1	ug/L	U	1	ug/L	OK
TW4-01	Nitrate+Nitrite as N	0.5	ug/L	D	0.1	ug/L	OK
TW4-02	Chloride	1	mg/L		1	mg/L	OK
TW4-02	Carbon tetrachloride	1	ug/L		1	ug/L	OK
TW4-02	Chloroform	100	ug/L	D	1	ug/L	OK
TW4-02	Chloromethane	1	ug/L	U	1	ug/L	OK
TW4-02	Methylene chloride	1	ug/L	U	1	ug/L	OK
TW4-02	Nitrate+Nitrite as N	0.5	ug/L	D	0.1	ug/L	OK
TW4-03	Chloride	1	mg/L		1	mg/L	OK
TW4-03	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK
TW4-03	Chloroform	1	ug/L	U	1	ug/L	OK
TW4-03	Chloromethane	1	ug/L	U	1	ug/L	OK
TW4-03	Methylene chloride	1	ug/L	U	1	ug/L	OK
TW4-03	Nitrate+Nitrite as N	0.5	ug/L	D	0.1	ug/L	OK
TW4-03R	Chloride	1	mg/L	U	1	mg/L	OK
TW4-03R	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK
TW4-03R	Chloroform	1	ug/L		1	ug/L	OK
TW4-03R	Chloromethane	1	ug/L	U	1	ug/L	OK
TW4-03R	Methylene chloride	1	ug/L	U	1	ug/L	OK
TW4-03R	Nitrate+Nitrite as N	0.1	ug/L	U	0.1	ug/L	OK
TW4-04	Chloride	1	mg/L		1	mg/L	OK
TW4-04	Carbon tetrachloride	1	ug/L		1	ug/L	OK
TW4-04	Chloroform	100	ug/L	D	1	ug/L	OK
TW4-04	Chloromethane	1	ug/L	U	1	ug/L	OK
TW4-04	Methylene chloride	1	ug/L	U	1	ug/L	OK
TW4-04	Nitrate+Nitrite as N	1	ug/L	D	0.1	ug/L	OK
TW4-05	Chloride	1	mg/L		1	mg/L	OK
TW4-05	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK
TW4-05	Chloroform	1	ug/L		1	ug/L	OK
TW4-05	Chloromethane	1	ug/L	U	1	ug/L	OK
TW4-05	Methylene chloride	1	ug/L	U	1	ug/L	OK
TW4-05	Nitrate+Nitrite as N	0.5	ug/L	D	0.1	ug/L	OK
TW4-06	Chloride	2	mg/L	D	1	mg/L	OK
TW4-06	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK
TW4-06	Chloroform	1	ug/L		1	ug/L	OK
TW4-06	Chloromethane	1	ug/L	U	1	ug/L	OK

I-5 Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Required Reporting Limit	Units	RL Check
TW4-06	Methylene chloride	1	ug/L	U	1	ug/L	OK
TW4-06	Nitrate+Nitrite as N	0.1	ug/L		0.1	ug/L	OK
TW4-07	Chloride	1	mg/L		1	mg/L	OK
TW4-07	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK
TW4-07	Chloroform	100	ug/L	D	1	ug/L	OK
TW4-07	Chloromethane	1	ug/L	U	1	ug/L	OK
TW4-07	Methylene chloride	1	ug/L	U	1	ug/L	OK
TW4-07	Nitrate+Nitrite as N	0.2	ug/L	D	0.1	ug/L	OK
TW4-08	Chloride	2	mg/L	D	1	mg/L	OK
TW4-08	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK
TW4-08	Chloroform	1	ug/L	U	1	ug/L	OK
TW4-08	Chloromethane	1	ug/L	U	1	ug/L	OK
TW4-08	Methylene chloride	1	ug/L	U	1	ug/L	OK
TW4-08	Nitrate+Nitrite as N	0.1	ug/L	U	0.1	ug/L	OK
TW4-09	Chloride	1	mg/L		1	mg/L	OK
TW4-09	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK
TW4-09	Chloroform	1	ug/L	U	1	ug/L	OK
TW4-09	Chloromethane	1	ug/L	U	1	ug/L	OK
TW4-09	Methylene chloride	1	ug/L	U	1	ug/L	OK
TW4-09	Nitrate+Nitrite as N	0.5	ug/L	D	0.1	ug/L	OK
TW4-10	Chloride	1	mg/L		1	mg/L	OK
TW4-10	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK
TW4-10	Chloroform	100	ug/L	D	1	ug/L	OK
TW4-10	Chloromethane	1	ug/L	U	1	ug/L	OK
TW4-10	Methylene chloride	1	ug/L	U	1	ug/L	OK
TW4-10	Nitrate+Nitrite as N	0.1	ug/L		0.1	ug/L	OK
TW4-11	Chloride	1	mg/L		1	mg/L	OK
TW4-11	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK
TW4-11	Chloroform	100	ug/L	D	1	ug/L	OK
TW4-11	Chloromethane	1	ug/L	U	1	ug/L	OK
TW4-11	Methylene chloride	1	ug/L	U	1	ug/L	OK
TW4-11	Nitrate+Nitrite as N	1	ug/L	D	0.1	ug/L	OK
TW4-12	Chloride	1	mg/L		1	mg/L	OK
TW4-12	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK
TW4-12	Chloroform	1	ug/L	U	1	ug/L	OK
TW4-12	Chloromethane	1	ug/L	U	1	ug/L	OK
TW4-12	Methylene chloride	1	ug/L	U	1	ug/L	OK
TW4-12	Nitrate+Nitrite as N	1	ug/L	D	0.1	ug/L	OK
TW4-13	Chloride	1	mg/L		1	mg/L	OK
TW4-13	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK
TW4-13	Chloroform	1	ug/L	U	1	ug/L	OK
TW4-13	Chloromethane	1	ug/L	U	1	ug/L	OK
TW4-13	Methylene chloride	1	ug/L	U	1	ug/L	OK
TW4-13	Nitrate+Nitrite as N	0.5	ug/L	D	0.1	ug/L	OK
TW4-14	Chloride	2	mg/L	D	1	mg/L	OK
TW4-14	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK
TW4-14	Chloroform	1	ug/L	U	1	ug/L	OK
TW4-14	Chloromethane	1	ug/L	U	1	ug/L	OK
TW4-14	Methylene chloride	1	ug/L	U	1	ug/L	OK
TW4-14	Nitrate+Nitrite as N	0.5	ug/L	D	0.1	ug/L	OK
MW-26	Chloride	2	mg/L	D	1	mg/L	OK
MW-26	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK
MW-26	Chloroform	100	ug/L	D	1	ug/L	OK
MW-26	Chloromethane	1	ug/L	U	1	ug/L	OK

I-5 Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Required Reporting Limit	Units	RL Check
MW-26	Methylene chloride	1	ug/L		1	ug/L	OK
MW-26	Nitrate+Nitrite as N	0.1	ug/L		0.1	ug/L	OK
TW4-16	Chloride	2	mg/L	D	1	mg/L	OK
TW4-16	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK
TW4-16	Chloroform	1	ug/L	U	1	ug/L	OK
TW4-16	Chloromethane	1	ug/L	U	1	ug/L	OK
TW4-16	Methylene chloride	1	ug/L		1	ug/L	OK
TW4-16	Nitrate+Nitrite as N	0.1	ug/L	U	0.1	ug/L	OK
MW-32	Chloride	2	mg/L	D	1	mg/L	OK
MW-32	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK
MW-32	Chloroform	1	ug/L	U	1	ug/L	OK
MW-32	Chloromethane	1	ug/L	U	1	ug/L	OK
MW-32	Methylene chloride	1	ug/L	U	1	ug/L	OK
MW-32	Nitrate+Nitrite as N	0.1	ug/L	U	0.1	ug/L	OK
TW4-18	Chloride	1	mg/L		1	mg/L	OK
TW4-18	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK
TW4-18	Chloroform	1	ug/L		1	ug/L	OK
TW4-18	Chloromethane	1	ug/L	U	1	ug/L	OK
TW4-18	Methylene chloride	1	ug/L	U	1	ug/L	OK
TW4-18	Nitrate+Nitrite as N	1	ug/L	D	0.1	ug/L	OK
TW4-19	Chloride	2	mg/L	D	1	mg/L	OK
TW4-19	Carbon tetrachloride	1	ug/L		1	ug/L	OK
TW4-19	Chloroform	100	ug/L	D	1	ug/L	OK
TW4-19	Chloromethane	1	ug/L	U	1	ug/L	OK
TW4-19	Methylene chloride	1	ug/L	U	1	ug/L	OK
TW4-19	Nitrate+Nitrite as N	0.5	ug/L	D	0.1	ug/L	OK
TW4-20	Chloride	4	mg/L	D	1	mg/L	OK
TW4-20	Carbon tetrachloride	1	ug/L		1	ug/L	OK
TW4-20	Chloroform	250	ug/L	D	1	ug/L	OK
TW4-20	Chloromethane	1	ug/L	U	1	ug/L	OK
TW4-20	Methylene chloride	1	ug/L	U	1	ug/L	OK
TW4-20	Nitrate+Nitrite as N	1	ug/L	D	0.1	ug/L	OK
TW4-21	Chloride	2	mg/L	D	1	mg/L	OK
TW4-21	Carbon tetrachloride	1	ug/L		1	ug/L	OK
TW4-21	Chloroform	100	ug/L	D	1	ug/L	OK
TW4-21	Chloromethane	1	ug/L	U	1	ug/L	OK
TW4-21	Methylene chloride	1	ug/L	U	1	ug/L	OK
TW4-21	Nitrate+Nitrite as N	1	ug/L	D	0.1	ug/L	OK
TW4-21R	Chloride	1	mg/L	U	1	mg/L	OK
TW4-21R	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK
TW4-21R	Chloroform	1	ug/L		1	ug/L	OK
TW4-21R	Chloromethane	1	ug/L	U	1	ug/L	OK
TW4-21R	Methylene chloride	1	ug/L	U	1	ug/L	OK
TW4-21R	Nitrate+Nitrite as N	0.1	ug/L	U	0.1	ug/L	OK
TW4-22	Chloride	1	mg/L		1	mg/L	OK
TW4-22	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK
TW4-22	Chloroform	100	ug/L	D	1	ug/L	OK
TW4-22	Chloromethane	1	ug/L	U	1	ug/L	OK
TW4-22	Methylene chloride	1	ug/L	U	1	ug/L	OK
TW4-22	Nitrate+Nitrite as N	1	ug/L	D	0.1	ug/L	OK
TW4-23	Chloride	2	mg/L	D	1	mg/L	OK
TW4-23	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK
TW4-23	Chloroform	1	ug/L	U	1	ug/L	OK
TW4-23	Chloromethane	1	ug/L	U	1	ug/L	OK

I-5 Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Required Reporting Limit	Units	RL Check
TW4-23	Methylene chloride	1	ug/L	U	1	ug/L	OK
TW4-23	Nitrate+Nitrite as N	0.1	ug/L	U	0.1	ug/L	OK
TW4-24	Chloride	4	mg/L	D	1	mg/L	OK
TW4-24	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK
TW4-24	Chloroform	1	ug/L		1	ug/L	OK
TW4-24	Chloromethane	1	ug/L	U	1	ug/L	OK
TW4-24	Methylene chloride	1	ug/L	U	1	ug/L	OK
TW4-24	Nitrate+Nitrite as N	1	ug/L	D	0.1	ug/L	OK
TW4-25	Chloride	2	mg/L	D	1	mg/L	OK
TW4-25	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK
TW4-25	Chloroform	1	ug/L	U	1	ug/L	OK
TW4-25	Chloromethane	1	ug/L	U	1	ug/L	OK
TW4-25	Methylene chloride	1	ug/L	U	1	ug/L	OK
TW4-25	Nitrate+Nitrite as N	1	ug/L	D	0.1	ug/L	OK
TW4-26	Chloride	4	mg/L	D	1	mg/L	OK
TW4-26	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK
TW4-26	Chloroform	1	ug/L		1	ug/L	OK
TW4-26	Chloromethane	1	ug/L	U	1	ug/L	OK
TW4-26	Methylene chloride	1	ug/L	U	1	ug/L	OK
TW4-26	Nitrate+Nitrite as N	1	ug/L	D	0.1	ug/L	OK
TW4-27	Chloride	4	mg/L	D	1	mg/L	OK
TW4-27	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK
TW4-27	Chloroform	1	ug/L	U	1	ug/L	OK
TW4-27	Chloromethane	1	ug/L	U	1	ug/L	OK
TW4-27	Methylene chloride	1	ug/L	U	1	ug/L	OK
TW4-27	Nitrate+Nitrite as N	2	ug/L	D	0.1	ug/L	OK
TW4-60	Chloride	1	mg/L	U	1	mg/L	OK
TW4-60	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK
TW4-60	Chloroform	1	ug/L		1	ug/L	OK
TW4-60	Chloromethane	1	ug/L	U	1	ug/L	OK
TW4-60	Methylene chloride	1	ug/L	U	1	ug/L	OK
TW4-60	Nitrate+Nitrite as N	0.1	ug/L	U	0.1	ug/L	OK
TW4-65	Chloride	1	mg/L		1	mg/L	OK
TW4-65	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK
TW4-65	Chloroform	1	ug/L	U	1	ug/L	OK
TW4-65	Chloromethane	1	ug/L	U	1	ug/L	OK
TW4-65	Methylene chloride	1	ug/L	U	1	ug/L	OK
TW4-65	Nitrate+Nitrite as N	0.5	ug/L	D	0.1	ug/L	OK
TW4-70	Chloride	1	mg/L		1	mg/L	OK
TW4-70	Carbon tetrachloride	1	ug/L		1	ug/L	OK
TW4-70	Chloroform	100	ug/L	D	1	ug/L	OK
TW4-70	Chloromethane	1	ug/L	U	1	ug/L	OK
TW4-70	Methylene chloride	1	ug/L	U	1	ug/L	OK
TW4-70	Nitrate+Nitrite as N	1	ug/L	D	0.1	ug/L	OK

I-7 QA/QC Evaluation for Sample Duplicates

Constituent	TW4-09	TW4-65	%RPD
Chloride (mg/L)	21	21	0
Nitrate + Nitrite (as N)	3.8	4	5
Carbon Tetrachloride	ND	ND	NC
Chloroform	ND	ND	NC
Chloromethane	ND	ND	NC
Dichloromethane (Methylene Chloride)	ND	ND	NC

Constituent	TW4-21	TW4-70	%RPD
Chloride (mg/L)	270	249	8.09
Nitrate + Nitrite (as N)	14	14	0.00
Carbon Tetrachloride	7	8	13.33
Chloroform	390	430	9.76
Chloromethane	ND	ND	NC
Dichloromethane (Methylene Chloride)	ND	ND	NC

Per section 9.1.4 a) of the QAP sample duplicates will be considered noncompliant only when the results are greater than 5 times the required reporting limit and the RPD is greater than 20%. The sample/duplicate results are not greater than 5 times the reporting limit and as such are considered acceptable.

I-8 QC Control Limits for Analysis and Blanks

Method Blank Detections

All Method Blanks for the fourth quarter of 2012 were non-detect.

Matrix Spike % Recovery Comparison

Lab Report	Lab Sample ID	Well	Analyte	MS %REC	MSD %REC	REC Range	RPD
C12100263	C12100263-011AMS	TW4-25	Chloride	131	95	90 - 110	8.0

Laboratory Control Sample

All Laboratory Control Samples were within acceptance limits for the fourth quarter 2012.

Surrogate % Recovery

Lab Report	Well/Sample	Analyte	Surrogate %REC	Lab Specified REC Range	QAP Required Range
C12100263	TW4-20	Dibromofluoromethane	131	70-130	None

I-9 Rinsate Evaluation

Rinsate Sample	Parameter	Rinsate Result		Previous Well Sampled	Result for Previous Well Sampled		Qualifier	Rinsate Reporting Limit		Result for Sample Analyzed Immediately Before the Rinsate or DI Blank	
TW4-03R	Chloroform	2.0	ug/L	N/A	N/A	ug/L	N/A	1	ug/L	Unknown	ug/L
TW4-21R	Chloroform	16.0	ug/L	TW4-19	1500	ug/L	D	1	ug/L	TW4-04 - 1400	ug/L
TW4-60	Chloroform	2.0	ug/L	DI System Blank - no associated samples	NR	ug/L	NR	1	ug/L	MW-26 - 1200	ug/L

N/A = This was the rinsate collected at the beginning of the sampling event, prior to the first use of the pump for purging.

NR = The DI blank is colected directly rom the DI system outlet and is not associated with any samples.

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.

I-9 Rinsate Evaluation

Rinsate Sample	Parameter	Rinsate Result		Previous Well Sampled	Result for Previous Well Sampled		Qualifier	Rinsate Reporting Limit		Analyzed Immediately Before the Rinsate or DI Blank	
TW4-03R	Chloroform	2.0	ug/L	N/A	N/A		N/A	1	ug/L	Unknown	
TW4-21R	Chloroform	16.0	ug/L	TW4-19	1500	ug/L	D	1	ug/L	TW4-04 - 1400	ug/L
TW4-60	Chloroform	2.0	ug/L	DI System Blank - no associated samples	NR		NR	1	ug/L	MW-26 - 1200	ug/L

N/A = This was the rinsate collected at the beginning of the sampling event, prior to the first use of the pump for purging.

NR = The DI blank is colected directly rom the DI system outlet and is not associated with any samples.

Previous well sampled is the well that the pump was used to purge prior to the rinsate sample.

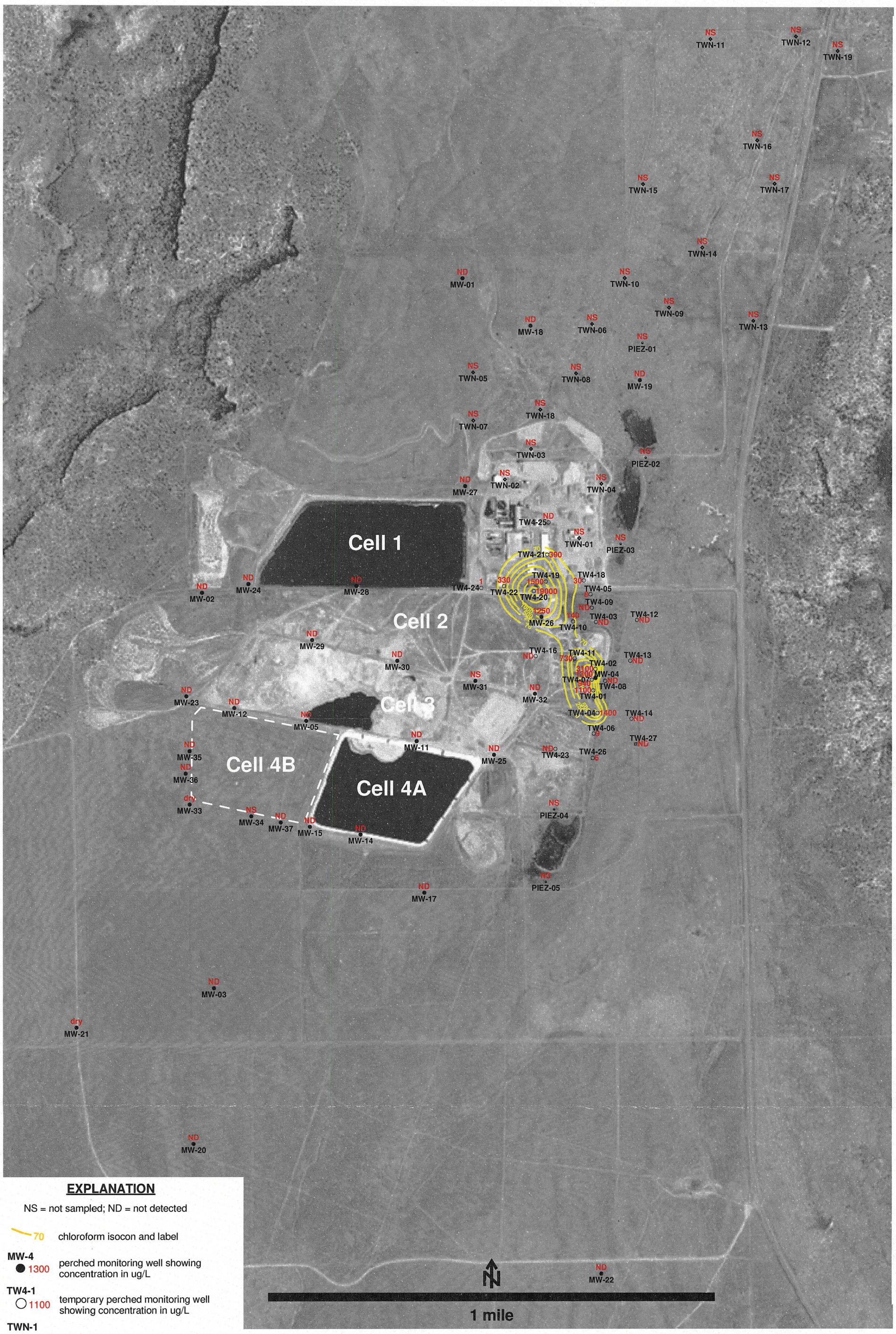
D = Reporting limit raised due to dilution/sample matrix.

** Only rinsates with detections are listed. A total of two rinsates were collected for this sampling event.

TW4-18R results were ND

Tab J

Kriged Current Quarter Chloroform Isoconcentration Map



EXPLANATION

NS = not sampled; ND = not detected

- 70 — chloroform isocon and label
- MW-4 ● 1300 — perched monitoring well showing concentration in ug/L
- TW4-1 ○ 1100 — temporary perched monitoring well showing concentration in ug/L
- TWN-1 ◇ NS — temporary perched nitrate monitoring well (not sampled)
- PIEZ-1 ◒ NS — perched piezometer (not sampled)
- TW4-27 ☼ ND — temporary perched monitoring well installed October, 2011 showing concentration in ug/L

HYDRO GEO CHEM, INC.

KRIGED 4th QUARTER, 2012 CHLOROFORM (ug/L) WHITE MESA SITE

APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/feb13/Uchl1212.srf	J-1

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
11-Oct-10	1500	1.4	ND	ND	4.9	41
23-Feb-11	1700	1.5	ND	ND	4.6	40
1-Jun-11	1700	1.4	ND	ND	4.9	35
17-Aug-11	1700	1.1	ND	ND	4.9	41
16-Nov-11	1600	1.3	ND	ND	5.1	40
23-Jan-12	1500	1	ND	ND	4.8	41
6-Jun-12	1400	1.2	ND	ND	4.9	39
4-Sep-12	1500	1.5	ND	ND	5	41
4-Oct-12	1300	1	ND	ND	4.8	42

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
14-Oct-10	1500	<1	<1	<1	6.6	40
24-Feb-11	1300	ND	ND	ND	6.6	41
1-Jun-11	1200	ND	ND	ND	7	35
18-Aug-11	1300	ND	ND	ND	6.8	36
29-Nov-11	1300	ND	ND	ND	6.6	37
19-Jan-12	1300	ND	ND	ND	6.8	38
14-Jun-12	1000	ND	ND	ND	7.1	42
13-Sep-12	1000	ND	ND	ND	5	39
4-Oct-12	1100	ND	ND	ND	6.5	40

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
14-Oct-10	3000	2.1	<1	<1	6.5	41
24-Feb-11	3100	2.4	ND	ND	7	46
2-Jun-11	3000	2.2	ND	ND	6.8	42
17-Aug-11	2400	1.6	ND	ND	6	48
29-Nov-11	3900	2.8	ND	ND	7	49
24-Jan-12	2500	2	ND	ND	7.1	49
14-Jun-12	2500	2.1	ND	ND	7.7	52
13-Sep-12	2900	1.8	ND	ND	4	76
4-Oct-12	3100	2	ND	ND	7.6	49

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
5-Oct-10	<1	<1	<1	<1	3.3	26
15-Feb-11	ND	ND	ND	ND	3.5	23
25-May-11	ND	ND	ND	ND	3.7	23
16-Aug-11	ND	ND	ND	ND	4	23
15-Nov-11	ND	ND	ND	ND	4.4	23
17-Jan-12	ND	ND	ND	ND	4.3	21
31-May-12	ND	ND	ND	ND	4.4	24
29-Aug-12	ND	ND	ND	ND	4.9	25
3-Oct-12	ND	ND	ND	ND	4.8	25

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
11-Oct-10	1700	1.3	<1	<1	7.1	38
23-Feb-11	1800	1.4	ND	ND	7	41
1-Jun-11	1700	1.2	ND	ND	7	35
17-Aug-11	1500	ND	ND	ND	6.6	40
16-Nov-11	1500	1	ND	ND	7	39
23-Jan-12	1200	ND	ND	ND	7.1	38
6-Jun-12	1500	ND	ND	ND	7.1	43
4-Sep-12	1600	1.2	ND	ND	7.1	39
3-Oct-12	1400	1	ND	ND	7	38

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
13-Oct-10	11.0	<1	<1	<1	7.2	41
22-Feb-11	10.0	ND	ND	ND	7	34
26-May-11	9.0	ND	ND	ND	7.2	35
17-Aug-11	10.0	ND	ND	ND	7.5	37
7-Dec-11	7.9	ND	ND	ND	6	30
18-Jan-12	7.6	ND	ND	ND	5.8	22
6-Jun-12	8.4	ND	ND	ND	8	39
11-Sep-12	12.0	ND	ND	ND	8.1	37
3-Oct-12	8.0	ND	ND	ND	7.7	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
13-Oct-10	420	<1	<1	<1	4.3	41
23-Feb-11	47	ND	ND	ND	0.7	40

TW4-6	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
26-May-11	10	ND	ND	ND	0.3	42
17-Aug-11	16	ND	ND	ND	0.3	39
7-Dec-11	21	ND	ND	ND	0.8	36
18-Jan-12	38	ND	ND	ND	0.7	38
13-Jun-12	4.7	ND	ND	ND	0.2	40
11-Sep-12	6.9	ND	ND	ND	0.1	21
3-Oct-12	9.0	ND	ND	ND	0.2	41

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
13-Oct-10	1100	1.1	<1	<1	4	38
23-Feb-11	1300	ND	ND	ND	3.6	45
1-Jun-11	1200	ND	ND	ND	4	35
18-Aug-11	1200	ND	ND	ND	4.1	37
29-Nov-11	1000	ND	ND	ND	3.8	37
19-Jan-12	1000	ND	ND	ND	3.9	37
14-Jun-12	790	ND	ND	ND	4	41
13-Sep-12	870	ND	ND	ND	3.8	40
4-Oct-12	940	ND	ND	ND	3.8	41

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
5-Oct-10	<1	<1	<1	<1	<0.1	46
16-Feb-11	ND	ND	ND	ND	ND	52
25-May-11	ND	ND	ND	ND	0.1	45
16-Aug-11	ND	ND	ND	ND	0.1	46
7-Dec-11	ND	ND	ND	ND	0.2	45
18-Jan-12	ND	ND	ND	ND	0.3	45
31-May-12	ND	ND	ND	ND	0.2	44
29-Aug-12	ND	ND	ND	ND	0.1	48
3-Oct-12	ND	ND	ND	ND	ND	47

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
6-Oct-10	<1	<1	<1	<1	1.8	34
17-Feb-11	ND	ND	ND	ND	1.3	41
25-May-11	ND	ND	ND	ND	3.4	38
16-Aug-11	ND	ND	ND	ND	4	21
7-Dec-11	ND	ND	ND	ND	2.3	38
18-Jan-12	ND	ND	ND	ND	2.3	28
31-May-12	ND	ND	ND	ND	4	23
30-Aug-12	ND	ND	ND	ND	3.9	22
3-Oct-12	ND	ND	ND	ND	3.8	21

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
13-Oct-10	1100	<1	<1	<1	11	52
23-Feb-11	620	ND	ND	ND	9	62
1-Jun-11	280	ND	ND	ND	3.3	42

TW4-10	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
17-Aug-11	180	ND	ND	ND	1.9	41
16-Nov-11	110	ND	ND	ND	1.1	45
19-Jan-12	76	ND	ND	ND	0.9	40
13-Jun-12	79	ND	ND	ND	0.8	46
12-Sep-12	130	ND	ND	ND	1.0	44
3-Oct-12	140	ND	ND	ND	1.6	45

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
13-Oct-10	720	<1	<1	<1	6.4	49
23-Feb-11	1000	ND	ND	ND	6.5	46
1-Jun-11	930	ND	ND	ND	7.3	49

TW4-11	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
17-Aug-11	820	ND	ND	ND	7.1	48
16-Nov-11	1500	ND	ND	ND	7.1	46
24-Jan-12	610	ND	ND	ND	6.8	43
13-Jun-12	660	ND	ND	ND	6.7	52
13-Sep-12	740	ND	ND	ND	3	49
4-Oct-12	730	ND	ND	ND	7	50

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
5-Oct-10	<1	<1	<1	<1	8	31
15-Feb-11	ND	ND	ND	ND	6.5	31
25-May-11	ND	ND	ND	ND	7	32
16-Aug-11	ND	ND	ND	ND	6.8	31
15-Nov-11	ND	ND	ND	ND	8	30
17-Jan-12	ND	ND	ND	ND	7.7	28

TW4-12	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
31-May-12	ND	ND	ND	ND	10	34
29-Aug-12	ND	ND	ND	ND	13	39
3-Oct-12	ND	ND	ND	ND	13	39

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
5-Oct-10	<1	<1	<1	<1	5.8	55
15-Feb-11	ND	ND	ND	ND	5.5	60
25-May-11	ND	ND	ND	ND	5.4	56
16-Aug-11	ND	ND	ND	ND	5.2	60
15-Nov-11	ND	ND	ND	ND	5.9	54
17-Jan-12	ND	ND	ND	ND	5.5	55
31-May-12	ND	ND	ND	ND	6	59
29-Aug-12	ND	ND	ND	ND	6.2	60
3-Oct-12	ND	ND	ND	ND	5.9	60

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
6-Oct-10	<1	<1	<1	<1	2.9	29
15-Feb-11	ND	ND	ND	ND	1.8	25
16-Aug-11	ND	ND	ND	ND	2.6	33
15-Nov-11	ND	ND	ND	ND	1.7	15
17-Jan-12	ND	ND	ND	ND	1.9	20
31-May-12	ND	ND	ND	ND	3.3	35
29-Aug-12	ND	ND	ND	ND	3.9	37
3-Oct-12	ND	ND	ND	ND	4.2	37

MW-26	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
11-Oct-10	970	<1	<1	6.5	0.7	65
23-Feb-11	450	ND	ND	3.6	0.5	57

MW-26	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
31-May-11	1800	ND	ND	1.3	0.4	88
17-Aug-11	720	ND	ND	7.2	0.9	58
5-Dec-11	1800	ND	ND	2.9	2	69
7-Feb-12	2400	ND	ND	16	1.7	98
6-Jun-12	3000	ND	ND	21	2.5	73
4-Sep-12	3100	ND	ND	31	2.6	73
4-Oct-12	1200	ND	ND	4	1.8	68

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
6-Oct-10	3.0	<1	<1	<1	3.3	72
22-Feb-11	15.0	ND	ND	ND	7	86
26-May-11	16.0	ND	ND	ND	5	81
17-Aug-11	9.2	ND	ND	ND	1.7	63
16-Nov-11	ND	ND	ND	1.4	0.4	38
18-Jan-12	ND	ND	ND	1.7	0.1	48

TW4-16	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
31-May-12	ND	ND	ND	ND	ND	53
30-Aug-12	ND	ND	ND	ND	ND	59
3-Oct-12	ND	ND	ND	3	ND	53

MW-32	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
6-Oct-10	<1	<1	<1	<1	<0.1	24
23-Feb-11	ND	ND	ND	ND	ND	40
25-May-11	ND	ND	ND	ND	ND	31
16-Aug-11	ND	ND	ND	ND	ND	33
6-Dec-11	ND	ND	ND	ND	ND	32

MW-32	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
18-Jan-12	ND	ND	ND	ND	ND	21
4-Jun-12	ND	ND	ND	ND	ND	32
5-Sep-12	ND	ND	ND	ND	ND	33
10-Oct-12	ND	ND	ND	ND	ND	35

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
13-Oct-10	30.0	<1	<1	<1	10	50
22-Feb-11	39.0	ND	ND	ND	10	52
26-May-11	26.0	ND	ND	ND	9	36
17-Aug-11	29.0	ND	ND	ND	4.6	23
7-Dec-11	28.0	ND	ND	ND	6.3	23
19-Jan-12	25.0	ND	ND	ND	4.4	18

TW4-18	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
13-Jun-12	24.0	ND	ND	ND	6.6	30
11-Sep-12	38.0	ND	ND	ND	6.6	26
3-Oct-12	30.0	ND	ND	ND	6	27

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
16-Aug-10	2000	4.9	<1	<1	5.9	142

TW4-19	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
11-Oct-10	1200	1.3	<1	<1	2.7	146
17-Feb-11	3400	17	ND	ND	17	135
7-Jun-11	4000	8.3	ND	ND	12	148
17-Aug-11	970	2.1	ND	ND	3	148
5-Dec-11	2200	5.4	ND	ND	5	148
23-Jan-12	650	1.5	ND	ND	0.6	138
6-Jun-12	460	1.1	ND	ND	2.4	149
5-Sep-12	950	3.5	ND	ND	2.5	149
3-Oct-12	1500	4	ND	ND	4.1	150

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
11-Oct-10	24000	20	<1	5.5	4.6	203
23-Feb-11	31000	27	ND	19	4.4	220
1-Jun-11	8100	10	ND	2.1	4.8	177
17-Aug-11	6800	7.3	ND	3.1	6.5	207
16-Nov-11	7900	7.2	ND	2.5	4.2	186
23-Jan-12	11000	10	ND	1.3	7.9	207
6-Jun-12	36000	33	ND	ND	11	262
4-Sep-12	13000	26	ND	ND	10.8	289
3-Oct-12	19000	22	ND	ND	11	302

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
13-Oct-10	200	1.2	<1	<1	7	210
22-Feb-11	230	1.2	ND	ND	9	303
28-Jun-11	290	4.8	ND	ND	12	290
17-Aug-11	460	6.3	ND	ND	14	287
7-Dec-11	390	6.7	ND	ND	13	276
19-Jan-12	420	6.4	ND	ND	15	228
13-Jun-12	400	5.4	ND	ND	11	285
13-Sep-12	410	6	ND	ND	13	142
4-Oct-12	390	7	ND	ND	14	270

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
13-Oct-10	340	<1	<1	<1	16	134
23-Feb-11	1300	ND	ND	ND	18	114
1-Jun-11	210	ND	ND	ND	17	138
17-Aug-11	450	ND	ND	ND	15	120
7-Dec-11	400	ND	ND	ND	19	174
19-Jan-12	200	ND	ND	ND	14	36
13-Jun-12	120	ND	ND	ND	12.8	35
12-Sep-12	940	ND	ND	ND	7	121
4-Oct-12	330	ND	ND	ND	14	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
5-Oct-10	<1	<1	<1	<1	<0.1	34
16-Feb-11	ND	ND	ND	ND	ND	44
25-May-11	ND	ND	ND	ND	ND	44
16-Aug-11	ND	ND	ND	ND	ND	41
15-Nov-11	ND	ND	ND	ND	ND	43
17-Jan-12	ND	ND	ND	ND	ND	40
31-May-12	ND	ND	ND	ND	ND	44
29-Aug-12	ND	ND	ND	ND	ND	46
3-Oct-12	ND	ND	ND	ND	ND	45

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
6-Oct-10	1.4	<1	<1	<1	31	522
17-Feb-11	1.8	ND	ND	ND	31	1100
26-May-11	1.1	ND	ND	ND	35	1110
17-Aug-11	1.7	ND	ND	ND	34	967
7-Dec-11	1.2	ND	ND	ND	35	608
18-Jan-12	ND	ND	ND	ND	37	373
6-Jun-12	ND	ND	ND	ND	37	355
30-Aug-12	1.1	ND	ND	ND	37	489
3-Oct-12	1.0	ND	ND	ND	38	405

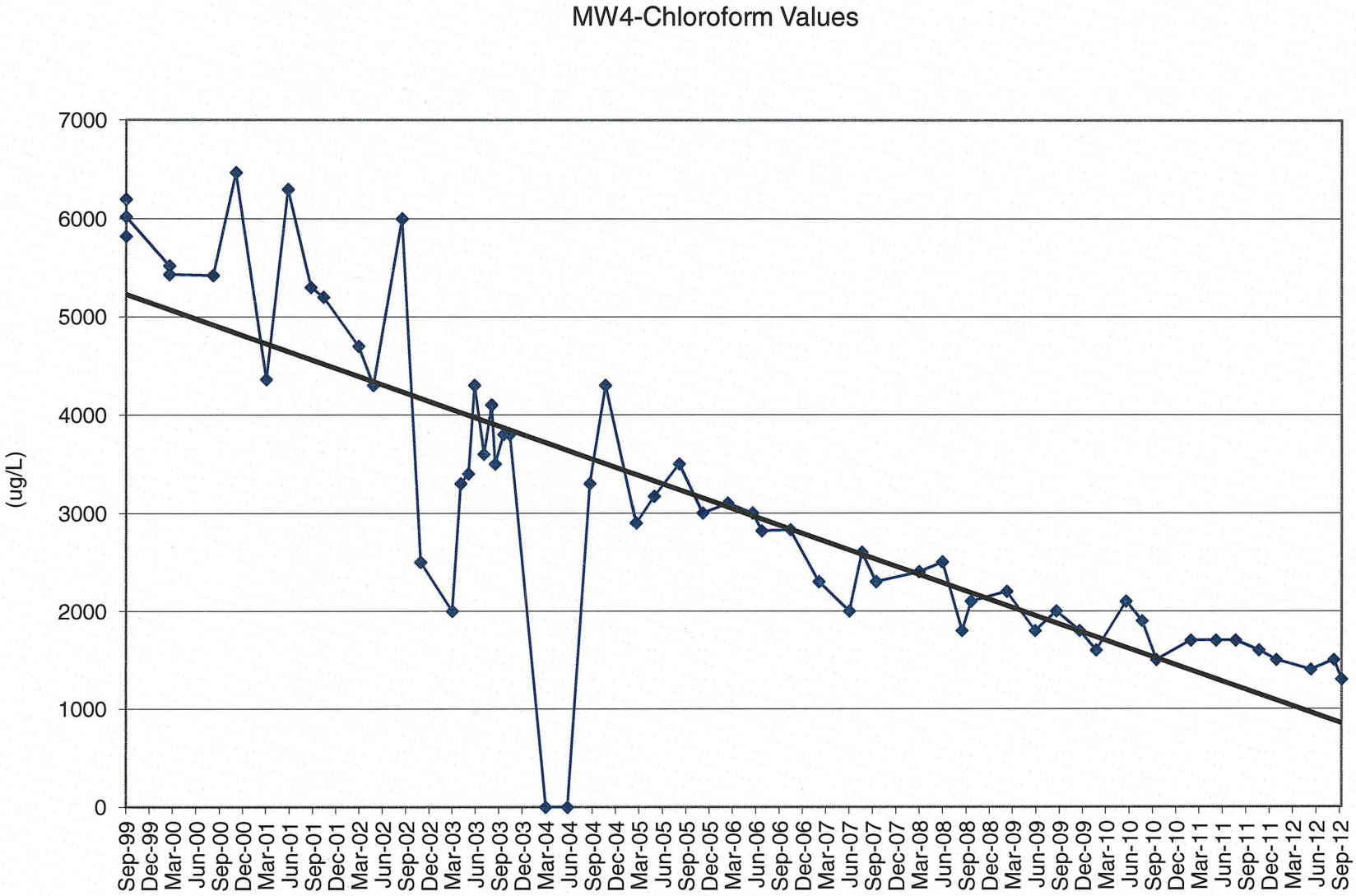
TW4-25	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
27-Jun-07	<1	<1	<1	<1	17.1	395
15-Aug-07	<1	<1	<1	<1	16.7	382
10-Oct-07	<1	<1	<1	<1	17	356
26-Mar-08	<1	<1	<1	<1	18.7	374
25-Jun-08	<1	<1	<1	<1	22.1	344
10-Sep-08	<1	<1	<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
5-Oct-10	<1	<1	<1	<1	15	312
16-Feb-11	ND	ND	ND	ND	15	315
25-May-11	ND	ND	ND	ND	16	321
16-Aug-11	ND	ND	ND	ND	16	276
15-Nov-11	ND	ND	ND	ND	16	294
18-Jan-12	ND	ND	ND	ND	16	304
31-May-12	ND	ND	ND	ND	16	287
11-Sep-12	ND	ND	ND	ND	17	334
3-Oct-12	ND	ND	ND	ND	17	338

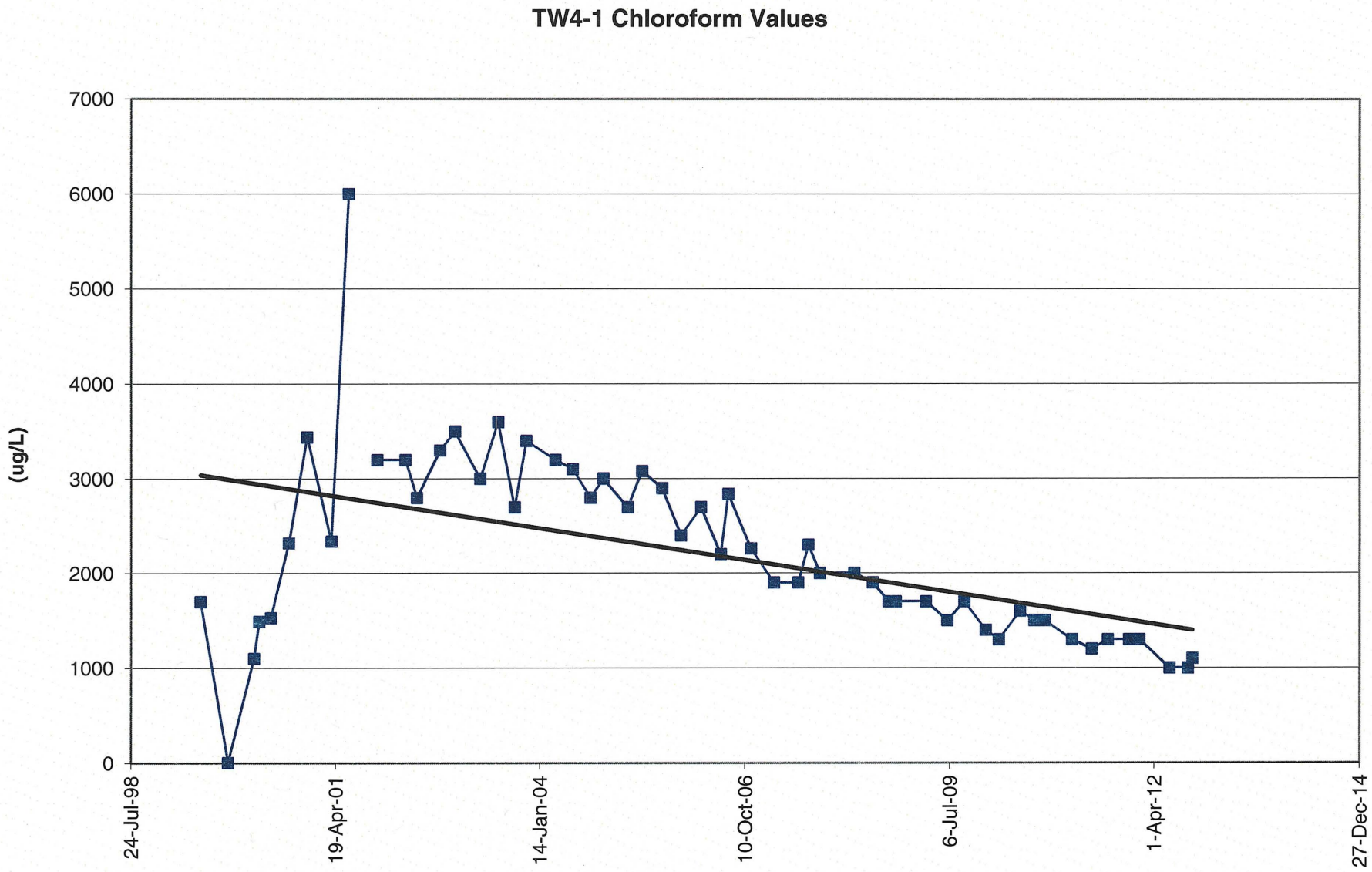
TW4-26	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
15-Jun-10	13	<1	<1	<1	7.9	33
11-Aug-10	5	<1	<1	<1	9	17
6-Oct-10	5.4	<1	<1	<1	9.6	22
22-Feb-11	2.0	ND	ND	ND	10	30
26-May-11	2.9	ND	ND	ND	10	15
17-Aug-11	2.8	ND	ND	ND	11	19
7-Dec-11	5.2	ND	ND	ND	10	26
18-Jan-12	7.0	ND	ND	ND	11	17
6-Jun-12	4.1	ND	ND	ND	12	19
11-Sep-12	4.9	ND	ND	ND	9	19
3-Oct-12	6.0	ND	ND	ND	12	19

TW4-27	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
24-Jan-12	9	ND	ND	ND	24	11
13-Jun-12	ND	ND	ND	ND	41	17
30-Aug-12	ND	ND	ND	ND	37	21
3-Oct-12	ND	ND	ND	ND	36	18

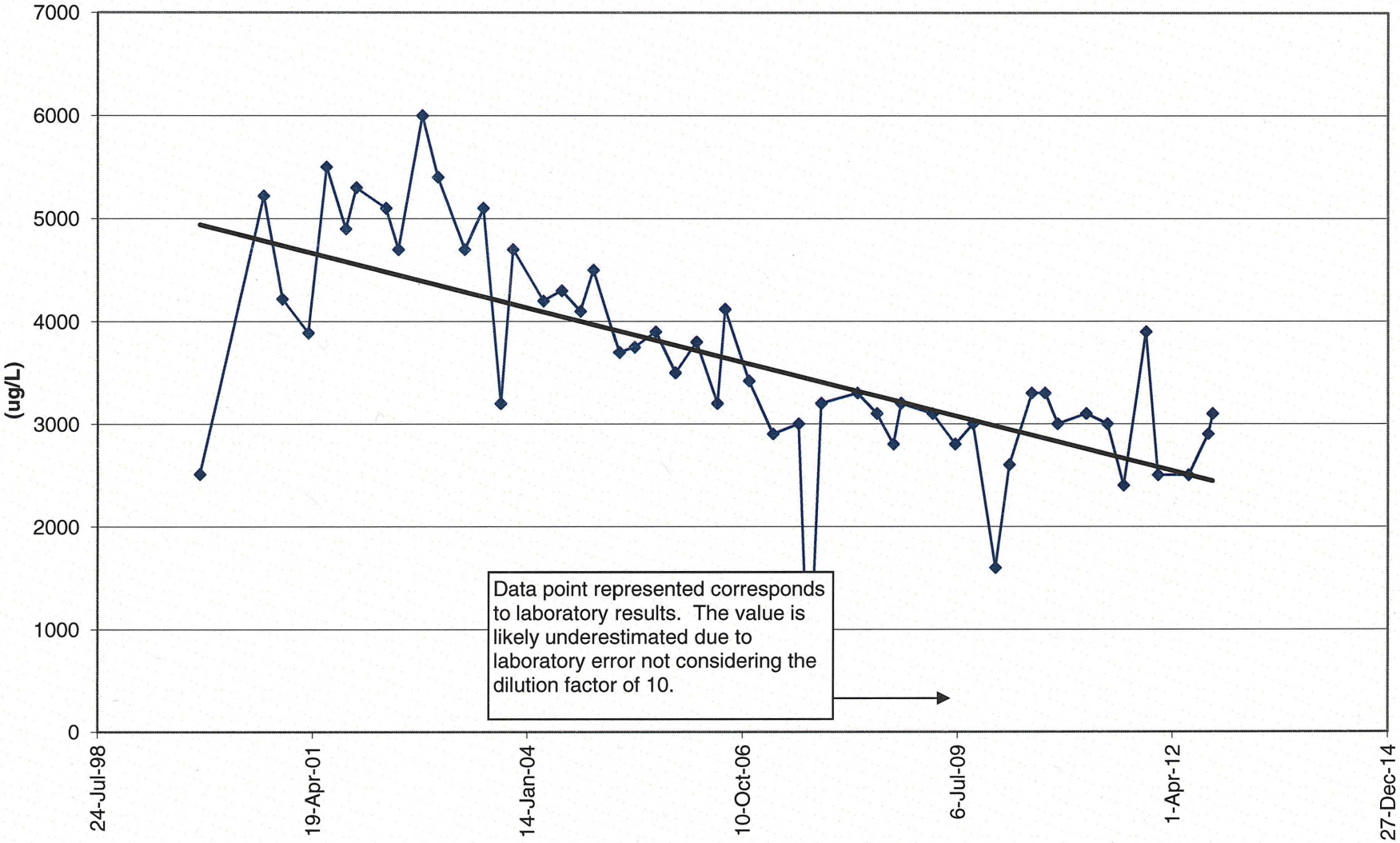
Tab L

Chloroform Concentration Trend Graphs

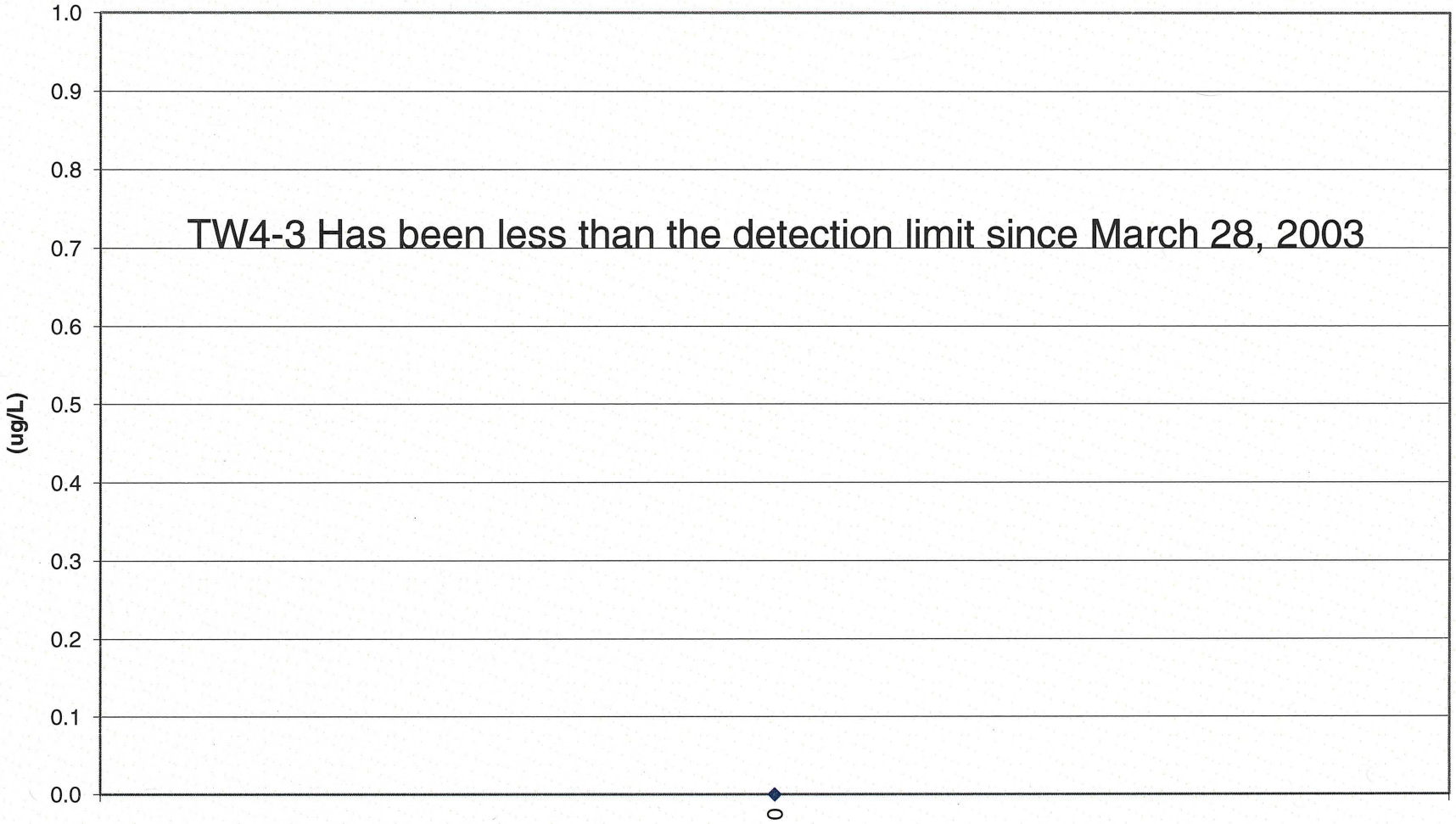

MW4-Chloroform Values
(ug/L)
7000
6000
5000
4000
3000
2000
1000
0
Sep-99
Dec-99
Mar-00
Jun-00
Sep-00
Dec-00
Mar-01
Jun-01
Sep-01
Dec-01
Mar-02
Jun-02
Sep-02
Dec-02
Mar-03
Jun-03
Sep-03
Dec-03
Mar-04
Jun-04
Sep-04
Dec-04
Mar-05
Jun-05
Sep-05
Dec-05
Mar-06
Jun-06
Sep-06
Dec-06
Mar-07
Jun-07
Sep-07
Dec-07
Mar-08
Jun-08
Sep-08
Dec-08
Mar-09
Jun-09
Sep-09
Dec-09
Mar-10
Jun-10
Sep-10
Dec-10
Mar-11
Jun-11
Sep-11
Dec-11
Mar-12
Jun-12
Sep-12


TW4-1 Chloroform Values
(ug/L)
7000
6000
5000
4000
3000
2000
1000
0
24-Jul-98
19-Apr-01
14-Jan-04
10-Oct-06
6-Jul-09
1-Apr-12
27-Dec-14

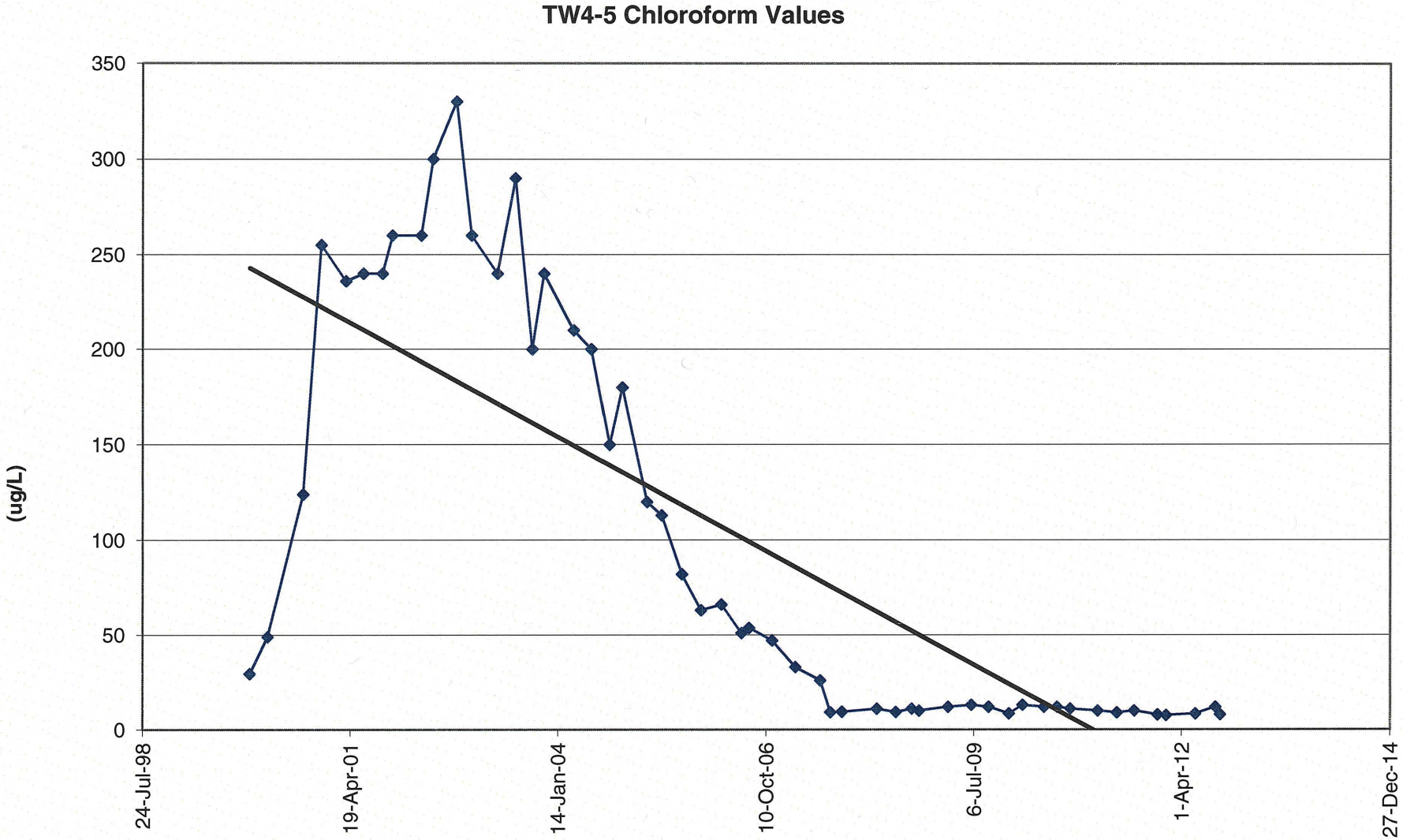
TW4-2 Chloroform Values

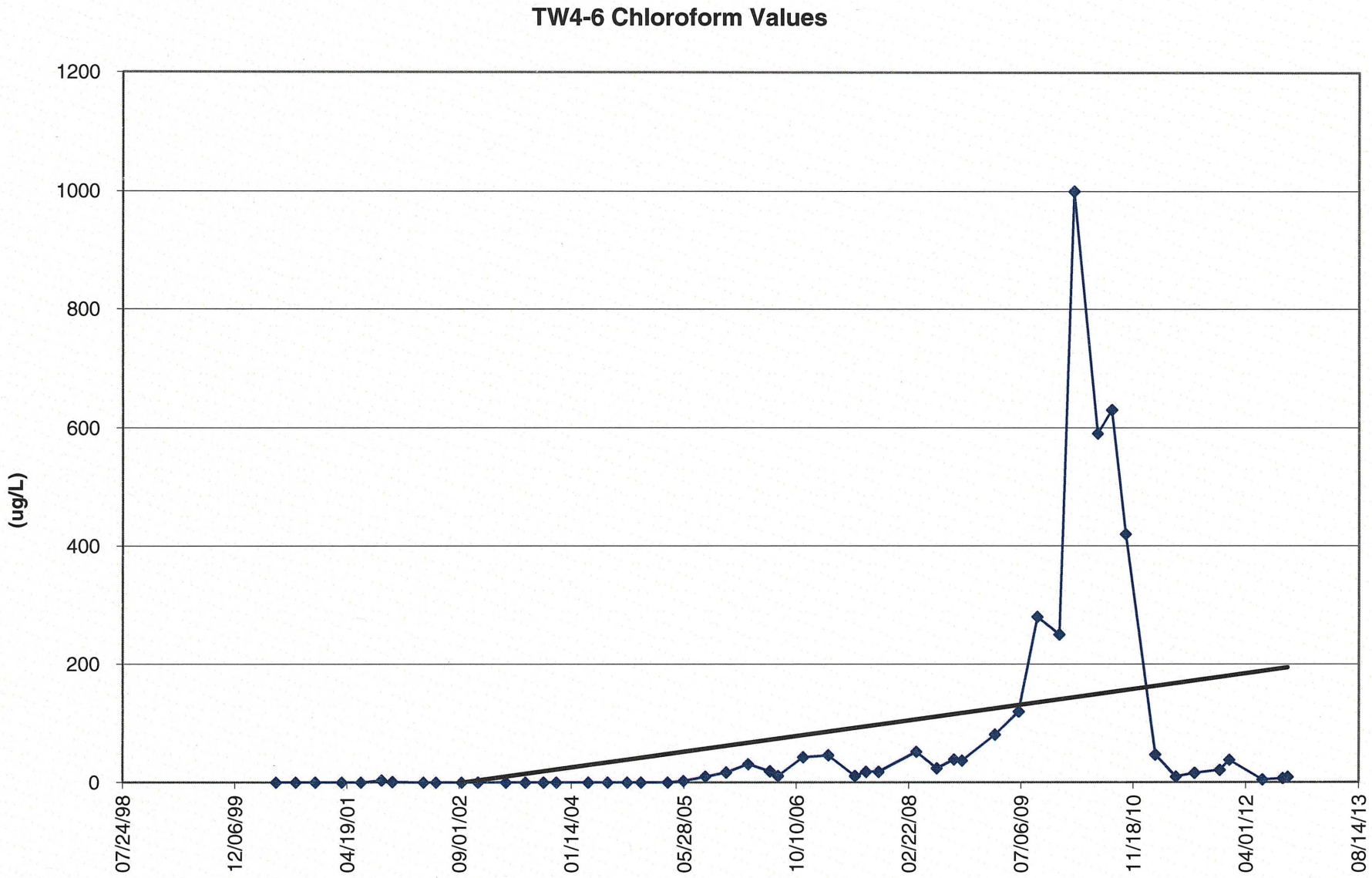


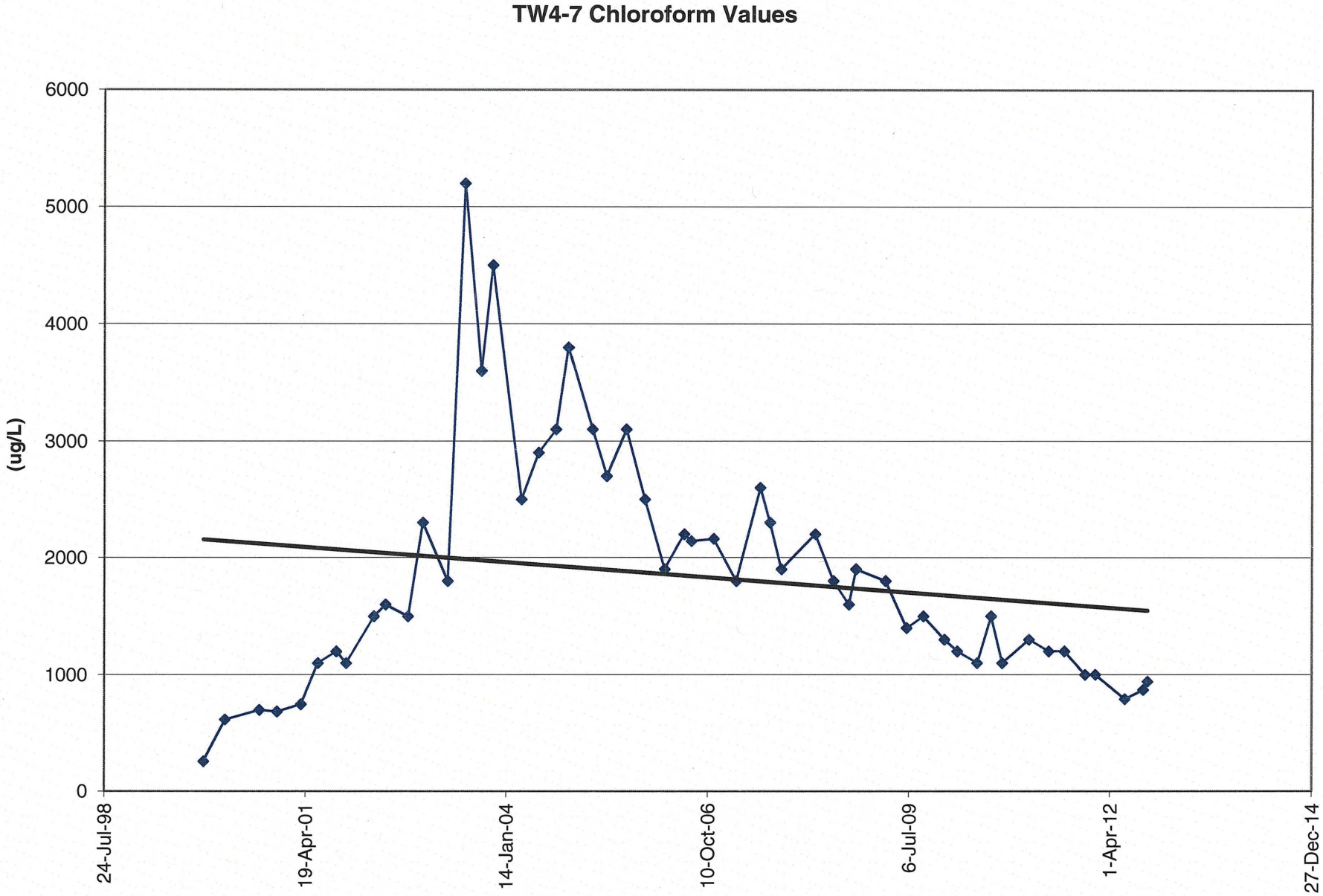
TW-4-3 Chloroform Values



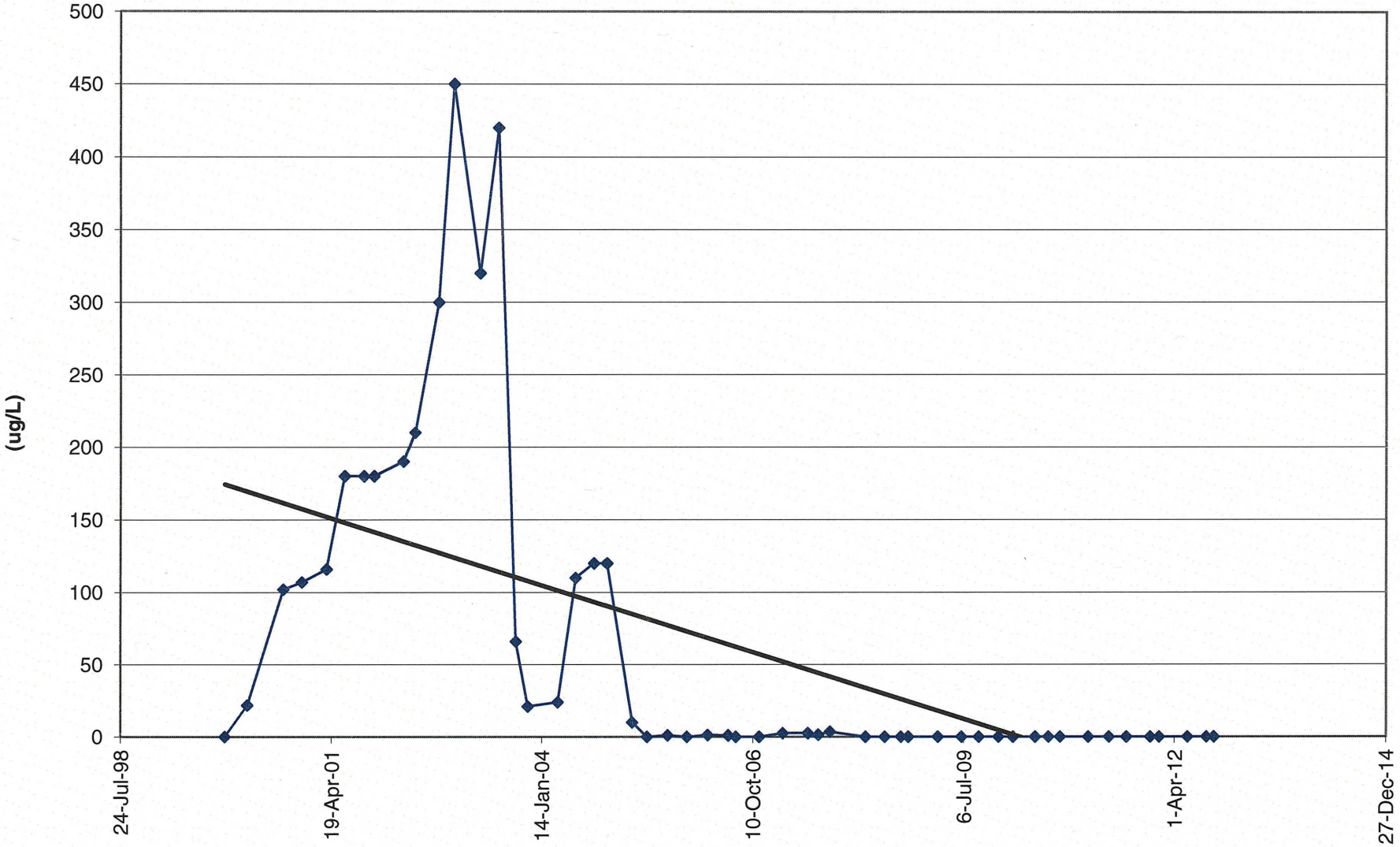
TW4-4 Chloroform Values


TW4-5 Chloroform Values
(ug/L)
350
300
250
200
150
100
50
0
24-Jul-98
19-Apr-01
14-Jan-04
10-Oct-06
6-Jul-09
1-Apr-12
27-Dec-14

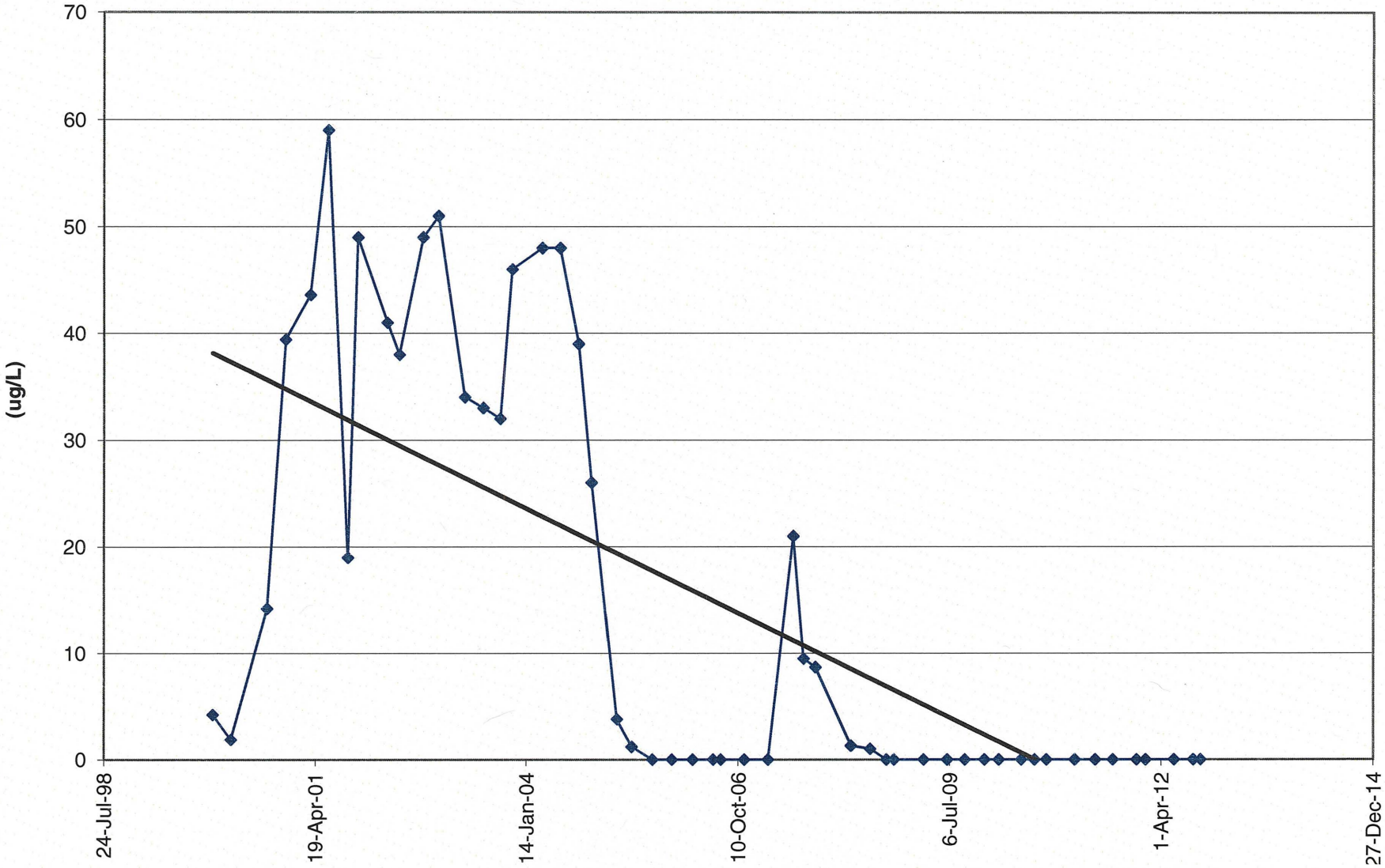

TW4-6 Chloroform Values
1200
1000
800
600
400
200
0
(ug/L)
07/24/98
12/06/99
04/19/01
09/01/02
01/14/04
05/28/05
10/10/06
02/22/08
07/06/09
11/18/10
04/01/12
08/14/13


TW4-7 Chloroform Values
(ug/L)
6000
5000
4000
3000
2000
1000
0
24-Jul-98
19-Apr-01
14-Jan-04
10-Oct-06
6-Jul-09
1-Apr-12
27-Dec-14

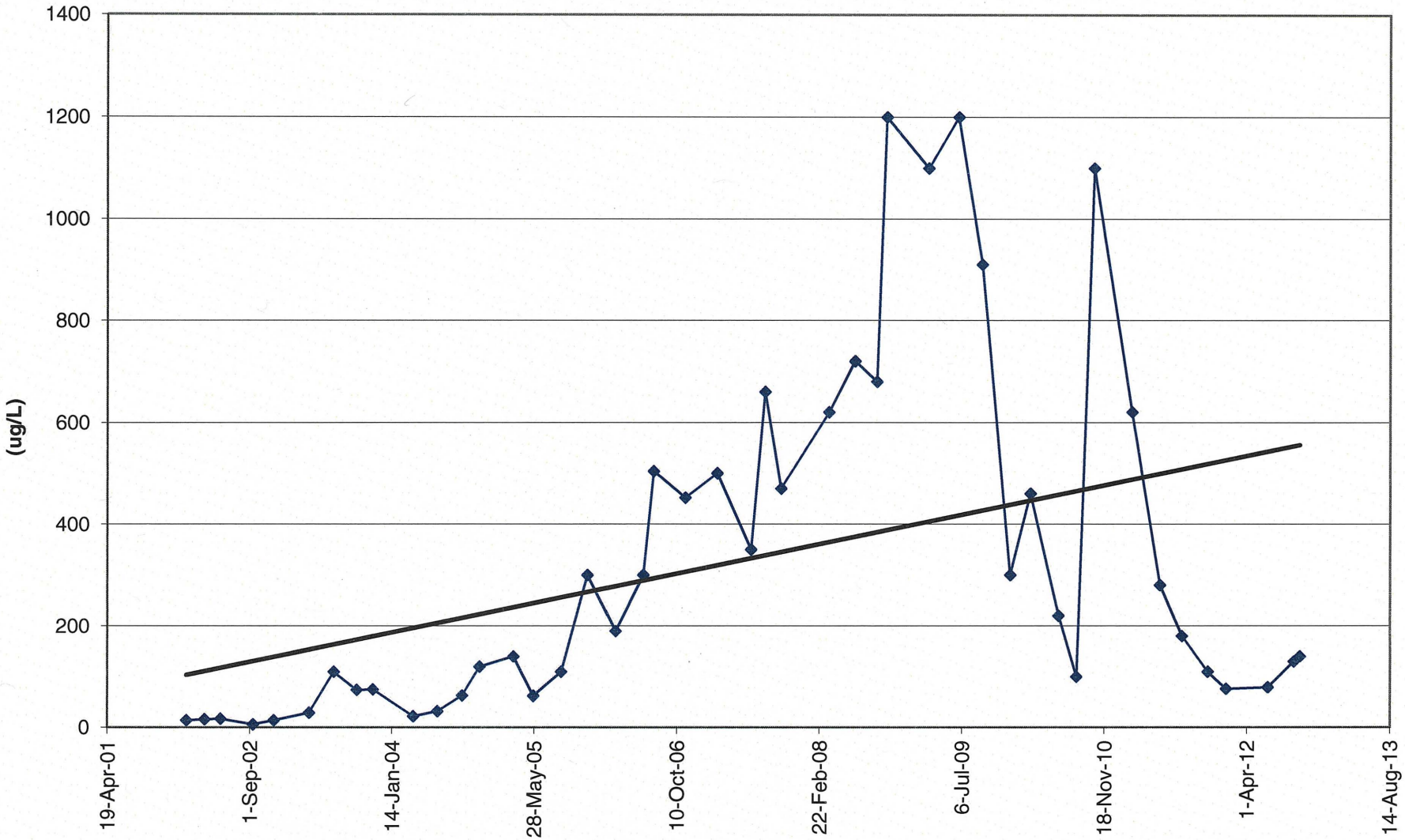
TW4-8 Chloroform Values

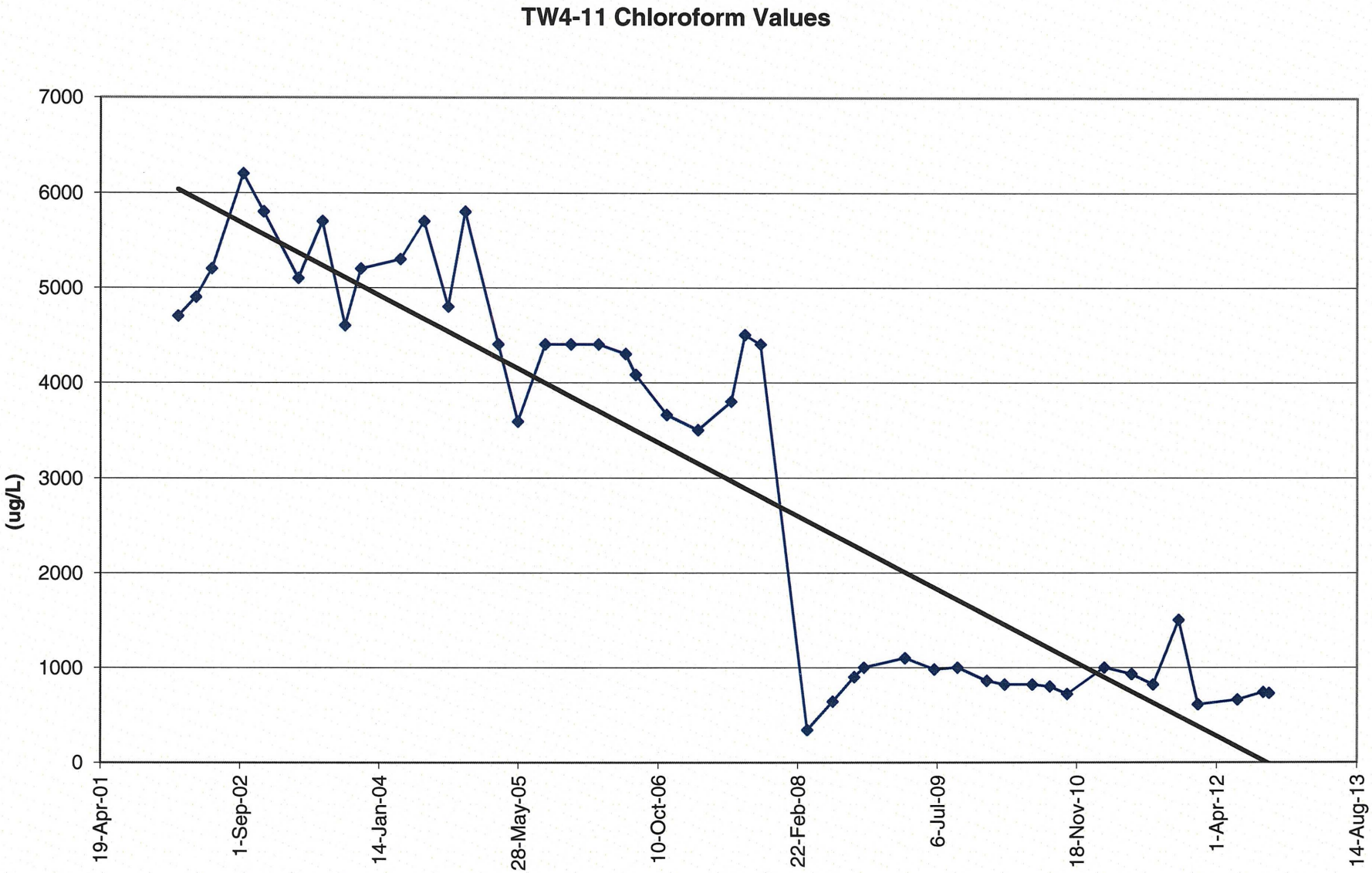


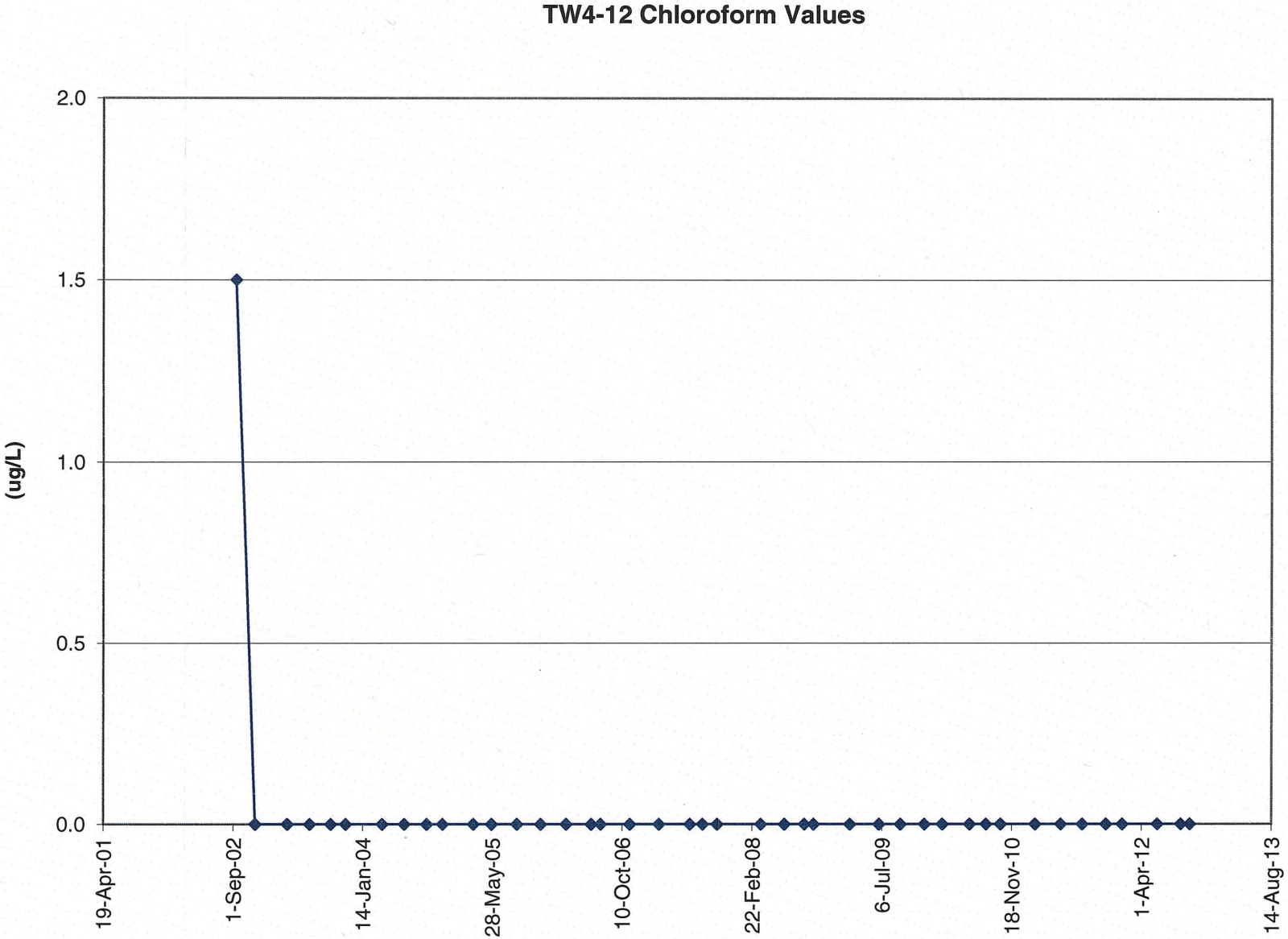
TW4-9 Chloroform Values

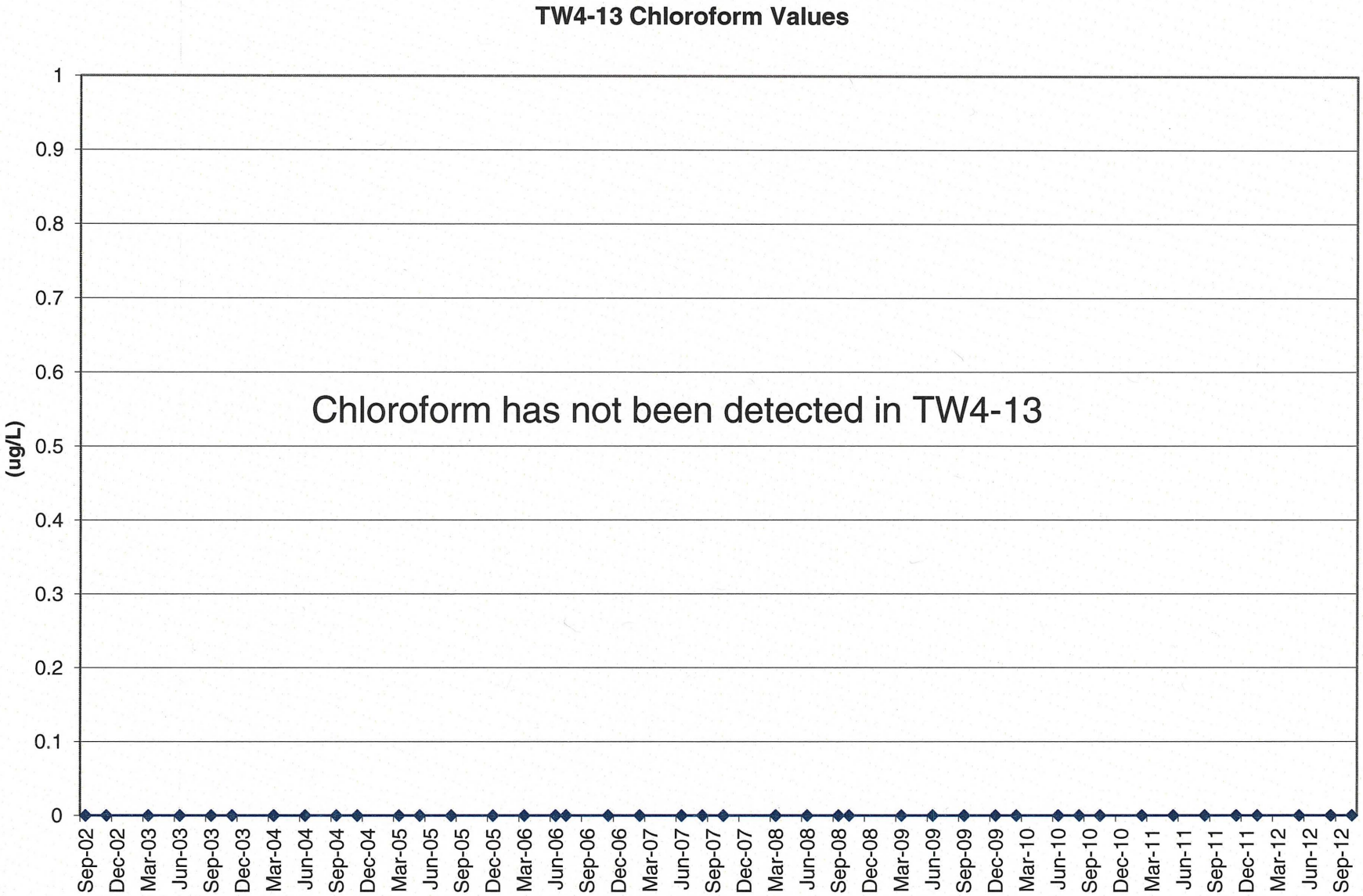


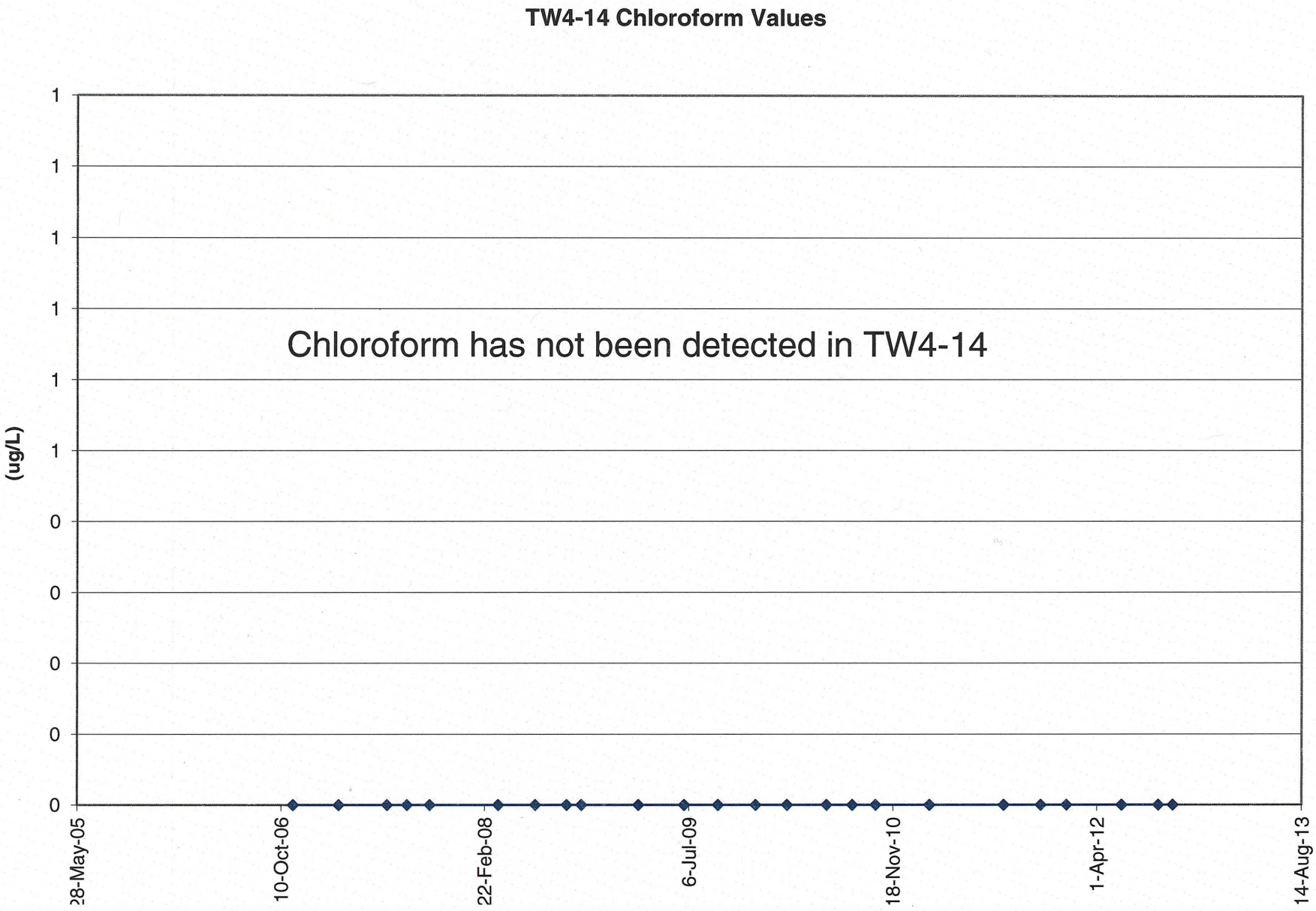
TW4-10 Chloroform Values

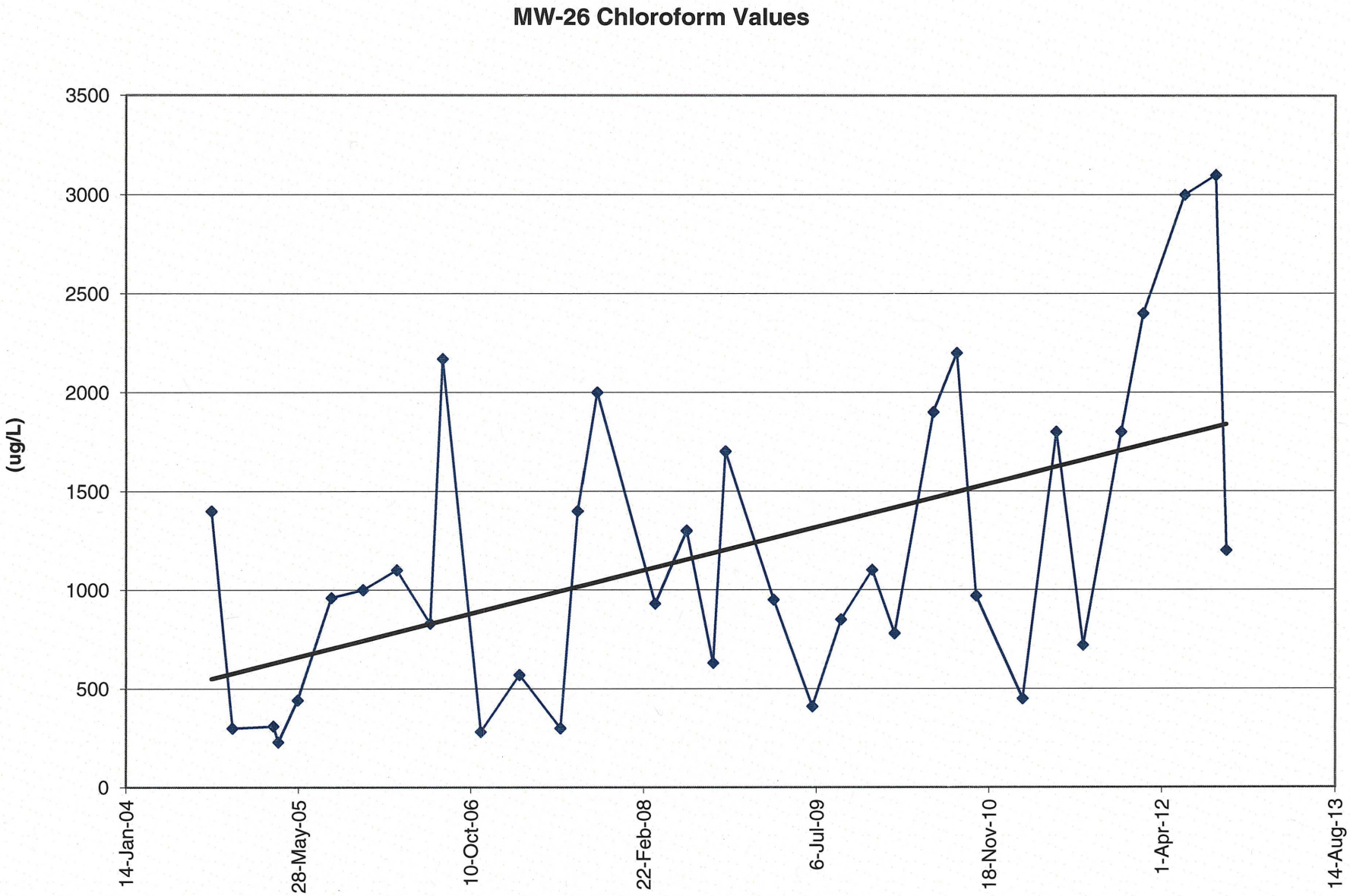



TW4-11 Chloroform Values
(ug/L)
7000
6000
5000
4000
3000
2000
1000
0
19-Apr-01
1-Sep-02
14-Jan-04
28-May-05
10-Oct-06
22-Feb-08
6-Jul-09
18-Nov-10
1-Apr-12
14-Aug-13

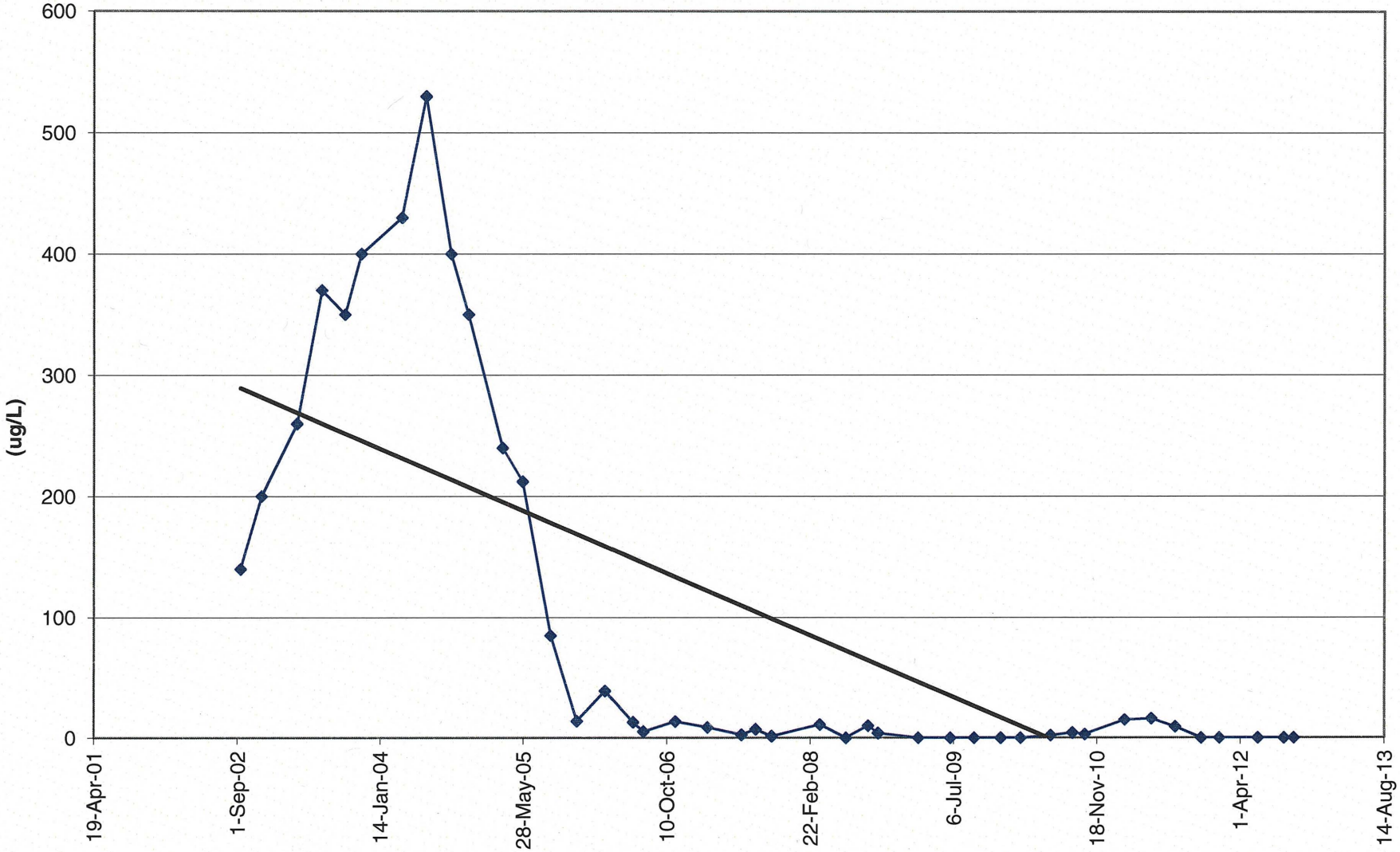

TW4-12 Chloroform Values
(ug/L)
2.0
1.5
1.0
0.5
0.0
19-Apr-01
1-Sep-02
14-Jan-04
28-May-05
10-Oct-06
22-Feb-08
6-Jul-09
18-Nov-10
1-Apr-12
14-Aug-13


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
Sep-10
Dec-10
Mar-11
Jun-11
Sep-11
Dec-11
Mar-12
Jun-12
Sep-12

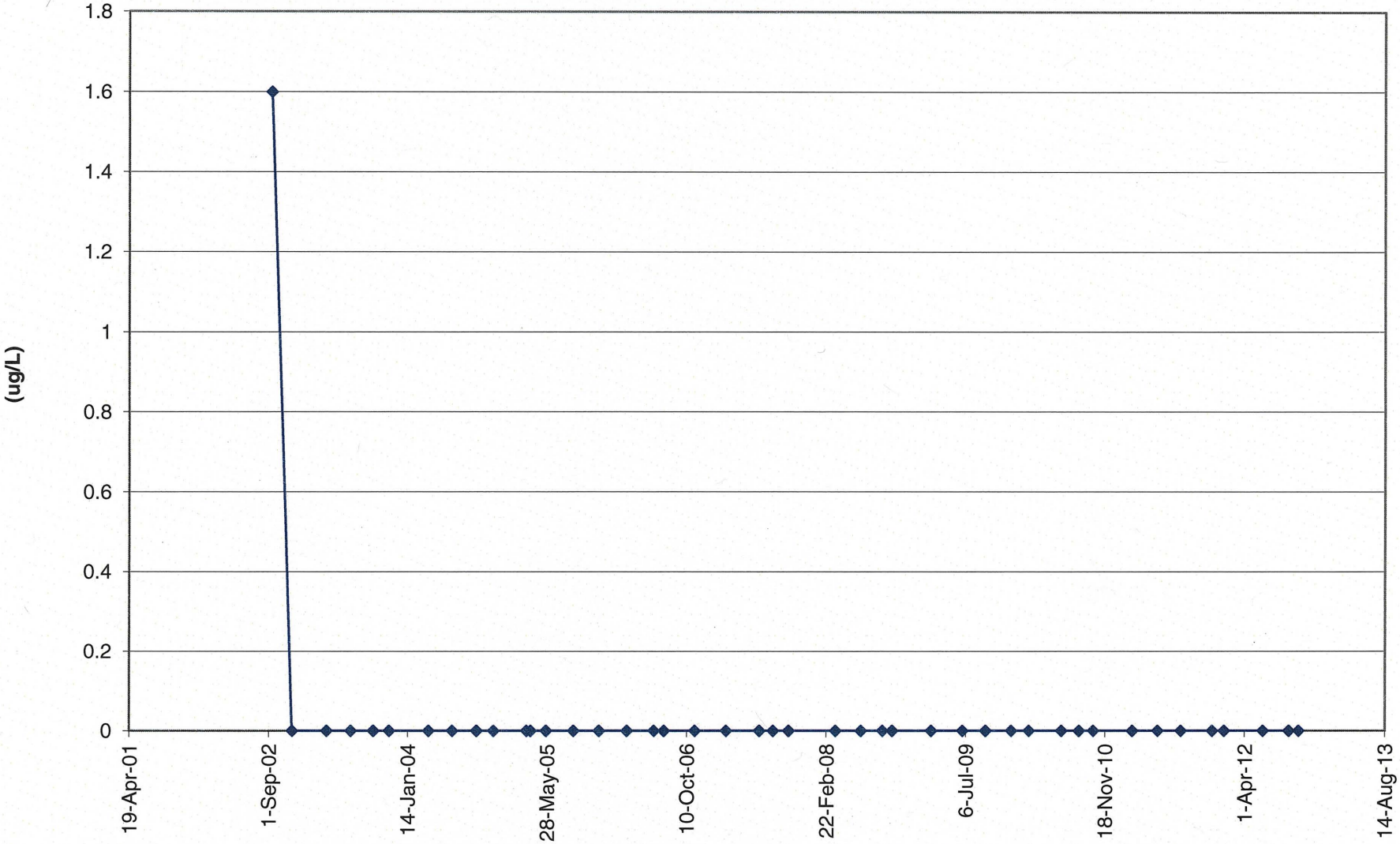

TW4-14 Chloroform Values
Chloroform has not been detected in TW4-14
(ug/L)
1
1
1
1
1
1
0
0
0
0
0
28-May-05
10-Oct-06
22-Feb-08
6-Jul-09
18-Nov-10
1-Apr-12
14-Aug-13


MW-26 Chloroform Values
(ug/L)
3500
3000
2500
2000
1500
1000
500
0
14-Jan-04
28-May-05
10-Oct-06
22-Feb-08
6-Jul-09
18-Nov-10
1-Apr-12
14-Aug-13

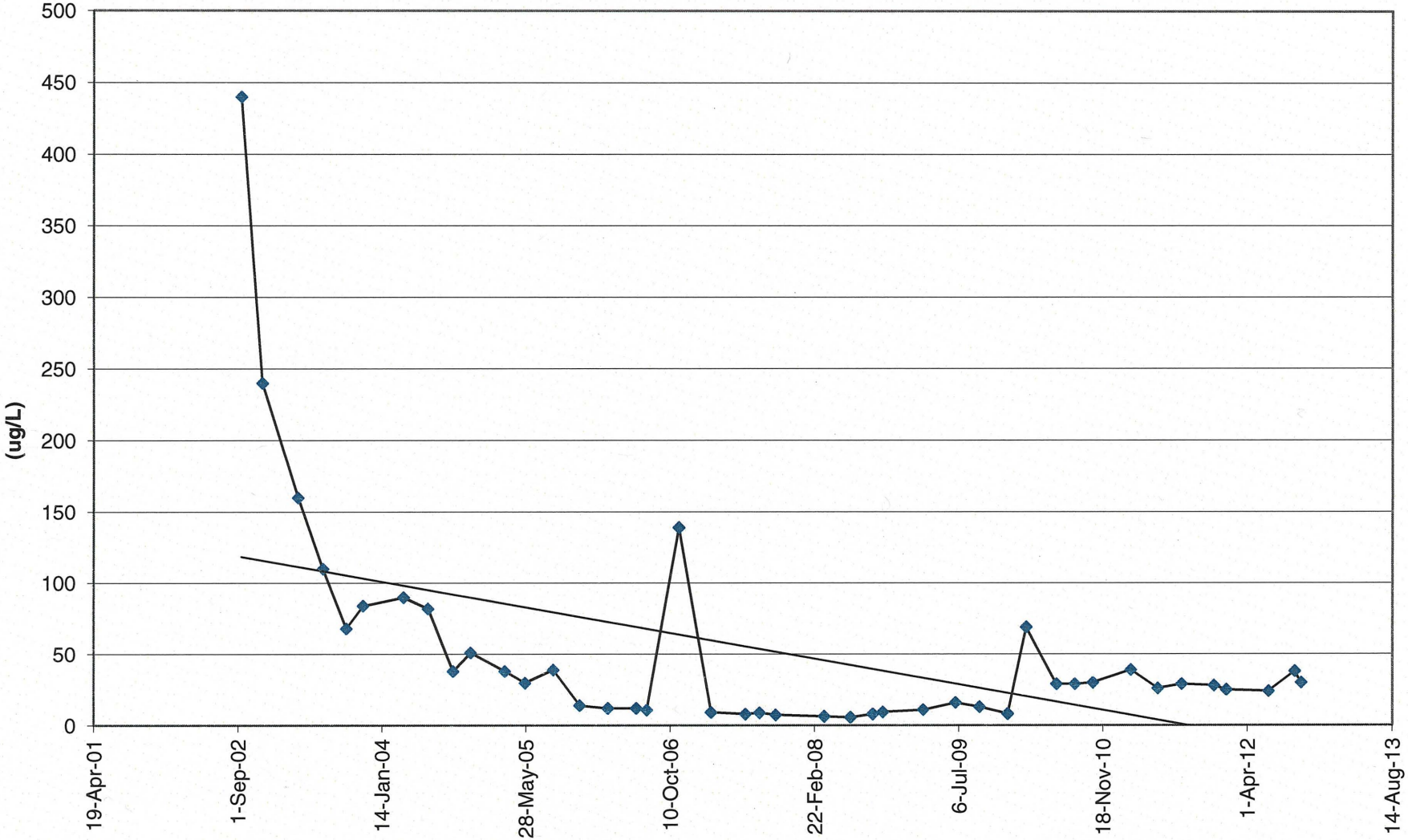
TW4-16 Chloroform Values

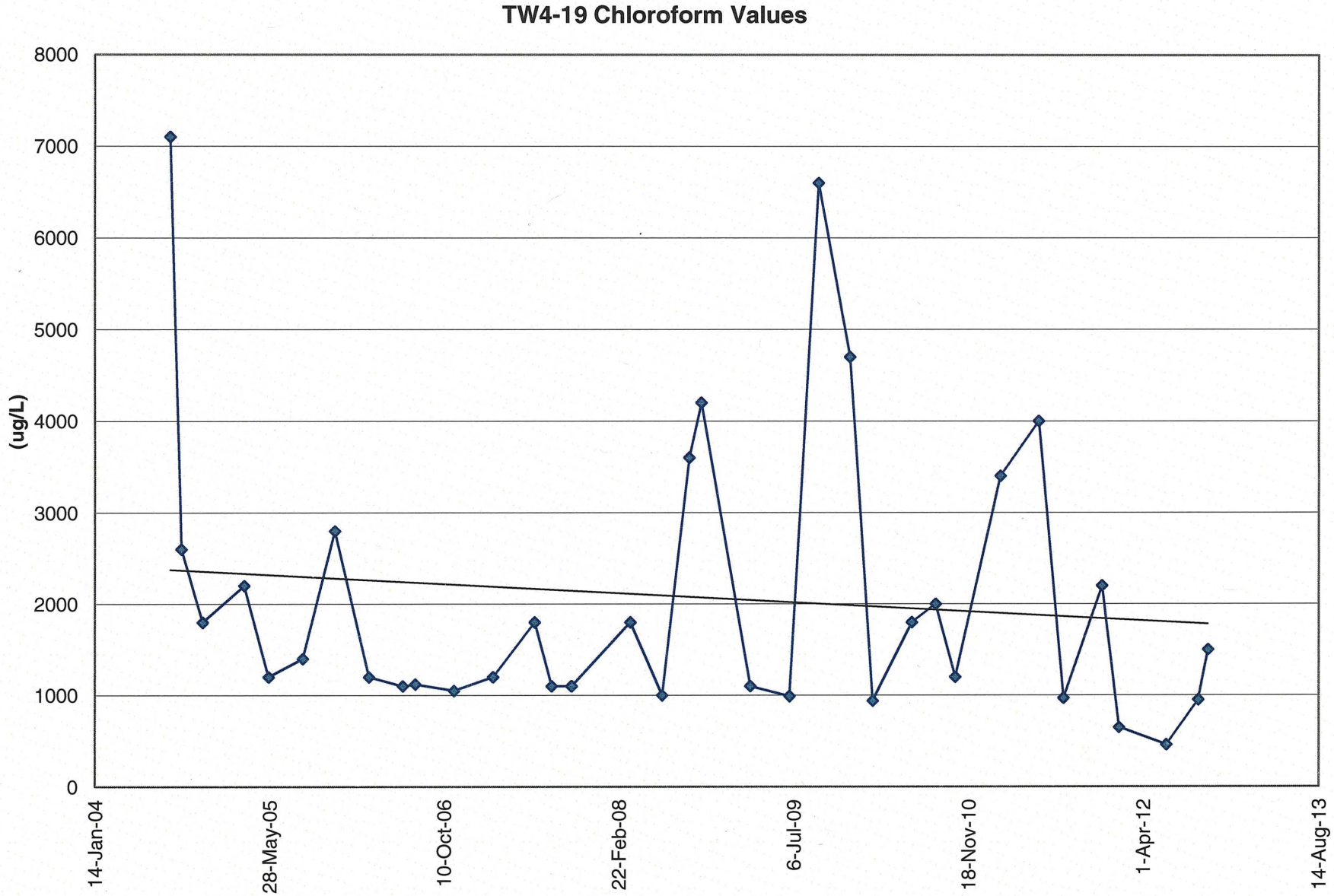


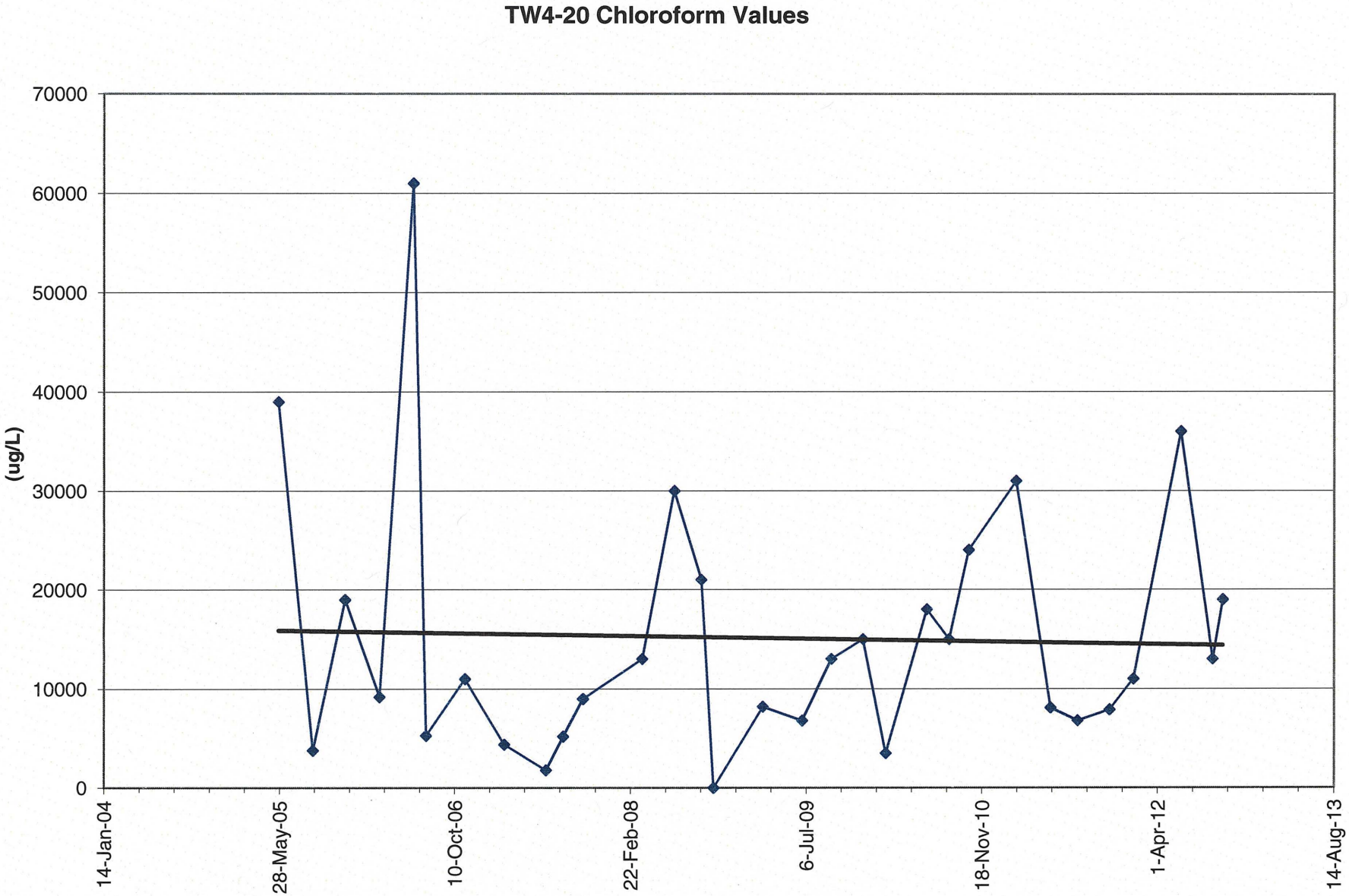
MW-32 Chloroform Values

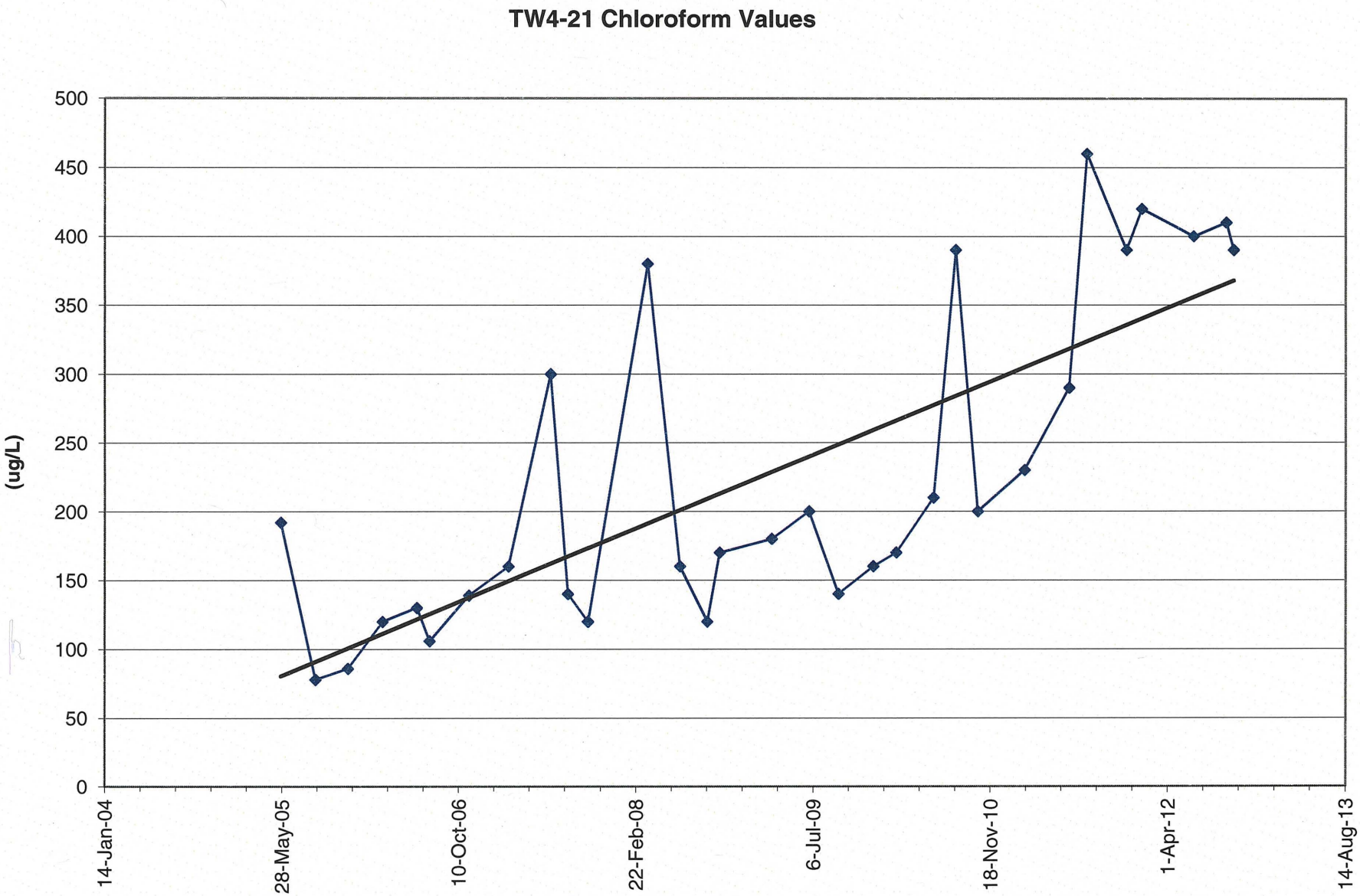


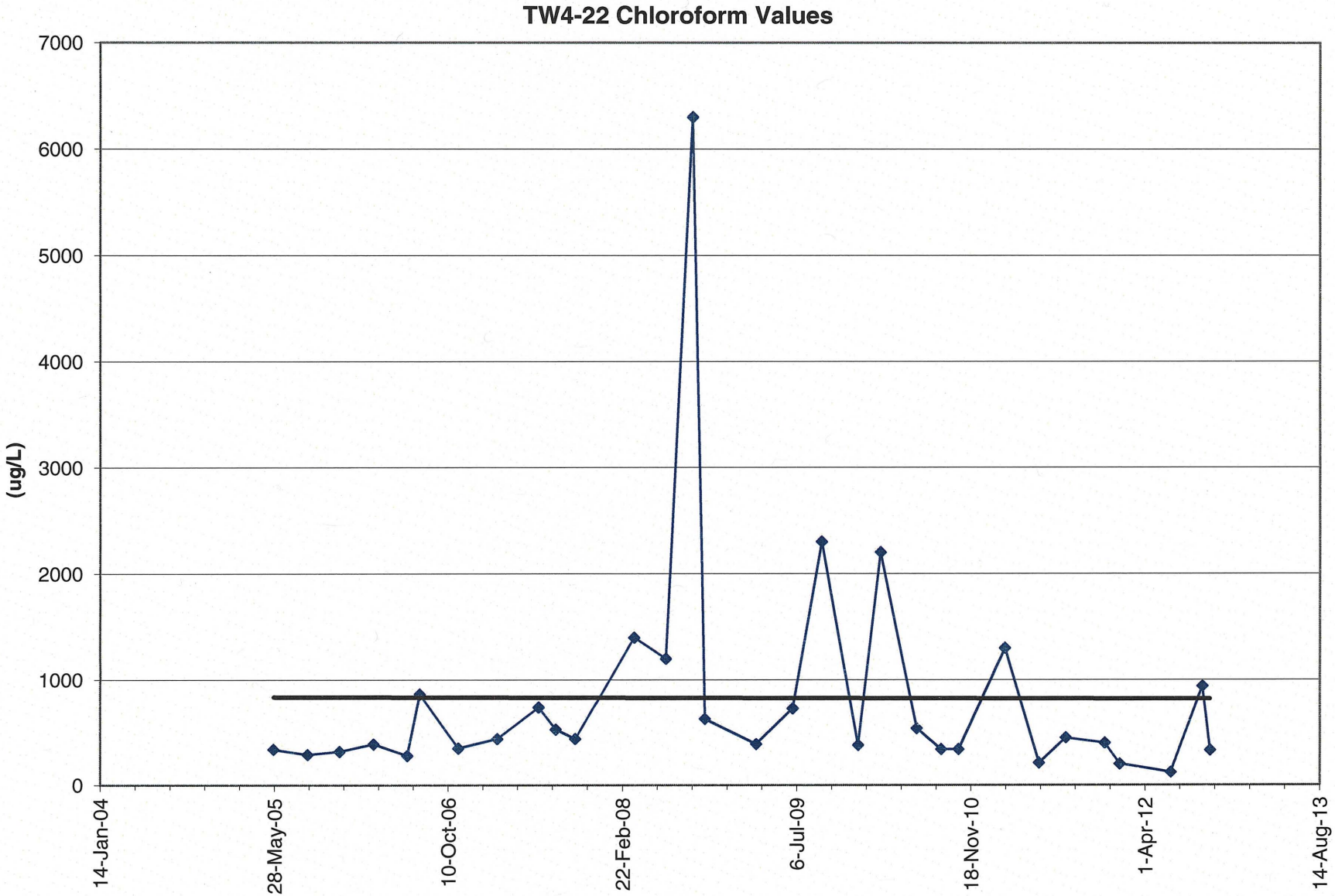
TW4-18 Chloroform Values

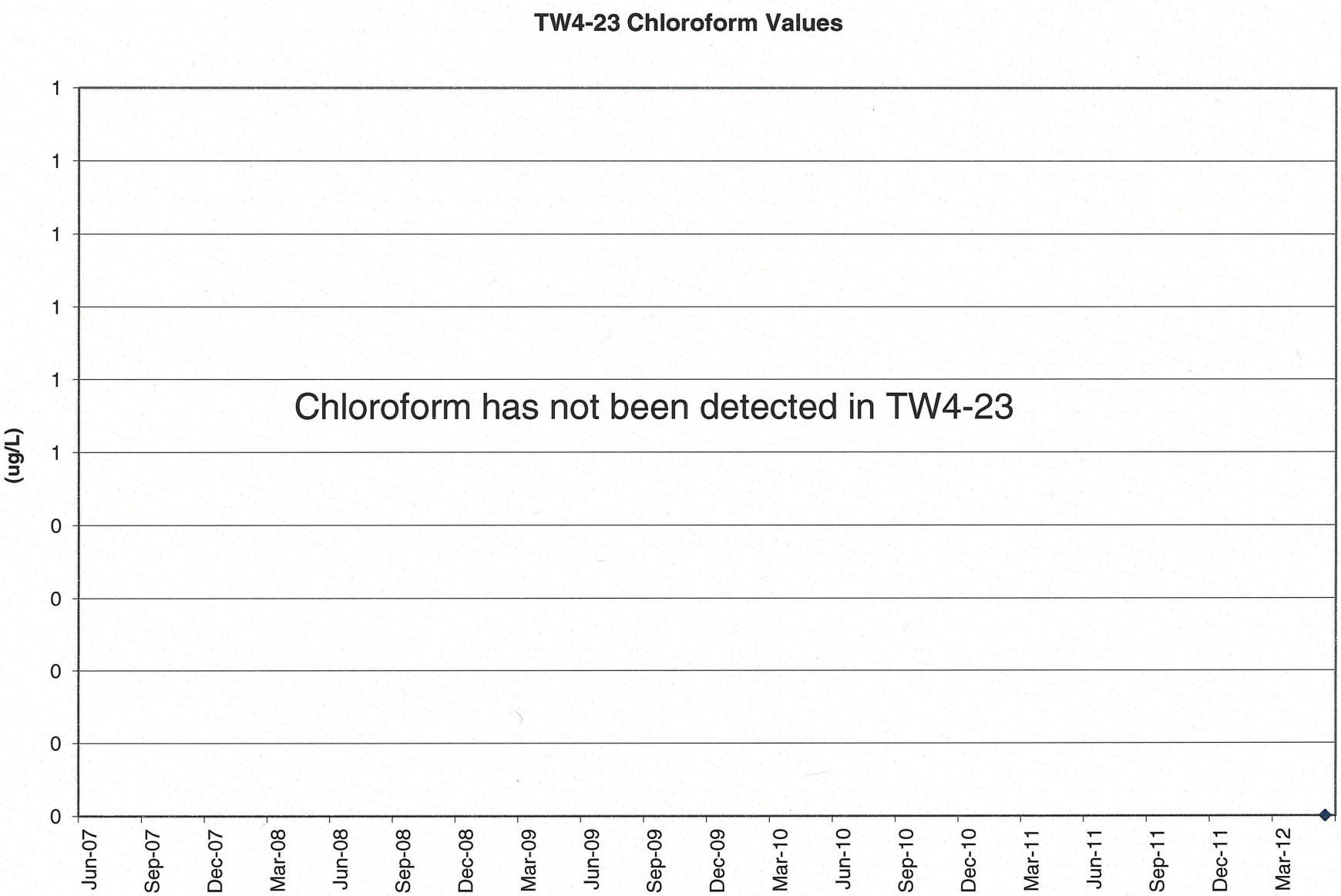


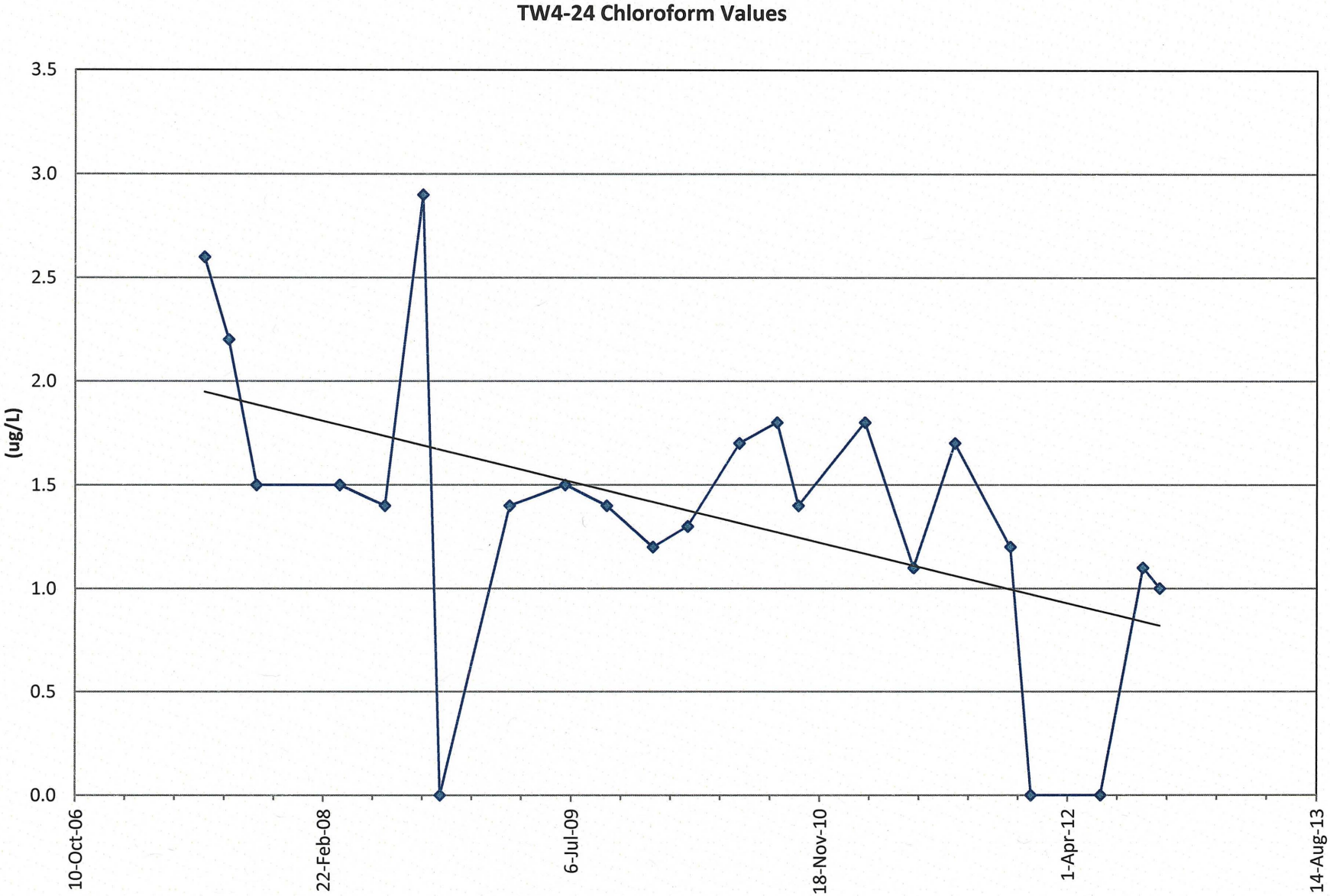

TW4-19 Chloroform Values
(ug/L)
8000
7000
6000
5000
4000
3000
2000
1000
0
14-Jan-04
28-May-05
10-Oct-06
22-Feb-08
6-Jul-09
18-Nov-10
1-Apr-12
14-Aug-13

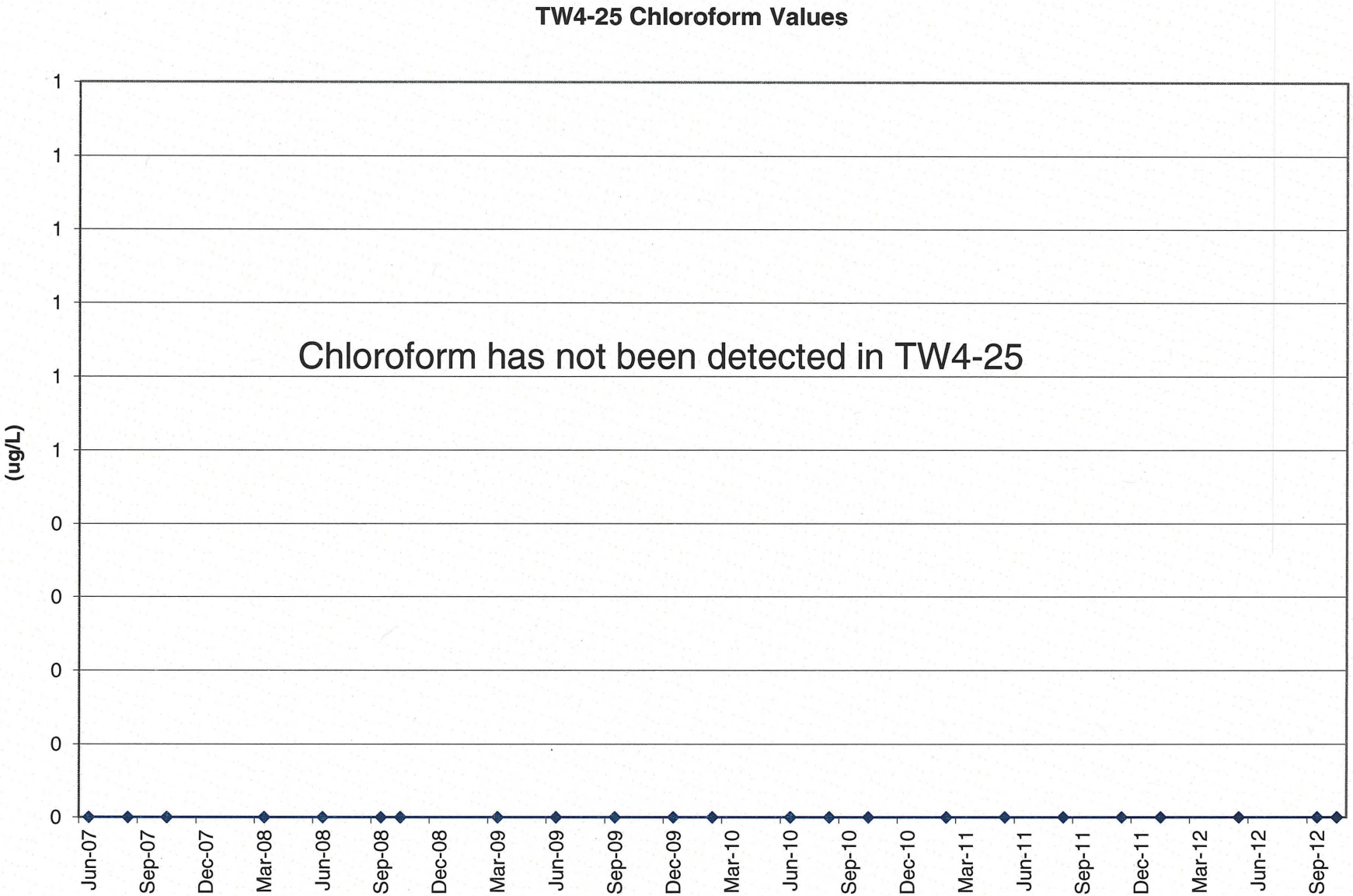

TW4-20 Chloroform Values
70000
60000
50000
40000
30000
20000
10000
0
(ug/L)
14-Jan-04
28-May-05
10-Oct-06
22-Feb-08
6-Jul-09
18-Nov-10
1-Apr-12
14-Aug-13

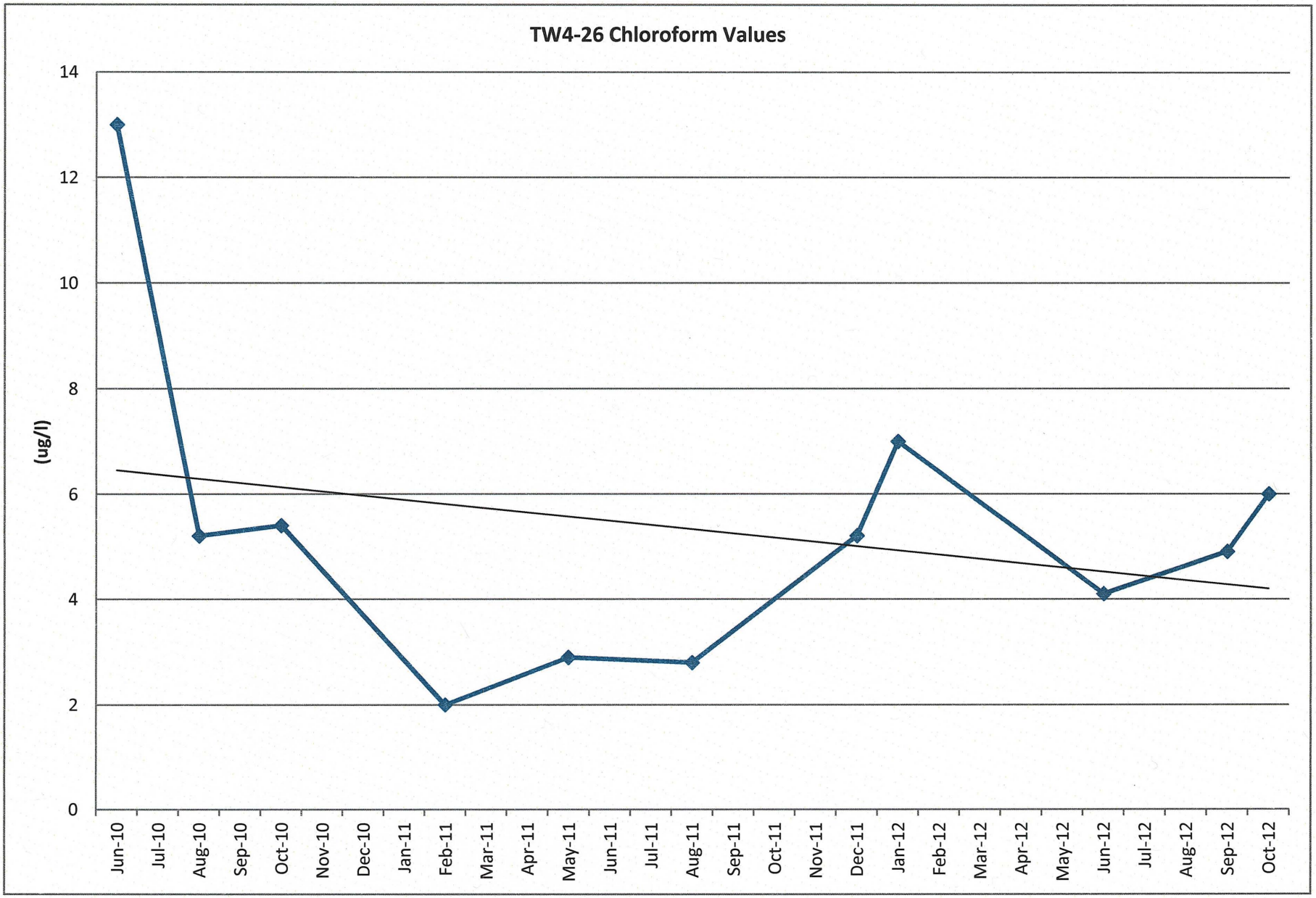

TW4-21 Chloroform Values
(ug/L)
500
450
400
350
300
250
200
150
100
50
0
14-Jan-04
28-May-05
10-Oct-06
22-Feb-08
6-Jul-09
18-Nov-10
1-Apr-12
14-Aug-13

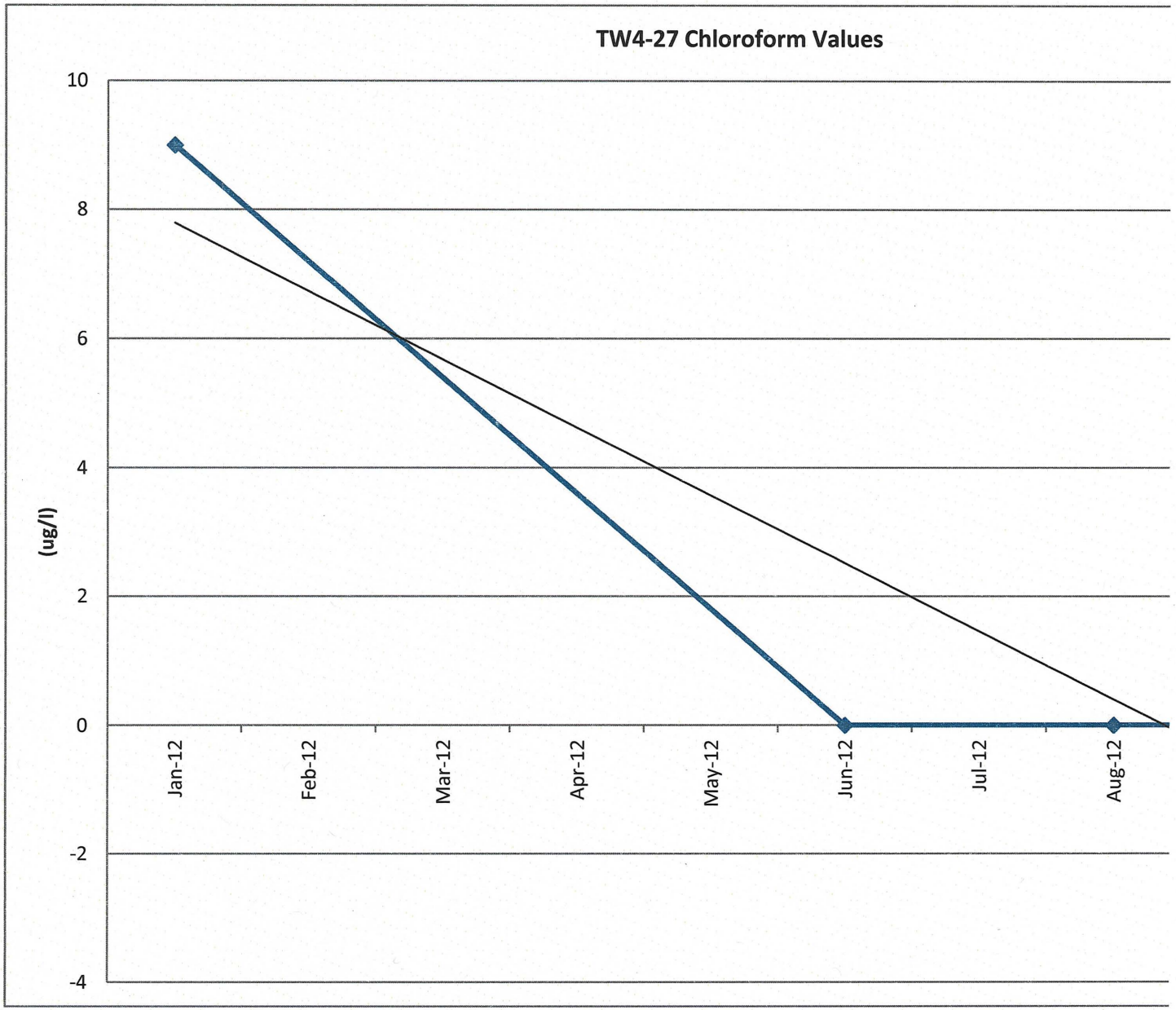

TW4-22 Chloroform Values
7000
6000
5000
4000
3000
2000
1000
0
(ug/L)
14-Jan-04
28-May-05
10-Oct-06
22-Feb-08
6-Jul-09
18-Nov-10
1-Apr-12
14-Aug-13


TW4-23 Chloroform Values
(ug/L)
1
1
1
1
1
1
0
0
0
0
Chloroform has not been detected in TW4-23
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
Sep-10
Dec-10
Mar-11
Jun-11
Sep-11
Dec-11
Mar-12


TW4-24 Chloroform Values
(ug/L)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
10-Oct-06
22-Feb-08
6-Jul-09
18-Nov-10
1-Apr-12
14-Aug-13


TW4-25 Chloroform Values
(ug/L)
1
1
1
1
1
1
0
0
0
0
Chloroform has not been detected in TW4-25
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
Sep-10
Dec-10
Mar-11
Jun-11
Sep-11
Dec-11
Mar-12
Jun-12
Sep-12


TW4-26 Chloroform Values
(ug/l)
14
12
10
8
6
4
2
0
Jun-10
Jul-10
Aug-10
Sep-10
Oct-10
Nov-10
Dec-10
Jan-11
Feb-11
Mar-11
Apr-11
May-11
Jun-11
Jul-11
Aug-11
Sep-11
Oct-11
Nov-11
Dec-11
Jan-12
Feb-12
Mar-12
Apr-12
May-12
Jun-12
Jul-12
Aug-12
Sep-12
Oct-12


TW4-27 Chloroform Values
10
8
6
4
2
0
-2
-4
(ug/l)
Jan-12
Feb-12
Mar-12
Apr-12
May-12
Jun-12
Jul-12
Aug-12

Tab M

CSV Transmittal Letter

Kathy Weinel

From: Kathy Weinel
Sent: Monday, February 18, 2013 9:58 AM
To: 'rlundberg@utah.gov'
Cc: 'Dean Henderson'; 'Phillip Goble'; Harold Roberts; David Frydenlund; Jaime Massey; David Turk; Jo Ann Tischler
Subject: Transmittal of CSV Files White Mesa Mill 2012 Q4 Chloroform Monitoring
Attachments: C12100263.CSV; C12100576.CSV

Dear Mr. Lundberg,

Attached to this e-mail is an electronic copy of laboratory results for chloroform monitoring conducted at the White Mesa Mill during the fourth quarter of 2012, 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

Tab N

Notification Letter

Energy Fuels Resources (USA) Inc.
225 Union Blvd. Suite 600
Lakewood, CO, US, 80228
303 974 2140
www.energyfuels.com

VIA EMAIL AND OVERNIGHT DELIVERY

December 21, 2012

Mr. Rusty Lundberg
Director of the Utah Division of Radiation Control
State of Utah Department of Environmental Quality
195 North 1950 West
P.O. Box 144850
Salt Lake City, UT 84116-4850

Re: White Mesa Uranium Mill – Notice of Violation and Corrective Action Order
UDEQ Docket No. UGW-20-01
Notice Pursuant to the Chloroform Pumping Well Operations and Maintenance Plan

Dear Mr. Lundberg:

Pursuant to the White Mesa Mill's (the "Mill's") Chloroform Pumping System Operations and Maintenance Plan ("Chloroform O&M Plan") Energy Fuels Resources (USA) Inc., ("EFRI") as operator of the Mill, is providing written Notice to the Utah Division of Radiation Control ("DRC") of a temporary outage in two chloroform capture pumps, as described in more detail below.

The Mill's Chloroform Pumping O&M Plan states that EFRI will notify DRC of system failures that cannot be made operational within 24 hours of discovery. It was determined on Wednesday, December 19, 2012 that a transformer failure had occurred which would require more than 24 hours to be repaired. The failure shut down electrical power to two chloroform continuous pumping wells which will be off (not pumping) until the transformer is replaced or an interim source of power is provided. Initial notice of this outage was given by telephone to Mr. Dean Henderson of DRC at approximately 3:40 pm on Wednesday December 19, 2012 (within 24 hours of the discovery).

1. Description of the Pumping System Failure

a) The Mill's Chloroform O&M Plan, submitted on October 25, 2010 and currently under review by UDEQ, states that Denison will notify UDEQ of system failures that cannot be "repaired and fully made operational within 24 hours of discovery."

b) The Mill experienced freezing temperatures for most of the week of December 17, 2012. Temperatures reached single digits on December 19, 2012.

c) One of the power circuits to the Cell 1 area supplies power to MW-26 and TW4-20. This circuit includes a transformer near the Mill's truck shop.

d) Mill personnel discovered, at approximately 10:30 am on December 19, 2012, that the truck shop transformer had failed when power to several areas of the Mill, including the tailings area, failed.

e) MW-26 and TW4-20 pumps stopped when power was lost. There was no apparent damage to the pumps or flow measurement instrumentation; however pumping will cease until power can be restored to the affected circuit.

f) During the morning of December 20, 2012, Mill management determined that a replacement for the damaged transformer would require up to 2 weeks or longer for delivery to the Mill site.

g) On December 20, 2012, Mill management began moving gasoline driven generators to supply the Cell 1 area and reactivate the well pumps until the replacement transformer arrives and is installed. Installation of the generators was completed during the night shift on December 20, 2012. The well heat lamps were turned on to thaw any frozen well water.

h) Immediately following confirmation that no frozen areas remained in the pumping system, the well pumps were turned back on at approximately 3:00 pm on December 21, 2012.

2. Root Cause

The root cause analysis is as follows:

a) A failed transformer caused a loss of power to the circuit which includes MW-26 and TW4-20.

b) The replacement transformer could not be acquired and installed within 24 hours of the initial power loss.

c) The installation of the temporary generator and thawing of the well piping prior to resumption of pumping required longer than 24 hours.

3. Period of Time the System Was Not in Operation

At the time of writing of this Notice, the pumps ceased operation for approximately 54 hours from December 19 to 21, 2012.

4. Date By Which the Pumping System Will Be Repaired and Operational

Pumping was resumed on December 21, 2012.

5. Steps taken to Repair and Have the System Fully Operational

a) Mill maintenance personnel isolated the failed electrical circuits on December 19, 2012.

b) Mill maintenance personnel located on site several portable gasoline-driven electric generators throughout the day on December 20, 2012.

c) Two generators were placed at the Cell 1 area on December 20, 2012. One generator was wired to supply both of the affected pumping well pump motors.

d) Maintenance personnel set up the heat lamps to thaw any potential frozen piping around the two affected well pumps.

e) The two affected well pumps were turned on and resumed pumping at approximately 3:00 pm on the morning of December 21, 2012.

f) The portable generator supplying the two affected well pumps will be left in place until the replacement transformer arrives, is installed, and power is restored to the Cell 1 area electrical circuit.

6. Additional Factors to Be Taken into Account

Although this incident does not fall within UAC R317-6-6.16, EFRI believes that the following should be taken into account by DRC in evaluating this incident.

a) Notification

By virtue of the initial oral notification given to DRC at 3:40pm on Wednesday December 19, 2012 (within 24 hours of the discovery) and this written notice, EFRI has submitted notification according within five days.

b) Failure was not Intentional or Caused by EFRI's Negligence

The failure of the pumping system was not due to negligence on the part of EFRI or Mill personnel. The failure resulted from an unavoidable condition, specifically, failure of a transformer occurring during continued freezing weather.

c) EFRI has Taken Adequate Measures to Meet the Conditions of the Chloroform O & M Plan

EFRI has taken adequate measures to meet Permit conditions in a timely manner. Mill personnel notified Corporate Compliance personnel within hours of the incident. DRC was notified on the same

day as the incident, and within 24 hours. Mill personnel immediately located and ordered a replacement transformer. Mill personnel located and moved temporary generators to the Cell 1 and well pump area within hours of determining that delivery time for the replacement transformer. Hookup of the generator for the two affected pumps, thawing of the line, and restart of the well pumps was performed within less than three days from the initial power loss.

d) The Provisions of UCA 19-5-107 Have Not Been Violated

The provisions of Utah Code 19-5-107 have not been violated. There has been no discharge of a pollutant into waters of the state. EFRI has not caused pollution which constitutes a menace to public health and welfare, or is harmful to wildlife, fish or aquatic life, or impairs domestic, agricultural, industrial, recreational, or other beneficial uses of water, nor has EFRI placed or caused to be placed any waste in a location where there is probable cause to believe it will cause pollution.

If you have any questions, please contact me at (303) 389-4132.

Yours very truly,

Jo Ann Tischler

ENERGY FUELS RESOURCES (USA) INC.
Jo Ann Tischler
Manager, Compliance and Licensing

cc David C. Frydenlund
Phil Goble
Dean Henderson, DRC
Dan Hillsten
Harold R. Roberts
David E. Turk
Kathy Weinel

Attachments