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"DRC-2013-002353"

May 28, 2013

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 1st Quarter 2013 Routine Chloroform Monitoring Report**  
**UDEQ Docket No. UGW-20-01 White Mesa Uranium Mill**

Dear Mr. Lundberg:

Enclosed are two copies of the White Mesa Uranium Mill Chloroform Monitoring Report for the 1st Quarter of 2013 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,

ENERGY FUELS RESOURCES (USA) INC.  
Jo Ann Tischler  
Manager, Compliance and Licensing

CC: David C. Frydenlund  
Harold R. Roberts  
David E. Turk  
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A handwritten signature in blue ink that reads 'Jo Ann Tischler'.

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Jo Ann Tischler  
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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**

**1st Quarter**  
**(January through March)**  
**2013**

Prepared by:

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

**May 28, 2013**

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## **1.0 INTRODUCTION**

The presence of chloroform was initially identified in groundwater at the White Mesa Mill (the "Mill") as a result of split sampling performed in May 1999. The discovery resulted in the issuance of State of Utah Notice of Violation ("NOV") and Groundwater Corrective Action Order ("CAO") State of Utah Department of Environmental Quality ("UDEQ") Docket No. 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 first quarter of 2013 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, 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.

Water level and analytical data collected from TW4-27 in 2012 and first quarter 2013 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 TW4-28, TW4-29, TW4-30, and TW4-31

Installation of four new perched groundwater monitoring wells, TW4-28, TW4-29, TW4-30, and TW4-31 was completed on March 6, 2013 as required by the February 14, 2013 DRC Confirmatory Action Letter. These four wells were installed to provide additional information regarding the nitrate concentrations in TW4-12 and TW4-27 which have exceeded the State of Utah groundwater quality standard. Pursuant to the agreements made with the Utah Division of Environmental Quality (“UDEQ”) as documented in correspondence from UDEQ dated February 14 2013, the four new wells would be installed, developed, hydraulically tested, and sampled by the end of the second quarter 2013. The wells will be sampled during the regularly scheduled second quarter sampling event. The data will be included in the second quarter 2013 report submitted on or before September 1, 2013. As required by the February 14, 2013 letter, a separate Contamination Investigation Report (“CIR”) will also be prepared and submitted within 60 days of receipt of the analytical data for the four new wells.

### 2.1.3 Chloroform Monitoring

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

TW4-1	TW4-10	TW4-21	TW4-28*
TW4-2	TW4-11	TW4-22	TW4-29*
TW4-3	TW4-12	TW4-23	TW4-30*
TW4-4	TW4-13	TW4-24	TW4-31*
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	

\* These wells were installed in the first quarter of 2013, and will be sampled second quarter 2013 pursuant to agreements with UDEQ.

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.

#### **2.1.4 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.

#### **2.1.5 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.

Weekly and monthly depth to groundwater measurements were taken in the chloroform pumping wells MW-4, MW-26, TW4-19, TW4-20, and TW4-4, and the nitrate pumping wells TW4-22, TW4-24, TW4-25, and TWN-2. In addition, monthly water level measurements were taken in non-pumping wells MW-27, MW-30, MW-31, TW4-21, TWN-1, TWN-3, TWN-4, TWN-7, and TWN-18 as required by the Nitrate Corrective Action Plan ("CAP"), dated May 7, 2012.

## **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% RPD) 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 disposable 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<sub>2</sub>SO<sub>4</sub>;
- 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, TW4-4, TW4-22, TW4-24, TW4-25, and TWN-2 as well as the monthly depth to groundwater data for chloroform contaminant investigation wells and the non-pumped 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 American West Analytical Laboratories ("AWAL"). 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 nine 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 American West Analytical Laboratories ("AWAL") 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, TW4-07, TW4-08, TW4-09, TW4-11, TW4-12, TW4-16, MW-32, TW4-18, TW4-21, and TW4-23, 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, TW4-10, TW4-13, TW4-14, 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 turbidity 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.

#### Continuously Pumped Wells

Wells MW-04, TW4-04, MW-26, TW4-19, TW4-20, TW4-22, TW4-24, and TW4-25 are continuously pumped wells. These wells are pumped on a set schedule per the remediation plan and are considered sufficiently evacuated to immediately collect a sample.

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, TW4-02, TW4-03, TW4-05, TW4-06, TW4-07, TW4-08, TW4-09, TW4-10, TW4-11, TW4-12, TW4-13, TW4-14, TW4-16, MW-32, TW4-18, TW4-19, TW4-20, TW4-21, TW4-23, 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-two samples, eight samples (TW4-2, TW4-3, TW4-6, TW4-10, TW4-13, TW4-14, 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 temperature 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; several sets 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. All of the rinsate blank sample results were nondetect for this quarter.

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 results were nondetect.

#### **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 samples were within acceptable laboratory limits for all regulated compounds except as indicated in Tab I. The data recoveries which are outside the laboratory established acceptance limits do not affect the quality or usability of the data because the recoveries above or below the acceptance limits are indicative of matrix interference. Matrix interferences are applicable to the individual sample results only. The requirement in the QAP 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. The requirement in the QAP to analyze a surrogate compounds was met and as such the data are compliant with the QAP. 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 mounding associated with the northern ponds, to which water is no longer delivered, is diminishing and is expected to continue to diminish as the mound decays due to reduced recharge. Flow directions are also locally influenced by operation of chloroform pumping wells MW-4, MW-26, TW4-4, TW4-19, and TW4-20. Well defined cones of depression are evident in the vicinity of all chloroform pumping wells except TW4-4, which began pumping in the first quarter of 2010. Flow directions are also locally influenced by the start-up of nitrate pumping wells TW4-22, TW4-24, TW4-25, and TWN-2 during the first quarter of 2013. Nitrate pumping wells TW4-22, TW4-24, TW4-25, and TWN-2 have not been in operation long enough for well-defined cones of depression to have developed. Although operation of the nitrate pumping system has not yet produced a well-defined impact on water levels, continued operation of the system is expected to produce a well-defined capture zone that will merge with and enhance the

capture associated with the chloroform pumping system. The actual impact of nitrate pumping on the chloroform pumping system cannot be evaluated until more data are collected as part of routine monitoring.

Although operation of chloroform pumping well 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 due to recharge from the wildlife ponds. Recharge from the southern wildlife pond is expected to continue to have an effect on water levels near TW4-4, but the effects related to recharge from the northern ponds is expected to diminish over time as water is no longer delivered to the northern ponds.

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 5526.94 feet above mean sea level [ft amsl]) is approximately 13 feet lower than the water level at TW4-6 (approximately 5539.53 ft amsl) and nearly 17 feet lower than at TW4-4 (approximately 5543.49 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 5526.4 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 (5539.1 feet amsl) is, however, lower than water levels at adjacent wells TW4-6 (5539.5 feet amsl), and TW4-23 (5543.5 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, first quarter, 2013 chloroform concentrations at TW4-26 and TW4-27 are 4.9 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 fourth quarter of 2012, as submitted with the Chloroform Monitoring Report for the fourth quarter of 2012, are attached under Tab E.

A comparison of the water table contour maps for the current (first) quarter of 2013 to the water table contour maps for the previous quarter (fourth quarter of 2012) indicates similar patterns of drawdown related to operation of chloroform pumping wells MW-4, MW-26, TW4-4, TW4-19 and TW4-20. Although nitrate pumping wells TW4-22, TW4-24, TW4-25, and TWN-2 were brought into operation during the first quarter of 2013, 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 8 feet, 4 feet, and 3 feet occurred in chloroform pumping wells MW-26, TW4-19, and MW-4, respectively, and decreases in water levels (increases in drawdown) of approximately 7 feet, 6 feet, and 2 feet occurred in nitrate pumping wells TWN-2, TW4-24, and TW4-22, respectively. Changes in water levels at other pumping wells (chloroform pumping wells TW4-4 and TW4-20 and nitrate pumping well TW4-25) were 1 foot or less. Water level fluctuations at pumping wells typically occur in part because of fluctuations in pumping conditions just prior to and at the time the measurements are taken.

A reported water level increase of approximately 3 feet occurred at TW4-7 (likely in response to changes in pumping at adjacent well MW-4), and of nearly 6 feet occurred at TW4-12, restoring it to a more typical value. Water level decreases of approximately 10 feet, 5 feet, and 3 feet for Piezometer 2, TWN-4, and Piezometer 3, respectively, likely result from cessation of water delivery to the northern wildlife ponds and the consequent continuing decay of the associated perched water mound. The water level decrease of

approximately 3 feet reported for TWN-3 is likely related to operation of nitrate pumping well TWN-2, and the decrease of approximately 3 feet reported for TWN-1 is likely related to both decay of the perched water mound and operation of nitrate pumping well TW4-25.

The increases in water levels (decreases in drawdown) at chloroform pumping wells MW-26, TW4-19, and MW-4 have slightly decreased the apparent capture of these wells relative to other pumping wells. As a result, the combined capture of chloroform pumping wells MW-4, MW-26, TW4-4, TW4-19, and TW4-20 has been reduced slightly since the last quarter.

#### **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 operating chloroform pumping wells 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 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 chloroform pumping wells, pumping TW4-4 helps to reduce the rate of chloroform migration in downgradient portions of the plume.

The impact of chloroform pumping is indicated by the water level contour maps attached under Tabs D and E. Cones of depression are evident 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 been reduced slightly since the last quarter, and the impact of nitrate pumping on the capture associated with chloroform pumping is not yet evident. However, continued operation of the nitrate pumping system is expected to produce a capture zone that will merge with and enhance the capture zone associated with the chloroform pumping system. As discussed in Section 4.1.1, the drawdown associated with chloroform pumping well

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 6.9 µg/L, and at TW4-26 from 13 µg/L to 5 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 chloroform 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: MW-4, TW4-5, TW4-19, TW4-22, and TW4-24;
- b) Chloroform concentrations have decreased by more than 20% in the following wells compared to last quarter: TW4-6 and TW4-21;

- c) Chloroform concentrations have remained within 20% in the following wells compared to last quarter: MW-26, TW4-1, TW4-2, TW4-4, TW4-7, TW4-10, TW4-11, TW4-18, TW4-20, and TW4-26; and
- 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.

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-4, TW4-5, TW4-6, TW4-19, TW4-21, TW4-22 and TW4-24 had changes in concentration greater than 20%. Of the latter, MW-4 and TW4-19 are chloroform pumping wells, and TW4-22 and TW4-24 are nitrate pumping wells. TW4-5 and TW4-22 are located adjacent to chloroform pumping well TW4-20; TW4-21 is located between chloroform pumping well TW4-19 and nitrate pumping well TW4-25; and TW4-6 is located adjacent to chloroform pumping well TW4-4. Fluctuations in concentrations at pumping wells and wells adjacent to pumping wells likely result in part from changes in pumping at both chloroform and nitrate pumping wells.

Chloroform pumping well TW4-20 had the highest detected chloroform concentration. Since the last quarter, the chloroform concentration in TW4-20 decreased from 19,000  $\mu\text{g/L}$  to 18,500  $\mu\text{g/L}$ , the concentration in adjacent pumping well TW4-19 increased from 1,500  $\mu\text{g/L}$  to 4,210  $\mu\text{g/L}$ , and the concentration in nearby well TW4-21 decreased from 390 to 282  $\mu\text{g/L}$ . The chloroform concentration in nitrate pumping well TW4-22 increased substantially from 330  $\mu\text{g/L}$  to 10,600  $\mu\text{g/L}$  in response to the start-up of pumping and the presence of historically high chloroform concentrations at adjacent, cross-gradient well TW4-20. Wells TW4-23 and TW4-25 remained non-detect for chloroform. The chloroform concentration in nitrate pumping well TW4-24 increased from 1.1  $\mu\text{g/L}$  to 5.7  $\mu\text{g/L}$ . 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 temporary well TW4-26).

The chloroform concentration in TW4-6 decreased from 8.5  $\mu\text{g/L}$  to 6.9  $\mu\text{g/L}$ , 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  $\mu\text{g/L}$  to 6.9  $\mu\text{g/L}$ . 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 TW4-27 are also expected to be relatively low due to upgradient pumping and low permeability conditions.

Although changes in concentration have occurred in wells within the chloroform plume, the boundaries of the plume have not changed significantly since the last quarter, even under the influence of the nitrate pumping. Nitrate pumping has, however, caused the boundary of the northern portion of the chloroform plume to move slightly to the west toward TW4-24. Continued operation of the nitrate pumping system is expected to produce a capture zone that will merge with and enhance the capture zone associated with the chloroform pumping system.

## **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.

Beginning in January 2013, EFRI began long term pumping of TW4-22, TW4-24, TW4-25, and TWN-02 as required by the Nitrate CAP, dated May 7, 2012 and the SCO dated December 12, 2012. Because wells TW4-22, TW4-24, and TW4-25 are chloroform program wells, they will be included in this report and any chloroform removal realized as part of this pumping will be calculated and included in this and all future chloroform quarterly reports.

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, from TW4-4 on January 31, 2010, from TW4-22, TW4-24, and TW4-25 January 26, 2013. 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
- Measurement of water levels weekly at TW4-22, TW4-24, TW4-25, and TWN-02 commencing January 28, 2013, and on a monthly basis selected temporary wells and permanent monitoring wells.

### **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. From commencement of pumping water levels in wells TW4-22, TW4-24, TW4-25, and TWN-02 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, TW4-4, TW4-22, TW4-24, TW4-25 and TWN-02 and the monthly Depth to Water monitoring sheets for all of the chloroform contaminant investigation wells and the selected temporary wells and permanent monitoring 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 active pumping wells. It is important to note that because TWN-02 is not sampled or analyzed for chloroform, the mass of chloroform recovered is not calculated.

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.

#### **5.4.1 MW-4**

During the weekly check, on January 7, 2013, the flow meter at MW-4 was noted as cracked and leaking. The pumping operations were not affected and the flow meter was replaced. No notifications to DRC were required.

#### **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 submitted an O&M Plan Revision 2.1, which included a proposed weekly inspection form, to UDEQ for approval on October 25, 2010. Approval of the O&M Plan was received January 2, 2013. The inspection forms specified in the O&M Plan Revision 2.1 were implemented starting with the first inspection conducted following the receipt of the DRC approval. As previously noted, EFRI began long term pumping in TW4-22, TW4-24, TW4-25 and TWN-02 in late January 2013 as required by the Nitrate CAP and SCO. Weekly checks in these wells are also required. EFRI prepared combined weekly and monthly depth check field forms for use on both the chloroform and nitrate program. EFRI requested permission from UDEQ staff to use the combined forms to eliminate duplication of recorded information. UDEQ provided approval for use of the combined forms via e-mail on February 12, 2013. Prior to receipt of the February 12, 2013 approval, EFRI completed all of the forms required under both pumping programs.

All of the required forms are included in Tab C.

#### **5.7 Conditions That May Affect Water Levels in Piezometers**

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

#### **6.0 CORRECTIVE ACTION REPORT**

There are no corrective actions required during the current monitoring period.

#### **6.1 Assessment of Previous Quarter's Corrective Actions**

The fourth quarter 2012 report noted one corrective action. Assessment of the corrective action is discussed below.

The issue which required corrective action from the fourth quarter 2012 is as follows:

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.

Due to on-going and continuous quality problems encountered with Energy Laboratories, EFRI proposed contracting with another Utah-certified laboratory commencing with the first quarter 2013 sampling. Transition to the new laboratory occurred after the fourth quarter 2012 sampling event. Review of the first quarter 2013 data indicate that there are no rinsate blank sample detections and the DIFB appears to be nondetect as well. The data quality issues observed in Energy Laboratories data in previous quarters appear to have been eliminated with the change in contract laboratory. Carryover and false positive results from high concentration samples has been eliminated. This corrective action is considered effective and the corrective action report is now closed.

## **7.0 CONCLUSIONS AND RECOMMENDATIONS**

The water level contour maps for the first quarter, 2013 indicate effective capture of water containing high chloroform concentrations in the vicinity of chloroform pumping wells MW-4, MW-26, TW4-19, and TW4-20. Well-defined capture zones related to start-up of nitrate pumping wells TW4-22, TW4-24, TW4-25, and TWN-2 are not yet evident. A well-defined capture zone is also not evident at chloroform pumping well 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.

First quarter, 2013 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-4, TW4-5, TW4-6, TW4-19, TW4-21, TW4-22 and TW4-24; the concentration in well TW4-27 remained non-detect.

Of the wells showing changes in concentration greater than 20%, MW-26, and TW4-19 are chloroform pumping wells and TW4-22 and TW4-24 are nitrate pumping wells. TW4-5 and TW4-22 are located adjacent to chloroform pumping well TW4-20; TW4-21 is located between chloroform pumping well TW4-19 and nitrate pumping well TW4-25; and TW4-6 is located adjacent to chloroform pumping well TW4-4. Fluctuations in concentrations at pumping wells and wells adjacent to pumping wells likely result in part from changes in pumping at both chloroform and nitrate pumping wells. Changes in concentration at chloroform wells are also expected to result from continued operation of nitrate pumping wells as the capture zone associated with the nitrate pumping system develops and merges with the capture zone associated with the chloroform pumping system.

Between the current and previous quarters, the concentration in TW4-26, which is the most downgradient temporary well sampled, decreased slightly from 5.9 µg/L to 5 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 (18,500 µg/L) was detected at chloroform pumping well TW4-20. Since the last quarter, the chloroform concentration in TW4-20 decreased from 19,000 µg/L to 18,500 µg/L, the concentration in adjacent pumping well TW4-19 increased from 1,500 µg/L to 4,210 µg/L, and the concentration in nearby well TW4-21 decreased from 390 to 282 µg/L. The chloroform concentration in nitrate pumping well TW4-22 increased substantially from 330 µg/L to 10,600 µg/L in response to the start-up of pumping and the presence of historically high chloroform concentrations at adjacent, cross-gradient well TW4-20. Fluctuations in concentrations in wells near TW4-20 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 5.7 µg/L at TW4-24.

The chloroform concentration at well TW4-6 decreased from 8.5 µg/L to 6.9 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 operation of adjacent chloroform pumping 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 6.9 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.

Although changes in concentration have occurred in wells within the chloroform plume, the boundaries of the plume have not changed significantly since the last quarter, even under the influence of the nitrate pumping. Nitrate pumping has, however, caused the boundary of the northern portion of the chloroform plume to move slightly to the west toward TW4-24.

Continued operation of chloroform pumping wells 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. Natural attenuation is expected to effectively treat any chloroform that may exist downgradient of the

hydraulic capture associated with the chloroform pumping system. Continued operation of chloroform pumping well TW4-4 is also recommended to improve capture of chloroform to the extent practical in the southern portion of the plume. The general decrease in chloroform concentrations at TW4-6 from 1,000 µg/L to 6.9 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 May 28, 2013.

Energy Fuels Resources (USA) Inc.

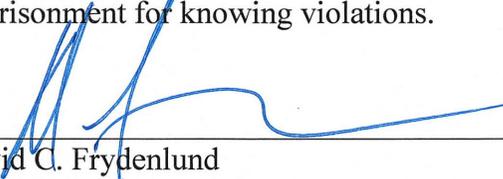
By:



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	2/11/2013	2/26/2013
TW4-01	2/13/2013	2/26/2013
TW4-02	2/13/2013	2/26/2013
TW4-03	2/7/2013	2/14/2013
TW4-03R	2/6/2013	2/14/2013
TW4-04	2/11/2013	2/26/2013
TW4-05	2/13/2013	2/26/2013
TW4-05R	2/12/2013	2/26/2013
TW4-06	2/13/2013	2/26/2013
TW4-07	2/13/2013	2/26/2013
TW4-08	2/7/2013	2/14/2013
TW4-09	2/7/2013	2/14/2013
TW4-10	2/13/2013	2/26/2013
TW4-11	2/13/2013	2/26/2013
TW4-12	2/7/2013	2/14/2013
TW4-13	2/7/2013	2/14/2013
TW4-14	2/7/2013	2/14/2013
MW-26	2/11/2013	2/26/2013
TW4-16	2/7/2013	2/14/2013
MW-32	2/13/2013	2/26/2013
TW4-18	2/13/2013	2/26/2013
TW4-19	2/11/2013	2/26/2013
TW4-20	2/11/2013	2/26/2013
TW4-21	2/13/2013	2/26/2013
TW4-22	2/11/2013	2/26/2013
TW4-23	2/7/2013	2/14/2013
TW4-24	2/11/2013	2/26/2013
TW4-25	2/11/2013	2/26/2013
TW4-26	2/7/2013	2/14/2013
TW4-27	2/7/2013	2/14/2013
TW4-60	2/14/2013	2/26/2013
TW4-65	2/7/2013	2/14/2013
TW4-70	2/13/2013	2/26/2013

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

"R" following a well number designates 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 TW4-16, and TW4-70 is a duplicate of TW4-18.

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.)	TW4-22 (lbs.)	TW4-24 (lbs.)	TW4-25 (lbs.)	Quarter Totals (lbs.)
Q1 2007*	36.8	12.9	150.2	87.0	NA	NA	NA	NA	286.9
Q2 2007	1.4	0.1	0.0	2.5	NA	NA	NA	NA	4.0
Q3 2007	2.2	0.8	2.9	3.1	NA	NA	NA	NA	9.0
Q4 2007	1.7	1.0	3.1	4.8	NA	NA	NA	NA	10.6
Q1 2008	1.7	0.4	4.6	7.2	NA	NA	NA	NA	13.8
Q2 2008	1.3	0.5	3.2	9.9	NA	NA	NA	NA	14.8
Q3 2008	1.2	0.3	15.9	9.3	NA	NA	NA	NA	26.8
Q4 2008	1.3	0.3	20.7	0.4	NA	NA	NA	NA	22.7
Q1 2009	1.7	0.4	4.3	3.6	NA	NA	NA	NA	10.0
Q2 2009	6.8	0.2	3.7	2.8	NA	NA	NA	NA	13.5
Q3 2009	1.5	0.4	11.1	5.5	NA	NA	NA	NA	18.5
Q4 2009	4.8	0.6	17.8	26.1	NA	NA	NA	NA	49.4
Q1 2010	0.9	0.4	2.7	0.4	NA	NA	NA	NA	4.5
Q2 2010	1.5	1.0	6.8	5.9	1.4	NA	NA	NA	16.5
Q3 2010	1.3	1.2	2.0	4.9	1.3	NA	NA	NA	10.6
Q4 2010	1.1	0.5	7.7	7.4	1.2	NA	NA	NA	17.9
Q1 2011	1.1	0.2	12.9	9.6	1.1	NA	NA	NA	24.9
Q2 2011	1.2	0.8	5.3	4.6	1.1	NA	NA	NA	13.1
Q3 2011	1.2	0.4	1.1	4.1	1.2	NA	NA	NA	8.1
Q4 2011	1.2	0.8	2.7	4.8	1.4	NA	NA	NA	10.9
Q1 2012	1.1	0.6	0.8	7.0	1.0	NA	NA	NA	10.5
Q2 2012	1.1	0.6	0.7	6.9	1.1	NA	NA	NA	10.4
Q3 2012	1.1	0.7	1.4	2.4	1.1	NA	NA	NA	6.7
Q4 2012	0.9	0.3	2.0	3.2	0.9	NA	NA	NA	7.3
Q1 2013	0.9	0.4	7.4	2.8	0.7	1.5	0.0	0.0	13.7
<b>Well Totals (pounds)</b>	<b>76.9</b>	<b>25.8</b>	<b>290.9</b>	<b>226.2</b>	<b>13.6</b>	<b>1.5</b>	<b>0.0</b>	<b>0.0</b>	<b>635</b>

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

**Table 3 Chloroform Well Pumping Rates and Volumes**

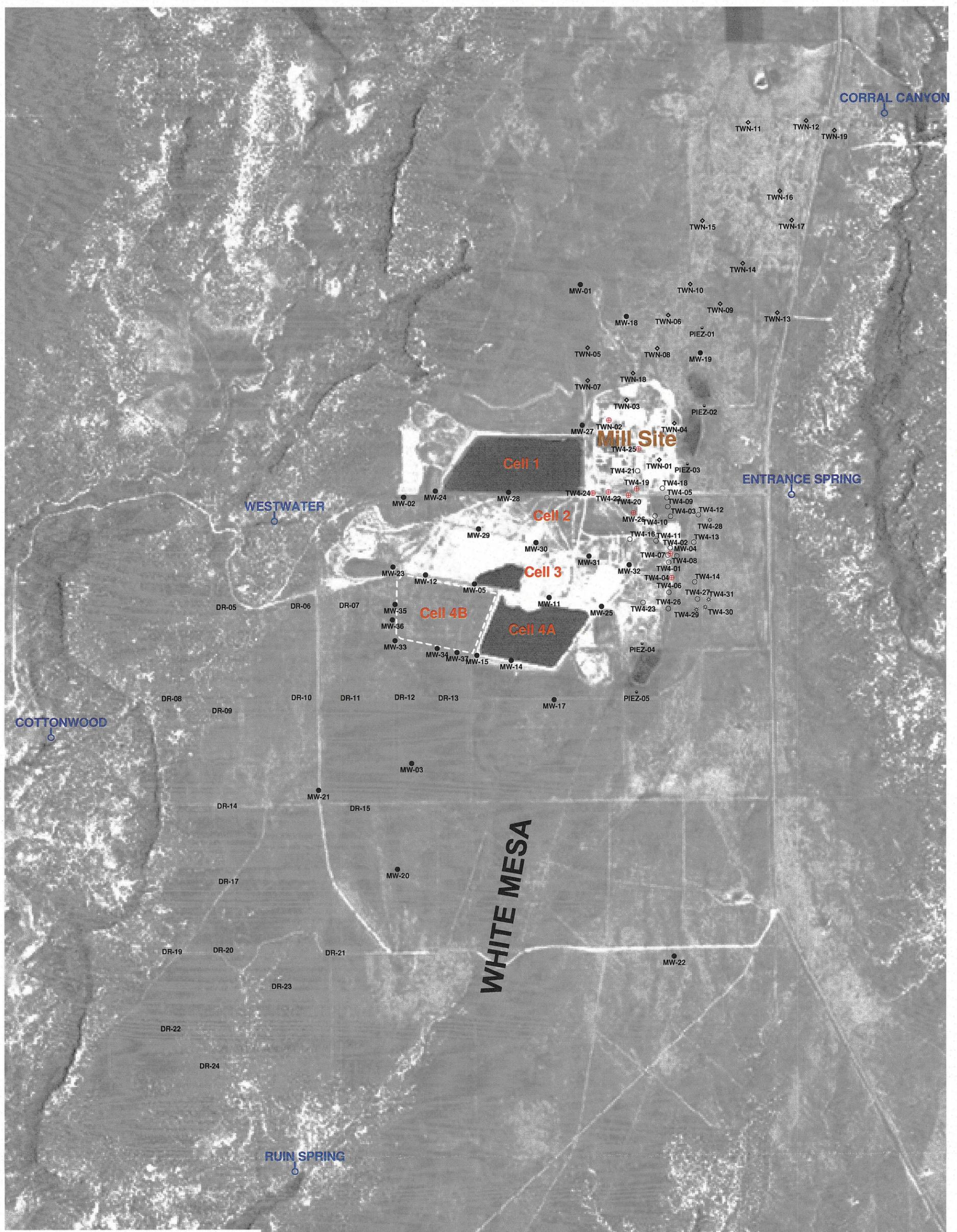
Pumping Well Name	Volume of Water Pumped during the quarter (gals)	Average Pump Rate (gpm)
MW-4	62,943.7	4.3
MW-26	22,650.7	9.9
TW4-4	58,716.8	8.3
TW4-19	210,908.0	14.0
TW4-20	18,177.0	9.7
TW4-22	16,677.4	18.1
TW4-24	144,842.6	18.1
TW4-25	99,369.9	17.9
TWN-2	31,009.4	18.7

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Tab A

Site Plan and Perched Well Locations White Mesa Site

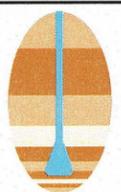


**EXPLANATION**

- TW4-19  perched chloroform or nitrate pumping well
- MW-5  perched monitoring well
- TW4-12  temporary perched monitoring well
- TWN-10  temporary perched nitrate monitoring well
- PIEZ-1  perched piezometer
- TW4-28  temporary perched monitoring well installed March, 2013
- RUIN SPRING  seep or spring



1 mile



**HYDRO  
GEO  
CHEM, INC.**

**SITE PLAN SHOWING PERCHED WELL  
AND PIEZOMETER LOCATIONS  
WHITE MESA SITE**

APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/may13/Uwelloc13.srf	A-1

Tab B

Order of Sampling and Field Data Worksheets

# Order of Contamination for 1st Quarter 2013 Chloroform Purging Event

Well	Sample time	Chloroform Levels	Rinsate date/time	Water level	Well Depth	
TW4-03	<u>2/7/13 0654</u>	ND		_____	141	TW4-03R 2/6/13 0700
TW4-12	<u>0709</u>	ND		_____	101.5	
TW4-13	<u>0718</u>	ND		_____	102.5	
TW4-14	<u>0728</u>	ND		_____	93	
MW-32	<u>2/13 @ 1500</u>	ND		_____	130.6	Bladder pump
TW4-23	<u>0746</u>	ND		_____	114	
TW4-08	<u>0754</u>	ND		_____	125	
TW4-09	<u>0800</u>	ND		_____	120	
TW4-16	<u>0808</u>	ND		_____	142	
TW4-27	<u>0737</u>	ND		_____	96	
TW4-25	<u>2/11 0850</u>	ND		_____	134.8	continuous
TW4-24	<u>2/11 0910 @ 82</u>	1		_____	112.5	continuous
TW4-26	<u><del>2/13</del> 0820</u>	6		_____	86	
TW4-05	<u>2/13 1237</u>	8		_____	120	
TW4-06	<u>2/13 1247</u>	9		_____	97.5	
TW4-18	<u>2/13 1304</u>	30		_____	137.5	
TW4-10	<u>2/13 1318</u>	140		_____	111	
TW4-22	<u>2/11 0926</u>	330		_____	113.5	continuous
TW4-21	<u>2/13 1331</u>	390		_____	121	
TW4-11	<u>2/13 1341</u>	730		_____	100	
TW4-07	<u>2/13 1349</u>	940		_____	120	
TW4-01	<u>2/13 1355</u>	1100		_____	110	
MW-26	<u>2/11 1010</u>	1200		_____	122.5	Cont. Pumping
MW-04	<u>2/11 1020</u>	1300		_____	124	Cont. Pumping
TW4-04	<u>2/11 1030</u>	1400		_____	112	Cont. Pumping
TW4-19	<u>2/11 1100</u>	1500		_____	125	Cont. Pumping
TW4-02	<u>2/13 1403</u>	3100		_____	120	
TW4-20	<u>2/11 0950</u>	19000		_____	106	Cont. Pumping

TW4-60 D.I. Blank 2/14 0805  
 TW4-65 Duplicate 16 0808  
 TW4-70 Duplicate 18 1304

Comments:

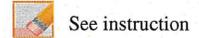
132  
71 04

Name: \_\_\_\_\_

Date: \_\_\_\_\_



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



Description of Sampling Event: 1st Quarter Chloroform 2013

Location (well name): MW-04 Sampler Name and initials: Garrin Palmer / GP

Field Sample ID: MW-04.02.11.2013

Date and Time for Purging: 02/11/2013 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: MW-26

pH Buffer 7.0: 7.0 pH Buffer 4.0: 4.0

Specific Conductance: 999  $\mu$ MHOS/cm Well Depth(0.01ft): 124

Depth to Water Before Purging: 68.50 Casing Volume (V) 4" Well: 36.24 (.653h)  
 3" Well: 0 (.367h)

Conductance (avg): 1836 pH of Water (avg): 6.98

Well Water Temp. (avg): 14.02 Redox Potential (Eh): 309 Turbidity: 2.0

Weather Cond.: Partly cloudy Ext'l Amb. Temp. °C (prior sampling event): 0°

Time	<u>1019</u>	Gal. Purged	<u>0</u>
Conductance	<u>1836</u>	pH	<u>6.98</u>
Temp. °C	<u>14.02</u>		
Redox Potential Eh (mV)	<u>309</u>		
Turbidity (NTU)	<u>2.0</u>		

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  gallon(s)

Pumping Rate Calculation

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

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

Final Depth

Sample Time

 See instruction

Comment  
 Arrived on site at 1015. Garrin and David present for sampling event. Parameters were taken and samples were collected at 1020. Water was clear. Left site at 1024.

**MW-04 02-11-2013** Do not touch this cell (SheetName)



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

See instruction

Description of Sampling Event: 1st Quarter Chloroform 2013

Location (well name): TW4-01

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-01-02132013

Date and Time for Purging: 2/12/2013

and Sampling (if different): 2/13/2013

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: TW4-11

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 999  $\mu$ MHOS/cm

Well Depth(0.01ft): 110.00

Depth to Water Before Purging: 63.97

Casing Volume (V) 4" Well: 30.05 (.653h)  
3" Well: 0 (.367h)

Conductance (avg): 2057

pH of Water (avg): 6.30

Well Water Temp. (avg): 14.51

Redox Potential (Eh): 459

Turbidity: 66

Weather Cond: Clear

Ext'l Amb. Temp. °C (prior sampling event): 0°

Time	<u>1332</u>	Gal. Purged	<u>36</u>
Conductance	<u>2059</u>	pH	<u>6.30</u>
Temp. °C	<u>14.53</u>		
Redox Potential Eh (mV)	<u>458</u>		
Turbidity (NTU)	<u>460.65</u>	<u>65</u>	

Time	<u>1333</u>	Gal. Purged	<u>48</u>
Conductance	<u>2055</u>	pH	<u>6.30</u>
Temp. °C	<u>14.51</u>		
Redox Potential Eh (mV)	<u>459</u>		
Turbidity (NTU)	<u>66</u>		

Time	<u>1334</u>	Gal. Purged	<u>60</u>
Conductance	<u>2056</u>	pH	<u>6.31</u>
Temp. °C	<u>14.52</u>		
Redox Potential Eh (mV)	<u>460</u>		
Turbidity (NTU)	<u>66</u>		

Time	<u>1335</u>	Gal. Purged	<u>72</u>
Conductance	<u>2059</u>	pH	<u>6.31</u>
Temp. °C	<u>14.51</u>		
Redox Potential Eh (mV)	<u>461</u>		
Turbidity (NTU)	<u>66.7</u>		

01-2820-1.152 - 200 QAP rev01.2 05-08-13 / Temp data-13095 - Printed: 9/27/13, 11:05 AM from 4001020010

Volume of Water Purged  gallon(s)

**Pumping Rate Calculation**

Flow Rate (Q), in gpm.

S/60 =

Time to evacuate two casing volumes (2V)

T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

Chloride

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

Final Depth

Sample Time

See instruction

**Comment**

Arrived on site at 1326 Tanner and Garrin present for purge. Purge began at 1329 Purged well for a total of 6 minutes water was murky. Purge ended at 1335. Left site at 1337.

Arrived on site at 1351. Tanner and Garrin present to collect samples. Depth to water was 64.08. samples bailed at 1355. Left site at 1357

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Volume of Water Purged  gallon(s)

Pumping Rate Calculation

66

Flow Rate (Q), in gpm.

S/60 =

Time to evacuate two casing volumes (2V)

T = 2V/Q =

Number of casing volumes evacuated (if other than two)

1.85

If well evacuated to dryness, number of gallons evacuated

66

Name of Certified Analytical Laboratory if Other Than Energy Labs

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	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

Chloride

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

Final Depth

Sample Time

See instruction

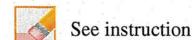
Comment

Arrived on site at 1356 Tanner and Garrin present for purge Purge began at 1359 Purged well for a total of 7 minutes and 30 seconds. Purged well dry water was a little murky. Purge ended at 1404. Left site at 1407  
 Arrived on site at 1359. Tanner and Garrin present to collect samples. Depth to water was 65.66. samples bailed at 1403. Left site at 1405

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



Description of Sampling Event: 1st Quarter Chloroform 2013

Location (well name): TW4-03 Sampler Name and initials: Tanner Holliday/TH

Field Sample ID TW4-03\_02062013. TW4-03\_02072013

Date and Time for Purging 2/6/2013 and Sampling (if different) 2/7/2013

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  $\mu$ MHOS/cm Well Depth(0.01ft): 141.00

Depth to Water Before Purging 50.30 Casing Volume (V) 4" Well: 59.22 (.653h)  
3" Well: 0 (.367h)

Conductance (avg) 1690 pH of Water (avg) 7.10

Well Water Temp. (avg) 13.16 Redox Potential (Eh) 301 Turbidity 14.5

Weather Cond. cloudy Ext'l Amb. Temp. °C (prior sampling event) 0°

Time	<u>0722</u>	Gal. Purged	<u>105</u>
Conductance	<u>1944</u>	pH	<u>6.96</u>
Temp. °C	<u>14.23</u>		
Redox Potential Eh (mV)	<u>286</u>		
Turbidity (NTU)	<u>24.5</u>		

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

Time	<u>0654</u>	Gal. Purged	
Conductance	<u>1561</u>	pH	<u>7.3</u>
Temp. °C	<u>13.12</u>		
Redox Potential Eh (mV)	<u>309</u>		
Turbidity (NTU)	<u>8.0</u>		

Time	<u>0655</u>	Gal. Purged	
Conductance	<u>1565</u>	pH	<u>7.65</u>
Temp. °C	<u>12.13</u>		
Redox Potential Eh (mV)	<u>308</u>		
Turbidity (NTU)	<u>11.2</u>		

*Before*

*After*

Volume of Water Purged Before  gallon(s) After

Pumping Rate Calculation

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

Chloride

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

Final Depth

Sample Time

 See instruction

Comment

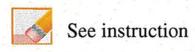
Arrived on site at 0709. Tanner and Garrin present for purge. Purge began at 0713 Purged well for a total of 8 minutes and 40 seconds. Purged well dry. water was clear. Purge ended at 0722. Left site at 0725

Arrived on site at 0650. Tanner and Garrin present to collect samples. Depth to water was 51.62. samples bailed at 0654. Left site at 0656

**TW4-03 02-06-2013** Do not touch this cell (SheetName)



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



Description of Sampling Event: 1<sup>st</sup> Quarter Chloroform 2013

Location (well name): TW4-03R Sampler Name and initials: Tanner Holliday/TH

Field Sample ID TW4-03R-02062013

Date and Time for Purging 2/6/2013 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  $\mu$ MHOS/ 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) 5.6 pH of Water (avg) 7.77

Well Water Temp. (avg) 9.54 Redox Potential (Eh) 204 Turbidity 1.0

Weather Cond. Clear Ext'l Amb. Temp. °C (prior sampling event) 0°

Time	<u>0658</u>	Gal. Purged	<u>130</u>
Conductance	<u>5.6</u>	pH	<u>7.77</u>
Temp. °C	<u>9.54</u>		
Redox Potential Eh (mV)	<u>204</u>		
Turbidity (NTU)	<u>1.0</u>		

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  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.  
 $S/60 =$   12

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

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

Final Depth

Sample Time



See instruction

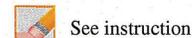
Comment

Arrived on site at 0630. Tanner and Garrin present for Rinsate  
 Rinsate began at 0645. Pumped 50 Gallons of soap water and 100 Gallons  
 of DI water. Rinsate ended and samples collected at 0700.  
 Left site at 0705

**TW4-03R 02-06-2013** Do not touch this cell (SheetName)



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



Description of Sampling Event: 1st Quarter Chloroform 2013

Location (well name): TW4-04 Sampler Name and initials: Garrin Palmer / GP

Field Sample ID: TW4-04-02112013

Date and Time for Purging: 02/11/2013 and Sampling (if different): NA NA

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: MW-04

pH Buffer 7.0: 7.0 pH Buffer 4.0: 4.0

Specific Conductance: 999  $\mu$ MHOS/ cm Well Depth(0.01ft): 112

Depth to Water Before Purging: 69.94 Casing Volume (V) 4" Well: 27.46 (.653h)  
 3" Well: 0 (.367h)

Conductance (avg): 2224 pH of Water (avg): 6.82

Well Water Temp. (avg): 14.24 Redox Potential (Eh): 370 Turbidity: 1.5

Weather Cond.: Partly Cloudy Ext'l Amb. Temp. °C (prior sampling event): 0°

Time	<u>1019</u>	Gal. Purged	<u>0</u>
	<u>1029</u>		
Conductance	<u>2224</u>	pH	<u>6.82</u>
Temp. °C	<u>14.24</u>		
Redox Potential Eh (mV)	<u>370</u>		
Turbidity (NTU)	<u>1.5</u>		

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  gallon(s)

Pumping Rate Calculation

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

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

Final Depth

Sample Time



See instruction

Comment

Arrived on site at at 1025. Garrin and David present for sampling event. Water was clear. Left site at 1036.

**TW4-04 02-11-2013** Do not touch this cell (SheetName)



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



Description of Sampling Event: 1st Quarter chloroform 2013

Location (well name): TW4-05

Sampler Name and initials: Tanner Holiday /TH

Field Sample ID: TW4-05\_02132013

Date and Time for Purging: 2/12/2013

and Sampling (if different): 2/13/2013

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: TW4-05R

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 999  $\mu$ MHOS/cm

Well Depth(0.01ft): 120.00

Depth to Water Before Purging: 57.55

Casing Volume (V) 4" Well: 40.77 (.653h)  
3" Well: 0 (.367h)

Conductance (avg): 1432

pH of Water (avg): 6.73

Well Water Temp. (avg): 14.78

Redox Potential (Eh): 413

Turbidity: 91

Weather Cond.: Clear

Ext'l Amb. Temp. °C (prior sampling event): -8<sup>2</sup>

Time	<u>0736</u>	Gal. Purged	<u>60</u>
Conductance	<u>1452</u>	pH	<u>6.73</u>
Temp. °C	<u>14.78</u>		
Redox Potential Eh (mV)	<u>413</u>		
Turbidity (NTU)	<u>90</u>		

Time	<u>0737</u>	Gal. Purged	<u>72</u>
Conductance	<u>1430</u>	pH	<u>6.73</u>
Temp. °C	<u>14.78</u>		
Redox Potential Eh (mV)	<u>413</u>		
Turbidity (NTU)	<u>91</u>		

Time	<u>0738</u>	Gal. Purged	<u>84</u>
Conductance	<u>1425</u>	pH	<u>6.73</u>
Temp. °C	<u>14.79</u>		
Redox Potential Eh (mV)	<u>414</u>		
Turbidity (NTU)	<u>91</u>		

Time	<u>0739</u>	Gal. Purged	<u>96</u>
Conductance	<u>1423</u>	pH	<u>6.73</u>
Temp. °C	<u>14.79</u>		
Redox Potential Eh (mV)	<u>414</u>		
Turbidity (NTU)	<u>93</u>		

81-2020-1110 - GH-QAP rev. 1, 06-06-11 / Template: (1209) Printed: 6/22/2012 11:04 AM from jnc3030003

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

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

Final Depth

Sample Time

See instruction

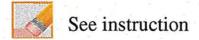
Comment

Arrived on site at 0727. Tanner and Garrin present for purge. Purge began at 0731. Purged well for a total of 8 minutes. Water was a little murky. Purge ended at 0739. Left site at 0741.

Arrived on site at 1233. Tanner and Garrin present to collect samples. Depth to water was 57.65. Samples bailed at 1237. Left site at 1239.



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



Description of Sampling Event: 1<sup>st</sup> Quarter Chloroform 2013

Location (well name): TW4-05R

Sampler Name and initials: Tanner Holliday / TH

Field Sample ID: TW4-05R-02122013

Date and Time for Purging: 2/12/2013

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  $\mu$ MHOS/ cm

Well Depth(0.01ft): 0

Depth to Water Before Purging:           

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

Conductance (avg): 30.2

pH of Water (avg):           

Well Water Temp. (avg): 11.9

Redox Potential (Eh):           

Turbidity:           

Weather Cond.: Clear

Ext'l Amb. Temp. °C (prior sampling event): -8°

Time	<u>0713</u>	Gal. Purged	<u>130</u>
Conductance	<u>30.20</u>	pH	<u>7.32</u>
Temp. °C	<u>11.92</u>		
Redox Potential Eh (mV)	<u>365</u>		
Turbidity (NTU)	<u>0</u>		

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

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

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

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.  
 $S/60 =$   12

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

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

Final Depth

Sample Time

 See instruction

Comment

Arrived on site at 05 0655. Tanner and Garrin present for Rinsate. Rinsate began at 0700. Pumped 50 Gallons soap water and 100 Gallons of DI water. Sample was taken at 0714. Left site at 0718

**TW4-05R 02-12-2013** Do not touch this cell (SheetName)



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



Description of Sampling Event: 1st Quarter Chloroform 2013

Location (well name): TW4-06 Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-06-02132013

Date and Time for Purging: 2/12/2013 and Sampling (if different): 2/13/2013

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: TW4-05

pH Buffer 7.0: 7.0 pH Buffer 4.0: 4.0

Specific Conductance: 999  $\mu$ MHOS/cm Well Depth(0.01ft): 97.50

Depth to Water Before Purging: 69.48 Casing Volume (V) 4" Well: 18.29 (.653h)  
3" Well: 0 (.367h)

Conductance (avg): 3844 pH of Water (avg): 6.55

Well Water Temp. (avg): 13.80 Redox Potential (Eh): 374 Turbidity: 180

Weather Cond.: Clear Ext'l Amb. Temp. °C (prior sampling event): -7°

Time	<u>0809</u>	Gal. Purged	<u>25</u>
Conductance	<u>3855</u>	pH	<u>6.56</u>
Temp. °C	<u>13.43</u>		
Redox Potential Eh (mV)	<u>396</u>		
Turbidity (NTU)	<u>475</u>		

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

Time	<u>1247</u>	Gal. Purged	<u>0</u>
Conductance	<u>3862</u>	pH	<u>6.59</u>
Temp. °C	<u>14.01</u>		
Redox Potential Eh (mV)	<u>373</u>		
Turbidity (NTU)	<u>21</u>		

Time	<u>1250</u>	Gal. Purged	<u>0</u>
Conductance	<u>3817</u>	pH	<u>6.50</u>
Temp. °C	<u>13.98</u>		
Redox Potential Eh (mV)	<u>353</u>		
Turbidity (NTU)	<u>44</u>		

Before

After

01-28253-3-180 - GH-QAP-REV 7.2 06-06-12 / Template-12291 - Printed 9/22/2012 12:04 PM from: PWD02000101

Volume of Water Purged  gallon(s)

**Pumping Rate Calculation**

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

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

Final Depth

Sample Time

See instruction

**Comment**

Arrived on site at 0804 Tanner and Garrin present for purge. Purge began at 0807. Purged well for a total of 2 minutes and 10 seconds. Purged well dry! water was dirty with some sand particles. Purge ended at 0809. Left site at 0811. Arrived on site at 1244. Tanner and Garrin present for to collect samples. Depth to water was 69.67. samples bailed at 1247. Left site at 1252.

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



Description of Sampling Event: 1st Quarter chloroform 2013

Location (well name): TW4-07

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-07.02132013

Date and Time for Purging: 2/12/2012 2/12/2013 and Sampling (if different): 2/13/2013

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: TW4-11

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: 65.19

Casing Volume (V) 4" Well: 35.79 (.653h)  
3" Well: 0 (.367h)

Conductance (avg): 1535

pH of Water (avg): 6.91

Well Water Temp. (avg): 14.54

Redox Potential (Eh): 341

Turbidity: 49

Weather Cond: Clear

Ext'l Amb. Temp. °C (prior sampling event): 0°

Time	<u>1301</u>	Gal. Purged	<u>36</u>
Conductance	<u>1530</u>	pH	<u>6.92</u>
Temp. °C	<u>14.52</u>		
Redox Potential Eh (mV)	<u>335</u>		
Turbidity (NTU)	<u>48.0</u>		

Time	<u>1302</u>	Gal. Purged	<u>48</u>
Conductance	<u>1533</u>	pH	<u>6.91</u>
Temp. °C	<u>14.52</u>		
Redox Potential Eh (mV)	<u>339</u>		
Turbidity (NTU)	<u>49.0</u>		

Time	<u>1303</u>	Gal. Purged	<u>60</u>
Conductance	<u>1535</u>	pH	<u>6.91</u>
Temp. °C	<u>14.52</u>		
Redox Potential Eh (mV)	<u>343</u>		
Turbidity (NTU)	<u>49.5</u>		

Time	<u>1304</u>	Gal. Purged	<u>72</u>
Conductance	<u>1543</u>	pH	<u>6.90</u>
Temp. °C	<u>14.61</u>		
Redox Potential Eh (mV)	<u>349</u>		
Turbidity (NTU)	<u>49.8</u>		

01-2825-1-100 - 04-QAP rev 2.06.06.11 / Template - (104) Printed: 4/23/2012 11:05 AM From: UNCR0000019

Volume of Water Purged  gallon(s)

**Pumping Rate Calculation**

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

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

Final Depth

Sample Time

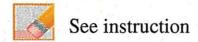
See instruction

**Comment**

Arrived on site at 1255 Tanner and Garrin present for purge. Purge began at 1258  
Purged well for a total of 6 minutes. water was clear. Purge ended at 1304  
Left site at 1306  
Arrived on site at 1345. Tanner and Garrin present to collect samples. Depth to water was 65.95. Samples bailed at 1349. Left site at 1351



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



Description of Sampling Event: 1st Quarter Chloroform 2013

Location (well name): TW4-08 Sampler Name and initials: Tanner Holliday / TH

Field Sample ID: TW4-08-02072013

Date and Time for Purging: 2/6/2013 and Sampling (if different): 2/7/2013

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  $\mu$ MHOS/ cm Well Depth(0.01ft): 125.00

Depth to Water Before Purging: 65.02 Casing Volume (V) 4" Well: 39.16 (.653h)  
 3" Well: 0 (.367h)

Conductance (avg): 3188 pH of Water (avg): 7.03

Well Water Temp. (avg): 14.69 Redox Potential (Eh): 201 Turbidity: 71

Weather Cond.: Partly Cloudy Ext'l Amb. Temp. °C (prior sampling event): 3°

Time	<u>1051</u>	Gal. Purged	<u>48</u>
Conductance	<u>3190</u>	pH	<u>7.03</u>
Temp. °C	<u>14.69</u>		
Redox Potential Eh (mV)	<u>204</u>		
Turbidity (NTU)	<u>69</u>		

Time	<u>1052</u>	Gal. Purged	<u>60</u>
Conductance	<u>3188</u>	pH	<u>7.04</u>
Temp. °C	<u>14.69</u>		
Redox Potential Eh (mV)	<u>203</u>		
Turbidity (NTU)	<u>71</u>		

Time	<u>1053</u>	Gal. Purged	<u>72</u>
Conductance	<u>3191</u>	pH	<u>7.04</u>
Temp. °C	<u>14.69</u>		
Redox Potential Eh (mV)	<u>199</u>		
Turbidity (NTU)	<u>71</u>		

Time	<u>1054</u>	Gal. Purged	<u>84</u>
Conductance	<u>3185</u>	pH	<u>7.04</u>
Temp. °C	<u>14.69</u>		
Redox Potential Eh (mV)	<u>198</u>	<u>198</u>	
Turbidity (NTU)	<u>73</u>		

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

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

Final Depth

Sample Time

 See instruction

Comment

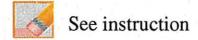
Arrived on site at 1044 Tanner and Garrin present for purge. Purge began at 1047 Purged well for a total of 7 minutes. water was a little murky. Purge ended at 1054. Left site at 1057

Arrived on site at 0750. Tanner and Garrin present to collect samples. Depth to water was 65.52. samples bailed at 0754. Left site at 0756

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



Description of Sampling Event: 1<sup>st</sup> Quarter Chloroform 2013

Location (well name): TW4-09

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-09\_0207 2013

Date and Time for Purging: 2/6/2013

and Sampling (if different): 2/7/2013

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  $\mu$ MHOS/ cm

Well Depth(0.01ft): 120.00

Depth to Water Before Purging: 55.12

Casing Volume (V) 4" Well: 42.36 (.653h)  
 3" Well: 0 (.367h)

Conductance (avg): 2237

pH of Water (avg): 6.64

Well Water Temp. (avg): 14.68

Redox Potential (Eh): 302

Turbidity: 92

Weather Cond.: Cloudy

Ext'l Amb. Temp. °C (prior sampling event): 5°

Time	<u>1224</u>	Gal. Purged	<u>6</u>
Conductance	<u>2233</u>	pH	<u>6.64</u>
Temp. °C	<u>14.69</u>		
Redox Potential Eh (mV)	<u>302</u>		
Turbidity (NTU)	<u>91</u>		

Time	<u>1225</u>	Gal. Purged	<u>72</u>
Conductance	<u>2237</u>	pH	<u>6.64</u>
Temp. °C	<u>14.68</u>		
Redox Potential Eh (mV)	<u>302</u>		
Turbidity (NTU)	<u>90</u>		

Time	<u>1226</u>	Gal. Purged	<u>84</u>
Conductance	<u>2237</u>	pH	<u>6.64</u>
Temp. °C	<u>14.68</u>		
Redox Potential Eh (mV)	<u>302</u>		
Turbidity (NTU)	<u>93</u>		

Time	<u>1227</u>	Gal. Purged	<u>96</u>
Conductance	<u>2241</u>	pH	<u>6.64</u>
Temp. °C	<u>14.68</u>		
Redox Potential Eh (mV)	<u>302</u>		
Turbidity (NTU)	<u>93</u>		

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

Chloride

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

Final Depth

Sample Time

 See instruction

Comment

Arrived on site at 1215. Tanner and Garrin present for purge. Purge began at 1219 Purged well for a total of minutes. 8 minutes. water was murky. Purge ended at 1227. Left site at 1229  
 Arrived on site at 0757. Tanner and Garrin present to collect samples. Depth to water was 55.35. Samples bailed at 0800. Left site at 0802

**TW4-09 02-06-2013** Do not touch this cell (SheetName)



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



Description of Sampling Event: 1st Quarter Chloroform 2013

Location (well name): TW4-10

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-10-0213 2013

Date and Time for Purging: 2/12/2013

and Sampling (if different): 2/13/2013

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: TW4-18

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 999  $\mu$ MHOS/cm

Well Depth(0.01ft): 111.00

Depth to Water Before Purging: 56.25

Casing Volume (V) 4" Well: 35.75 (.653h)  
3" Well: 0 (.367h)

Conductance (avg): 2354

pH of Water (avg): 6.70

Well Water Temp. (avg): 14.17

Redox Potential (Eh): 365

Turbidity: 25.83

Weather Cond.: Clear

Ext'l Amb. Temp. °C (prior sampling event): -5°

Time	<u>0917</u>	Gal. Purged	<u>54</u>
Conductance	<u>2333</u>	pH	<u>6.67</u>
Temp. °C	<u>14.44</u>		
Redox Potential Eh (mV)	<u>417</u>		
Turbidity (NTU)	<u>62</u>		

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

Time	<u>1318</u>	Gal. Purged	<u>0</u>
Conductance	<u>2372</u>	pH	<u>6.73</u>
Temp. °C	<u>14.01</u>		
Redox Potential Eh (mV)	<u>334</u>		
Turbidity (NTU)	<u>7.7</u>		

Time	<u>1320</u>	Gal. Purged	<u>0</u>
Conductance	<u>2359</u>	pH	<u>6.72</u>
Temp. °C	<u>14.07</u>		
Redox Potential Eh (mV)	<u>344</u>		
Turbidity (NTU)	<u>7.8</u>		

Before

After

01-2029-1.114 - 06-QAP rev 7.2 06-06-12 / Temp. Acc: (1.00) - Printed: 6/23/2012 12:04 PM from: MCHS080603

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologies	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

If preservative is used, specify Type and Quantity of Preservative

Final Depth   
 109.73

Sample Time

See instruction

Comment  
 Arrived on site at 0911 Tanner and Garrin present for purge. Purge began at 0913  
 Purged well for a total of 54 4 minutes and 30 seconds. Purged well dry  
 water was clear. Purge ended at 0917. Left site at 0919  
 Arrived on site at 1314. Tanner and Garrin present to collect samples. Depth to water  
 was 56.41. Samples bailed at 1318. Left site at 1320



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

See instruction

Description of Sampling Event: 1<sup>st</sup> Quarter Chloroform 2013

Location (well name): TW4-11 Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-11\_02132013

Date and Time for Purging: 2/12/2013 and Sampling (if different): 2/13/2013

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: TW4-21

pH Buffer 7.0: 7.0 pH Buffer 4.0: 4.0

Specific Conductance: 999  $\mu$ MHOS/cm Well Depth(0.01ft): 100.00

Depth to Water Before Purging: 56.85 Casing Volume (V) 4" Well: 28.17 (.653h)  
 3" Well: 0 (.367h)

Conductance (avg): 1562 pH of Water (avg): 6.71

Well Water Temp. (avg): 14.06 Redox Potential (Eh): 493 Turbidity: 7.7

Weather Cond.: Clear Ext'l Amb. Temp. °C (prior sampling event): -4°

Time	<u>1229</u>	Gal. Purged	<u>36</u>
Conductance	<u>1563</u>	pH	<u>6.71</u>
Temp. °C	<u>14.05</u>		
Redox Potential Eh (mV)	<u>490</u>		
Turbidity (NTU)	<u>7.6</u>		

Time	<u>1230</u>	Gal. Purged	<u>48</u>
Conductance	<u>1561</u>	pH	<u>6.71</u>
Temp. °C	<u>14.04</u>		
Redox Potential Eh (mV)	<u>492</u>		
Turbidity (NTU)	<u>7.8</u>		

Time	<u>1231</u>	Gal. Purged	<u>60</u>
Conductance	<sup>1231</sup> <u>1565</u>	pH	<u>6.71</u>
Temp. °C	<u>14.05</u>		
Redox Potential Eh (mV)	<u>495</u>		
Turbidity (NTU)	<u>7.8</u>		

Time	<u>1232</u>	Gal. Purged	<u>72</u>
Conductance	<u>1562</u>	pH	<u>6.73</u>
Temp. °C	<u>14.11</u>		
Redox Potential Eh (mV)	<u>497</u>		
Turbidity (NTU)	<u>7.9</u>		

81.1222-3.188 - 06-000 Rev. 2.06.02 / Worksheet (110) - Printed: 8/22/2012 12:04 PM from: AKUSIB0013

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

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

Final Depth

Sample Time

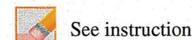
See instruction

Comment

Arrived on site at 1223 Tanner and Garrin present for purge. Purge began at 1226 Purged well for a total of 6 minutes water was clear. Purge ended at 1232. Left site at 1234.  
 Arrived on site at 1337. Tanner and Garrin present to collect samples. Depth to water was 57.55 samples bailed at 1341. Left site at 1343



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



Description of Sampling Event: 1st Quarter Chloroform

Location (well name): TW4-12 Sampler Name and initials: Tanner Holliday / TH

Field Sample ID: TW4-12\_02072013

Date and Time for Purging: 2/6/2013 and Sampling (if different): 2/7/2013

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: TW4-03

pH Buffer 7.0: 7.0 pH Buffer 4.0: 4.0

Specific Conductance: 999  $\mu$ MHOS/cm Well Depth(0.01ft): 101.50

Depth to Water Before Purging: 41.20 Casing Volume (V) 4" Well: 39.37 (.653h)  
 3" Well: 0 (.367h)

Conductance (avg): 1057 pH of Water (avg): 7.23

Well Water Temp. (avg): 14.53 Redox Potential (Eh): 291 Turbidity: 8.9

Weather Cond.: Partly cloudy Ext'l Amb. Temp. °C (prior sampling event): 0°

Time	<u>0758</u>	Gal. Purged	<u>48</u>
Conductance	<u>1055</u>	pH	<u>7.23</u>
Temp. °C	<u>14.54</u>		
Redox Potential Eh (mV)	<u>291</u>		
Turbidity (NTU)	<u>9.1</u>		

Time	<u>0759</u>	Gal. Purged	<u>60</u>
Conductance	<u>1058</u>	pH	<u>7.24</u>
Temp. °C	<u>14.54</u>		
Redox Potential Eh (mV)	<u>291</u>		
Turbidity (NTU)	<u>9.0</u>		

Time	<u>0800</u>	Gal. Purged	<u>72</u>
Conductance	<u>1058</u>	pH	<u>7.24</u>
Temp. °C	<u>14.53</u>		
Redox Potential Eh (mV)	<u>291</u>		
Turbidity (NTU)	<u>8.8</u>		

Time	<u>0801</u>	Gal. Purged	<u>89</u>
Conductance	<u>1057</u>	pH	<u>7.24</u>
Temp. °C	<u>14.52</u>		
Redox Potential Eh (mV)	<u>291</u>		
Turbidity (NTU)	<u>8.7</u>		

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

*Chloride*

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

Final Depth

Sample Time

 See instruction

Comment

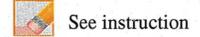
Arrived on site at 0750. Tanner and Garrin present for purge. purge began at 0754  
 Purged well for a total of 7 minutes. water was clear. Purge ended at 0801  
 Left site at 0803

Arrived on site at 0705. Tanner and Garrin present to collect samples. Depth to water was 41.35. Samples bailed at 0709. Left site at 0711

**TW4-12 02-06-2013** Do not touch this cell (SheetName)



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



Description of Sampling Event: 15<sup>th</sup> Quarter Chloroform 2013

Location (well name): TW4-13 Sampler Name and initials: Tanner Holliday/TH

Field Sample ID TW4-13\_02072013

Date and Time for Purging 2/6/2013 and Sampling (if different) 2/7/2013

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  $\mu$ MHOS/ cm Well Depth(0.01ft): 102.50

Depth to Water Before Purging 46.45 Casing Volume (V) 4" Well: 36.60 (.653h)  
 3" Well: 0 (.367h)

Conductance (avg) 1596 pH of Water (avg) 7.26

Well Water Temp. (avg) 12.15 Redox Potential (Eh) 319 Turbidity 24.23

Weather Cond. Partly cloudy Ext'l Amb. Temp. °C (prior sampling event) 0°

Time	<u>0833</u>	Gal. Purged	<u>78</u> <u>63</u>
Conductance	<u>1620</u>	pH	<u>7.13</u>
Temp. °C	<u>14.60</u>		
Redox Potential Eh (mV)	<u>311</u>		
Turbidity (NTU)	<u>50.3</u>		

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

Time	<u>0718</u>	Gal. Purged	
Conductance	<u>1577</u>	pH	<u>7.36</u>
Temp. °C	<u>10.91</u>		
Redox Potential Eh (mV)	<u>325</u>		
Turbidity (NTU)	<u>9.3</u>		

Time	<u>0720</u>	Gal. Purged	
Conductance	<u>1593</u>	pH	<u>7.29</u>
Temp. °C	<u>10.95</u>		
Redox Potential Eh (mV)	<u>323</u>		
Turbidity (NTU)	<u>13.1</u>		

Volume of Water Purged Before 78. gallon(s) After  
63

Pumping Rate Calculation

Flow Rate (Q), in gpm.  
 S/60 = 12

Time to evacuate two casing volumes (2V)  
 T = 2V/Q = 6.10

Number of casing volumes evacuated (if other than two) 1.72

If well evacuated to dryness, number of gallons evacuated 78. 63

Name of Certified Analytical Laboratory if Other Than Energy Labs AWAL

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	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

Chloride

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

Final Depth 100.25

Sample Time 0718

See instruction

Comment

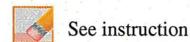
Arrived on site at 0825. Tanner and Garrin present for purge. Purge began at 0828. Purged well for a total of 5 minutes and 15 seconds. Purged well dry. water was a little murky. Purge ended at 0833. Left site at 0835.

Arrived on site at 0713. Tanner and Garrin present to collect samples. Depth to water was 46.85 samples bailed at 0718. Left site at 0720

TW4-13 02-06-2013 Do not touch this cell (SheetName)



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



Description of Sampling Event: 1st Quarter Chloroform 2013

Location (well name): TW4-14

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-14\_02072013

Date and Time for Purging: 2/6/2013

and Sampling (if different): 2/7/2013

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  $\mu$ MHOS/cm

Well Depth(0.01ft): 93.00

Depth to Water Before Purging: 43.00  
86.07

Casing Volume (V) 4" Well: 4.52 (.653h)  
 3" Well: 0 (.367h)

Conductance (avg): 3694

pH of Water (avg): 7.20

Well Water Temp. (avg): 12.35

Redox Potential (Eh): 339

Turbidity: 40.50

Weather Cond.: Partly cloudy

Ext'l Amb. Temp. °C (prior sampling event): 0°

Time	<u>0903</u>	Gal. Purged	<u>6</u>
Conductance	<u>3883</u>	pH	<u>6.98</u>
Temp. °C	<u>13.01</u>		
Redox Potential Eh (mV)	<u>336</u>		
Turbidity (NTU)	<u>60</u>		

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

Time	<u>0728</u>	Gal. Purged	
Conductance	<u>3550</u>	pH	<u>7.34</u>
Temp. °C	<u>12.01</u>		
Redox Potential Eh (mV)	<u>342</u>		
Turbidity (NTU)	<u>16.4</u>		

Time	<u>0730</u>	Gal. Purged	
Conductance	<u>3649</u>	pH	<u>7.29</u>
Temp. °C	<u>12.03</u>		
Redox Potential Eh (mV)	<u>340</u>		
Turbidity (NTU)	<u>45.3</u>		

Volume of Water Purged Before  gallon(s) After

Pumping Rate Calculation

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

Chloride

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

Final Depth

Sample Time

 See instruction

Comment

Arrived on site at 0901. Tanner and Garrin Present for purge. Purge began at 0903  
 Purged well for a total of 30 seconds. Purged well dry. water was murky.  
 Purge ended at 0904. Left site at 0906  
 Arrived on site at 0722. Tanner and Garrin present to collect samples. Depth To water was 86.60. Samples bailed at 0728. Left site at 0730

**TW4-14 02-06-2013** Do not touch this cell (SheetName)



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



Description of Sampling Event: 1st Quarter Chloroform 2013

Location (well name): MW-26 Sampler Name and initials: Garrin Palmer / GP

Field Sample ID MW-26-02112013

Date and Time for Purging 02/11/2013 and Sampling (if different) NA

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 TW4-20

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 999  $\mu$ MHOS/cm Well Depth(0.01ft): 122.5

Depth to Water Before Purging 58.17 Casing Volume (V) 4" Well: 42.00 (.653h)  
3" Well: 0 (.367h)

Conductance (avg) 3300 pH of Water (avg) 6.79

Well Water Temp. (avg) 13.59 Redox Potential (Eh) 311 Turbidity 2.1

Weather Cond. Partly cloudy Ext'l Amb. Temp. °C (prior sampling event) 0°

Time	<u>1009</u>	Gal. Purged	<u>0</u>
Conductance	<u>3300</u>	pH	<u>6.79</u>
Temp. °C	<u>13.59</u>		
Redox Potential Eh (mV)	<u>311</u>		
Turbidity (NTU)	<u>2.1</u>		

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)			

03-2229-3-1558 - 08-03P rev07 2-06-08 12 - 08-13-08-12331 - 19/22/2002 10:51 AM Form TR000006039

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologies	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

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

Final Depth

Sample Time

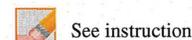
 See instruction

Comment

Arrived on site at 1000. Garrix and David Present for sampling event. Parameters were taken and samples were collected at 1010. Water was clear. Left site at 1014.



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



Description of Sampling Event: 1<sup>st</sup> Quarter Chloroform 2013

Location (well name): TW4-16

Sampler Name and initials: Tanner Holliday TH

Field Sample ID: TW4-16\_02072013

Date and Time for Purging: 2/6/2013

and Sampling (if different): 2/7/2013

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: TW4-09

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 999  $\mu$ MHOS/cm

Well Depth(0.01ft): 142.00

Depth to Water Before Purging: 58.75

Casing Volume (V) 4" Well: 54.36 (.653h)  
 3" Well: 0 (.367h)

Conductance (avg): 3378

pH of Water (avg): 6.66

Well Water Temp. (avg): 14.52

Redox Potential (Eh): 129

Turbidity: 95

Weather Cond.: Cloudy

Ext'l Amb. Temp. °C (prior sampling event): 6°

Time	<u>1259</u>	Gal. Purged	<u>96</u>
Conductance	<u>3382</u>	pH	<u>6.60</u>
Temp. °C	<u>14.51</u>		
Redox Potential Eh (mV)	<u>124</u>		
Turbidity (NTU)	<u>91</u>		

Time	<u>1300</u>	Gal. Purged	<u>108</u>
Conductance	<u>3378</u>	pH	<u>6.61</u>
Temp. °C	<u>14.51</u>		
Redox Potential Eh (mV)	<u>129</u>		
Turbidity (NTU)	<u>95</u>		

Time	<u>1301</u>	Gal. Purged	<u>120</u>
Conductance	<u>3378</u>	pH	<u>6.61</u>
Temp. °C	<u>14.53</u>		
Redox Potential Eh (mV)	<u>131</u>		
Turbidity (NTU)	<u>97</u>		

Time	<u>1302</u>	Gal. Purged	<u>132</u>
Conductance	<u>3379</u>	pH	<u>6.61</u>
Temp. °C	<u>14.54</u>		
Redox Potential Eh (mV)	<u>132</u>		
Turbidity (NTU)	<u>99</u>		

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

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

Final Depth

Sample Time

 See instruction

Comment  
 Arrived on site at 1247 Tanner and Garrin present for purge. Purge began at 1251  
 Purged well for a total of 11 minutes. water was murky. Purge ended at 1302.  
 Left site at 1304  
 Arrived on site at 0803. Tanner and Garrin present to collect samples. Depth to water was 59.54. Samples bailed at 0808. Left site at 0810

**TW4-16 02-06-2013** Do not touch this cell (SheetName)



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

See instruction

Description of Sampling Event: 1<sup>st</sup> Quarter Chloroform 2013

Location (well name): MW-32

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: MW-32-02132013

Date and Time for Purging: 2/13/2013

and Sampling (if different): N/A

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: TW4-02

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 999  $\mu$ MHOS/cm

Well Depth(0.01ft): 132.50

Depth to Water Before Purging: 74.69

Casing Volume (V) 4" Well: 37.74 (.653h)  
3" Well: 0 (.367h)

Conductance (avg): 3742

pH of Water (avg): 6.47

Well Water Temp. (avg): 14.01

Redox Potential (Eh): 295

Turbidity: 10.1

Weather Cond.: Clear

Ext'l Amb. Temp. °C (prior sampling event): -8°

Time	<u>1455</u>	Gal. Purged	<u>77.03</u>
Conductance	<u>3744</u>	pH	<u>6.48</u>
Temp. °C	<u>14.01</u>		
Redox Potential Eh (mV)	<u>298</u>		
Turbidity (NTU)	<u>9.9</u>		

Time	<u>1456</u>	Gal. Purged	<u>77.25</u>
Conductance	<u>3743</u>	pH	<u>6.48</u>
Temp. °C	<u>14.02</u>		
Redox Potential Eh (mV)	<u>296</u>		
Turbidity (NTU)	<u>10.1</u>		

Time	<u>1457</u>	Gal. Purged	<u>77.46</u>
Conductance	<u>3740</u>	pH	<u>6.48</u>
Temp. °C	<u>14.02</u>		
Redox Potential Eh (mV)	<u>295</u>		
Turbidity (NTU)	<u>10.3</u>		

Time	<u>1458</u>	Gal. Purged	<u>77.68</u>
Conductance	<u>3741</u>	pH	<u>6.47</u>
Temp. °C	<u>14.02</u>		
Redox Potential Eh (mV)	<u>294</u>		
Turbidity (NTU)	<u>10.3</u>		

82.2222.1.1.96 - 09-010 - rev. 2.04.05.12 / Replace (107) Printed: 9/22/2012 11:05 AM from: 000000038

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

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

Final Depth

Sample Time

 See instruction

Comment

Arrived on site at 0855. Tanner and Garin present for purge and sampling event. Purge began at 0900. Purged well for a total of 360 minutes. water was mostly clear. Purge ended and samples collected at 1500. Left site at 1505.

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



Description of Sampling Event: 1st Quarter chloroform 2013

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

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-18\_02132013

Date and Time for Purging: 2/12/2013

and Sampling (if different): 2/13/2013

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: TW4-06

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 999  $\mu$ MHOS/cm

Well Depth(0.01ft): 137.50

Depth to Water Before Purging: 58.90

Casing Volume (V) 4" Well: 51.32 (.653h)  
3" Well: 0 (.367h)

Conductance (avg): 2012

pH of Water (avg): 6.41

Well Water Temp. (avg): 15.02

Redox Potential (Eh): 441

Turbidity: 342

Weather Cond.: Clear

Ext'l Amb. Temp. °C (prior sampling event): -5°

Time	<u>0844</u>	Gal. Purged	<u>84</u>
Conductance	<u>2041</u>	pH	<u>6.41</u>
Temp. °C	<u>15.03</u>		
Redox Potential Eh (mV)	<u>441</u>		
Turbidity (NTU)	<u>329</u>		

Time	<u>0845</u>	Gal. Purged	<u>96</u>
Conductance	<u>2023</u>	pH	<u>6.41</u>
Temp. °C	<u>15.02</u>		
Redox Potential Eh (mV)	<u>441</u>		
Turbidity (NTU)	<u>336</u>		

Time	<u>0846</u>	Gal. Purged	<u>108</u>
Conductance	<u>2005</u>	pH	<u>6.41</u>
Temp. °C	<u>15.02</u>		
Redox Potential Eh (mV)	<u>441</u>		
Turbidity (NTU)	<u>349</u>		

Time	<u>0847</u>	Gal. Purged	<u>120</u>
Conductance	<u>1981</u>	pH	<u>6.41</u>
Temp. °C	<u>15.02</u>		
Redox Potential Eh (mV)	<u>441</u>		
Turbidity (NTU)	<u>355</u>		

01/2012 - 1182 - DR QAP REV 7.06.06.12 / Template (1100) Printed 9/22/2012 11:04 PM From MWUR001013

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm

S/60 =

Time to evacuate two casing volumes (2V)

T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

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

Final Depth

Sample Time

See instruction

Comment

Arrived on site at 0833 Tanner and Garrin present for purge. Purge began at 0837 Purged well for a total of 10 minutes. water was really murky. Purge ended at 0847. Purg left site at 0850  
Arrived on site at 1300. Tanner and Garrin present to collect samples. Depth to water was 58.19 samples bailed at 1304. Left site at 1307



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

See instruction

Description of Sampling Event: 1st Quarter chloroform 2013

Location (well name): TW4-19 Sampler Name and initials: Garrin Palmer / GP

Field Sample ID: TW4-19-02112013

Date and Time for Purging: 02/11/2013 and Sampling (if different): NA

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: TW4-04

pH Buffer 7.0: 7.0 pH Buffer 4.0: 4.0

Specific Conductance: 999  $\mu$ MHOS/cm Well Depth(0.01ft): 125

Depth to Water Before Purging: 58.65 Casing Volume (V) 4" Well: 43.32 (.653h)  
3" Well: 0 (.367h)

Conductance (avg): 2820 pH of Water (avg): 6.80

Well Water Temp. (avg): 14.14 Redox Potential (Eh): 340 Turbidity: 60.3

Weather Cond.: Partly Cloudy Ext'l Amb. Temp. °C (prior sampling event): -1°

Time	<u>1059</u>	Gal. Purged	<u>0</u>
Conductance	<u>2820</u>	pH	<u>6.80</u>
Temp. °C	<u>14.14</u>		
Redox Potential Eh (mV)	<u>340</u>		
Turbidity (NTU)	<u>60.3</u>		

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)			

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Volume of Water Purged  gallon(s)

Pumping Rate Calculation

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

If preservative is used, specify Type and Quantity of Preservative

Final Depth

Sample Time

See instruction

Comment

Arrived on site at 1055. Garrin and David present for sampling event. Parameters were taken and samples were collected at 1100. Left site at 1105. Water was a little dirty and a light brown color.



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

See instruction

Description of Sampling Event: 1st Quarter Chloroform 2013

Location (well name): TW4-20 Sampler Name and initials: Garrin Palmer / GP

Field Sample ID: TW4-20-02112013

Date and Time for Purging: 02/11/2013 and Sampling (if different): NA

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: TW4-22

pH Buffer 7.0: 7.0 pH Buffer 4.0: 4.0

Specific Conductance: 999 µMHOS/cm Well Depth(0.01ft): 106

Depth to Water Before Purging: 56.78 Casing Volume (V) 4" Well: 32.14 (.653h)  
3" Well: 0 (.367h)

Conductance (avg): 3584 pH of Water (avg): 6.62

Well Water Temp. (avg): 14.08 Redox Potential (Eh): 356 Turbidity: 8.0

Weather Cond.: Partly Cloudy Ext'l Amb. Temp. °C (prior sampling event): 0°

Time	<u>0949</u>	Gal. Purged	<u>0</u>
Conductance	<u>3584</u>	pH	<u>6.62</u>
Temp. °C	<u>14.08</u>		
Redox Potential Eh (mV)	<u>356</u>		
Turbidity (NTU)	<u>8.0</u>		

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)			

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Volume of Water Purged  gallon(s)

Pumping Rate Calculation

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

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

Final Depth

Sample Time

See instruction

Comment

Arrived on site at 0945. Garrin and David present for sampling event. Parameters were taken and samples collected at 0950. Water was clear. Left site at 0958.

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

See instruction

Description of Sampling Event: 1st Quarter Chloroform 2013

Location (well name): TW4-21 Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-21-02132013

Date and Time for Purging: 2/12/2013 and Sampling (if different): 2/13/2013

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: TW4-10

pH Buffer 7.0: 7.0 pH Buffer 4.0: 4.0

Specific Conductance: 999  $\mu$ MHOS/cm Well Depth(0.01ft): 121.00

Depth to Water Before Purging: 56.18 Casing Volume (V) 4" Well: 4232 (.653h)  
3" Well: 0 (.367h)

Conductance (avg): 3508 pH of Water (avg): 6.91

Well Water Temp. (avg): 15.68 Redox Potential (Eh): 442 Turbidity: 10.4

Weather Cond.: Clear Ext'l Amb. Temp. °C (prior sampling event): -4°

Time	<u>1003</u>	Gal. Purged	<u>72</u>
Conductance	<u>3494</u>	pH	<u>6.91</u>
Temp. °C	<u>15.67</u>		
Redox Potential Eh (mV)	<u>442</u>		
Turbidity (NTU)	<u>10.5</u>		

Time	<u>1004</u>	Gal. Purged	<u>84</u>
Conductance	<u>3504</u>	pH	<u>6.91</u>
Temp. °C	<u>15.66</u>		
Redox Potential Eh (mV)	<u>442</u>		
Turbidity (NTU)	<u>10.5</u>		

Time	<u>1005</u>	Gal. Purged	<u>96</u>
Conductance	<u>3511</u>	pH	<u>6.91</u>
Temp. °C	<u>15.69</u>		
Redox Potential Eh (mV)	<u>442</u>		
Turbidity (NTU)	<u>10.5</u>		

Time	<u>1006</u>	Gal. Purged	<u>108</u>
Conductance	<u>3525</u>	pH	<u>6.91</u>
Temp. °C	<u>15.71</u>		
Redox Potential Eh (mV)	<u>443</u>		
Turbidity (NTU)	<u>10.2</u>		

93-2299-1-186 GH-QAP rev7.1 06/06/12 / Template-1107 Printed: 9/22/2012 12:04 PM from INCD000028

Volume of Water Purged  gallon(s)

**Pumping Rate Calculation**

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

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

Final Depth

Sample Time

See instruction

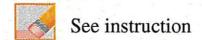
Comment

Arrived on site at 0953 Tanner and Garrin present for purge. Purge began at 0957 Purged well for a total of 9 minutes, water was clear. Purge ended at 1006 Left site at 1008

Arrived on site at 1327 Tanner and Garrin present to collect samples. Depth to water was 55.70 samples bailed at 1331. Left site at 1333



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



Description of Sampling Event: 1st Quarter Chloroform 2013

Location (well name): TW4-22 Sampler Name and initials: Garrin Palmer / GP

Field Sample ID: TW4-22.02112013

Date and Time for Purging: 02/11/2013 and Sampling (if different): NA

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: TW4-24

pH Buffer 7.0: 7.0 pH Buffer 4.0: 4.0

Specific Conductance: 999  $\mu$ MHOS/cm Well Depth(0.01ft): 113.5

Depth to Water Before Purging: 54.53 Casing Volume (V) 4" Well: 38.50 (.653h)  
 3" Well: 0 (.367h)

Conductance (avg): 5881 pH of Water (avg): 6.80

Well Water Temp. (avg): 13.59 Redox Potential (Eh): 412 Turbidity: 1.8

Weather Cond.: Cloudy Ext'l Amb. Temp. °C (prior sampling event): 0°

Time	<u>0925</u>	Gal. Purged	<u>0</u>
Conductance	<u>5881</u>	pH	<u>6.80</u>
Temp. °C	<u>13.59</u>		
Redox Potential Eh (mV)	<u>412</u>		
Turbidity (NTU)	<u>1.8</u>		

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  gallon(s)

Pumping Rate Calculation

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

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

Final Depth

Sample Time

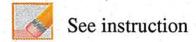
 See instruction

Comment  
 Arrived on site at 0920. Garrin and David present for sampling event. Parameters were taken and samples were collected at 0926. Water was clear. Left site 0940.

**TW4-22 02-11-2013** Do not touch this cell (SheetName)



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



Description of Sampling Event: 1st Quarter Chloroform 2013

Location (well name): TW4-23

Sampler Name and initials: Tanner Holliday TH

Field Sample ID: TW4-23-02072013

Date and Time for Purging: 2/6/2013

and Sampling (if different): 2/7/2013

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  $\mu$ MHOS/cm

Well Depth(0.01ft): 114.00

Depth to Water Before Purging: 63.88

Casing Volume (V) 4" Well: 32.72 (.653h)  
 3" Well: 0 (.367h)

Conductance (avg): 3571

pH of Water (avg): 6.47

Well Water Temp. (avg): 14.10

Redox Potential (Eh): 267

Turbidity: 228

Weather Cond.: Partly Cloudy

Ext'l Amb. Temp. °C (prior sampling event): 1°

Time	<u>1012</u>	Gal. Purged	<u>48</u>
Conductance	<u>3579</u>	pH	<u>6.54</u>
Temp. °C	<u>14.10</u>		
Redox Potential Eh (mV)	<u>268</u>		
Turbidity (NTU)	<u>247</u>		

Time	<u>1013</u>	Gal. Purged	<u>60</u>
Conductance	<u>3582</u>	pH	<u>6.49</u>
Temp. °C	<u>14.10</u>		
Redox Potential Eh (mV)	<u>267</u>		
Turbidity (NTU)	<u>230</u>		

Time	<u>1014</u>	Gal. Purged	<u>72</u>
Conductance	<u>3570</u>	pH	<u>6.47</u>
Temp. °C	<u>14.10</u>		
Redox Potential Eh (mV)	<u>267</u>		
Turbidity (NTU)	<u>220</u>		

Time	<u>1015</u>	Gal. Purged	<u>84</u>
Conductance	<u>3556</u>	pH	<u>6.47</u>
Temp. °C	<u>14.10</u>		
Redox Potential Eh (mV)	<u>269</u>		
Turbidity (NTU)	<u>215</u>		

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.

S/60 =

Time to evacuate two casing volumes (2V)

T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

Chloride

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

Final Depth

Sample Time

 See instruction

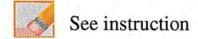
Comment

Arrived on site at 1005 Tanner and Garrin Present for purge. Purge began at 1008 Purged well for a total of 7 minutes. Water was an orange color slowly cleared Throughout purge. Purge ended at 1015. Left site at 1018  
 Arrived on site at 0742. Tanner and Garrin present to collect samples. Depth to water was 64.08. Samples bailed at 0746. Left site at 0749

**TW4-23 02-06-2013** Do not touch this cell (SheetName)



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



Description of Sampling Event: 1st Quarter Chloroform 2013

Location (well name): TW4-24 Sampler Name and initials: Garrin Palmer / GP

Field Sample ID: TW4-24\_02112013

Date and Time for Purging: 2/11/2013 and Sampling (if different): NA

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: TW4-25

pH Buffer 7.0: 7.0 pH Buffer 4.0: 4.0

Specific Conductance: 999  $\mu$ MHOS/ cm Well Depth(0.01ft): 112.5

Depth to Water Before Purging: 60.68 Casing Volume (V) 4" Well: 33.83 (.653h)  
 3" Well: 0 (.367h)

Conductance (avg): 7620 pH of Water (avg): 6.70

Well Water Temp. (avg): 13.78 Redox Potential (Eh): 416 Turbidity: 4.6

Weather Cond.: Cloudy Ext'l Amb. Temp. °C (prior sampling event): 0°

Time	<u>0909</u>	Gal. Purged	<u>0</u>
Conductance	<u>7620</u>	pH	<u>6.70</u>
Temp. °C	<u>13.78</u>		
Redox Potential Eh (mV)	<u>416</u>		
Turbidity (NTU)	<u>4.6</u>		

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  gallon(s)

Pumping Rate Calculation

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

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

Final Depth

Sample Time

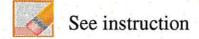
 See instruction

Comment  
 Arrived on site at 0902. Garrin and David present for sampling event. Parameters were taken and samples were collected at 0910. Water was clear. Left site at 0918.

**TW4-24 02-11-2013** Do not touch this cell (SheetName)



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



Description of Sampling Event: 1st Quarter Chloroform 2013

Location (well name): TW4-25

Sampler Name and initials: Garrin Palmer / GP

Field Sample ID TW4-25.02112013

Date and Time for Purging 02/11/2013

and Sampling (if different) NA

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 TW4-26

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 999  $\mu$ MHOS/cm

Well Depth(0.01ft): 134.8

Depth to Water Before Purging 55.23

Casing Volume (V) 4" Well: 51.95 (.653h)

3" Well: 0 (.367h)

Conductance (avg) 2798

pH of Water (avg) 6.62

Well Water Temp. (avg) 14.84

Redox Potential (Eh) 540

Turbidity 0.8

Weather Cond. Cloudy

Ext'l Amb. Temp. °C (prior sampling event) -2°

Time	<u>0849</u>	Gal. Purged	<u>0</u>
Conductance	<u>2798</u>	pH	<u>6.62</u>
Temp. °C	<u>14.84</u>		
Redox Potential Eh (mV)	<u>540</u>		
Turbidity (NTU)	<u>0.8</u>		

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  gallon(s)

Pumping Rate Calculation

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

Chloride

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

Final Depth

Sample Time

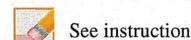
 See instruction

Comment  
 Arrived on site at 0837. Garrin and David Turk present for sampling. Parameters were taken and samples were collected at 0850. Left site at 0900. Water was clear.

**TW4-25 02-11-2013** Do not touch this cell (SheetName)



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



Description of Sampling Event: 1<sup>st</sup> Quarter Chloroform 2013

Location (well name): TW4-26\_1

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID TW4-26\_02072013

Date and Time for Purging 2/6/2013

and Sampling (if different) 2/7/2013

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 TW4-27

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 999  $\mu$ MHOS/cm

Well Depth(0.01ft): 86.00

Depth to Water Before Purging 62.56

Casing Volume (V) 4" Well: 15.30 (.653h)  
3" Well: 0 (.367h)

Conductance (avg) 6100

pH of Water (avg) 4.52

Well Water Temp. (avg) 11.92

Redox Potential (Eh) 408

Turbidity 60.20

Weather Cond. Cloudy

Ext'l Amb. Temp. °C (prior sampling event) 7°

Time	<u>1422</u>	Gal. Purged	<u>24</u>
Conductance	<u>6157</u>	pH	<u>4.44</u>
Temp. °C	<u>14.43</u>		
Redox Potential Eh (mV)	<u>381</u>		
Turbidity (NTU)	<u>160</u>		

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

Time	<u>0820</u>	Gal. Purged	
Conductance	<u>6064</u>	pH	<u>7.1</u> <u>4.53</u>
Temp. °C	<u>10.60</u>		
Redox Potential Eh (mV)	<u>426</u>		
Turbidity (NTU)	<u>7.7</u>		

Time	<u>0822</u>	Gal. Purged	
Conductance	<u>6079</u>	pH	<u>4.61</u>
Temp. °C	<u>10.73</u>		
Redox Potential Eh (mV)	<u>419</u>		
Turbidity (NTU)	<u>13.1</u>		

Volume of Water Purged Before  gallon(s) After

Pumping Rate Calculation

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

Chloride

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

Final Depth

Sample Time

 See instruction

Comment

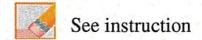
Arrived on site at 1417 Tanner and Garrin present for purge. Purge began at 1420 Purged well for a total of 2 minutes Purged well dry! water was murky. Purge ended at 1422. Left site at 1425

Arrived on site at 0815. Tanner and Garrin present to collect samples. Depth to water was 62.85. Samples bailed at 0820. Left site at 0823

**TW4-26 02-06-2013** Do not touch this cell (SheetName)



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



Description of Sampling Event: 1st Quarter Chloroform 2013

Location (well name): TW4-27 Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-27.02.072013

Date and Time for Purging: 2/6/2013 and Sampling (if different): 2/7/2013

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  $\mu$ MHOS/cm Well Depth(0.01ft): 96.00

Depth to Water Before Purging: 81.76 Casing Volume (V) 4" Well: 9.29 (.653h)  
 3" Well: 0 (.367h)

Conductance (avg): 5156 pH of Water (avg): 7.03

Well Water Temp. (avg): 12.77 Redox Potential (Eh): 332 Turbidity: 47.53

Weather Cond.: cloudy Ext'l Amb. Temp. °C (prior sampling event): 7°

Time	<u>1328</u>	Gal. Purged	<u>9</u>
Conductance	<u>5122</u>	pH	<u>6.78</u>
Temp. °C	<u>14.65</u>		
Redox Potential Eh (mV)	<u>293</u>		
Turbidity (NTU)	<u>97</u>		

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

Time	<u>0737</u>	Gal. Purged	
Conductance	<u>5168</u>	pH	<u>7.2</u>
Temp. °C	<u>11.89</u>		
Redox Potential Eh (mV)	<u>356</u>		
Turbidity (NTU)	<u>16.3</u>		

Time	<u>0739</u>	Gal. Purged	
Conductance	<u>5179</u>	pH	<u>7.11</u>
Temp. °C	<u>11.79</u>		
Redox Potential Eh (mV)	<u>347</u>		
Turbidity (NTU)	<u>29.3</u>		

Volume of Water Purged Before  gallon(s) After

Pumping Rate Calculation

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

Chloride

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

Final Depth

Sample Time

 See instruction

Comment  
 Arrived on site at 1325 Tanner and Garrin present for purge. Purge began at 1328 Purged well for a total of 45 seconds. Purged well dry! Purge ended at 1329. water was murky. Left site at 1331  
 Arrived on site at 0731. Tanner and Garrin present to collect samples. Depth to water was 82.72. samples bailed at 0737. Left site at 0739

**TW4-27 02-06-2013** Do not touch this cell (SheetName)



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

See instruction

Description of Sampling Event: 1st Quarter Chloroform 2013

Location (well name): TW4-60

Sampler Name and initials: Tanner Holliday / TH

Field Sample ID TW4-60-02142013

Date and Time for Purging 2/14/2013

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-32

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 999  $\mu$ MHOS/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) 1.0

pH of Water (avg) 7.49

Well Water Temp. (avg) 14.45

Redox Potential (Eh) 357

Turbidity 0.6

Weather Cond. Clear

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

Time	<u>0804</u>	Gal. Purged	<u>0</u>
Conductance	<u>1.0</u>	pH	<u>7.49</u>
Temp. °C	<u>14.45</u>		
Redox Potential Eh (mV)	<u>357</u>		
Turbidity (NTU)	<u>0.6</u>		

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)			

02-2929-5-1104 - GR-QAP rev7.2 06.06.12 / Template-131061 - Printed 9/22/2012 11:05 PM from JNC030200018

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.

S/60 =

Time to evacuate two casing volumes (2V)

T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

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

Final Depth

Sample Time

See instruction

Comment

Arrived on site at 0800. Tanner Holliday present to collect samples. Samples collected at 0805.

Do not touch this cell (SheetName)



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



Description of Sampling Event: 1<sup>ST</sup> Quarter Chloroform 2013

Location (well name): TW4-65

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID TW4-65\_02072013

Date and Time for Purging 2/6/2013

and Sampling (if different) 2/7/2013

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 TW4-09

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 999 μMHOS/ cm

Well Depth(0.01 ft): 142.00

Depth to Water Before Purging 58.75

Casing Volume (V) 4" Well: 54.36 (.653h)  
3" Well: 0 (.367h)

Conductance (avg) 3378

pH of Water (avg) 6.60

Well Water Temp. (avg) 14.52

Redox Potential (Eh) 129

Turbidity 95

Weather Cond. Cloudy

Ext'l Amb. Temp. °C (prior sampling event) 6°

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)			

01-3028-1-200 - GWP-QAP rev7.2 06-06-12 / Template-1309 - Printed 9/23/2012 11:05 AM Item: DMSB00039

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.

S/60 =

Time to evacuate two casing volumes (2V)

T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

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

Final Depth

Sample Time

 See instruction

Comment

Duplicate of TW4-16

B1-2009-3-201 - GRI-Q09 v07.2 06-06-12



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

See instruction

Description of Sampling Event: 1st Quarter Chloroform 2013

Location (well name): TW4-70 Sampler Name and initials: Tanner Holliday/TH

Field Sample ID TW4-70\_02132013

Date and Time for Purging 2/12/2013 and Sampling (if different) 2/13/2013

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 TW4-06

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 499 µMHOS/ cm Well Depth(0.01ft): 137.50

Depth to Water Before Purging 58.90 Casing Volume (V) 4" Well: 51.32 (.653h)  
3" Well: 0 (.367h)

Conductance (avg) 2012 pH of Water (avg) 6.41

Well Water Temp. (avg) 15.02 Redox Potential (Eh) 441 Turbidity 342

Weather Cond. Clear Ext'l Amb. Temp. °C (prior sampling event) -5°

Time	<input type="text"/>	Gal. Purged	<input type="text"/>
Conductance	<input type="text"/>	pH	<input type="text"/>
Temp. °C	<input type="text"/>		
Redox Potential Eh (mV)	<input type="text"/>		
Turbidity (NTU)	<input type="text"/>		

Time	<input type="text"/>	Gal. Purged	<input type="text"/>
Conductance	<input type="text"/>	pH	<input type="text"/>
Temp. °C	<input type="text"/>		
Redox Potential Eh (mV)	<input type="text"/>		
Turbidity (NTU)	<input type="text"/>		

Time	<input type="text"/>	Gal. Purged	<input type="text"/>
Conductance	<input type="text"/>	pH	<input type="text"/>
Temp. °C	<input type="text"/>		
Redox Potential Eh (mV)	<input type="text"/>		
Turbidity (NTU)	<input type="text"/>		

Time	<input type="text"/>	Gal. Purged	<input type="text"/>
Conductance	<input type="text"/>	pH	<input type="text"/>
Temp. °C	<input type="text"/>		
Redox Potential Eh (mV)	<input type="text"/>		
Turbidity (NTU)	<input type="text"/>		

03.2023.3-228 - GH-QM rev. 12 06.06.12 / Template (1323) - Printed 9/22/2012 11:08 AM from MCM20080018

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.

S/60 =

Time to evacuate two casing volumes (2V)

T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="text" value="Chloride"/>								

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

Final Depth

Sample Time

 See instruction

Comment

Do not touch this cell (SheetName)

03.2020.3.229 - GR-QAP rev7.2 06.06.12

---

Tab C

Weekly and Monthly Depth to Water Data

---

**Weekly Inspection Form – Chloroform Pumping Wells**

Date: 1/7/2013

Inspection By: Garrin Palmer, Tanner Holliday

**MW-4**

Time: 1221

Operating Condition

- System Operational  
 System Not Operational

Flow Totalizer reading (gal): 12812.43

Flow Meter reading (gpm): 4.4 GPM

Depth to water: (to nearest 0.01 feet):  
76.40

Operational problem:

---

Corrective Action(s) Taken

---

**MW-26**

Time: 1218

Operating Condition

- System Operational  
 System Not Operational

Flow Totalizer reading (gal): 46020PM 290706.8

Flow Meter reading (gpm): 290706.8 10.6PM

Depth to water: (to nearest 0.01 feet):  
58.15

Operational problem:

---

Corrective Action(s) Taken

---

**TW4-4**

Time: 1223

Operating Condition

- System Operational  
 System Not Operational

Flow Totalizer reading (gal): 3807.84

Flow Meter reading (gpm): 8.4 GPM

Depth to water: (to nearest 0.01 feet):  
80.98

Operational problem:

---

Corrective Action(s) Taken

---

**TW4-19**

Time: 1035

Operating Condition

- System Operational  
 System Not Operational

Flow Totalizer reading (gal): 812616.00

Flow Meter reading (gpm): 140 GPM

Depth to water: (to nearest 0.01 feet):  
57.49

Operational problem:

---

Corrective Action(s) Taken

---

**TW4-20**

Time: 1215

Operating Condition

- System Operational  
 System Not Operational

Flow Totalizer reading (gal): 535382.54

Flow Meter reading (gpm): 9.6 GPM

Depth to water: (to nearest 0.01 feet):  
55.77

Operational problem:

---

Corrective Action(s) Taken

---

**Weekly Inspection Form – Chloroform Pumping Wells**

Date: 1/14/2013

Inspection By: Tanner Holliday, Garrin Palmer

**MW-4**

Time: 1312

Operating Condition

- System Operational  
 System Not Operational

Flow Totalizer reading (gal): 4622.50

Flow Meter reading (gpm): 4.2

Depth to water: (to nearest 0.01 feet):  
76.82

Operational problem:

---

Corrective Action(s) Taken

---

**MW-26**

Time: 1308

Operating Condition

- System Operational  
 System Not Operational

Flow Totalizer reading (gal): 292254.54

Flow Meter reading (gpm): 8.3

Depth to water: (to nearest 0.01 feet):  
58.30

Operational problem:

---

Corrective Action(s) Taken

---

**TW4-4**

Time: 1315

Operating Condition

- System Operational  
 System Not Operational

Flow Totalizer reading (gal): 8161.17

Flow Meter reading (gpm): 8.0

Depth to water: (to nearest 0.01 feet):  
81.10

Operational problem:

---

Corrective Action(s) Taken

---

**TW4-19**

Time: 1420

Operating Condition

- System Operational  
 System Not Operational

Flow Totalizer reading (gal): 831428.00

Flow Meter reading (gpm): 14.0

Depth to water: (to nearest 0.01 feet):  
57.59

Operational problem:

---

Corrective Action(s) Taken

---

**TW4-20**

Time: 1305

Operating Condition

- System Operational  
 System Not Operational

Flow Totalizer reading (gal): 536551.05

Flow Meter reading (gpm): 9.9

Depth to water: (to nearest 0.01 feet):  
56.02

Operational problem:

---

Corrective Action(s) Taken

---

**Weekly Inspection Form – Chloroform Pumping Wells**

Date: 1/21/13

Inspection By: Garrin Palmer

**MW-4**

Time: 1408

Operating Condition

- System Operational  
 System Not Operational

Flow Totalizer reading (gal): 10145.67

Flow Meter reading (gpm): 4.2 GPM

Depth to water: (to nearest 0.01 feet):  
68.05

Operational problem:

---

Corrective Action(s) Taken

---

**MW-26**

Time: 1404

Operating Condition

- System Operational  
 System Not Operational

Flow Totalizer reading (gal): 294167.98

Flow Meter reading (gpm): 10.0 GPM

Depth to water: (to nearest 0.01 feet):  
68.80

Operational problem:

---

Corrective Action(s) Taken

---

**TW4-4**

Time: 1411

Operating Condition

- System Operational  
 System Not Operational

Flow Totalizer reading (gal): 13202.01

Flow Meter reading (gpm): 8.6 GPM

Depth to water: (to nearest 0.01 feet):  
69.91

Operational problem:

---

Corrective Action(s) Taken

---

**TW4-19**

Time: 1338

Operating Condition

- System Operational
- System Not Operational

Flow Totalizer reading (gal): 847364.00

Flow Meter reading (gpm): 14.0

Depth to water: (to nearest 0.01 feet):

58.46

Operational problem:

---

Corrective Action(s) Taken

---

**TW4-20**

Time: 1400

Operating Condition

- System Operational
- System Not Operational

Flow Totalizer reading (gal): 538182.81

Flow Meter reading (gpm): 10.7

Depth to water: (to nearest 0.01 feet):

57.85

Operational problem:

---

Corrective Action(s) Taken

---

# Weekly Inspection Form

Date 1/21/13

Name Garrin Palmer

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)
1403	MW-4	68.05	Flow 4.2 GPM	<input checked="" type="radio"/> Yes <input type="radio"/> No
			Meter 10145.67	<input checked="" type="radio"/> Yes <input type="radio"/> No
1404	MW-26	68.80	Flow 10.0 GPM	<input checked="" type="radio"/> Yes <input type="radio"/> No
			Meter 294167.98	<input checked="" type="radio"/> Yes <input type="radio"/> No
1338	TW4-19	58.46	Flow 14.0 GPM	<input checked="" type="radio"/> Yes <input type="radio"/> No
			Meter 847364.00	<input checked="" type="radio"/> Yes <input type="radio"/> No
1400	TW4-20	57.85	Flow 10.7 GPM	<input checked="" type="radio"/> Yes <input type="radio"/> No
			Meter 538182.81	<input checked="" type="radio"/> Yes <input type="radio"/> No
1411	TW4-4	69.91	Flow 8.6	<input checked="" type="radio"/> Yes <input type="radio"/> No
			Meter 13202.01	<input checked="" type="radio"/> Yes <input type="radio"/> No
	TWN-2		Flow	Yes <input checked="" type="radio"/> No
			Meter	Yes <input checked="" type="radio"/> No
	TW4-22		Flow	Yes <input checked="" type="radio"/> No
			Meter	Yes <input checked="" type="radio"/> No
	TW4-24		Flow	Yes <input checked="" type="radio"/> No
			Meter	Yes <input checked="" type="radio"/> No
	TW4-25		Flow	Yes <input checked="" type="radio"/> No
			Meter	Yes <input checked="" type="radio"/> No

not yet operational

Operational Problems (Please list well number):

not yet operational TW4-22, 24, 25 and TW4 2

Corrective Action(s) Taken (Please list well number):

\* Depth is measured to the nearest 0.01 feet.

Weekly Inspection Form – Chloroform Pumping Wells

Date: 1/28/2013

Inspection By: Tanner Holliday

**MW-4**

Time: 1240

Operating Condition

- System Operational  
 System Not Operational

Flow Totalizer reading (gal): 15600.33

Flow Meter reading (gpm): 4.0

Depth to water: (to nearest 0.01 feet):

15600.33 69.20

Operational problem:

---

Corrective Action(s) Taken

---

**MW-26**

Time: 1223

Operating Condition

- System Operational  
 System Not Operational

Flow Totalizer reading (gal): 296050.58

Flow Meter reading (gpm): 10.3

Depth to water: (to nearest 0.01 feet):

58.49

Operational problem:

---

Corrective Action(s) Taken

---

**TW4-4**

Time: 1244

Operating Condition

- System Operational  
 System Not Operational

Flow Totalizer reading (gal): 18264.9

Flow Meter reading (gpm): 8.2

Depth to water: (to nearest 0.01 feet):

70.01

Operational problem:

---

Corrective Action(s) Taken

---

**TW4-19**

Time: 1343

Operating Condition

- System Operational  
 System Not Operational

Flow Totalizer reading (gal): 866029.00

Flow Meter reading (gpm): 14.0

Depth to water: (to nearest 0.01 feet):

59.68

Operational problem:

---

Corrective Action(s) Taken

---

**TW4-20**

Time: 1217

Operating Condition

- System Operational  
 System Not Operational

Flow Totalizer reading (gal): 539555.57

Flow Meter reading (gpm): 8.6

Depth to water: (to nearest 0.01 feet):

56.42

Operational problem:

---

Corrective Action(s) Taken

---

# Weekly Inspection Form

Date 1/28/2013

Name Tanner Holliday

<u>Time</u>	<u>Well</u>	<u>Depth*</u>	<u>Comments</u>	<u>System Operational (If no note any problems/corrective actions)</u>
<del>1240</del> 1240	MW-4	69.20	Flow 4.0 GPM	<input checked="" type="radio"/> Yes <input type="radio"/> No
			Meter 15600.33	<input checked="" type="radio"/> Yes <input type="radio"/> No
1223	MW-26	58.49	Flow 10.3 GPM	<input checked="" type="radio"/> Yes <input type="radio"/> No
			Meter 296050.58	<input checked="" type="radio"/> Yes <input type="radio"/> No
1343	TW4-19	59.68	Flow 14.0	<input checked="" type="radio"/> Yes <input type="radio"/> No
			Meter 866029.00	<input checked="" type="radio"/> Yes <input type="radio"/> No
1217	TW4-20	56.42	Flow 8.6 GPM	<input checked="" type="radio"/> Yes <input type="radio"/> No
			Meter 539555.57	<input checked="" type="radio"/> Yes <input type="radio"/> No
1244	TW4-4	70.01	Flow 8.2 GPM	<input checked="" type="radio"/> Yes <input type="radio"/> No
			Meter 18264.9	<input checked="" type="radio"/> Yes <input type="radio"/> No
1337	TWN-2	25.40	Flow 18.3 GPM	<input checked="" type="radio"/> Yes <input type="radio"/> No
			Meter 547.3	<input checked="" type="radio"/> Yes <input type="radio"/> No
1213	TW4-22	53.30	Flow 18.1 GPM	<input checked="" type="radio"/> Yes <input type="radio"/> No
			Meter 954.3	<input checked="" type="radio"/> Yes <input type="radio"/> No
1205	TW4-24	58.61	Flow 16.9 GPM	<input checked="" type="radio"/> Yes <input type="radio"/> No
			Meter 9302.9	<input checked="" type="radio"/> Yes <input type="radio"/> No
1343	TW4-25	54.85	Flow 18.1 GPM	<input checked="" type="radio"/> Yes <input type="radio"/> No
			Meter 6162.1	<input checked="" type="radio"/> Yes <input type="radio"/> No

Operational Problems (Please list well number): \_\_\_\_\_

Corrective Action(s) Taken (Please list well number): \_\_\_\_\_

\* Depth is measured to the nearest 0.01 feet.

# Monthly Depth Check Form

Date 1/31/2013

Name Tanner Holliday

<u>Time</u>	<u>Well</u>	<u>Depth*</u>	<u>Time</u>	<u>Well</u>	<u>Depth*</u>
<u>1234</u>	<u>MW-4</u>	<u>70.56</u>	<u>1419</u>	<u>TWN-1</u>	<u>51.50</u>
<u>1241</u>	<u>TW4-1</u>	<u>64.13</u>	<u>1404</u>	<u>TWN-2</u>	<u>28.13</u>
<u>1231</u>	<u>TW4-2</u>	<u>66.85</u>	<u>1407</u>	<u>TWN-3</u>	<u>32.75</u>
<u>1227</u>	<u>TW4-3</u>	<u>49.37</u>	<u>1411</u>	<u>TWN-4</u>	<u>41.00</u>
<u>1247</u>	<u>TW4-4</u>	<u>70.02</u>	<u>1435</u>	<u>TWN-7</u>	<u>87.75</u>
<u>1219</u>	<u>TW4-5</u>	<u>55.98</u>	<u>1440</u>	<u>TWN-18</u>	<u>57.95</u>
<u>1250</u>	<u>TW4-6</u>	<u>69.60</u>	<u>1400</u>	<u>MW-27</u>	<u>51.47</u>
<u>1237</u>	<u>TW4-7</u>	<u>67.61</u>	<u>1331</u>	<u>MW-30</u>	<u>75.84</u>
<u>1244</u>	<u>TW4-8</u>	<u>66.15</u>	<u><del>1327</del> 1328</u>	<u>MW-31</u>	<u>67.79</u>
<u>1224</u>	<u>TW4-9</u>	<u>53.85</u>			
<u>1216</u>	<u>TW4-10</u>	<u>55.40</u>			
<u>1338</u>	<u>TW4-11</u>	<u>56.61</u>			
<u>1300</u>	<u>TW4-12</u>	<u>40.50</u>			
<u>1303</u>	<u>TW4-13</u>	<u>45.89</u>			
<u>1306</u>	<u>TW4-14</u>	<u>86.57</u>			
<u>1212</u>	<u>TW4-15</u>	<u>59.13</u>			
<u>1323</u>	<u>TW4-16</u>	<u>60.13</u>			
<u>1336</u>	<u>TW4-17</u>	<u>74.83</u>			
<u>1423</u>	<u>TW4-18</u>	<u>56.77</u>			
<u>1453</u>	<u>TW4-19</u>	<u>59.99</u>			
<u>1209</u>	<u>TW4-20</u>	<u>58.19</u>			
<u>1427</u>	<u>TW4-21</u>	<u>53.86</u>			
<u>1266</u>	<u>TW4-22</u>	<u>53.29</u>			
<u>1319</u>	<u>TW4-23</u>	<u>64.70</u>			
<u>1203</u>	<u>TW4-24</u>	<u>58.63</u>			
<u>1415</u>	<u>TW4-25</u>	<u>54.84</u>			
<u>1315</u>	<u>TW4-26</u>	<u>63.05</u>			
<u>1309</u>	<u>TW4-27</u>	<u>82.56</u>			

**Comments: (Please note the well number for any comments)**

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\* Depth is measured to the nearest 0.01 feet

Weekly Inspection Form – Chloroform Pumping Wells

Date: 2/4/13

Inspection By: Garcia Palmer

**MW-4**

Time: 1641

Operating Condition

- System Operational  
 System Not Operational

Operational problem:

Flow Totalizer reading (gal): 21167.18

Flow Meter reading (gpm): 4.4

Depth to water: (to nearest 0.01 feet):  
68.25

Corrective Action(s) Taken

**MW-26**

Time: 1636

Operating Condition

- System Operational  
 System Not Operational

Operational problem:

Flow Totalizer reading (gal): 291911.80

Flow Meter reading (gpm): 10.1

Depth to water: (to nearest 0.01 feet):  
59.60

Corrective Action(s) Taken

**TW4-4**

Time: 1443

Operating Condition

- System Operational  
 System Not Operational

Operational problem:

Flow Totalizer reading (gal): 8.0

Flow Meter reading (gpm): 23500.10

Depth to water: (to nearest 0.01 feet):  
69.45

Corrective Action(s) Taken

**TW4-19**

Time: 1459

Operating Condition

- System Operational
- System Not Operational

Operational problem:

---

Flow Totalizer reading (gal): 14.0

Flow Meter reading (gpm): 885087.00

Depth to water: (to nearest 0.01 feet):

59.60

Corrective Action(s) Taken

---

**TW4-20**

Time: 1645

Operating Condition

- System Operational
- System Not Operational

Operational problem:

---

Flow Totalizer reading (gal): 541197.99

Flow Meter reading (gpm): 10.5

Depth to water: (to nearest 0.01 feet):

59.10

Corrective Action(s) Taken

---

## Weekly Inspection Form

Date 2/4/13

Name Garrin Palmer

<u>Time</u>	<u>Well</u>	<u>Depth*</u>	<u>Comments</u>	<u>System Operational (If no note any problems/corrective actions)</u>
1641	MW-4	68.25	Flow 4.4 GPM	<input checked="" type="radio"/> Yes <input type="radio"/> No
			Meter 21167.18	<input checked="" type="radio"/> Yes <input type="radio"/> No
1636	MW-26	59.60	Flow 10.1 GPM	<input checked="" type="radio"/> Yes <input type="radio"/> No
			Meter 291911.80	<input checked="" type="radio"/> Yes <input type="radio"/> No
1459	TW4-19	57.84	Flow 14.0	<input checked="" type="radio"/> Yes <input type="radio"/> No
			Meter 885087.00	<input checked="" type="radio"/> Yes <input type="radio"/> No
1645	TW4-20	59.10	Flow 10.5 GPM	<input checked="" type="radio"/> Yes <input type="radio"/> No
			Meter 541197.99	<input checked="" type="radio"/> Yes <input type="radio"/> No
1443	TW4-4	69.45	Flow 8.0 GPM	<input checked="" type="radio"/> Yes <input type="radio"/> No
			Meter 23500.10	<input checked="" type="radio"/> Yes <input type="radio"/> No
1213	TWN-2	59.78	Flow 18.7 GPM	<input checked="" type="radio"/> Yes <input type="radio"/> No
			Meter 4205.6	<input checked="" type="radio"/> Yes <input type="radio"/> No
1222	TW4-22	54.20	Flow 18.4 GPM	<input checked="" type="radio"/> Yes <input type="radio"/> No
			Meter 2989.46	<input checked="" type="radio"/> Yes <input type="radio"/> No
1219	TW4-24	59.87	Flow 18.2 GPM	<input checked="" type="radio"/> Yes <input type="radio"/> No
			Meter 28143.10	<input checked="" type="radio"/> Yes <input type="radio"/> No
1211	TW4-25	95.40	Flow 16.8 GPM	<input checked="" type="radio"/> Yes <input type="radio"/> No
			Meter 18172.00	<input checked="" type="radio"/> Yes <input type="radio"/> No

Operational Problems (Please list well number): \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Corrective Action(s) Taken (Please list well number): \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\* Depth is measured to the nearest 0.01 feet.

Weekly Inspection Form – Chloroform Pumping Wells

Date: 2/11/13

Inspection By: Garnia Palmer

**MW-4**

Time: 1020  
Operating Condition

System Operational  
 System Not Operational

Operational problem:

---

Flow Totalizer reading (gal): 26408.32

Flow Meter reading (gpm): 4.4

Depth to water: (to nearest 0.01 feet):  
68.50

Corrective Action(s) Taken

---

**MW-26**

Time: 1010  
Operating Condition

System Operational  
 System Not Operational

Operational problem:

---

Flow Totalizer reading (gal): 294875.21

Flow Meter reading (gpm): 10.0

Depth to water: (to nearest 0.01 feet):  
58.17

Corrective Action(s) Taken

---

**TW4-4**

Time: 1030  
Operating Condition

System Operational  
 System Not Operational

Operational problem:

---

Flow Totalizer reading (gal): 28455.00

Flow Meter reading (gpm): 8.1

Depth to water: (to nearest 0.01 feet):  
69.94

Corrective Action(s) Taken

---

**TW4-19**

Time: 1100

Operating Condition

- System Operational  
 System Not Operational

Operational problem:

---

Flow Totalizer reading (gal): 14.0

Flow Meter reading (gpm): 903084.00

Depth to water: (to nearest 0.01 feet):

58.65

Corrective Action(s) Taken

---

**TW4-20**

Time: 0950

Operating Condition

- System Operational  
 System Not Operational

Operational problem:

---

Flow Totalizer reading (gal): 542520.59

Flow Meter reading (gpm): 10.1

Depth to water: (to nearest 0.01 feet):

56.78

Corrective Action(s) Taken

---

# Weekly Inspection Form

Date 2/11/13

Name Garrin Palmer, David Turk

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)
1020	MW-4	68.50	Flow 4.4 GPM	<input checked="" type="checkbox"/> Yes No
			Meter 26408.32	<input checked="" type="checkbox"/> Yes No
1010	MW-26	58.17	Flow 10.0 GPM	<input checked="" type="checkbox"/> Yes No
			Meter 299875.21	<input checked="" type="checkbox"/> Yes No
1100	TW4-19	58.65	Flow 14.0 GPM	<input checked="" type="checkbox"/> Yes No
			Meter 903084.00	<input checked="" type="checkbox"/> Yes No
0950	TW4-20	56.78	Flow 10.1 GPM	<input checked="" type="checkbox"/> Yes No
			Meter 542520.59	<input checked="" type="checkbox"/> Yes No
1030	TW4-4	69.94	Flow 8.1 GPM	Yes No
			Meter 28455.00	Yes No
0900	TWN-2	27.05	Flow 18.2 GPM	<input checked="" type="checkbox"/> Yes No
			Meter 8097.91	<input checked="" type="checkbox"/> Yes No
0926	TW4-22	54.53	Flow 16.7 GPM	<input checked="" type="checkbox"/> Yes No
		54.53	Meter 4899.90	<input checked="" type="checkbox"/> Yes No
0910	TW4-24	60.68	Flow 18.0 GPM	<input checked="" type="checkbox"/> Yes No
			Meter 46122.30	<input checked="" type="checkbox"/> Yes No
0850	TW4-25	55.23	Flow 17.5 GPM	<input checked="" type="checkbox"/> Yes No
			Meter 2959660	<input checked="" type="checkbox"/> Yes No

Operational Problems (Please list well number): \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Corrective Action(s) Taken (Please list well number): \_\_\_\_\_

\_\_\_\_\_

\* Depth is measured to the nearest 0.01 feet.

## Weekly Inspection Form

Date 2/18/13

Name Garrin Palmer

<u>Time</u>	<u>Well</u>	<u>Depth*</u>	<u>Comments</u>	<u>System Operational (If no note any problems/corrective actions)</u>
1017	MW-4	68.60	Flow 4.4 GPM	<input checked="" type="checkbox"/> Yes No
			Meter 31825.73	<input checked="" type="checkbox"/> Yes No
1014	MW-26	58.40	Flow 10.0 GPM	<input checked="" type="checkbox"/> Yes No
			Meter 301798.01	<input checked="" type="checkbox"/> Yes No
1300	TW4-19	59.44	Flow 14.0 GPM	<input checked="" type="checkbox"/> Yes No
			Meter 921692.00	<input checked="" type="checkbox"/> Yes No
1010	TW4-20	79.80	Flow 10.3 GPM	<input checked="" type="checkbox"/> Yes No
			Meter 544176.92	<input checked="" type="checkbox"/> Yes No
1020	TW4-4	69.88	Flow 8.7 GPM	<input checked="" type="checkbox"/> Yes No
			Meter 33603.23	<input checked="" type="checkbox"/> Yes No
0958	TWN-2	27.47	Flow 18.9 GPM	<input checked="" type="checkbox"/> Yes No
			Meter 12047.64	<input checked="" type="checkbox"/> Yes No
1006	TW4-22	54.80	Flow 18.4 GPM	<input checked="" type="checkbox"/> Yes No
			Meter 6887.60	<input checked="" type="checkbox"/> Yes No
1001	TW4-24	60.34	Flow 18.5	<input checked="" type="checkbox"/> Yes No
			Meter 63804.67	<input checked="" type="checkbox"/> Yes No
0955	TW4-25	66.38	Flow 18.3 GPM	<input checked="" type="checkbox"/> Yes No
			Meter 41559.85	<input checked="" type="checkbox"/> Yes No

Operational Problems (Please list well number): \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Corrective Action(s) Taken (Please list well number): \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\* Depth is measured to the nearest 0.01 feet.

## Weekly Inspection Form

Date 2/25/2013

Name Tanner Holliday Garcin Palmer

System Operational (if no note any problems/corrective actions)

<u>Time</u>	<u>Well</u>	<u>Depth*</u>	<u>Comments</u>	<u>System Operational (if no note any problems/corrective actions)</u>
1438	MW-4	67.10	Flow 4.3	<input checked="" type="radio"/> Yes <input type="radio"/> No
			Meter 37240.91	<input checked="" type="radio"/> Yes <input type="radio"/> No
1434	MW-26	62.14	Flow 10.1 GPM	<input checked="" type="radio"/> Yes <input type="radio"/> No
			Meter 303798.15	<input checked="" type="radio"/> Yes <input type="radio"/> No
1500	TW4-19	60.02	Flow 14.0 GPM	<input checked="" type="radio"/> Yes <input type="radio"/> No
			Meter 940579.00	<input checked="" type="radio"/> Yes <input type="radio"/> No
1431	TW4-20	57.92	Flow 9.8 GPM	<input checked="" type="radio"/> Yes <input type="radio"/> No
			Meter 545618.47	<input checked="" type="radio"/> Yes <input type="radio"/> No
1442	TW4-4	69.94	Flow 8.5 GPM	<input checked="" type="radio"/> Yes <input type="radio"/> No
			Meter 38792.0	<input checked="" type="radio"/> Yes <input type="radio"/> No
1419	TWN-2	26.97	Flow 18.9 GPM	<input checked="" type="radio"/> Yes <input type="radio"/> No
			Meter 15812.3	<input checked="" type="radio"/> Yes <input type="radio"/> No
1428	TW4-22	56.10	Flow 18.2 GPM	<input checked="" type="radio"/> Yes <input type="radio"/> No
			Meter 8807.7	<input checked="" type="radio"/> Yes <input type="radio"/> No
1423	TW4-24	70.03	Flow 18.2 GPM	<input checked="" type="radio"/> Yes <input type="radio"/> No
			Meter 81695.4	<input checked="" type="radio"/> Yes <input type="radio"/> No
1415	TW4-25	58.00	Flow 18.1 GPM	<input checked="" type="radio"/> Yes <input type="radio"/> No
			Meter 53338.1	<input checked="" type="radio"/> Yes <input type="radio"/> No

Operational Problems (Please list well number): \_\_\_\_\_

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\_\_\_\_\_

Corrective Action(s) Taken (Please list well number): \_\_\_\_\_

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\* Depth is measured to the nearest 0.01 feet.

# Monthly Depth Check Form

**Date** 2/28/2013

**Name** Tanner Holliday

<u>Time</u>	<u>Well</u>	<u>Depth*</u>	<u>Time</u>	<u>Well</u>	<u>Depth*</u>
<u>1309</u>	<u>MW-4</u>	<u>69.11</u>	<u>1400</u>	<u>TWN-1</u>	<u>54.19</u>
<u>1306</u>	<u>TW4-1</u>	<u>64.12</u>	<u>1355</u>	<u>TWN-2</u>	<u>27.14</u>
<u>1313</u>	<u>TW4-2</u>	<u>65.65</u>	<u>1410</u>	<u>TWN-3</u>	<u>35.80</u>
<u>1302</u>	<u>TW4-3</u>	<u>50.89</u>	<u>1414</u>	<u>TWN-4</u>	<u>45.69</u>
<u>1315</u>	<u>TW4-4</u>	<u>69.99</u>	<u>1424</u>	<u>TWN-7</u>	<u>87.48</u>
<u>1258</u>	<u>TW4-5</u>	<u>57.90</u>	<u>1419</u>	<u>TWN-18</u>	<u><del>38.0</del> 58.11</u>
<u>1317</u>	<u>TW4-6</u>	<u>69.80</u>	<u>1349</u>	<u>MW-27</u>	<u>51.68</u>
<u>1308</u>	<u>TW4-7</u>	<u>65.04</u>	<u>1345</u>	<u>MW-30</u>	<u>75.20</u>
<u>1304</u>	<u>TW4-8</u>	<u>59.26</u>	<u>1342</u>	<u>MW-31</u>	<u>67.31</u>
<u>1300</u>	<u>TW4-9</u>	<u>55.66</u>			
<u>1256</u>	<u>TW4-10</u>	<u>56.53</u>			
<u>1310</u>	<u>TW4-11</u>	<u>57.10</u>			
<u>1322</u>	<u>TW4-12</u>	<u>41.60</u>			
<u>1324</u>	<u>TW4-13</u>	<u>47.56</u>			
<u>1326</u>	<u>TW4-14</u>	<u>86.27</u>			
<u>1253</u>	<u>TW4-15</u>	<u>75.19</u>			
<u>1340</u>	<u>TW4-16</u>	<u>59.45</u>			
<u>1338</u>	<u>TW4-17</u>	<u>74.10</u>			
<u>1403</u>	<u>TW4-18</u>	<u>56.63</u>			
<u>1433</u>	<u>TW4-19</u>	<u>59.95</u>			
<u>1251</u>	<u>TW4-20</u>	<u>63.12</u>			
<u>1406</u>	<u>TW4-21</u>	<u>54.09</u>			
<u>1248</u>	<u>TW4-22</u>	<u>59.03</u>			
<u>1335</u>	<u>TW4-23</u>	<u>64.20</u>			
<u>1245</u>	<u>TW4-24</u>	<u>70.11</u>			
<u>1358</u>	<u>TW4-25</u>	<u>58.19</u>			
<u>1332</u>	<u>TW4-26</u>	<u>62.86</u>			
<u>1328</u>	<u>TW4-27</u>	<u>82.02</u>			

**Comments: (Please note the well number for any comments)**

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\* Depth is measured to the nearest 0.01 feet

## Weekly Inspection Form

Date 3/4/13

Name Garrin Palmer

<u>Time</u>	<u>Well</u>	<u>Depth*</u>	<u>Comments</u>	<u>System Operational (If no note any problems/corrective actions)</u>
1047	MW-4	68.20	Flow 4.4 GPM	<input checked="" type="checkbox"/> Yes No
			Meter 42578.30	<input checked="" type="checkbox"/> Yes No
1248	MW-26	59.15	Flow 10.0 GPM	<input checked="" type="checkbox"/> Yes No
			Meter 305822.26	<input checked="" type="checkbox"/> Yes No
1202	TW4-19	74.10	Flow 14.0 GPM	<input checked="" type="checkbox"/> Yes No
			Meter 961716.00	<input checked="" type="checkbox"/> Yes No
1245	TW4-20	57.45	Flow 9.4 GPM	<input checked="" type="checkbox"/> Yes No
			Meter 547326.63	<input checked="" type="checkbox"/> Yes No
1050	TW4-4	69.84	Flow 8.2 GPM	<input checked="" type="checkbox"/> Yes No
			Meter 43673.10	<input checked="" type="checkbox"/> Yes No
1233	TWN-2	31.78	Flow 18.6 GPM	<input checked="" type="checkbox"/> Yes No
			Meter 20272.30	<input checked="" type="checkbox"/> Yes No
1241	TW4-22	55.40	Flow 18.3 GPM	<input checked="" type="checkbox"/> Yes No
			Meter 11003.60	<input checked="" type="checkbox"/> Yes No
1238	TW4-24	61.20	Flow 18.4 GPM	<input checked="" type="checkbox"/> Yes No
			Meter 100124.39	<input checked="" type="checkbox"/> Yes No
1229	TW4-25	65.90	Flow 17.2 GPM	<input checked="" type="checkbox"/> Yes No
			Meter 66152.30	<input checked="" type="checkbox"/> Yes No

Operational Problems (Please list well number): \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Corrective Action(s) Taken (Please list well number): \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\* Depth is measured to the nearest 0.01 feet.

## Weekly Inspection Form

Date 3/12/2013

Name Garcia Palmer

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)	
				Yes	No
1248	MW-4	67.48	Flow 4.4 GPM	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			Meter 48613.84	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1244	MW-26	61.80	Flow 10.4 GPM	<input type="checkbox"/>	<input type="checkbox"/>
			Meter 307728.34	<input type="checkbox"/>	<input type="checkbox"/>
1030	TW4-19	60.82	Flow 14.0 GPM	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			Meter 980145.00	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1241	TW4-20	58.00	Flow 8.9 GPM	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			Meter 548865.90	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1251	TW4-4	70.83	Flow 8.2 GPM	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			Meter 49472.08	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1230	TWN-2	29.84	Flow 18.9 GPM	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			Meter 24047.68	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1227	TW4-22	67.45	Flow 18.0 GPM	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			Meter 78109.76	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1233	TW4-24	61.60	Flow 18.0 GPM	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			Meter 116275.24	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1236	TW4-25	55.60	Flow 18.2 GPM	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			Meter 13065.40	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Operational Problems (Please list well number): \_\_\_\_\_

Corrective Action(s) Taken (Please list well number): \_\_\_\_\_

\* Depth is measured to the nearest 0.01 feet.

## Weekly Inspection Form

Date 3/18/13

Name Garrin Palmer

<u>Time</u>	<u>Well</u>	<u>Depth*</u>	<u>Comments</u>	<u>System Operational (If no note any problems/corrective actions)</u>
1022	MW-4	77.05	Flow 4.4 GPM	(Yes) No
			Meter 54080.76	(Yes) No
1018	MW-26	59.70	Flow 10.0 GPM	(Yes) No
			Meter 309553.34	(Yes) No
1410	TW4-19	59.85	Flow 14.0 GPM	(Yes) No
			Meter 996511.00	(Yes) No
1013	TW4-20	57.60	Flow 9.0 GPM	(Yes) No
			Meter 55033.55	(Yes) No
1025	TW4-4	76.84	Flow 8.2 GPM	(Yes) No
			Meter 54531.90	(Yes) No
0953	TWN-2	28.30	Flow 19.0 GPM	(Yes) No
			Meter 27722.81	(Yes) No
1007	TW4-22	55.47	Flow 18.0 GPM	(Yes) No
			Meter 14990.80	(Yes) No
0957	TW4-24	61.40	Flow 18.2 GPM	(Yes) No
			Meter 131681.20	(Yes) No
0949	TW4-25	60.45	Flow 18.6 GPM	(Yes) No
			Meter 89415.63	(Yes) No

Operational Problems (Please list well number): \_\_\_\_\_

Corrective Action(s) Taken (Please list well number): \_\_\_\_\_

\* Depth is measured to the nearest 0.01 feet.

All wells were checked on 3/19 except for TW4-19 it was checked 3-18.

## Weekly Inspection Form

Date 3/25/13

Name Garrin Palmer Tanner Holliday

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)	
				Yes	No
0948	MW-4	67.61	Flow 4.4 GPM	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			Meter 58506.10	<input checked="" type="checkbox"/>	<input type="checkbox"/>
0945	MW-26	61.13	Flow 10.1 GPM	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			Meter 311217.85	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1040	TW4-19	69.78	Flow 14.0 GPM	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			Meter 1014640.00	<input checked="" type="checkbox"/>	<input type="checkbox"/>
0942	TW4-20	58.17	Flow 9.8 GPM	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			Meter 551637.90	<input checked="" type="checkbox"/>	<input type="checkbox"/>
0951	TW4-4	72.43	Flow 8.5 GPM	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			Meter 58716.76	<input checked="" type="checkbox"/>	<input type="checkbox"/>
0932	TWN-2	27.38	Flow 18.9 GPM	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			Meter 31009.41	<input checked="" type="checkbox"/>	<input type="checkbox"/>
0939	TW4-22	55.70	Flow 18.4 GPM	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			Meter 16677.44	<input checked="" type="checkbox"/>	<input type="checkbox"/>
0936	TW4-24	61.80	Flow 18.1 GPM	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			Meter 144842.63	<input checked="" type="checkbox"/>	<input type="checkbox"/>
0929	TW4-25	66.00	Flow 18.0 GPM	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			Meter 94369.89	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Operational Problems (Please list well number): \_\_\_\_\_

Corrective Action(s) Taken (Please list well number): \_\_\_\_\_

\* Depth is measured to the nearest 0.01 feet.

Tab D

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

NAME: Garrin Palmer, Tanner Holliday

DATE: 3/28/2013

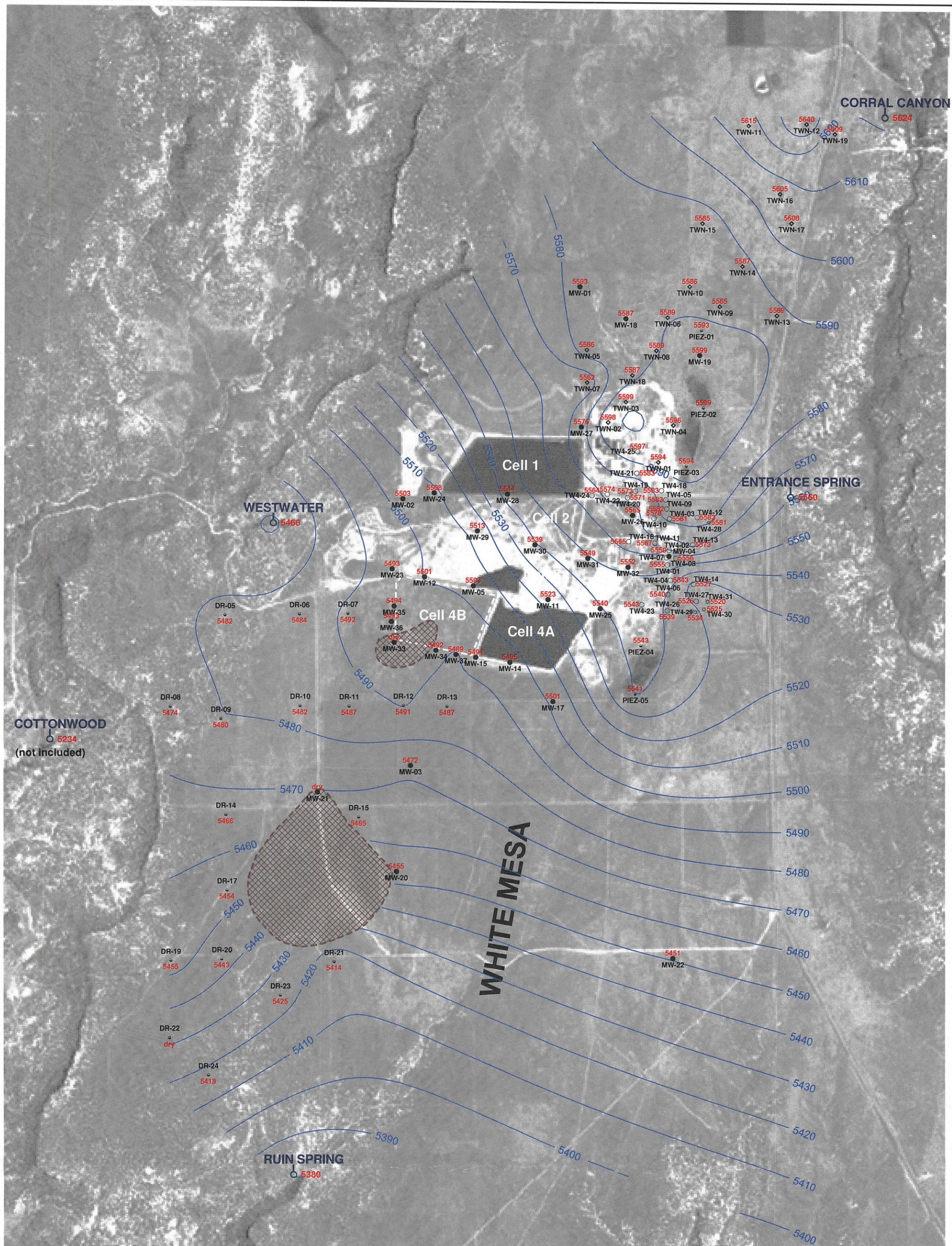
TIME	WELL	Static level	TIME	WELL	Static Level	TIME	WELL	Static Level	TIME	WELL	Static Level
852	MW-1	64.26	1011	MW-4	70.03	815	PIEZ-1	62.33	NA	DR-1	ABANDON
944	MW-2	109.65	1009	TW4-1	63.85	808	PIEZ-2	30.12	NA	DR-2	ABANDON
952	MW-3	83.15	1013	TW4-2	65.33	900	PIEZ-3	43.80	853	DR-5	83.09
955	MW-3A	85.11	1005	TW4-3	50.71	938	PIEZ-4	47.97	1008	DR-6	94.38
1040	MW-5	106.12	1017	TW4-4	70.00	941	PIEZ-5	43.55	1006	DR-7	92.26
1046	MW-11	87.41	1001	TW4-5	57.82	928	TWN-1	54.55	848	DR-8	51
1018	MW-12	108.51	1019	TW4-6	69.25	1010	TWN-2	28.41	845	DR-9	86.55
1050	MW-14	103.60	1010	TW4-7	64.84	906	TWN-3	35.90	842	DR-10	78.15
1037	MW-15	106.37	1007	TW4-8	64.92	858	TWN-4	46.30	1000	DR-11	98.28
947	MW-17	73.65	1003	TW4-9	55.62	847	TWN-5	69.50	958	DR-12	89.34
844	MW-18	70.21	959	TW4-10	56.32	839	TWN-6	75.49	950	DR-13	69.86
812	MW-19	55.88	1015	TW4-11	56.73	849	TWN-7	87.25	834	DR-14	76.38
859	MW-20	85.80	1028	TW4-12	41.52	842	TWN-8	62.53	838	DR-15	92.94
807	MW-22	66.83	1032	TW4-13	46.91	817	TWN-9	62.10	NA	DR-16	ABANDON
1015	MW-23	119.15	1034	TW4-14	85.86	837	TWN-10	80.70	830	DR-17	64.8
941	MW-24	114.00	957	TW4-15	60.08	831	TWN-11	69.13	NA	DR-18	ABANDON
936	MW-25	73.14	1048	TW4-16	59.28	829	TWN-12	28.25	819	DR-19	63.15
957	MW-26	60.08	1045	TW4-17	73.70	820	TWN-13	45.45	816	DR-20	55.22
936	MW-27	51.80	931	TW4-18	58.40	822	TWN-14	62.10	901	DR-21	107.33
947	MW-28	76.05	1104	TW4-19	58.88	835	TWN-15	91.56	826	DR-22	DRY
1057	MW-29	101.65	955	TW4-20	58.01	827	TWN-16	47.48	812	DR-23	70.62
1053	MW-30	75.25	934	TW4-21	56.61	825	TWN-17	33.64	823	DR-24	43.85
1050	MW-31	67.26	952	TW4-22	55.50	904	TWN-18	58.13	NA	DR-25	ABANDON
1045	MW-32	73.70	1021	TW4-23	63.89	1330	TWN-19	52.19			
1007	MW-33	Dry	950	TW4-24	61.30						
1053	MW-34	107.92	1047	TW4-25	47.48						
1013	MW-35	112.40	1023	TW4-26	62.55						
1010	MW-36	110.56	1036	TW4-27	81.57						
1055	MW-37	110.15	1030	TW4-28	36.31						
			1037	TW4-29	72.06						
			1039	TW4-30	78.03						
			1041	TW4-31	84.41						

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**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
- TW4-28**  
 5581 temporary perched monitoring well installed March, 2013 showing elevation in feet amsl
- RUIN SPRING**  
 5380 seep or spring showing elevation in feet amsl

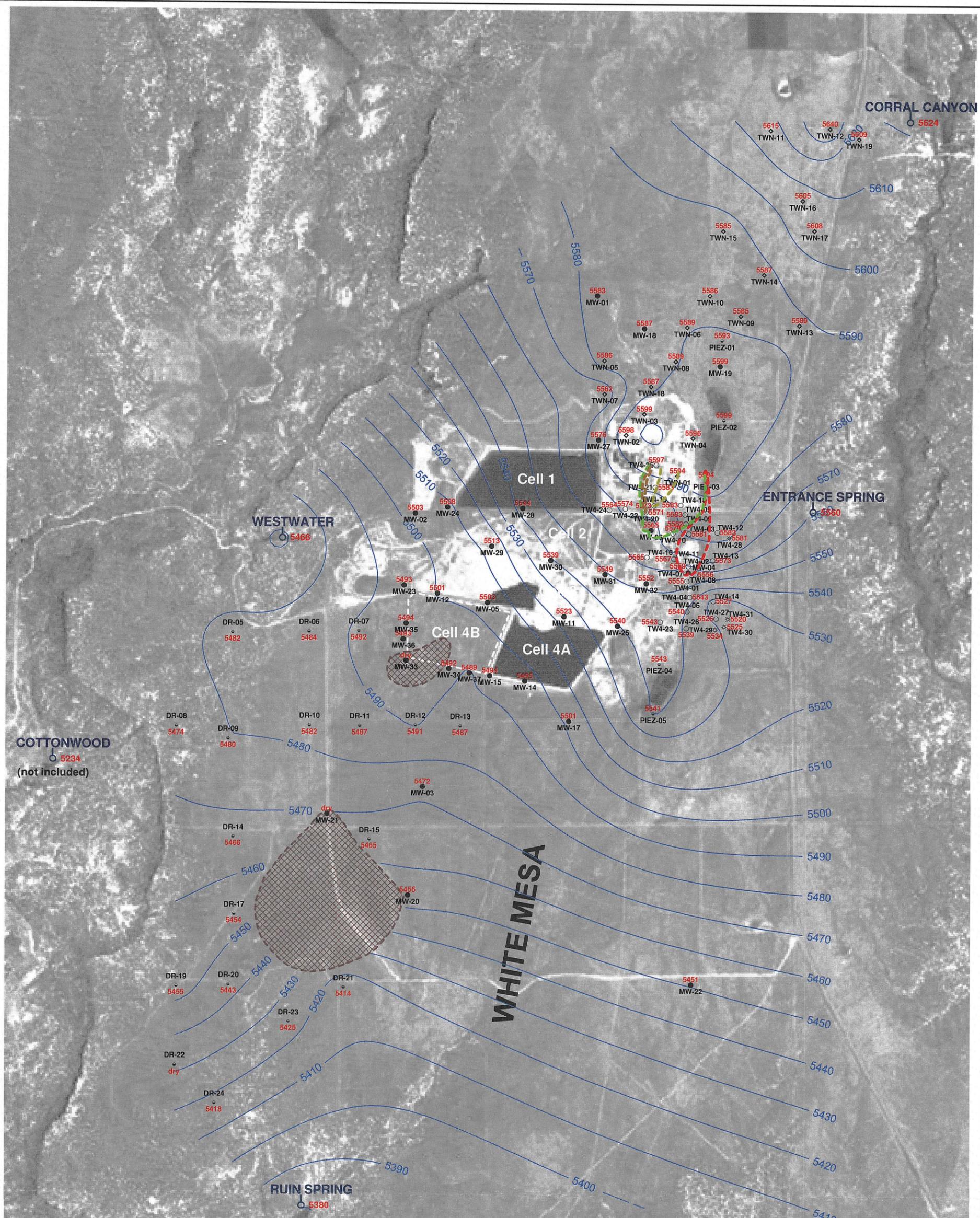
NOTE: MW-4, MW-26, TW4-4, TW4-19, and TW4-20 are chloroform pumping wells; TW4-22, TW4-24, TW4-25, and TWN-2 are nitrate pumping wells



**HYDRO  
GEO  
CHEM, INC.**

**KRIGED 1st QUARTER, 2013 WATER LEVELS  
WHITE MESA SITE**

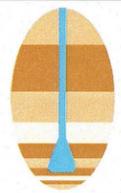
APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/may13/Uw0313.srf	D-1



**EXPLANATION**

-  estimated capture zone boundary stream tubes resulting from chloroform pumping
-  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
- TW4-28**  
 5581 temporary perched monitoring well installed March, 2013 showing elevation in feet amsl
- RUI SPRING**  
 5380 seep or spring showing elevation in feet amsl

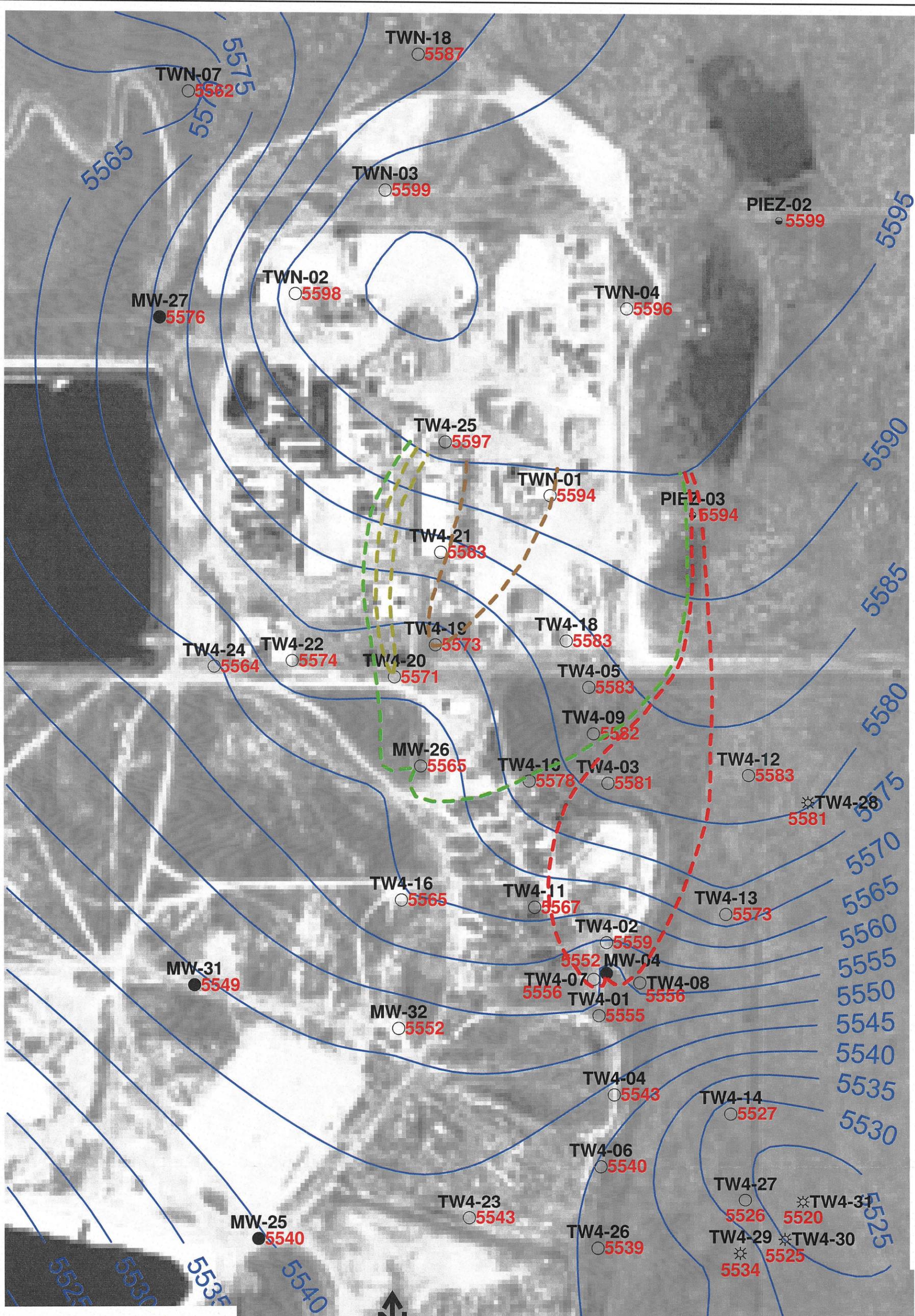
NOTE: MW-4, MW-26, TW4-4, TW4-19, and TW4-20 are chloroform pumping wells; TW4-22, TW4-24, TW4-25, and TWN-2 are nitrate pumping wells



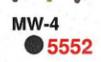
**HYDRO  
GEO  
CHEM, INC.**

**KRIGED 1st QUARTER, 2013 WATER LEVELS  
AND ESTIMATED CHLOROFORM CAPTURE ZONES  
WHITE MESA SITE**

APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/may13/Uwl0313cz2.srf	D-2



**EXPLANATION**

-  estimated capture zone boundary stream tubes resulting from chloroform pumping
-  MW-4 5552 perched monitoring well showing elevation in feet amsl
-  TW4-1 5555 temporary perched monitoring well showing elevation in feet amsl
-  PIEZ-2 5599 perched piezometer showing elevation in feet amsl
-  TW4-28 5581 temporary perched monitoring well installed March, 2013 showing elevation in feet amsl

NOTE: MW-4, MW-26, TW4-4, TW4-19, and TW4-20 are chloroform pumping wells; TW4-22, TW4-24, TW4-25, and TWN-2 are nitrate pumping wells

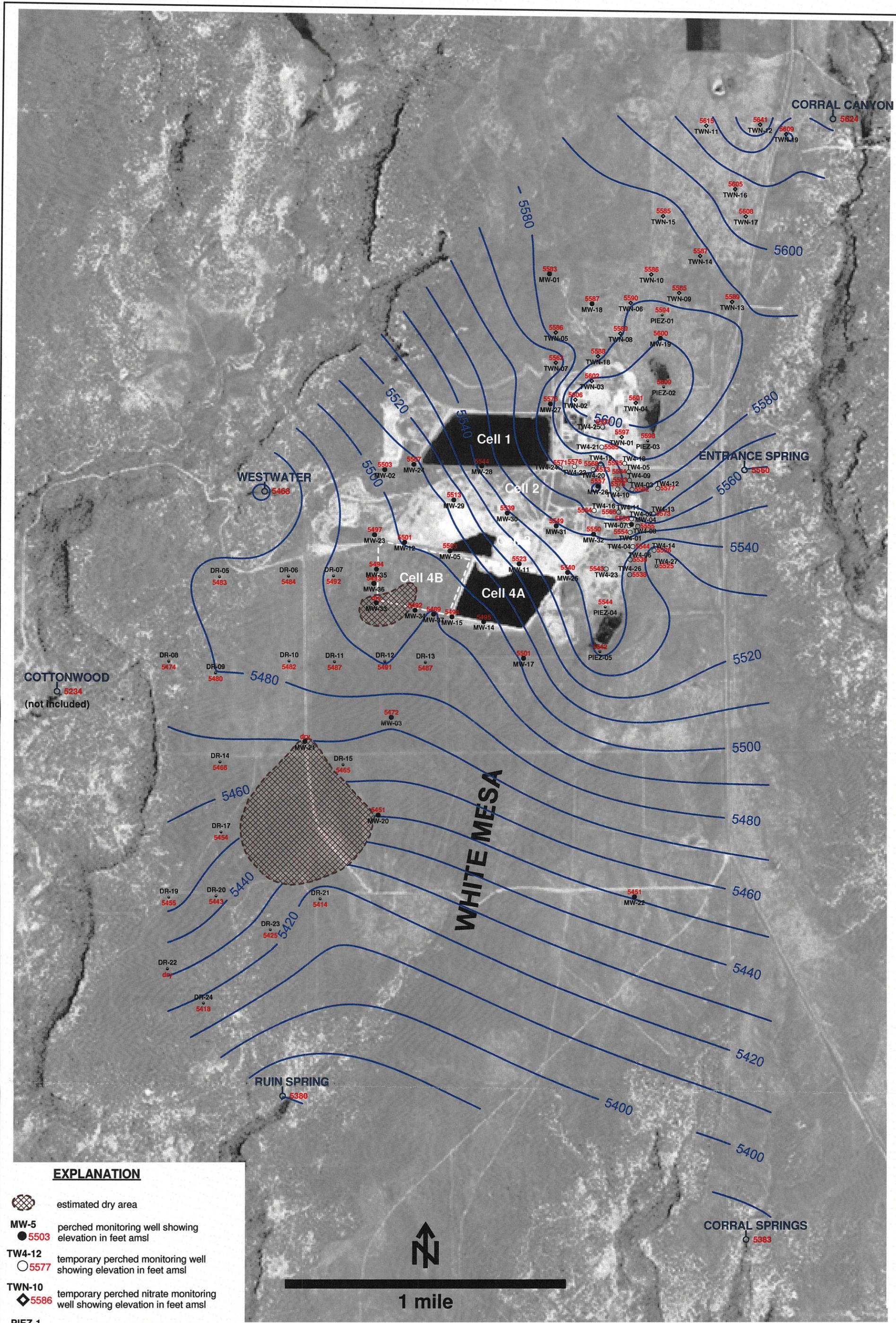


**HYDRO  
GEO  
CHEM, INC.**

KRIGED 1st QUARTER, 2013 WATER LEVELS AND ESTIMATED CHLOROFORM CAPTURE ZONES WHITE MESA SITE (detail map)			
APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/may13/Uwl0313cz.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**  
 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



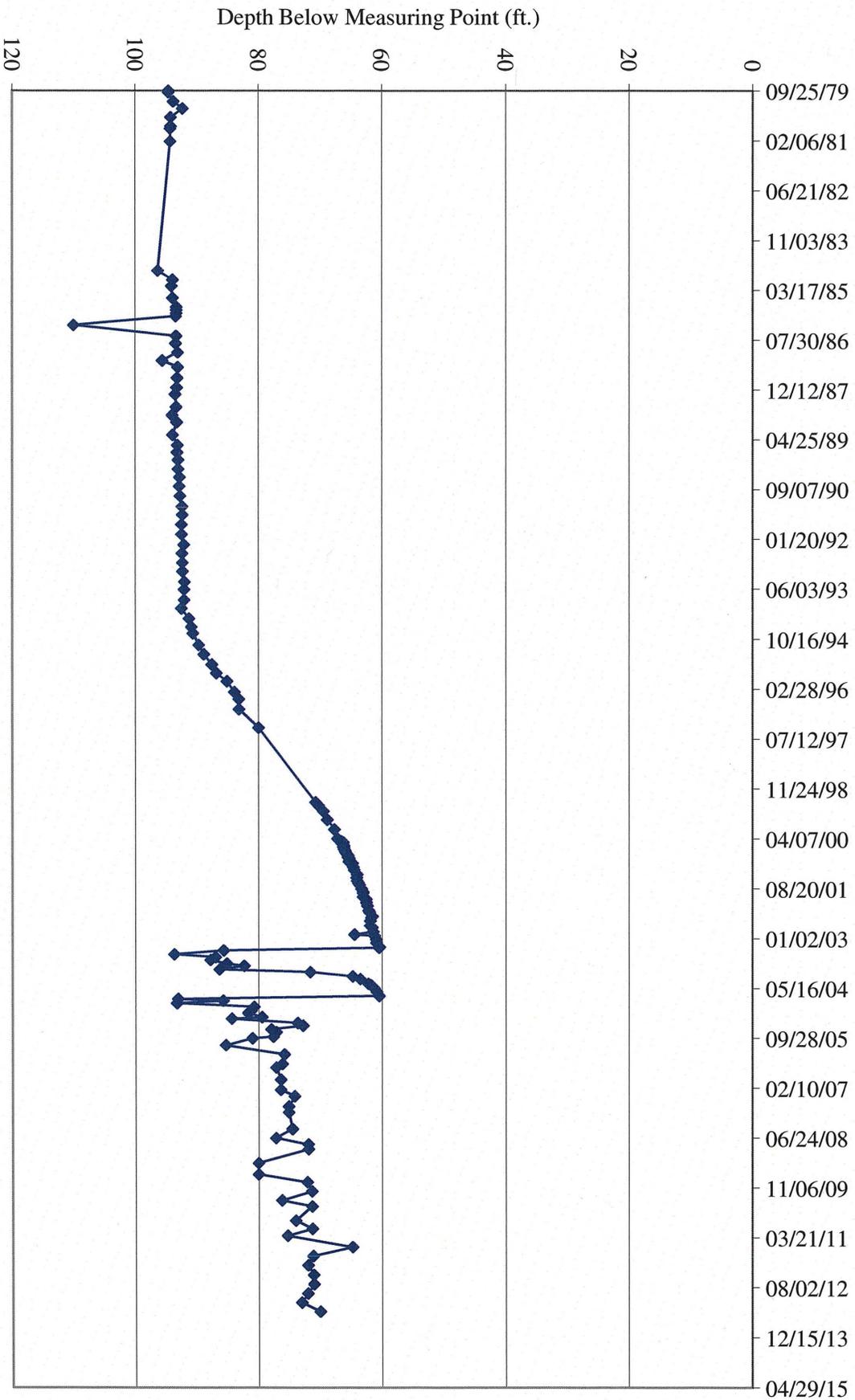
**HYDRO  
GEO  
CHEM, INC.**

**KRIGED 4th QUARTER, 2012 WATER LEVELS  
WHITE MESA SITE**

APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/feb13/Uw1212.srf	E-1

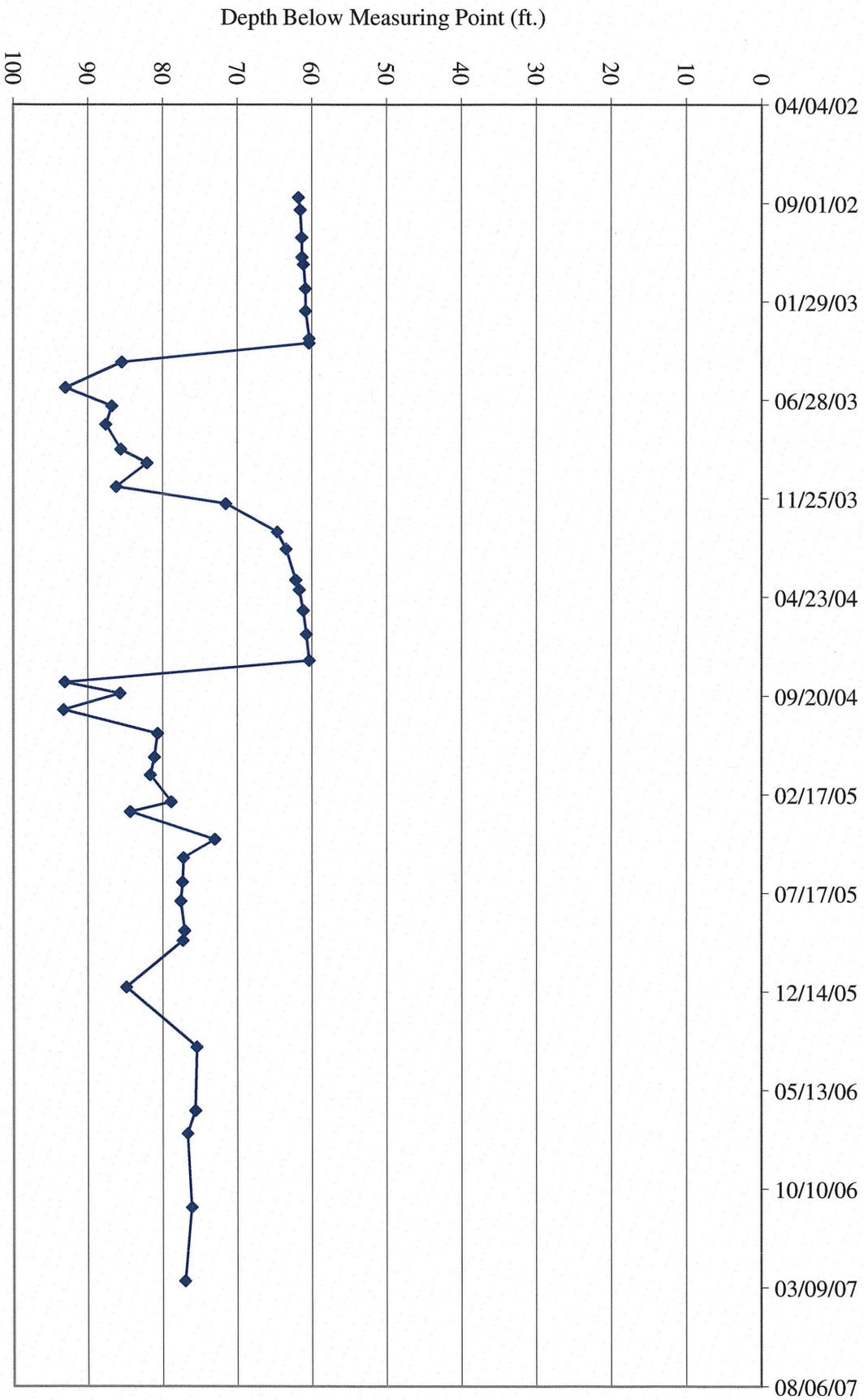
Tab F

Hydrographs of Groundwater Elevations Over Time for Chloroform Monitoring Wells

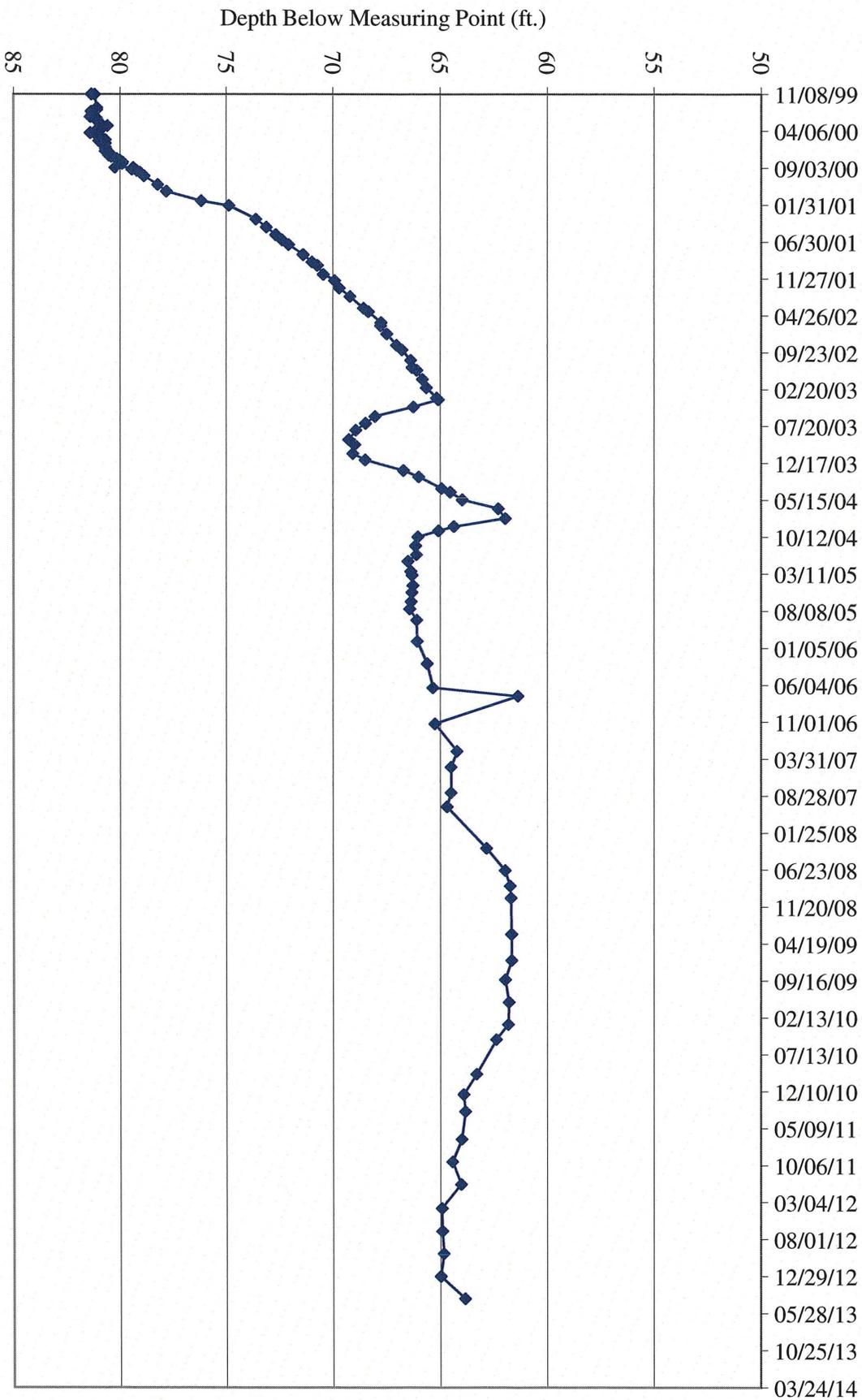


**MW 4 Water Depth Over Time (ft. blmp)**

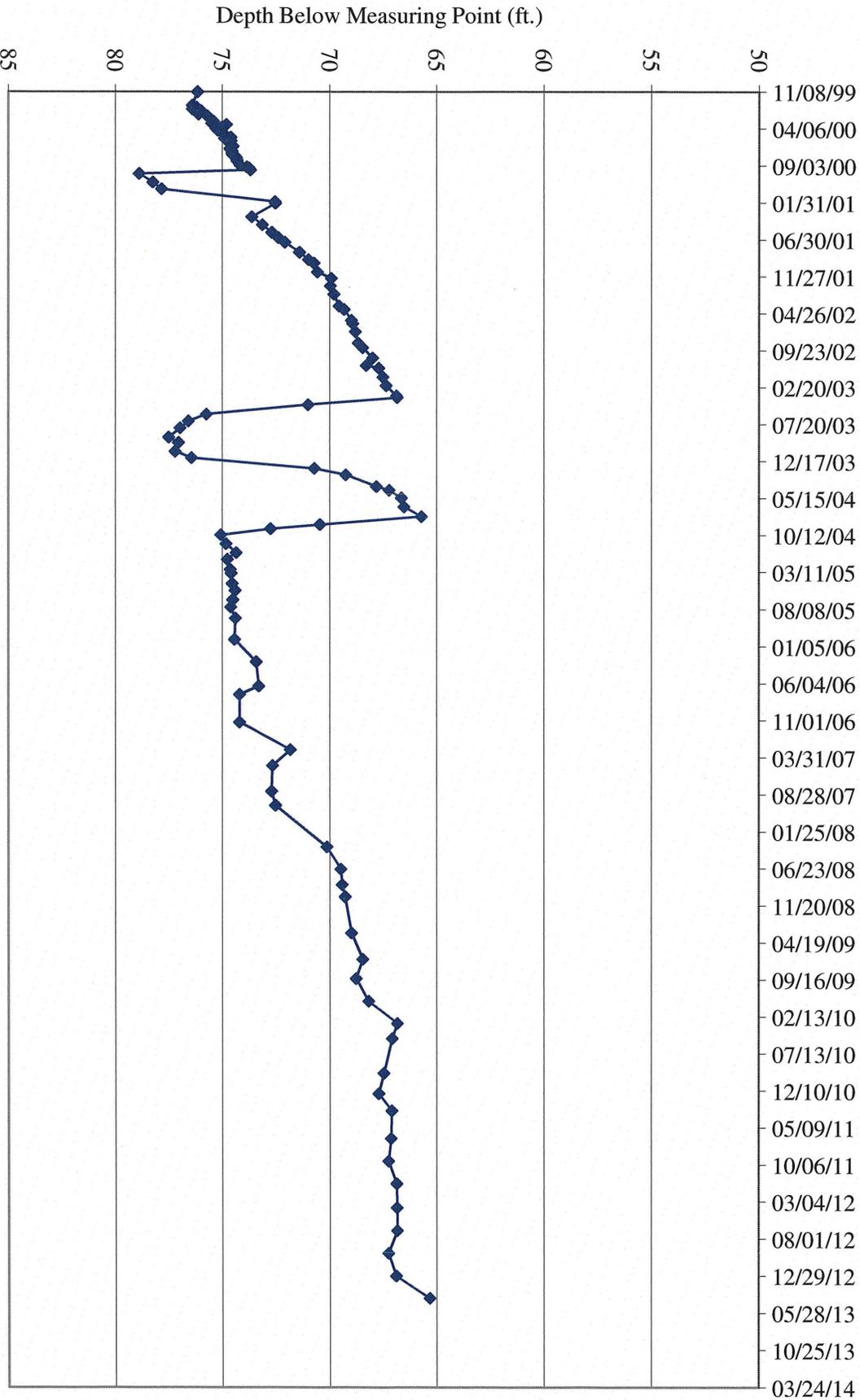
MW-4A Water Depth Over Time (ft. blmp)



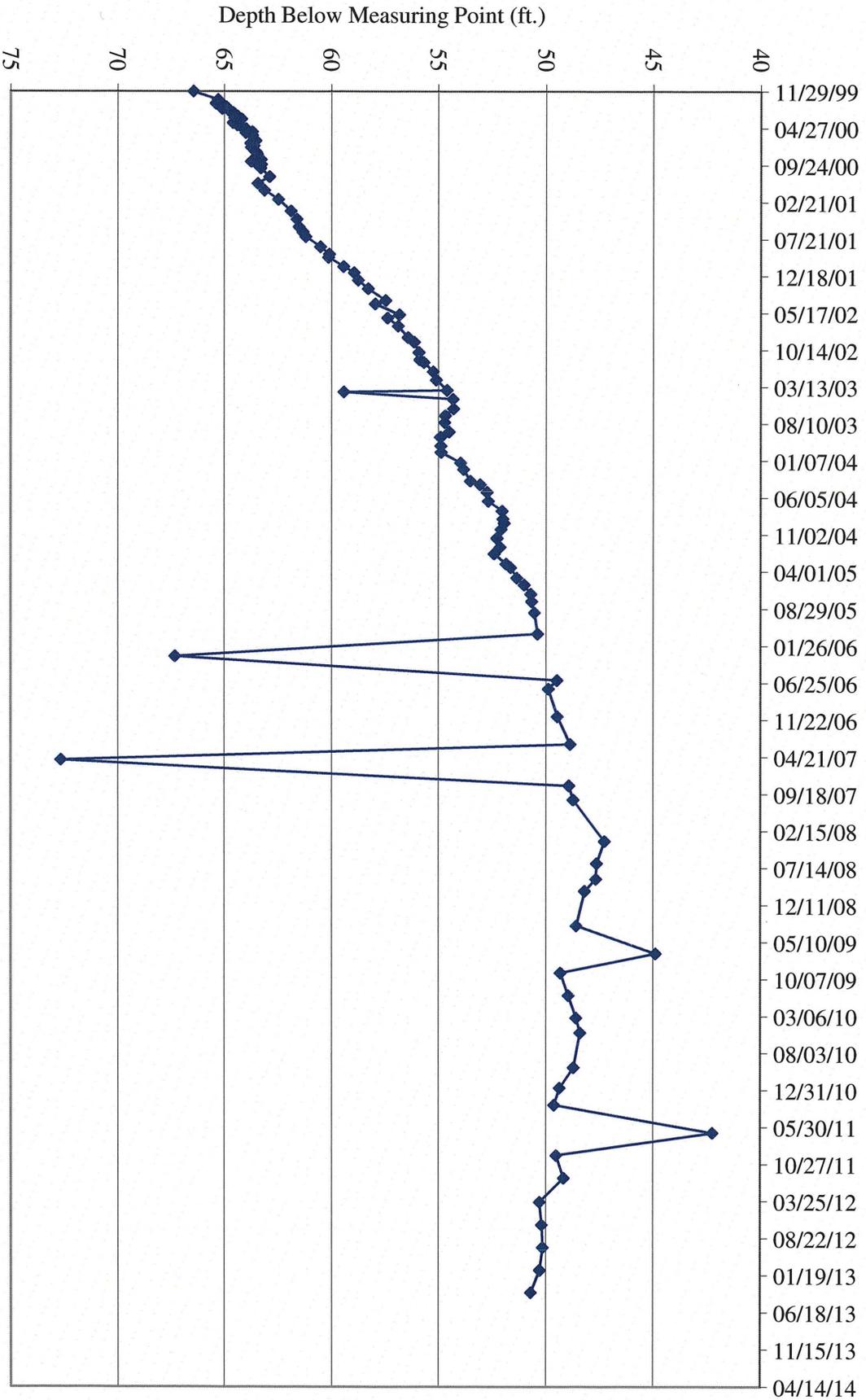
### TW4-1 Water Depth Over Time (ft. blmp)

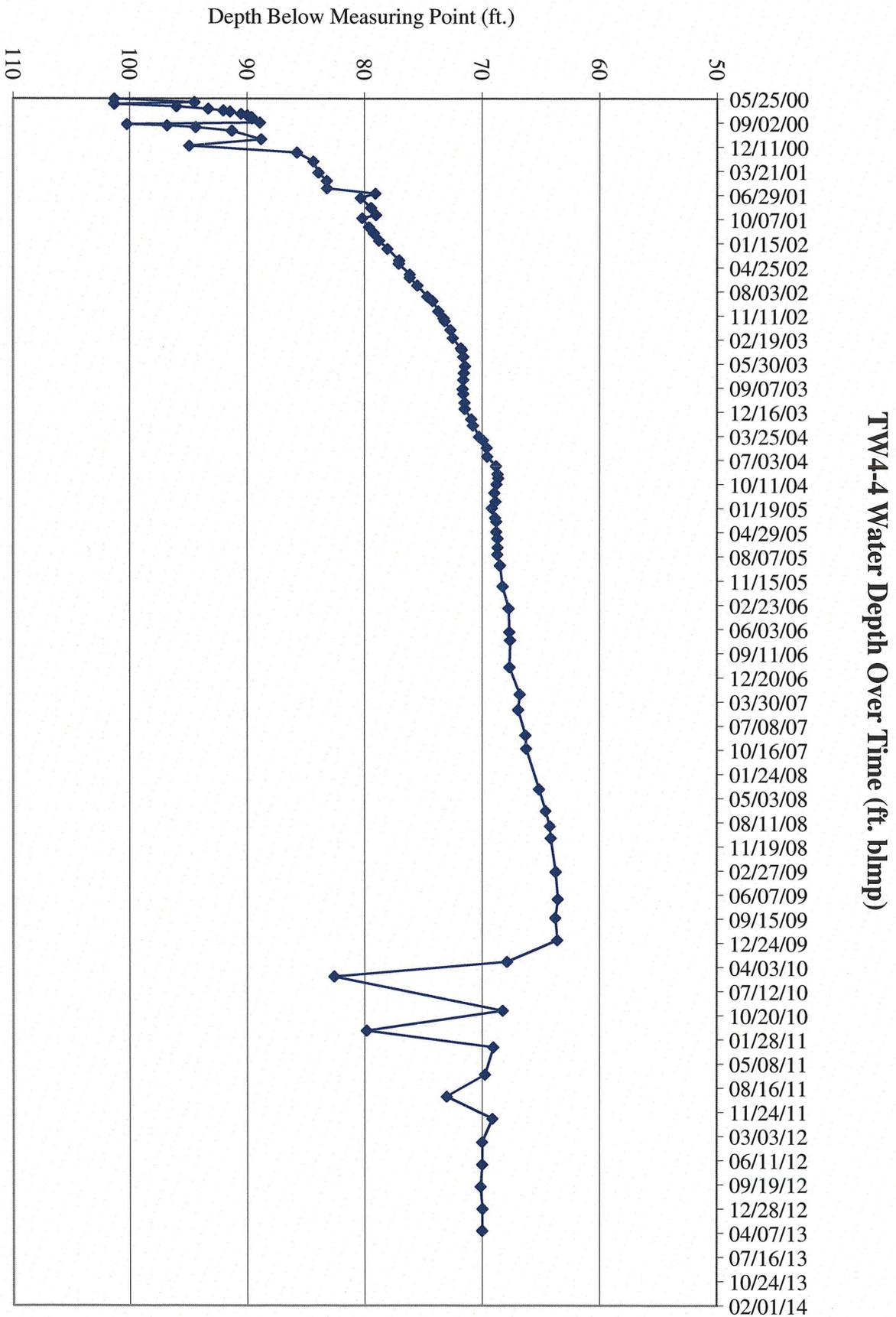


TW4-2 Water Depth Over Time (ft. blmp)

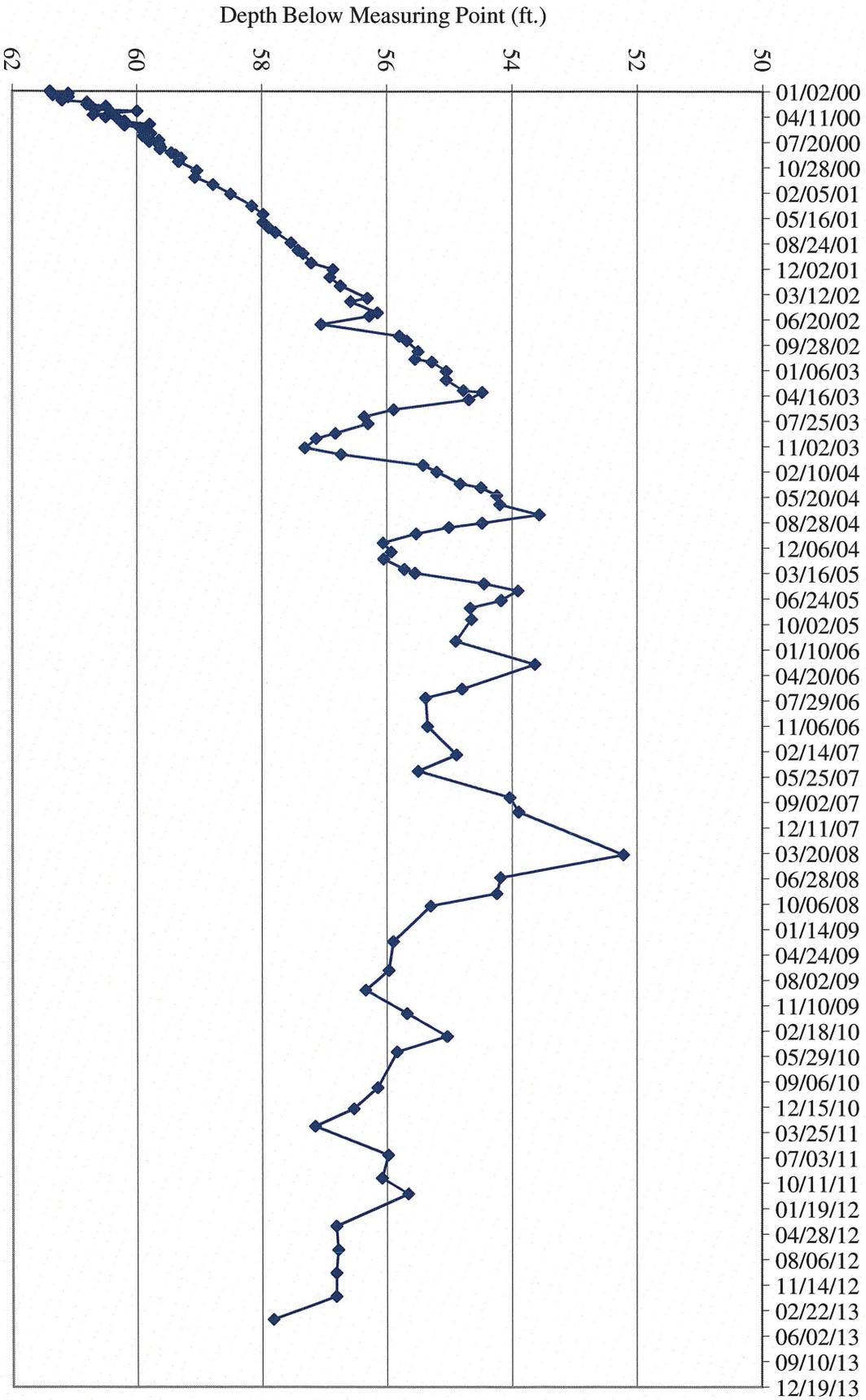


TW4-3 Water Depth Over Time (ft. blmp)

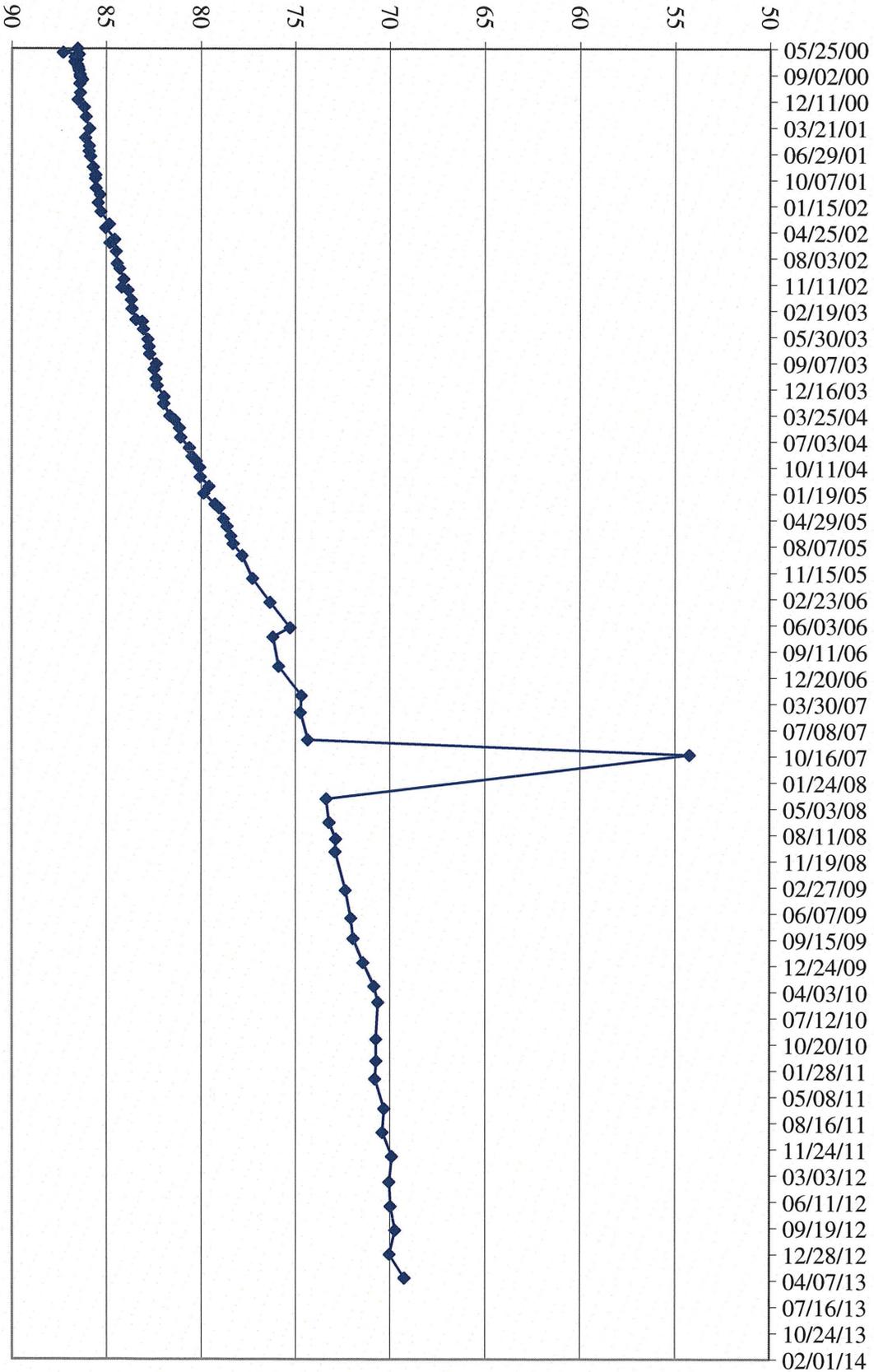




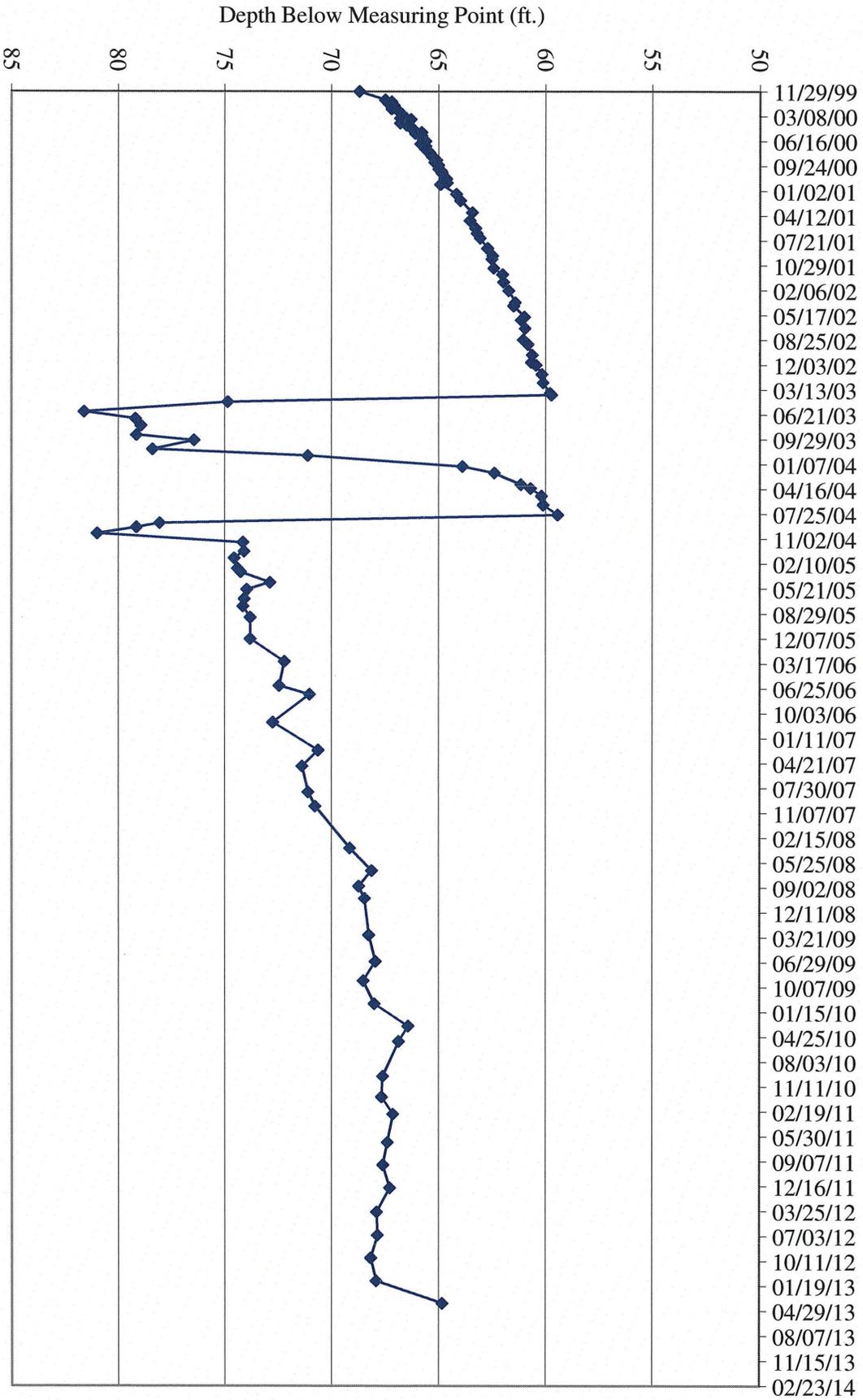
TW4-5 Water Depth Over Time (ft. blmp)



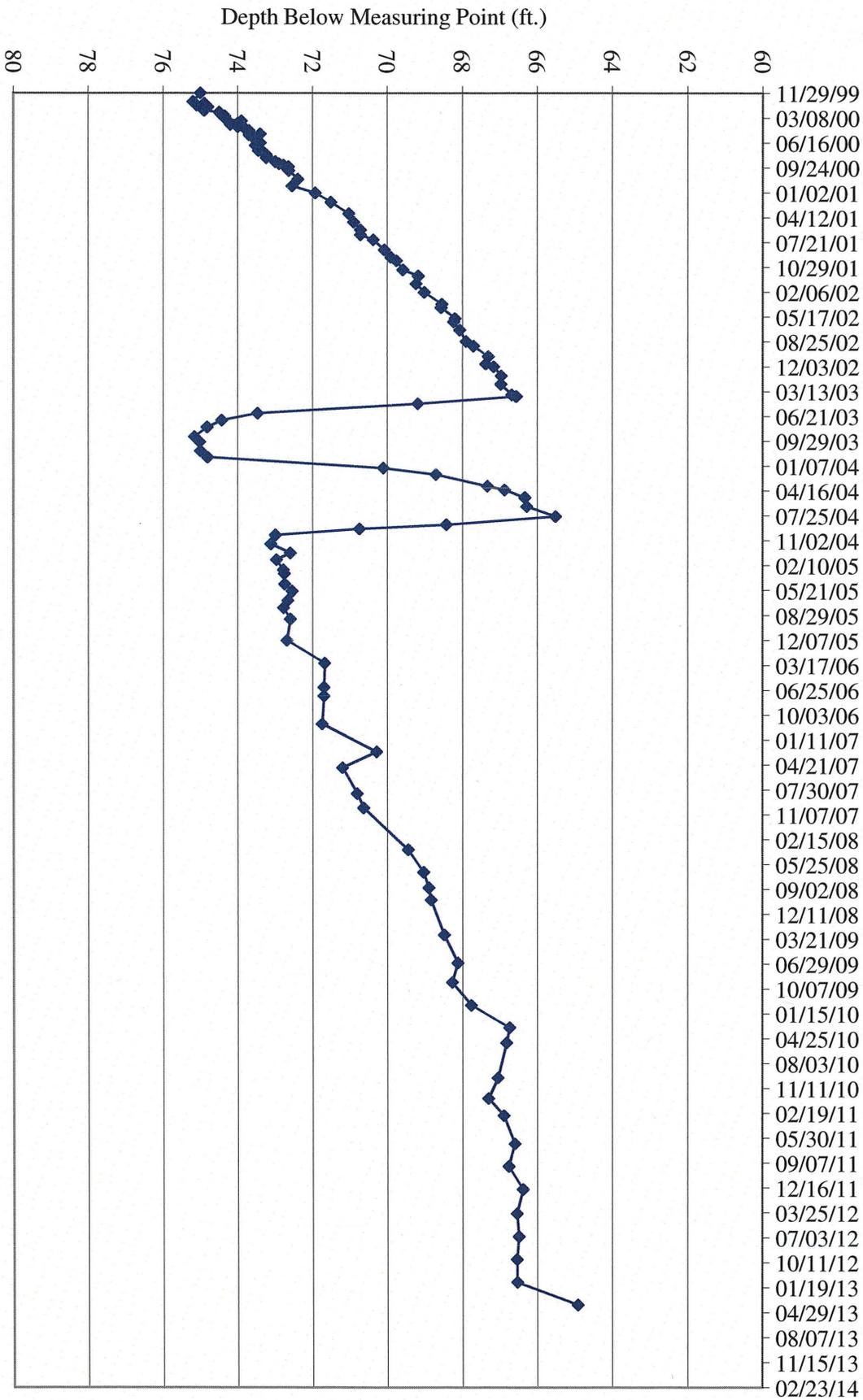
Depth Below Measuring Point (ft.)



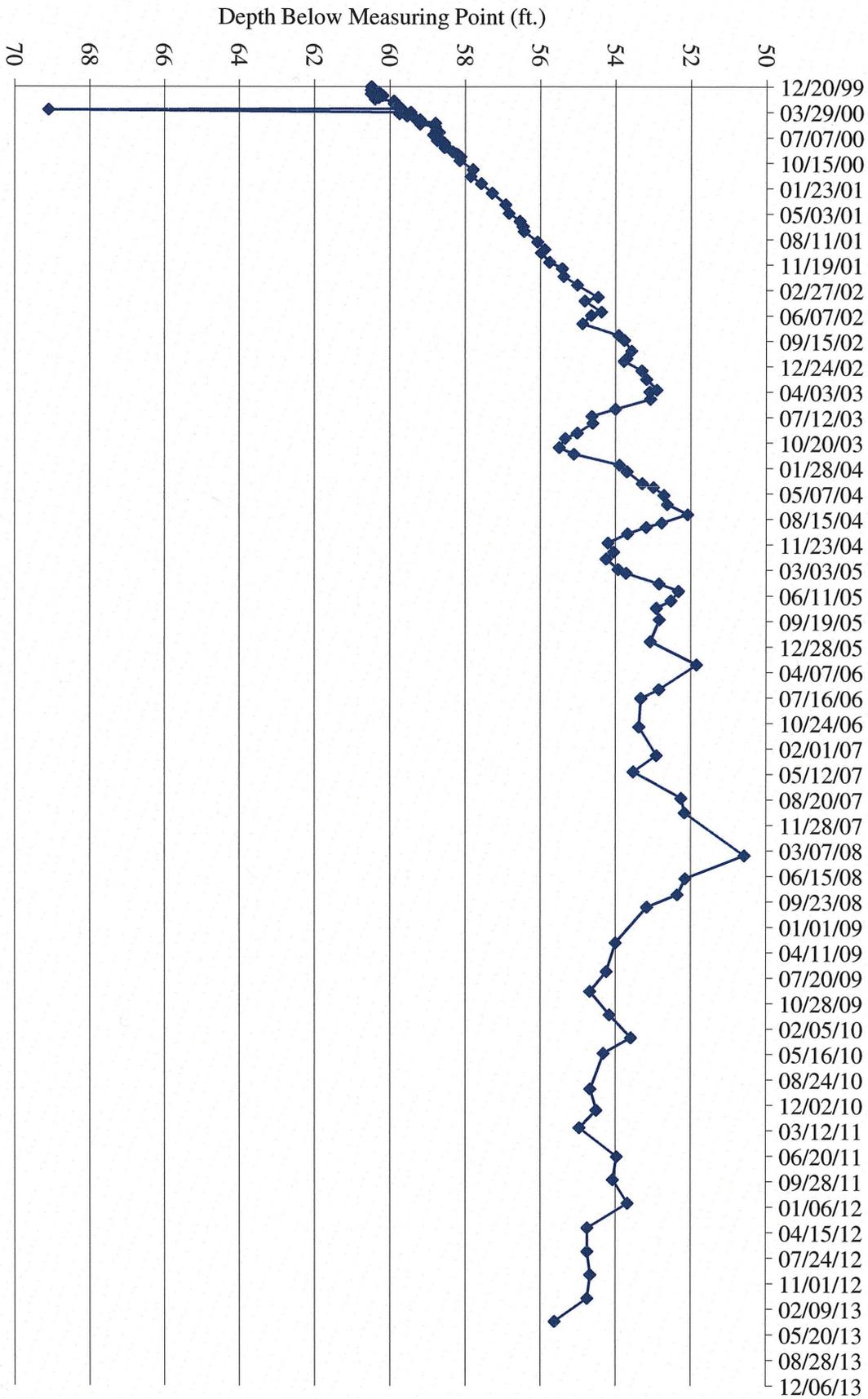
TW4-7 Water Depth Over Time (ft. blmp)

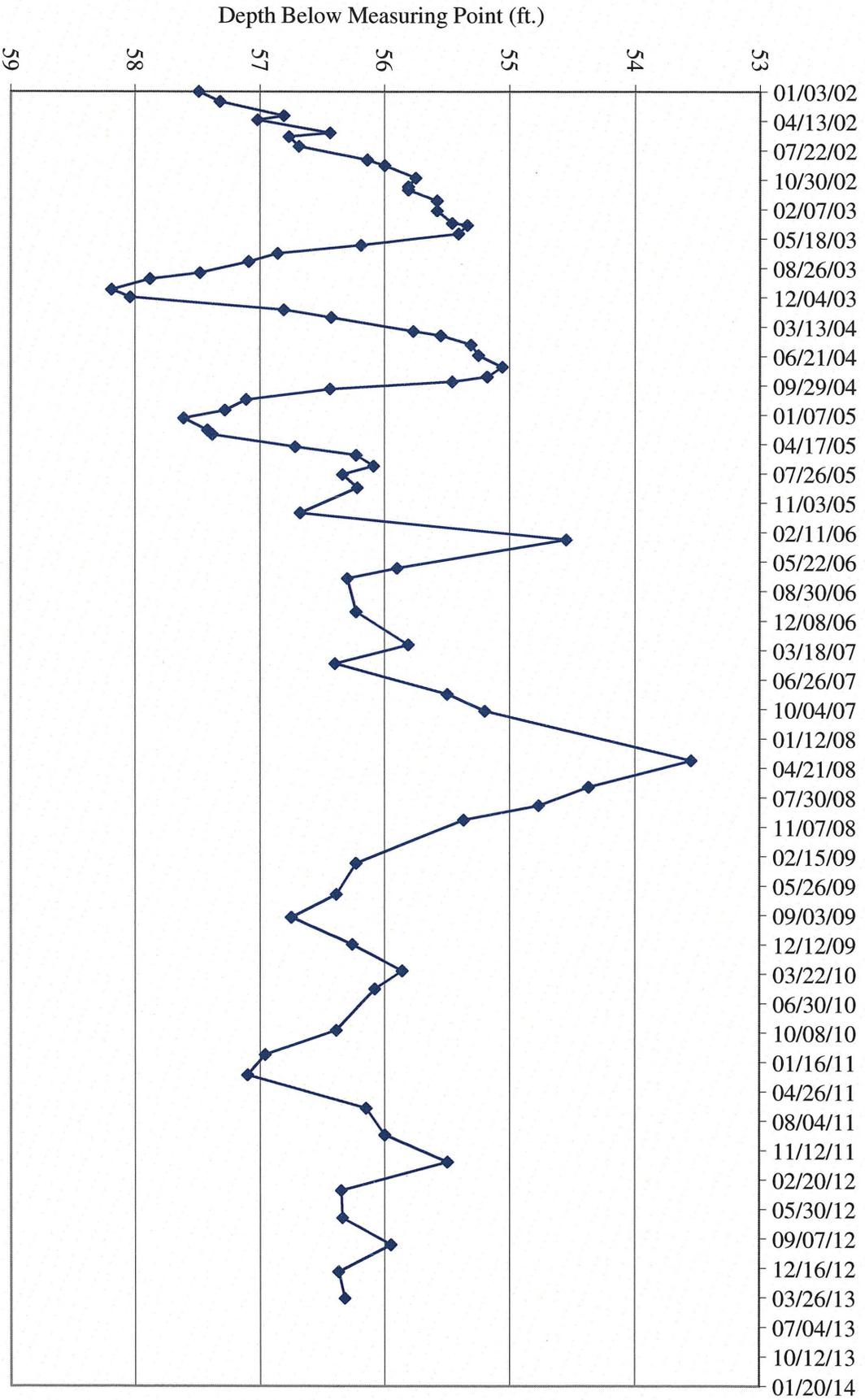


TW4-8 Water Depth Over Time (ft. blmp)



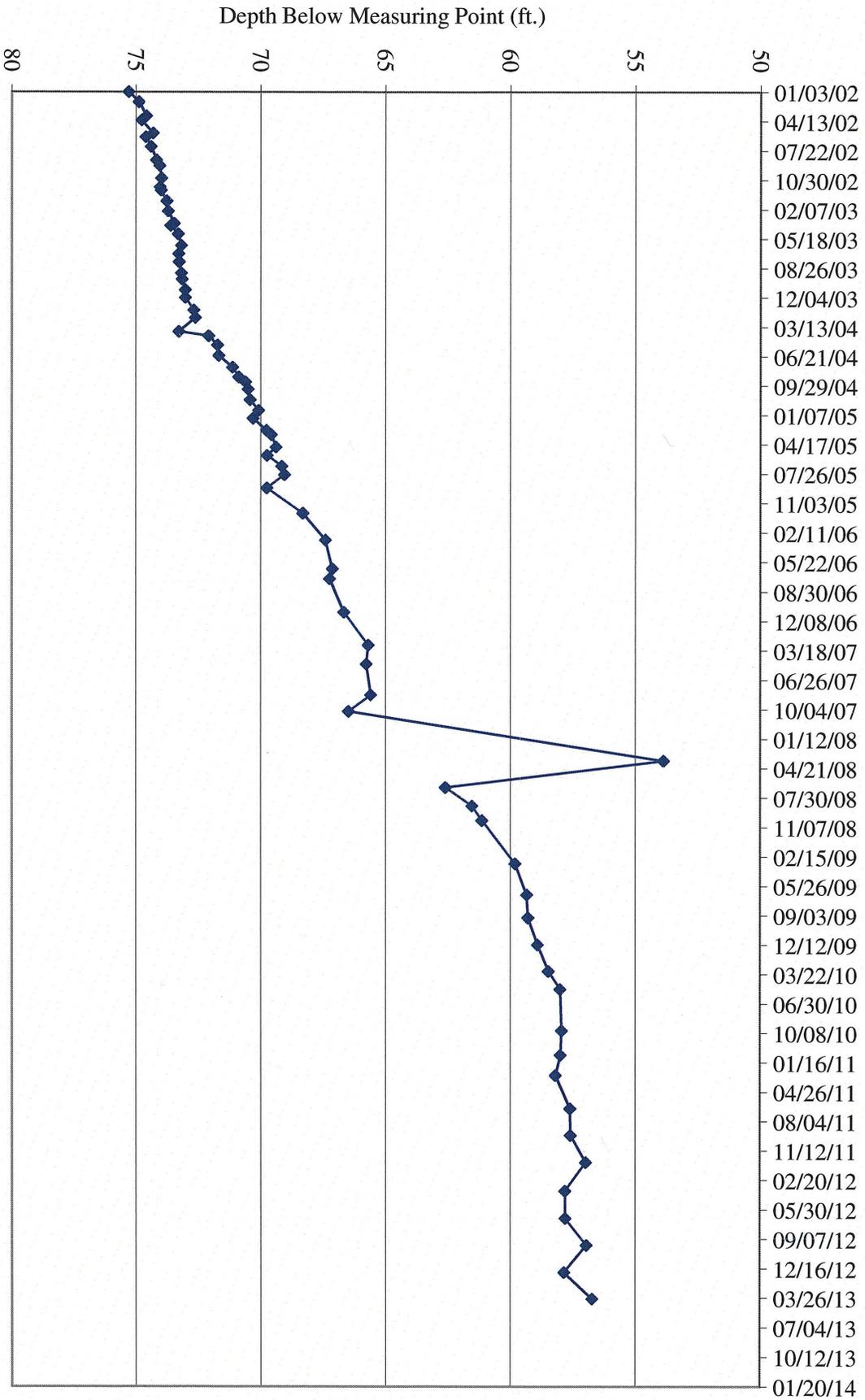
TW4-9 Water Depth Over Time (ft. blmp)



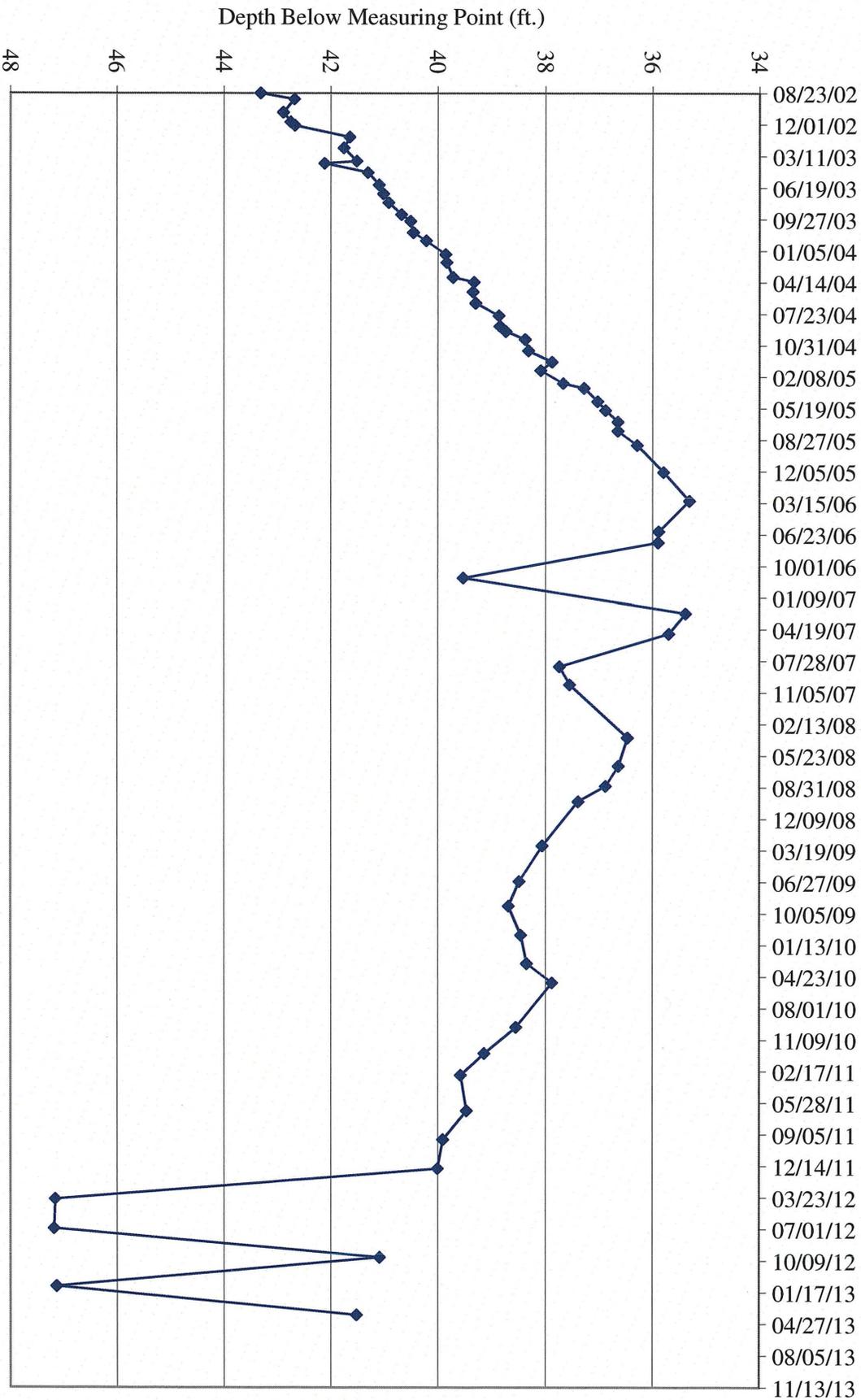


TW4-10 Water Depth Over Time (ft. blmp)

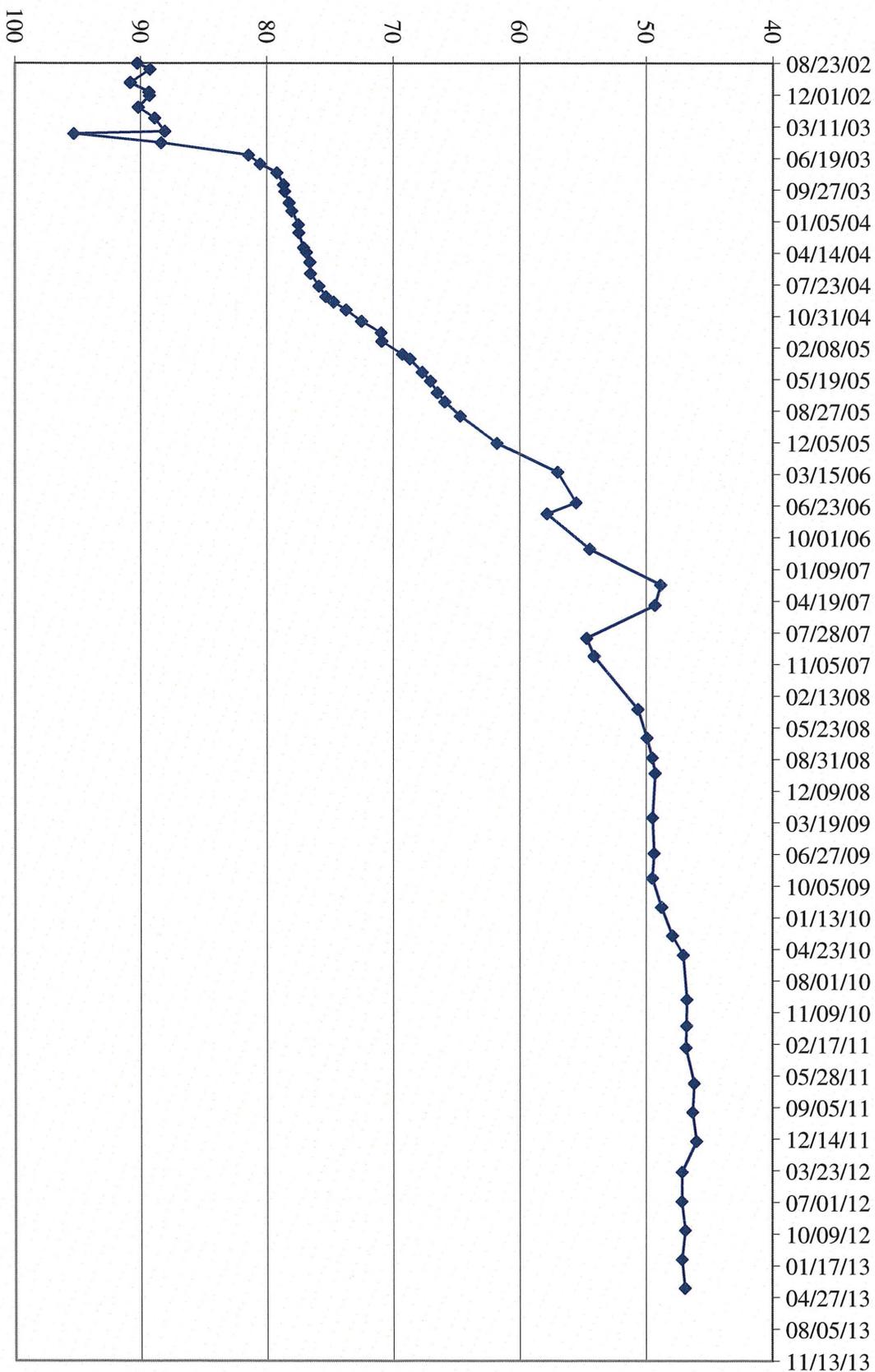
TW4-11 Water Depth Over Time (ft. blmp)



TW4-12 Water Depth Over Time (ft. blmp)

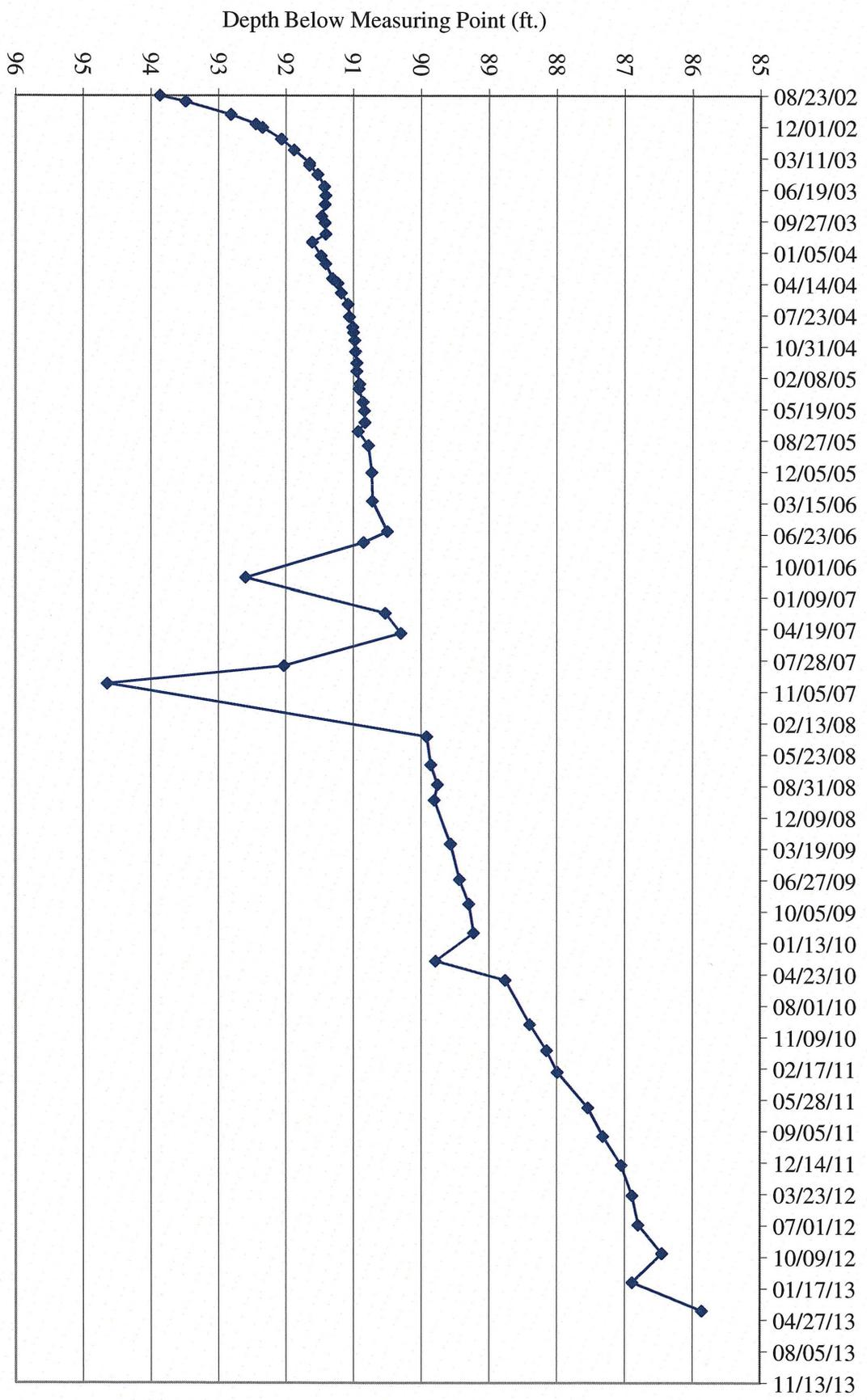


Depth Below Measuring Point (ft.)

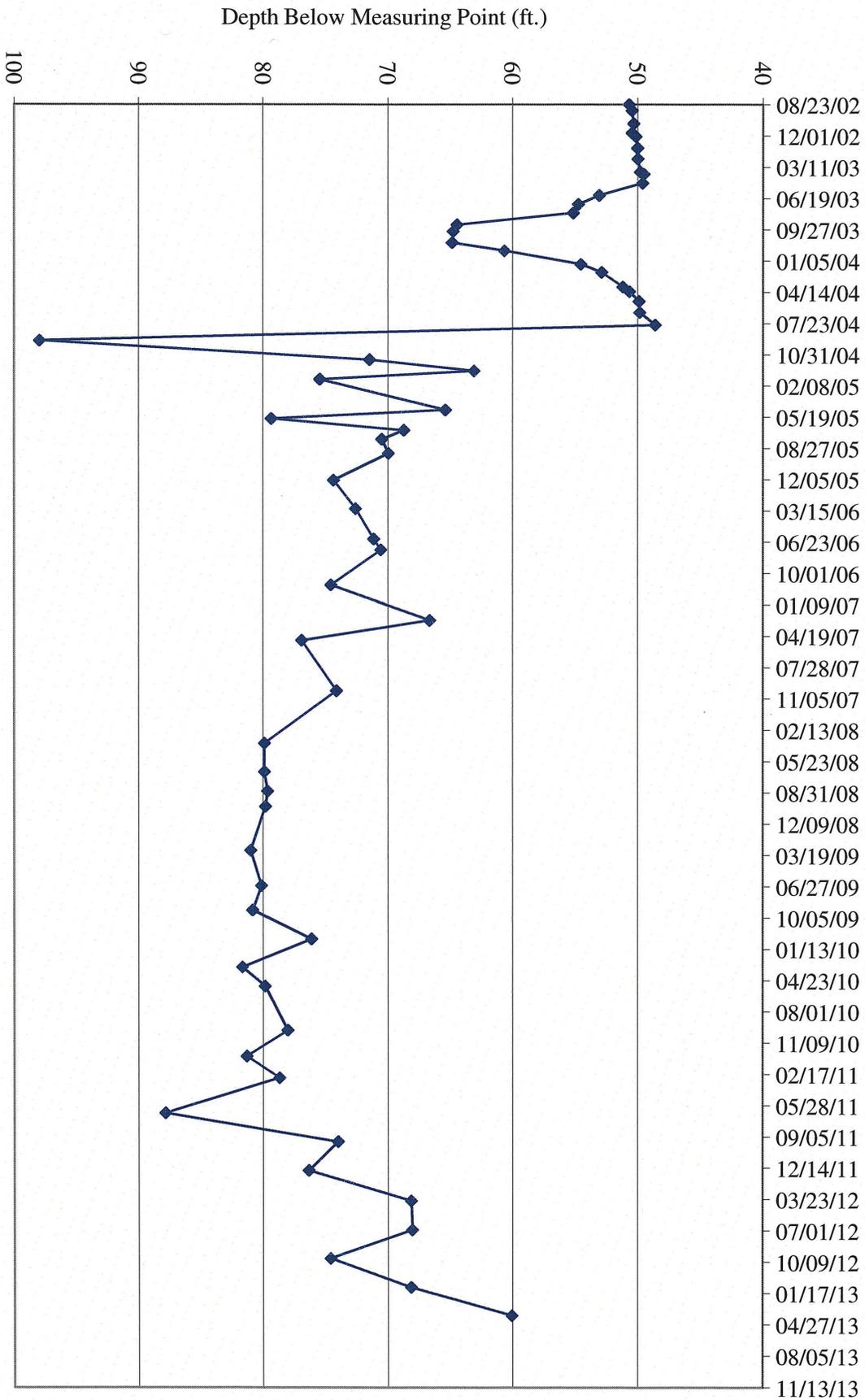


TW4-13 Water Depth Over Time (ft. blmp)

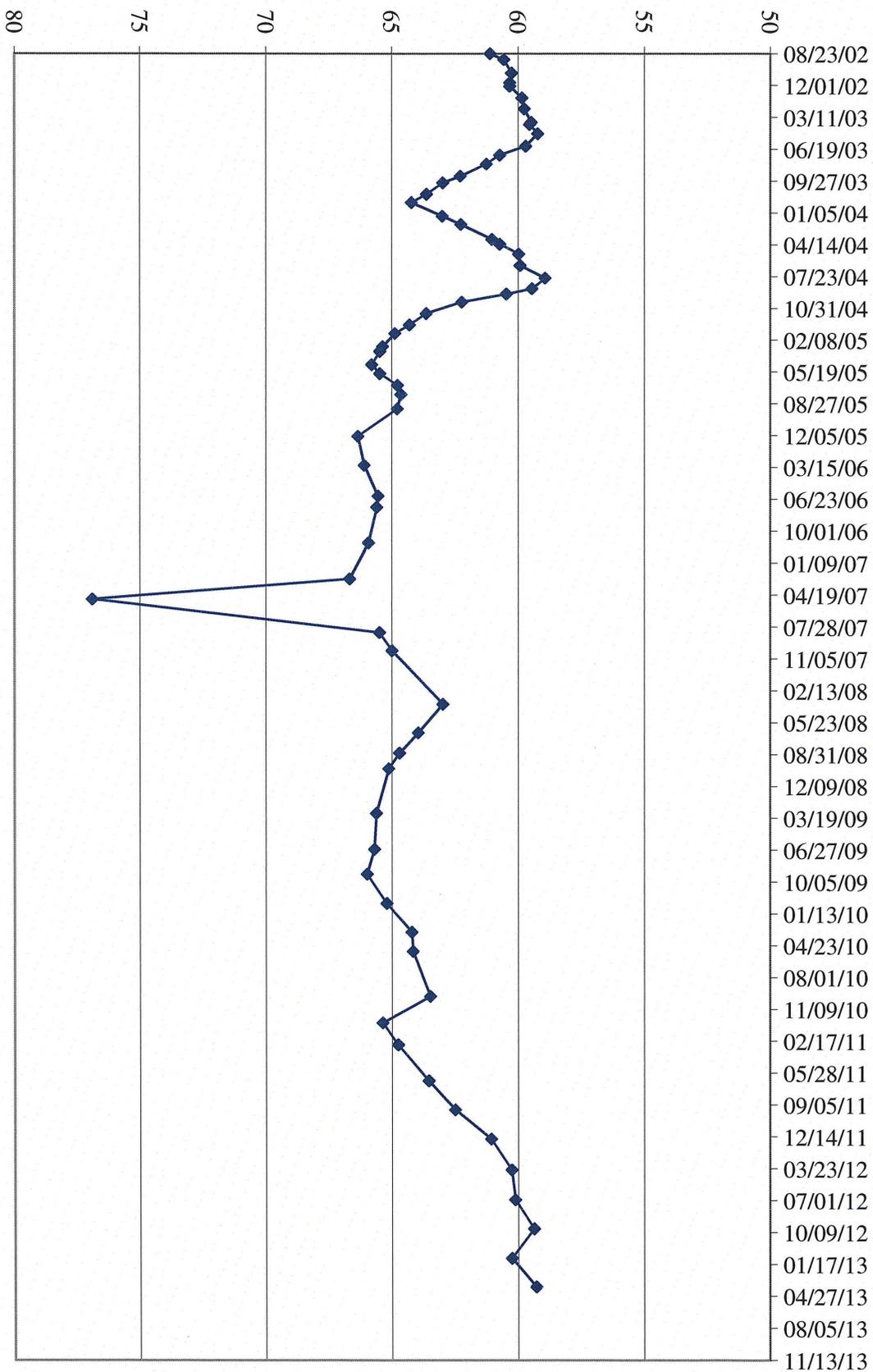
TW4-14 Water Depth Over Time (ft. blmp)



**MW-26 Water Depth Over Time (ft. blmp)**

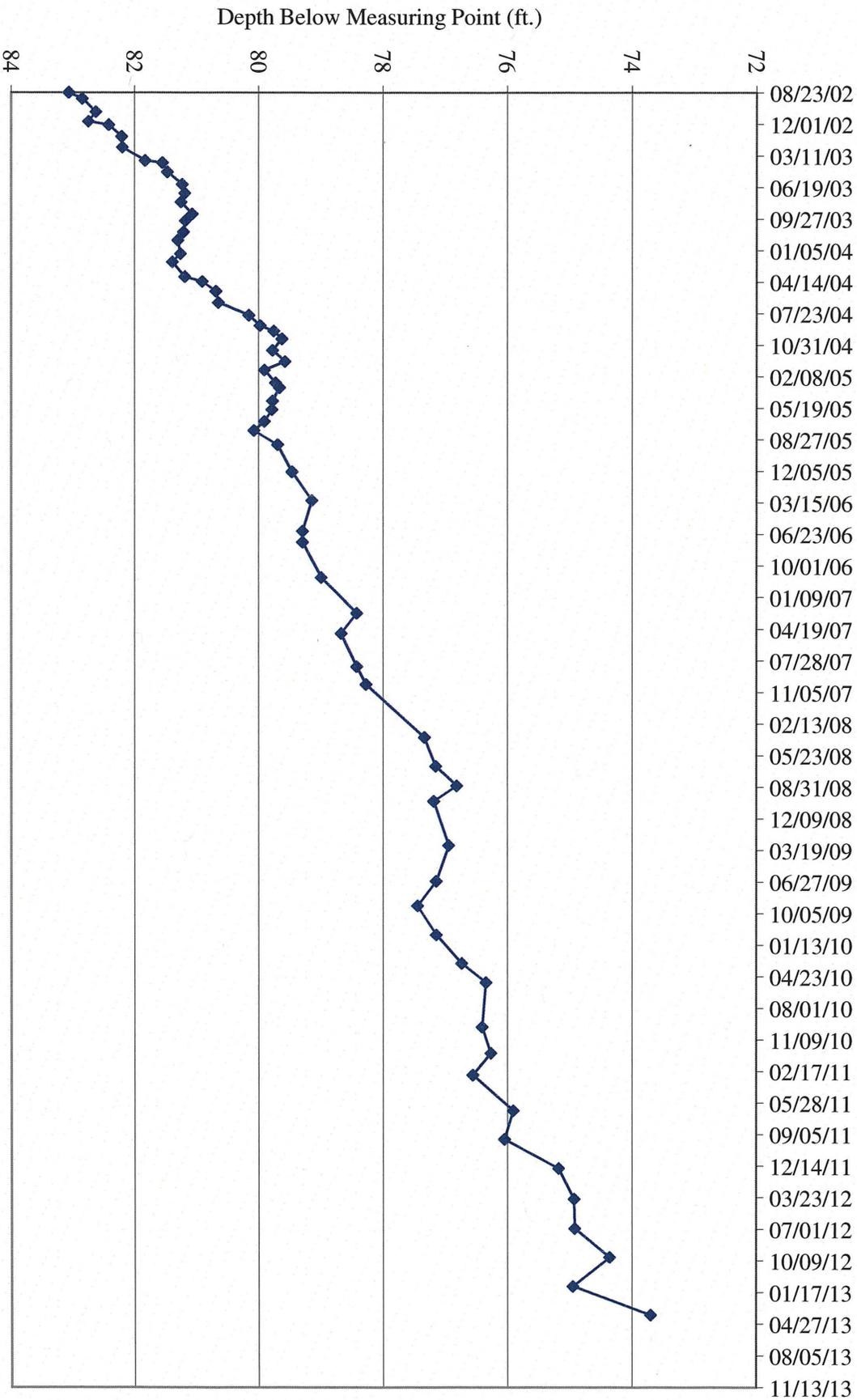


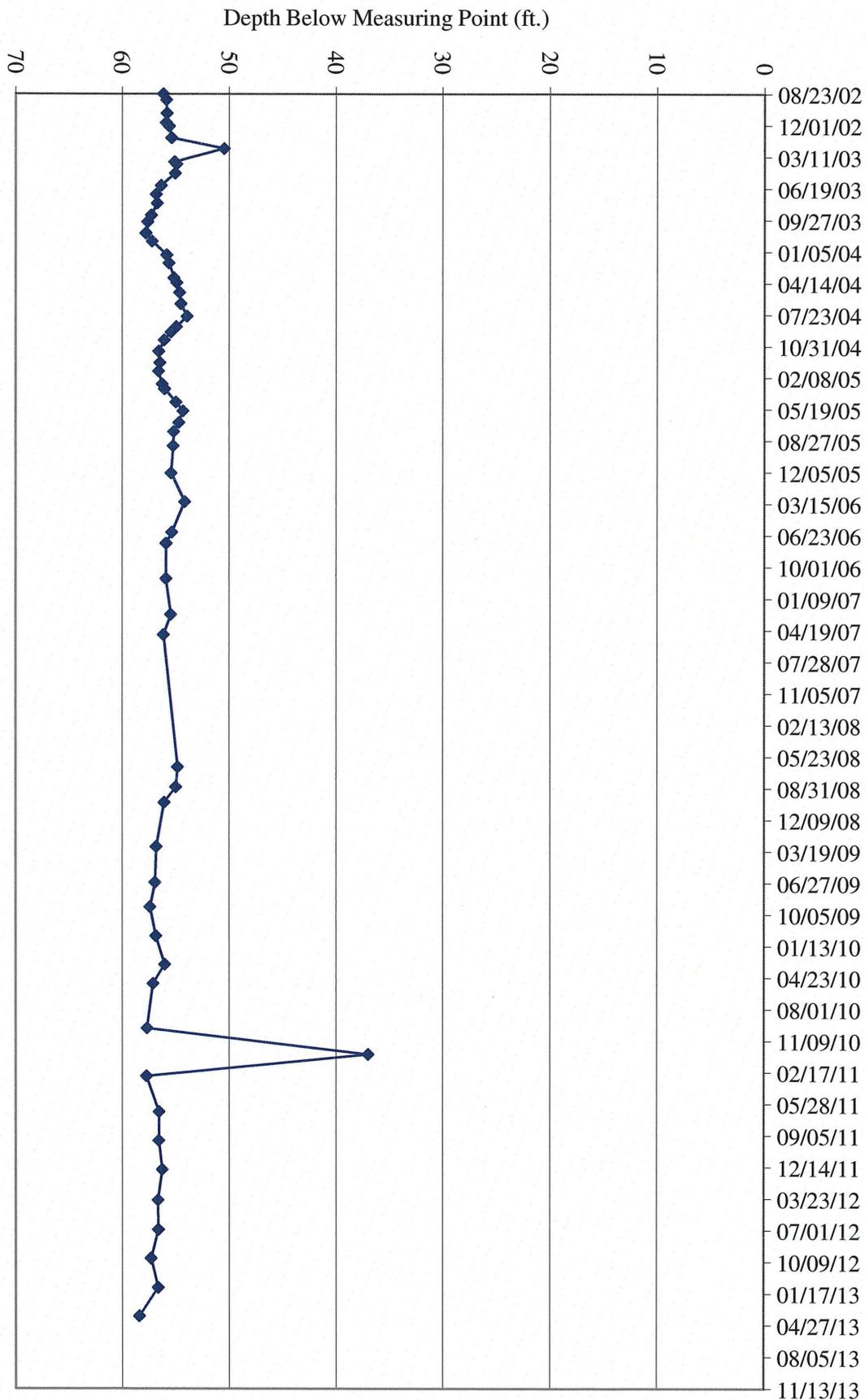
Depth Below Measuring Point (ft.)



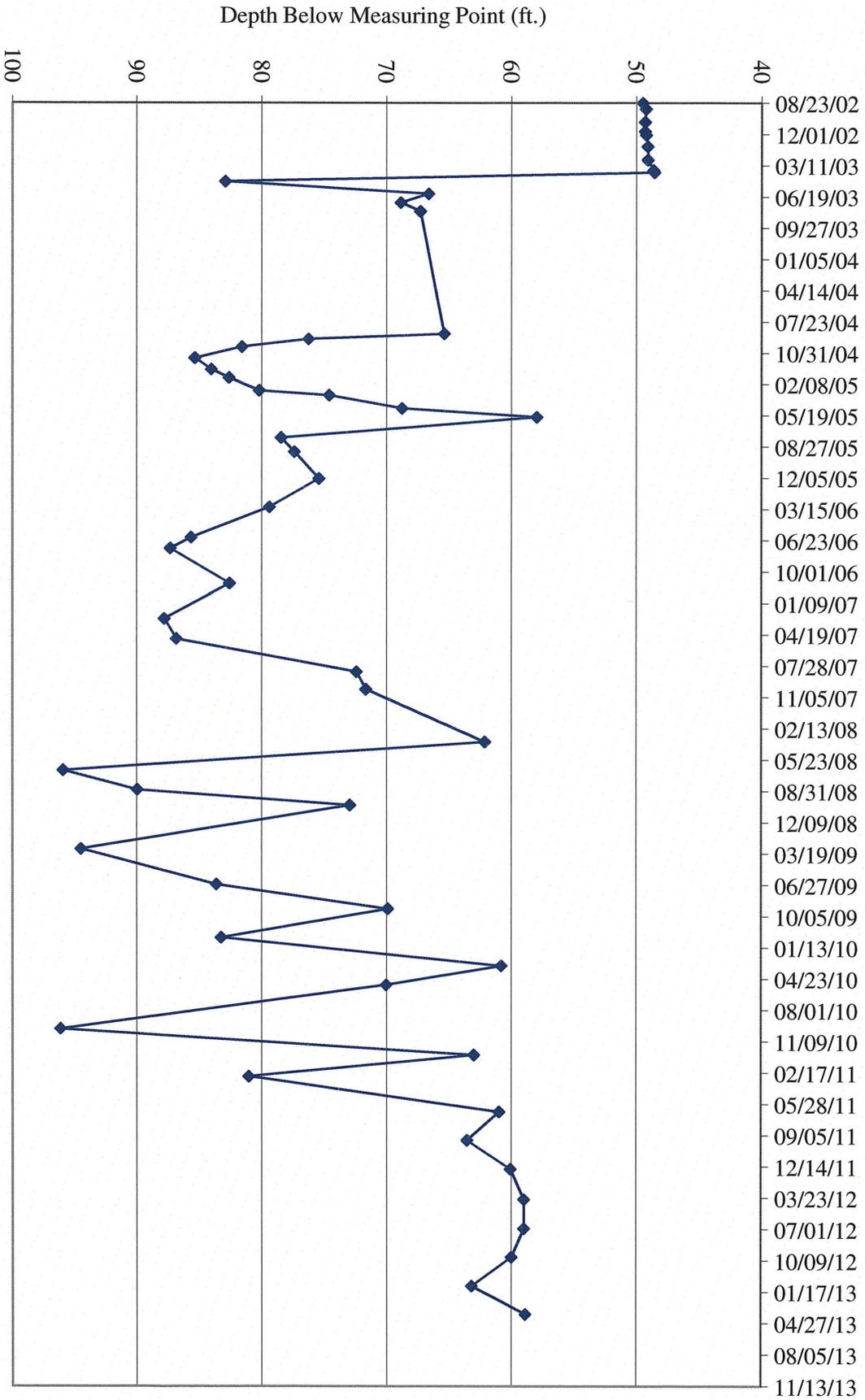
TW4-16 Water Depth Over Time (ft. blmp)

**MW-32 Water Depth Over Time (ft. blmp)**



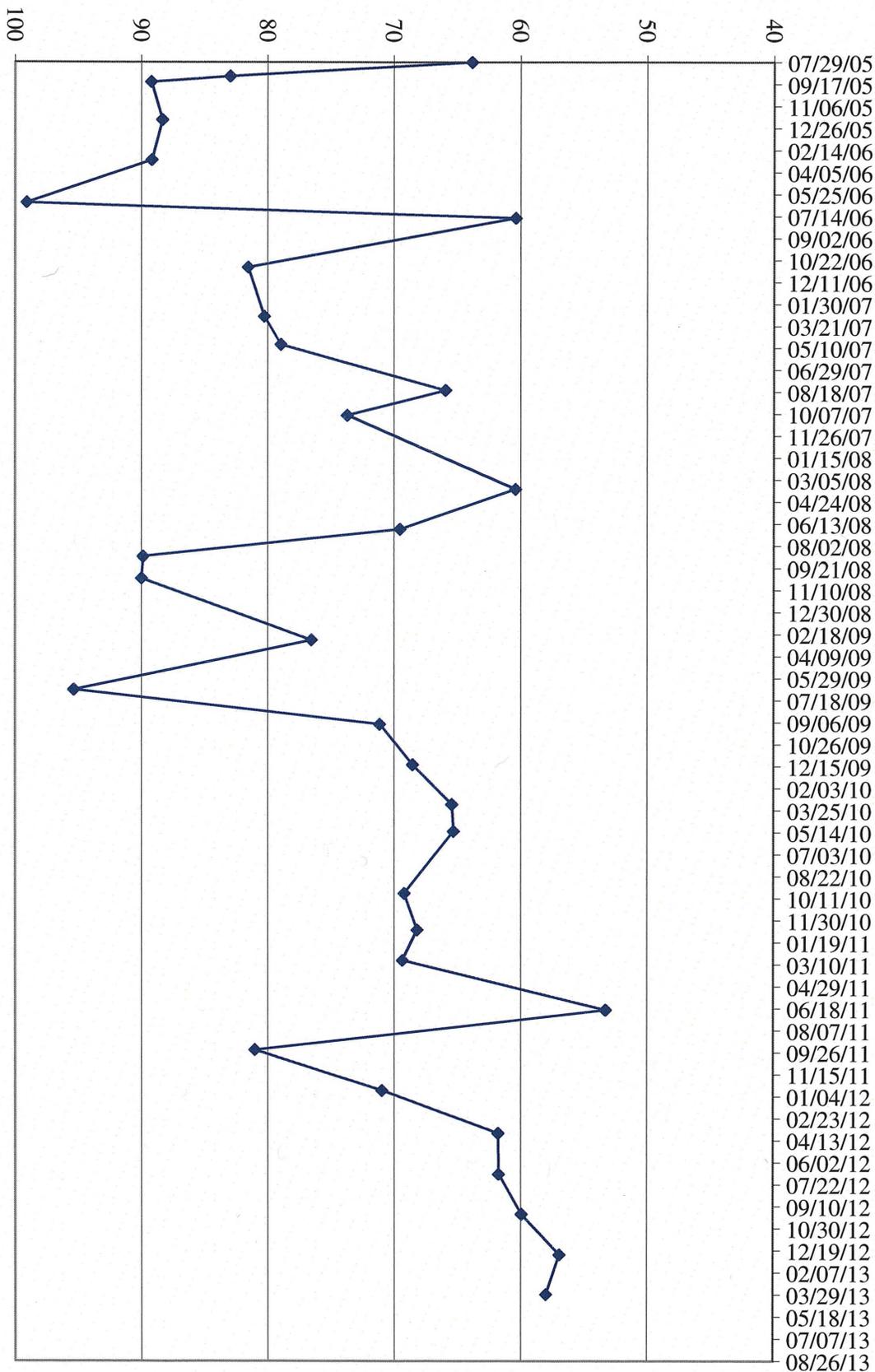


TW4-18 Water Depth Over Time (ft. blmp)

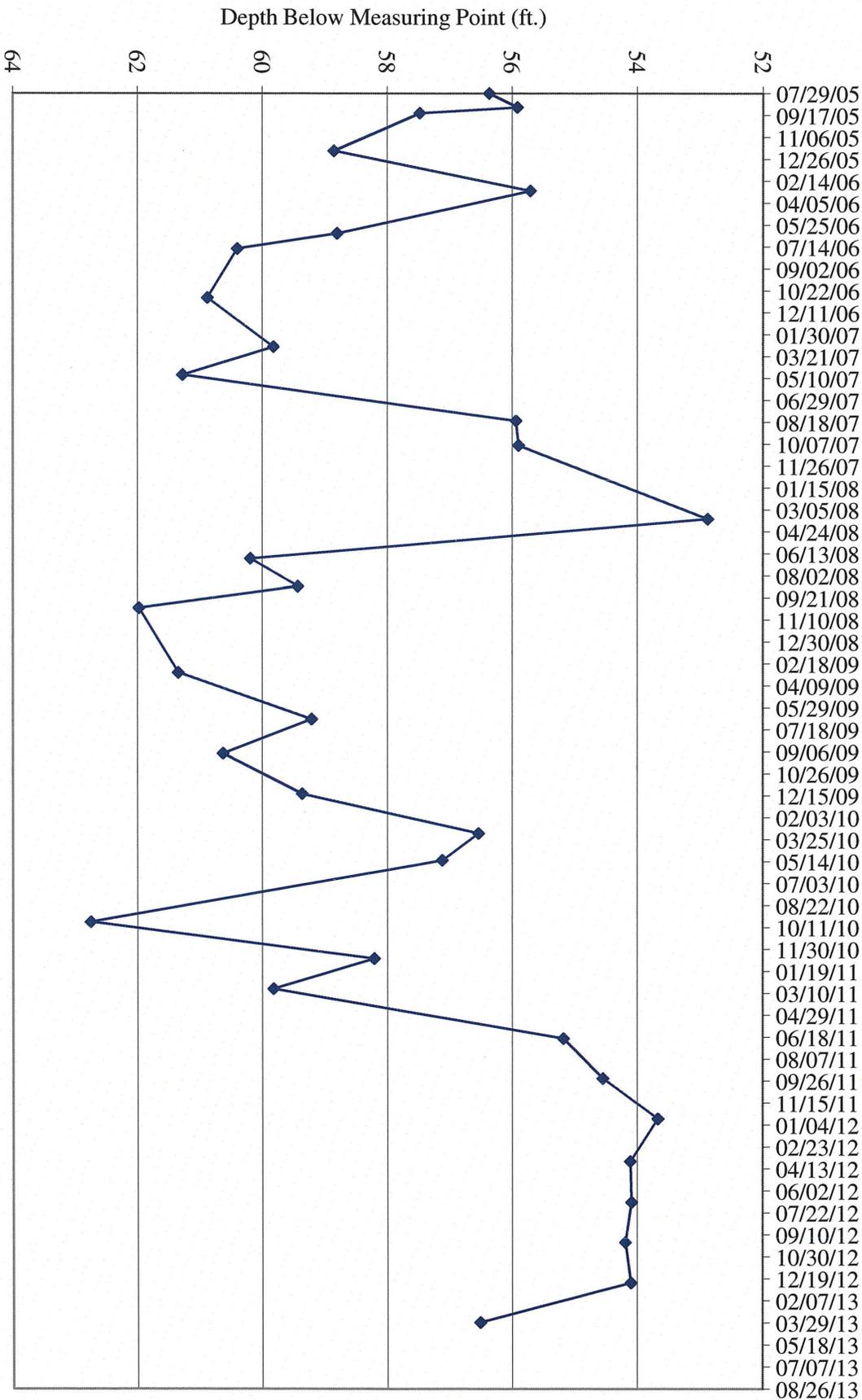


TW4-19 Water Depth Over Time (ft. blmp)

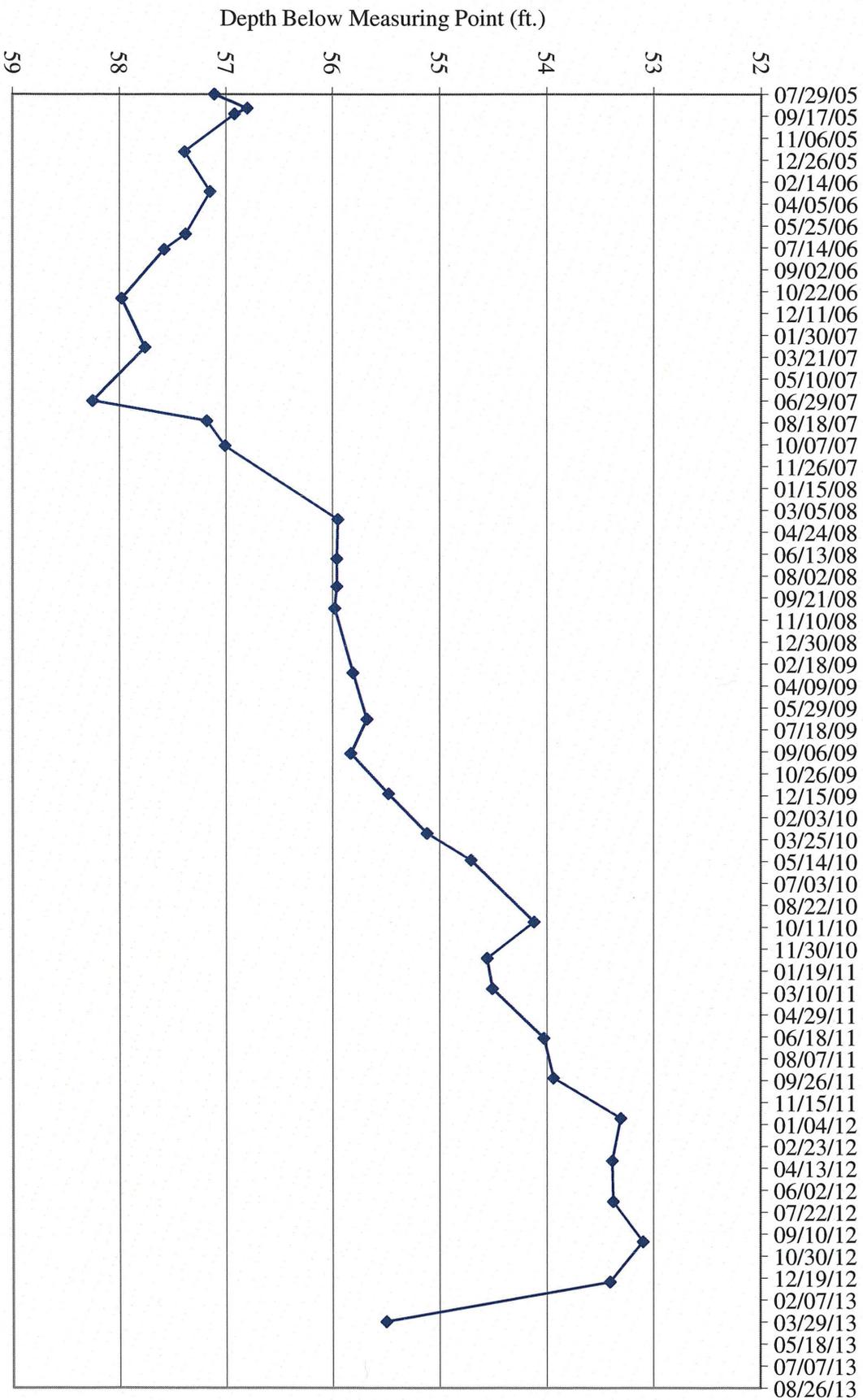
Depth Below Measuring Point (ft.)



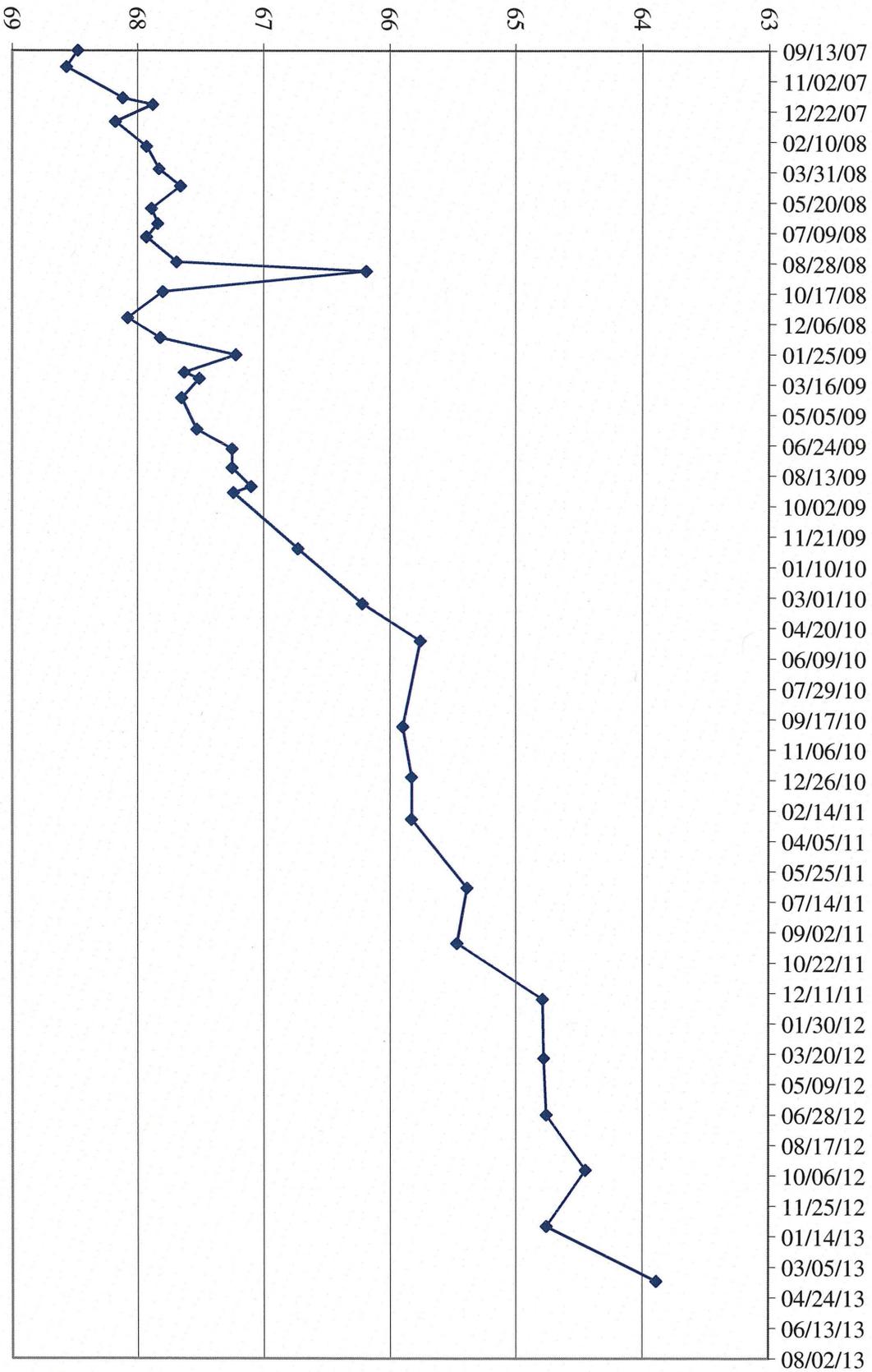
TW4-21 Water Depth Over Time (ft. blmp)



TW4-22 Water Depth Over Time (ft. blmp)

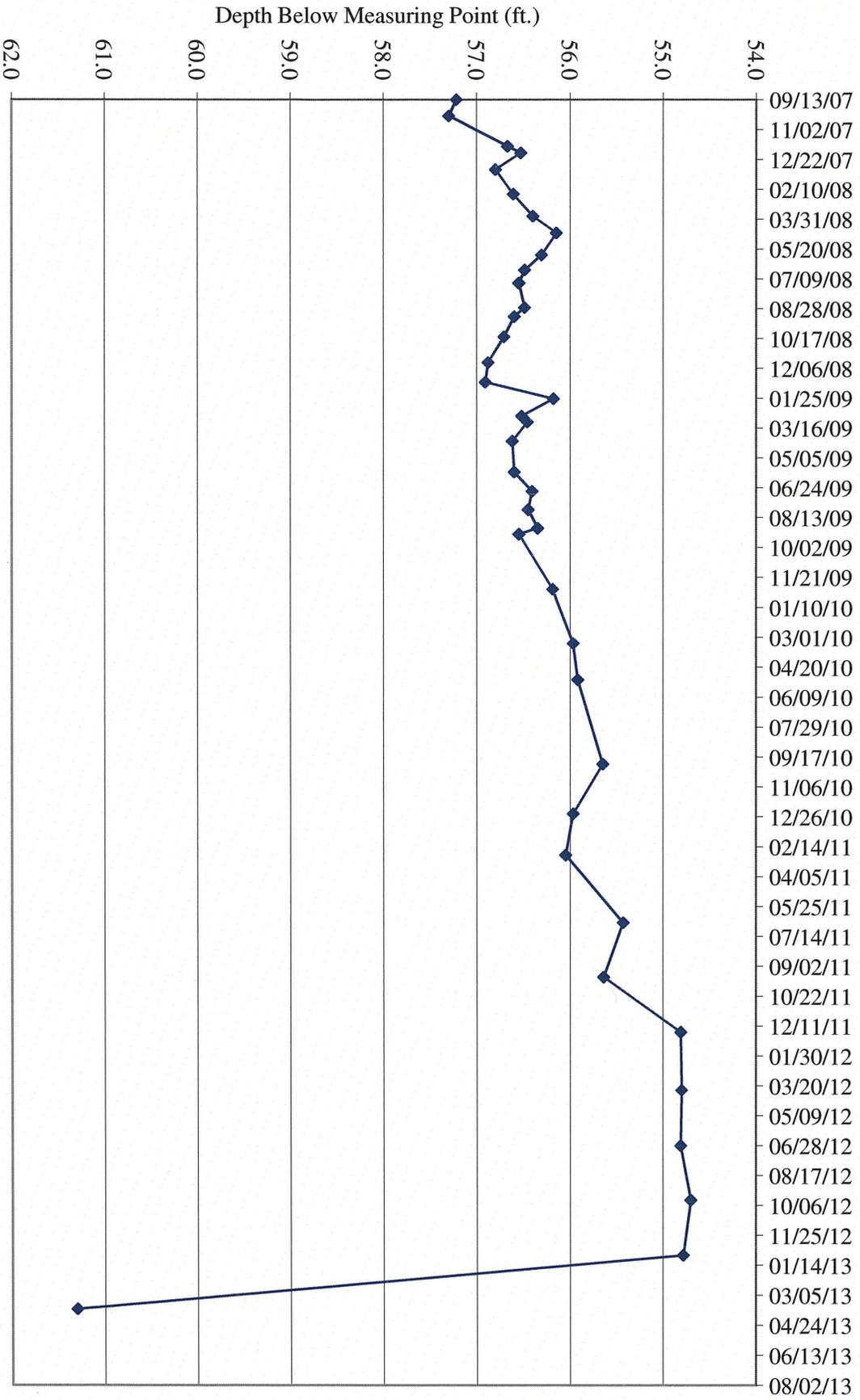


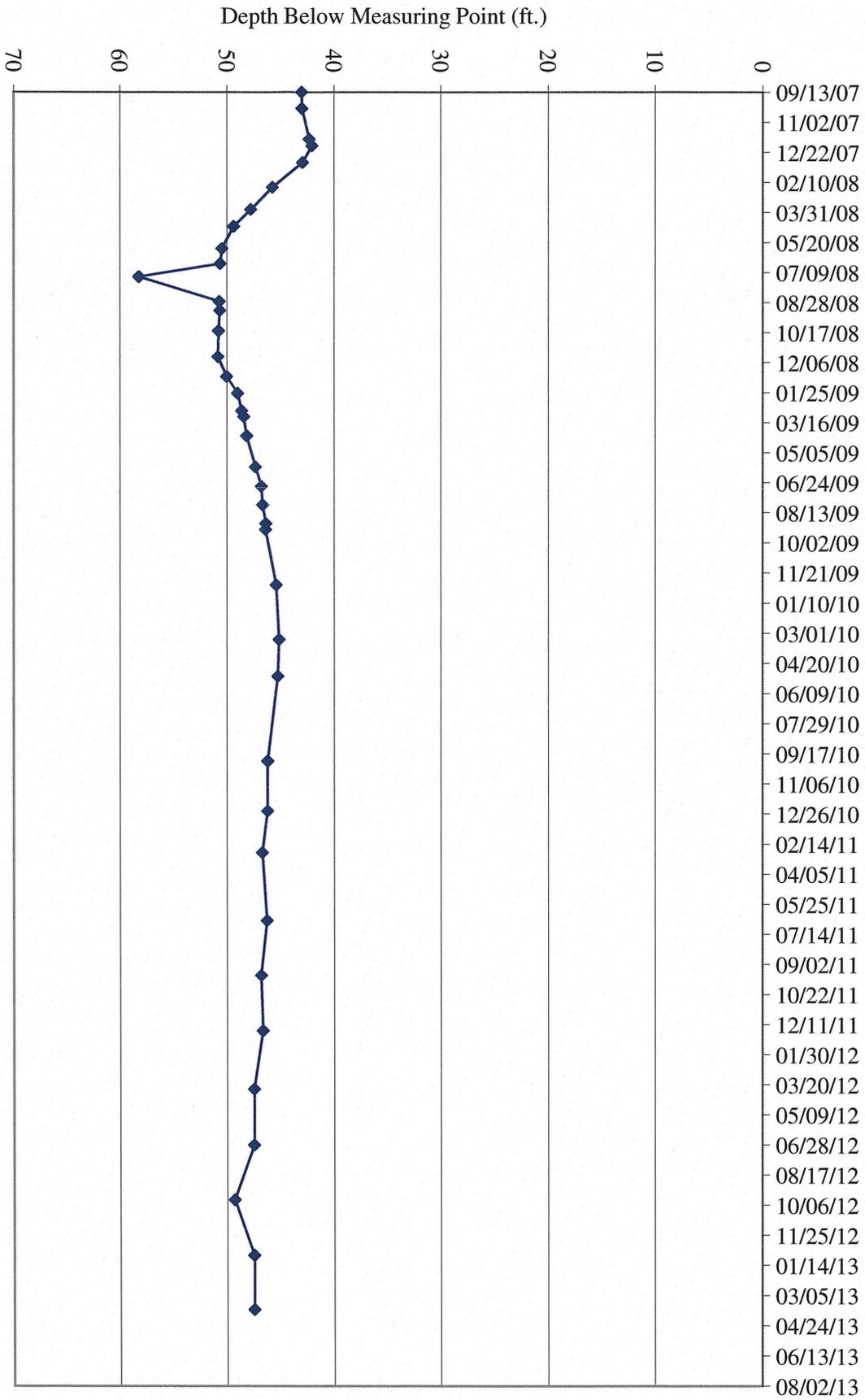
Depth Below Measuring Point (ft.)



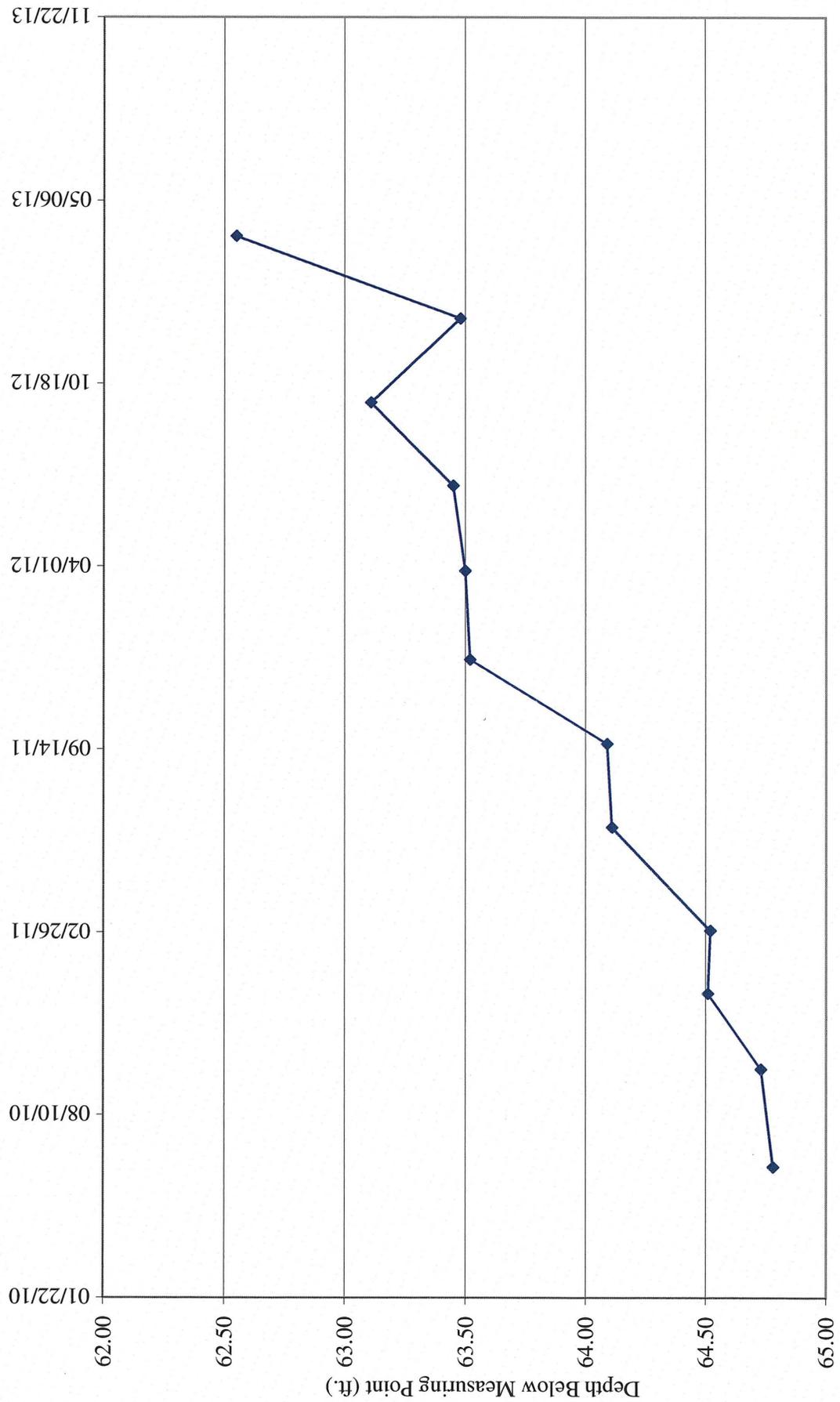
TW4-23 Water Depth Over Time (ft. blmp)

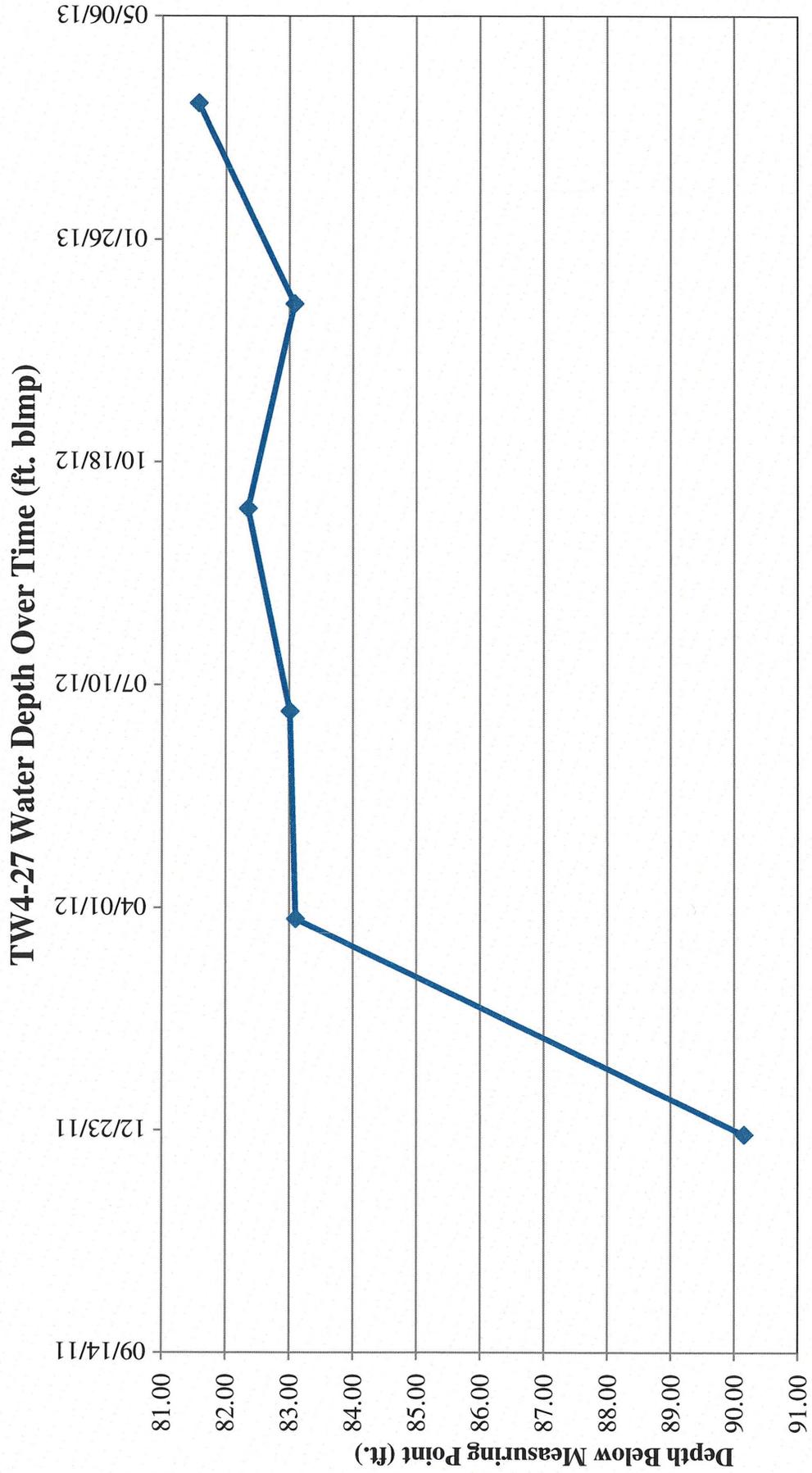
TW4-24 Water Depth Over Time (ft. blmp)





TW4-26 Water Depth Over Time (ft. blmp)





Tab G

Depths to Groundwater and Elevations Over Time for Chloroform Monitoring Wells

**Water Levels and Data over Time**  
**White Mesa Mill - Well MW4**

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	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**

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	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**

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	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**

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	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**

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	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	
5,552.30				03/28/13	70.03	68.47	

**Water Levels and Data over Time  
White Mesa Mill - Well MW-4A**

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	5,620.51	5,622.31	1.80				121.33
5,560.53				8/23/02	61.78	59.98	
5,560.76				9/11/02	61.55	59.75	
5,560.96				10/23/02	61.35	59.55	
5,561.00				11/22/02	61.31	59.51	
5,561.19				12/3/02	61.12	59.32	
5,561.46				1/9/03	60.85	59.05	
5,561.48				2/12/03	60.83	59.03	
5,561.96				3/26/03	60.35	58.55	
5,561.94				4/2/03	60.37	58.57	
5,536.88				5/1/03	85.43	83.63	
5,529.35				6/9/03	92.96	91.16	
5,535.54				7/7/03	86.77	84.97	
5,534.74				8/4/03	87.57	85.77	
5,536.74				9/11/03	85.57	83.77	
5,540.24				10/2/03	82.07	80.27	
5,536.13				11/7/03	86.18	84.38	
5,550.77				12/3/03	71.54	69.74	
5,557.67				1/15/04	64.64	62.84	
5,558.87				2/10/04	63.44	61.64	
5,560.16				3/28/04	62.15	60.35	
5,560.63				4/12/04	61.68	59.88	
5,561.14				5/13/04	61.17	59.37	
5,561.56				6/18/04	60.75	58.95	
5,561.95				7/28/04	60.36	58.56	
5,529.25				8/30/04	93.06	91.26	
5,536.63				9/16/04	85.68	83.88	
5,529.08				10/11/04	93.23	91.43	
5,541.63				11/16/04	80.68	78.88	
5,541.20				12/22/04	81.11	79.31	
5,540.67				1/18/05	81.64	79.84	
5,543.45				2/28/05	78.86	77.06	
5,537.99				3/15/05	84.32	82.52	
5,549.27				4/26/05	73.04	71.24	
5,545.08				5/24/05	77.23	75.43	
5,544.94				6/30/05	77.37	75.57	
5,544.71				7/29/05	77.60	75.80	
5,545.23				9/12/05	77.08	75.28	
5,545.00				9/27/05	77.31	75.51	
5,537.45				12/7/05	84.86	83.06	
5,546.86				3/8/06	75.45	73.65	
5,546.66				6/13/06	75.65	73.85	
5,545.63				7/18/06	76.68	74.88	
5,546.18				11/7/06	76.13	74.33	

**Water Levels and Data over Time  
White Mesa Mill - Well MW-4A**

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	5,620.51	5,622.31	1.80				121.33
5,545.30				2/27/07	77.01	75.21	

**Water Levels and Data over Time  
White Mesa Mill - Well TW4-1**

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
<b>z</b>	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**

<b>Water Elevation (WL) z</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	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**

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
<b>z</b>	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	
5,554.73				03/28/13	63.85	62.83	

**Water Levels and Data over Time  
White Mesa Mill - Well TW4-2**

<b>Water Elevation (z)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	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**

<b>Water Elevation (z)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	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**

<b>Water Elevation (z)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	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	
5,559.39				03/28/13	65.33	63.71	

**Water Levels and Data over Time  
White Mesa Mill - Well TW4-3**

<b>Water Elevation (z)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	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**

<b>Water Elevation (z)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	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**

<b>Water Elevation (z)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	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	
5,581.52				03/28/13	50.71	49.69	

**Water Levels and Data over Time  
White Mesa Mill - Well TW4-4**

<b>Water Elevation (z)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	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**

<b>Water Elevation (z)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	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**

<b>Water Elevation (z)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	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	
5,543.49				03/28/13	70.00	68.82	

**Water Levels and Data over Time  
White Mesa Mill - Well TW4-5**

<b>Water Elevation (z)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	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**

<b>Water Elevation (z)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	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**

<b>Water Elevation (z)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	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**

<b>Water Elevation (z)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well (blw.LSD)</b>
	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**

<b>Water Elevation (z)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well (blw.LSD)</b>
	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**

<b>Water Elevation (z)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well (blw.LSD)</b>
	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	
5,539.53				03/28/13	69.25	67.80	

**Water Levels and Data over Time  
White Mesa Mill - Well TW4-7**

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well (blw.LSD)</b>
	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**

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well (blw.LSD)</b>
	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**

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well (blw.LSD)</b>
	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 TW4-7**

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well (blw.LSD)</b>
5,556.23	5,619.87	5,621.07	1.20	03/28/13	64.84	63.64	119.8

**Water Levels and Data over Time  
White Mesa Mill - Well TW4-8**

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	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**

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	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**

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	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	
5,556.48				03/28/13	64.92	60.32	

**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	Total	Total Depth Of Well
					Measured Depth to Water (blw.MP)	Depth to Water (blw.LSD)	
	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		Date Of Monitoring	Total or Measured	Total	Total Depth Of Well
		Elevation (MP)	Length Of Riser (L)		Depth to Water (blw.MP)	Depth to Water (blw.LSD)	
	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**

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	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	
5,581.97				03/28/13	55.62	54.14	

**Water Levels and Data over Time  
White Mesa Mill - Well TW4-10**

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	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**

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	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	
5,578.43				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	
5,577.92				03/28/13	56.32	54.07	

**Water Levels and Data over Time**  
**White Mesa Mill - Well TW4-11**

Water Elevation (WL)	Land Surface (LSD)	Measuring		Date Of Monitoring	Total or	Total	Total Depth Of Well
		Point Elevation (MP)	Length Of Riser (L)		Measured Depth to Water (blw.MP)	Depth to Water (blw.LSD)	
	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**

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	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	
5,566.89				03/28/13	56.73	55.03	

**Water Levels and Data over Time  
White Mesa Mill - Well TW4-12**

Water Elevation (WL)	Land Surface (LSD)	Measuring Point		Date Of Monitoring	Total or Measured	Total	Total Depth Of Well
		Elevation (MP)	Length Of Riser (L)		Depth to Water (blw.MP)	Depth to Water (blw.LSD)	
	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**

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	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	
5,582.71				03/28/13	41.52	39.67	

**Water Levels and Data over Time  
White Mesa Mill - Well TW4-13**

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	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**

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	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	
5,573.03				03/28/13	46.91	45.06	

**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**

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	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	
5,526.91				03/28/13	85.86	84.01	

**Water Levels and Data over Time  
White Mesa Mill - Well MW-26**

Water Elevation (WL)	Land Surface (LSD)	Measuring Point		Date Of Monitoring	Total or Measured	Total	Total Depth Of Well
		Elevation (MP)	Length Of Riser (L)		Depth to Water (blw.MP)	Depth to Water (blw.LSD)	
	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**

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	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	
5,565.37				03/28/13	60.08	58.78	

**Water Levels and Data over Time  
White Mesa Mill - Well TW4-16**

Water Elevation (WL)	Land Surface (LSD)	Measuring		Date Of Monitoring	Total or	Total	Total Depth Of Well
		Point Elevation (MP)	Length Of Riser (L)		Measured Depth to Water (blw.MP)	Depth to Water (blw.LSD)	
	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**

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	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	
5,564.74				03/28/13	59.28	57.45	

**Water Levels and Data over Time  
White Mesa Mill - Well MW-32**

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	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**

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	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	
5,551.54				03/28/13	73.70	71.87	

**Water Levels and Data over Time  
White Mesa Mill - Well TW4-18**

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	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**

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	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	
5,582.88				03/28/13	58.40	56.25	

**Water Levels and Data over Time  
White Mesa Mill - Well TW4-19**

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	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**

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	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	
5,572.51				03/28/13	58.88	57.02	

**Water Levels and Data over Time  
White Mesa Mill - Well TW4-20**

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	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	
5,571.52				03/28/13	58.01	57.00	

**Water Levels and Data over Time  
White Mesa Mill - Well TW4-21**

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	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	
5,582.84				03/28/13	56.51	55.36	

**Water Levels and Data over Time  
White Mesa Mill - Well TW4-22**

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	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	
5,573.50				03/28/13	55.50	54.33	

**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	Total	Total Depth Of Well
					Measured Depth to Water (blw.MP)	Depth to Water (blw.LSD)	
	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	
5,539.48				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	
5,543.48				03/28/13	63.89	62.29	

**Water Levels and Data over Time  
White Mesa Mill - Well TW4-24**

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	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	
5,571.52				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	
5,566.53				03/28/13	61.30	59.17	

**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	Total	Total
					Measured Depth to Water (blw.MP)	Depth to Water (blw.LSD)	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**

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	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	
5,539.13				03/28/13	62.55	60.85	

**Water Levels and Data over Time  
White Mesa Mill - Well TW4-27**

<b>Water Elevation (WL)</b>	<b>Land Surface (LSD)</b>	<b>Measuring Point Elevation (MP)</b>	<b>Length Of Riser (L)</b>	<b>Date Of Monitoring</b>	<b>Total or Measured Depth to Water (blw.MP)</b>	<b>Total Depth to Water (blw.LSD)</b>	<b>Total Depth Of Well</b>
	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	
5,526.37				03/28/13	81.57	79.82	

Tab H

Laboratory Analytical Reports



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2013  
**Lab Sample ID:** 1302239-006  
**Client Sample ID:** MW-04\_02112013  
**Collection Date:** 2/11/2013 1020h  
**Received Date:** 2/15/2013 1000h

**Contact:** Garrin Palmer

### **Analytical Results**

<b>Compound</b>	<b>Units</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Method Used</b>	<b>Reporting Limit</b>	<b>Analytical Result</b>	<b>Qual</b>
Chloride	mg/L		2/18/2013 2330h	E300.0	10.0	<b>37.8</b>	
Nitrate/Nitrite (as N)	mg/L		2/15/2013 1529h	E353.2	1.00	<b>4.78</b>	

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Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer



# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2013  
**Lab Sample ID:** 1302239-006C  
**Client Sample ID:** MW-04\_02112013  
**Collection Date:** 2/11/2013 1020h  
**Received Date:** 2/15/2013 1000h

**Contact:** Garrin Palmer

## Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 2/20/2013 1308h

**Units:** µg/L

**Dilution Factor:** 10

**Method:** SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual		
Chloroform	67-66-3	10.0	1,670	~		
Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	519	500.0	104	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	553	500.0	111	80-128	
Surr: Dibromofluoromethane	1868-53-7	513	500.0	103	80-124	
Surr: Toluene-d8	2037-26-5	498	500.0	99.7	77-129	

~ - The reporting limits were raised due to high analyte concentrations.

**Analyzed:** 2/18/2013 1752h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual		
Carbon tetrachloride	56-23-5	1.00	1.49			
Chloromethane	74-87-3	1.00	< 1.00			
Methylene chloride	75-09-2	1.00	< 1.00			
Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	53.8	50.00	108	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	59.4	50.00	119	80-128	
Surr: Dibromofluoromethane	1868-53-7	56.7	50.00	113	80-124	
Surr: Toluene-d8	2037-26-5	54.0	50.00	108	77-129	



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2013  
**Lab Sample ID:** 1302239-017  
**Client Sample ID:** TW4-01\_02132013  
**Collection Date:** 2/13/2013 1355h  
**Received Date:** 2/15/2013 1000h

**Contact:** Garrin Palmer

## **Analytical Results**

<b>Compound</b>	<b>Units</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Method Used</b>	<b>Reporting Limit</b>	<b>Analytical Result</b>	<b>Qual</b>
Chloride	mg/L		2/19/2013 0620h	E300.0	10.0	<b>37.6</b>	
Nitrate/Nitrite (as N)	mg/L		2/15/2013 1552h	E353.2	1.00	<b>6.99</b>	

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Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer



# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2013  
**Lab Sample ID:** 1302239-017C  
**Client Sample ID:** TW4-01\_02132013  
**Collection Date:** 2/13/2013 1355h  
**Received Date:** 2/15/2013 1000h

**Contact:** Garrin Palmer

## Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 2/20/2013 1619h

**Units:** µg/L

**Dilution Factor:** 20

**Method:** SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual		
Chloroform	67-66-3	20.0	1,320	~		
Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	1,030	1,000	103	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	1,110	1,000	111	80-128	
Surr: Dibromofluoromethane	1868-53-7	1,020	1,000	102	80-124	
Surr: Toluene-d8	2037-26-5	1,010	1,000	101	77-129	

~ - The reporting limits were raised due to high analyte concentrations.

**Analyzed:** 2/21/2013 1149h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual		
Carbon tetrachloride	56-23-5	1.00	3.66			
Chloromethane	74-87-3	1.00	< 1.00			
Methylene chloride	75-09-2	1.00	< 1.00			
Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	53.2	50.00	106	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	55.9	50.00	112	80-128	
Surr: Dibromofluoromethane	1868-53-7	54.3	50.00	109	80-124	
Surr: Toluene-d8	2037-26-5	51.5	50.00	103	77-129	



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2013  
**Lab Sample ID:** 1302239-018  
**Client Sample ID:** TW4-02\_02132013  
**Collection Date:** 2/13/2013 1403h  
**Received Date:** 2/15/2013 1000h

**Contact:** Garrin Palmer

## Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		2/19/2013 0647h	E300.0	10.0	<b>46.0</b>	
Nitrate/Nitrite (as N)	mg/L		2/15/2013 1553h	E353.2	1.00	<b>8.10</b>	

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Jose Rocha

QA Officer



# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2013  
**Lab Sample ID:** 1302239-018C  
**Client Sample ID:** TW4-02\_02132013  
**Collection Date:** 2/13/2013 1403h  
**Received Date:** 2/15/2013 1000h

**Contact:** Garrin Palmer

## Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 2/20/2013 1638h

**Units:** µg/L

**Dilution Factor:** 50

**Method:** SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	50.0	3,580	~

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	2,640	2,500	106	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	2,760	2,500	110	80-128	
Surr: Dibromofluoromethane	1868-53-7	2,560	2,500	102	80-124	
Surr: Toluene-d8	2037-26-5	2,530	2,500	101	77-129	

~ - The reporting limits were raised due to high analyte concentrations.

**Analyzed:** 2/21/2013 1208h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	5.17	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	53.0	50.00	106	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	54.8	50.00	110	80-128	
Surr: Dibromofluoromethane	1868-53-7	54.2	50.00	108	80-124	
Surr: Toluene-d8	2037-26-5	50.6	50.00	101	77-129	

Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2013  
**Lab Sample ID:** 1302137-002  
**Client Sample ID:** TW4-03\_02072013  
**Collection Date:** 2/7/2013 0654h  
**Received Date:** 2/8/2013 1108h

**Contact:** Garrin Palmer

## Analytical Results

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Chloride	mg/L		2/13/2013 1355h	E300.0	10.0	23.7	
Nitrate/Nitrite (as N)	mg/L		2/12/2013 2005h	E353.2	1.00	5.05	

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer



# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2013  
**Lab Sample ID:** 1302137-002C  
**Client Sample ID:** TW4-03\_02072013  
**Collection Date:** 2/7/2013 0654h  
**Received Date:** 2/8/2013 1108h

**Contact:** Garrin Palmer

## Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 2/8/2013 1613h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	52.4	50.00	105	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	58.4	50.00	117	80-128	
Surr: Dibromofluoromethane	1868-53-7	52.7	50.00	105	80-124	
Surr: Toluene-d8	2037-26-5	53.1	50.00	106	77-129	

Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2013  
**Lab Sample ID:** 1302137-001  
**Client Sample ID:** TW4-03R\_02062013  
**Collection Date:** 2/6/2013 0700h  
**Received Date:** 2/8/2013 1108h

**Contact:** Garrin Palmer

### Analytical Results

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<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Chloride	mg/L		2/13/2013 1239h	E300.0	1.00	< 1.00	
Nitrate/Nitrite (as N)	mg/L		2/12/2013 2004h	E353.2	0.100	< 0.100	

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Kyle F. Gross  
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Jose Rocha  
QA Officer



## ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2013  
**Lab Sample ID:** 1302137-001C  
**Client Sample ID:** TW4-03R\_02062013  
**Collection Date:** 2/6/2013 0700h  
**Received Date:** 2/8/2013 1108h

**Contact:** Garrin Palmer

### Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 2/8/2013 1554h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	51.6	50.00	103	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	58.6	50.00	117	80-128	
Surr: Dibromofluoromethane	1868-53-7	52.0	50.00	104	80-124	
Surr: Toluene-d8	2037-26-5	52.2	50.00	104	77-129	

Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2013  
**Lab Sample ID:** 1302239-007  
**Client Sample ID:** TW4-04\_02112013  
**Collection Date:** 2/11/2013 1030h  
**Received Date:** 2/15/2013 1000h

**Contact:** Garrin Palmer

## Analytical Results

<b>Compound</b>	<b>Units</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Method Used</b>	<b>Reporting Limit</b>	<b>Analytical Result</b>	<b>Qual</b>
Chloride	mg/L		2/18/2013 2358h	E300.0	10.0	<b>39.0</b>	
Nitrate/Nitrite (as N)	mg/L		2/15/2013 1530h	E353.2	1.00	<b>7.36</b>	

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Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer



# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2013  
**Lab Sample ID:** 1302239-007C  
**Client Sample ID:** TW4-04\_02112013  
**Collection Date:** 2/11/2013 1030h  
**Received Date:** 2/15/2013 1000h

**Contact:** Garrin Palmer

## Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 2/20/2013 1424h

**Units:** µg/L                      **Dilution Factor:** 10                      **Method:** SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	10.0	1,460	~

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Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	517	500.0	103	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	556	500.0	111	80-128	
Surr: Dibromofluoromethane	1868-53-7	510	500.0	102	80-124	
Surr: Toluene-d8	2037-26-5	509	500.0	102	77-129	

~ - The reporting limits were raised due to high analyte concentrations.

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**Analyzed:** 2/18/2013 1811h

**Units:** µg/L                      **Dilution Factor:** 1                      **Method:** SW8260C

Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	1.12	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	54.2	50.00	108	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	59.7	50.00	119	80-128	
Surr: Dibromofluoromethane	1868-53-7	57.2	50.00	114	80-124	
Surr: Toluene-d8	2037-26-5	54.5	50.00	109	77-129	



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2013  
**Lab Sample ID:** 1302239-010  
**Client Sample ID:** TW4-05\_02132013  
**Collection Date:** 2/13/2013 1237h  
**Received Date:** 2/15/2013 1000h

**Contact:** Garrin Palmer

### Analytical Results

463 West 3600 South  
Salt Lake City, UT 84115

<b>Compound</b>	<b>Units</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Method Used</b>	<b>Reporting Limit</b>	<b>Analytical Result</b>	<b>Qual</b>
Chloride	mg/L		2/19/2013 0120h	E300.0	10.0	<b>34.3</b>	
Nitrate/Nitrite (as N)	mg/L		2/15/2013 1543h	E353.2	1.00	<b>8.24</b>	

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Kyle F. Gross  
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Jose Rocha  
QA Officer



# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2013  
**Lab Sample ID:** 1302239-010C  
**Client Sample ID:** TW4-05\_02132013  
**Collection Date:** 2/13/2013 1237h  
**Received Date:** 2/15/2013 1000h

**Contact:** Garrin Palmer

## Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 2/20/2013 1037h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

463 West 3600 South  
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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	<b>10.8</b>	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	51.4	50.00	103	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	52.7	50.00	105	80-128	
Surr: Dibromofluoromethane	1868-53-7	49.4	50.00	98.7	80-124	
Surr: Toluene-d8	2037-26-5	50.2	50.00	100	77-129	

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Kyle F. Gross  
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## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.

**Contact:** Garrin Palmer

**Project:** 1st Quarter Chloroform 2013

**Lab Sample ID:** 1302239-022

**Client Sample ID:** TW4-05R\_02122013

**Collection Date:** 2/12/2013 0714h

**Received Date:** 2/15/2013 1000h

### **Analytical Results**

<b>Compound</b>	<b>Units</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Method Used</b>	<b>Reporting Limit</b>	<b>Analytical Result</b>	<b>Qual</b>
Chloride	mg/L		2/19/2013 1146h	E300.0	1.00	< 1.00	
Nitrate/Nitrite (as N)	mg/L		2/15/2013 1623h	E353.2	0.100	< 0.100	

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# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2013  
**Lab Sample ID:** 1302239-022C  
**Client Sample ID:** TW4-05R\_02122013  
**Collection Date:** 2/12/2013 0714h  
**Received Date:** 2/15/2013 1000h

**Contact:** Garrin Palmer

## Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 2/20/2013 1211h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

463 West 3600 South  
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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	51.8	50.00	104	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	55.6	50.00	111	80-128	
Surr: Dibromofluoromethane	1868-53-7	49.1	50.00	98.2	80-124	
Surr: Toluene-d8	2037-26-5	50.4	50.00	101	77-129	

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QA Officer



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.

**Contact:** Garrin Palmer

**Project:** 1st Quarter Chloroform 2013

**Lab Sample ID:** 1302239-011

**Client Sample ID:** TW4-06\_02132013

**Collection Date:** 2/13/2013 1247h

**Received Date:** 2/15/2013 1000h

### Analytical Results

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Chloride	mg/L		2/19/2013 0147h	E300.0	10.0	<b>40.4</b>	
Nitrate/Nitrite (as N)	mg/L		2/15/2013 1544h	E353.2	0.100	<b>0.154</b>	

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Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer



# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2013  
**Lab Sample ID:** 1302239-011C  
**Client Sample ID:** TW4-06\_02132013  
**Collection Date:** 2/13/2013 1247h  
**Received Date:** 2/15/2013 1000h

**Contact:** Garrin Palmer

## Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 2/18/2013 1928h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	<b>6.89</b>	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	53.6	50.00	107	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	60.0	50.00	120	80-128	
Surr: Dibromofluoromethane	1868-53-7	54.4	50.00	109	80-124	
Surr: Toluene-d8	2037-26-5	54.4	50.00	109	77-129	

Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2013  
**Lab Sample ID:** 1302239-016  
**Client Sample ID:** TW4-07\_02132013  
**Collection Date:** 2/13/2013 1349h  
**Received Date:** 2/15/2013 1000h

**Contact:** Garrin Palmer

## Analytical Results

<b>Compound</b>	<b>Units</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Method Used</b>	<b>Reporting Limit</b>	<b>Analytical Result</b>	<b>Qual</b>
Chloride	mg/L		2/19/2013 0553h	E300.0	10.0	<b>37.7</b>	
Nitrate/Nitrite (as N)	mg/L		2/15/2013 1551h	E353.2	1.00	<b>3.90</b>	

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# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2013  
**Lab Sample ID:** 1302239-016C  
**Client Sample ID:** TW4-07\_02132013  
**Collection Date:** 2/13/2013 1349h  
**Received Date:** 2/15/2013 1000h

**Contact:** Garrin Palmer

## Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 2/20/2013 1600h

**Units:** µg/L

**Dilution Factor:** 20

**Method:** SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	20.0	1,080	~

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	1,040	1,000	104	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	1,120	1,000	112	80-128	
Surr: Dibromofluoromethane	1868-53-7	1,010	1,000	101	80-124	
Surr: Toluene-d8	2037-26-5	1,010	1,000	101	77-129	

~ - The reporting limits were raised due to high analyte concentrations.

**Analyzed:** 2/21/2013 1130h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	3.51	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	52.5	50.00	105	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	56.0	50.00	112	80-128	
Surr: Dibromofluoromethane	1868-53-7	53.1	50.00	106	80-124	
Surr: Toluene-d8	2037-26-5	50.9	50.00	102	77-129	

Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2013  
**Lab Sample ID:** 1302137-007  
**Client Sample ID:** TW4-08\_02072013  
**Collection Date:** 2/7/2013 0754h  
**Received Date:** 2/8/2013 1108h

**Contact:** Garrin Palmer

## Analytical Results

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Chloride	mg/L		2/13/2013 1652h	E300.0	10.0	<b>46.6</b>	
Nitrate/Nitrite (as N)	mg/L		2/12/2013 2026h	E353.2	0.100	<b>0.411</b>	

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## ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.

**Contact:** Garrin Palmer

**Project:** 1st Quarter Chloroform 2013

**Lab Sample ID:** 1302137-007C

**Client Sample ID:** TW4-08\_02072013

**Collection Date:** 2/7/2013 0754h

**Received Date:** 2/8/2013 1108h

### Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 2/8/2013 1749h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	53.5	50.00	107	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	58.5	50.00	117	80-128	
Surr: Dibromofluoromethane	1868-53-7	54.0	50.00	108	80-124	
Surr: Toluene-d8	2037-26-5	53.6	50.00	107	77-129	

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## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.

**Contact:** Garrin Palmer

**Project:** 1st Quarter Chloroform 2013

**Lab Sample ID:** 1302137-008

**Client Sample ID:** TW4-09\_02072013

**Collection Date:** 2/7/2013 0800h

**Received Date:** 2/8/2013 1108h

### Analytical Results

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Chloride	mg/L		2/13/2013 1717h	E300.0	10.0	<b>20.6</b>	
Nitrate/Nitrite (as N)	mg/L		2/12/2013 2014h	E353.2	1.00	<b>4.12</b>	

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## ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.

**Contact:** Garrin Palmer

**Project:** 1st Quarter Chloroform 2013

**Lab Sample ID:** 1302137-008C

**Client Sample ID:** TW4-09\_02072013

**Collection Date:** 2/7/2013 0800h

**Received Date:** 2/8/2013 1108h

### Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 2/8/2013 1808h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

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<u>Compound</u>	<u>CAS Number</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

<u>Surrogate</u>	<u>CAS</u>	<u>Result</u>	<u>Amount Spiked</u>	<u>% REC</u>	<u>Limits</u>	<u>Qual</u>
Surr: 1,2-Dichloroethane-d4	17060-07-0	53.4	50.00	107	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	58.6	50.00	117	80-128	
Surr: Dibromofluoromethane	1868-53-7	53.7	50.00	107	80-124	
Surr: Toluene-d8	2037-26-5	52.5	50.00	105	77-129	

Kyle F. Gross

Laboratory Director

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## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.

**Contact:** Garrin Palmer

**Project:** 1st Quarter Chloroform 2013

**Lab Sample ID:** 1302239-013

**Client Sample ID:** TW4-10\_02132013

**Collection Date:** 2/13/2013 1318h

**Received Date:** 2/15/2013 1000h

### Analytical Results

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Chloride	mg/L		2/19/2013 0336h	E300.0	10.0	<b>49.1</b>	
Nitrate/Nitrite (as N)	mg/L		2/15/2013 1547h	E353.2	0.100	<b>1.21</b>	

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# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2013  
**Lab Sample ID:** 1302239-013C  
**Client Sample ID:** TW4-10\_02132013  
**Collection Date:** 2/13/2013 1318h  
**Received Date:** 2/15/2013 1000h

**Contact:** Garrin Palmer

## Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 2/18/2013 2006h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	154	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	54.2	50.00	108	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	60.8	50.00	122	80-128	
Surr: Dibromofluoromethane	1868-53-7	55.6	50.00	111	80-124	
Surr: Toluene-d8	2037-26-5	54.5	50.00	109	77-129	

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# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2013  
**Lab Sample ID:** 1302239-015  
**Client Sample ID:** TW4-11\_02132013  
**Collection Date:** 2/13/2013 1341h  
**Received Date:** 2/15/2013 1000h

**Contact:** Garrin Palmer

## **Analytical Results**

<b>Compound</b>	<b>Units</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Method Used</b>	<b>Reporting Limit</b>	<b>Analytical Result</b>	<b>Qual</b>
Chloride	mg/L		2/19/2013 0525h	E300.0	10.0	<b>47.3</b>	
Nitrate/Nitrite (as N)	mg/L		2/15/2013 1604h	E353.2	1.00	<b>6.83</b>	

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# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2013  
**Lab Sample ID:** 1302239-015C  
**Client Sample ID:** TW4-11\_02132013  
**Collection Date:** 2/13/2013 1341h  
**Received Date:** 2/15/2013 1000h

**Contact:** Garrin Palmer

## Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 2/20/2013 1541h

**Units:** µg/L

**Dilution Factor:** 20

**Method:** SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	20.0	867	~

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	1,030	1,000	103	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	1,150	1,000	115	80-128	
Surr: Dibromofluoromethane	1868-53-7	1,010	1,000	101	80-124	
Surr: Toluene-d8	2037-26-5	1,010	1,000	101	77-129	

~ - The reporting limits were raised due to high analyte concentrations.

**Analyzed:** 2/20/2013 1735h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	3.23	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	53.2	50.00	106	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	57.4	50.00	115	80-128	
Surr: Dibromofluoromethane	1868-53-7	53.6	50.00	107	80-124	
Surr: Toluene-d8	2037-26-5	51.2	50.00	102	77-129	

Kyle F. Gross  
Laboratory Director

Jose Rocha  
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# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2013  
**Lab Sample ID:** 1302137-003  
**Client Sample ID:** TW4-12\_02072013  
**Collection Date:** 2/7/2013 0709h  
**Received Date:** 2/8/2013 1108h

**Contact:** Garrin Palmer

## Analytical Results

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Chloride	mg/L		2/13/2013 1420h	E300.0	10.0	36.7	
Nitrate/Nitrite (as N)	mg/L		2/12/2013 2007h	E353.2	1.00	12.6	

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## ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2013  
**Lab Sample ID:** 1302137-003C  
**Client Sample ID:** TW4-12\_02072013  
**Collection Date:** 2/7/2013 0709h  
**Received Date:** 2/8/2013 1108h

**Contact:** Garrin Palmer

### Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 2/8/2013 1632h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	52.6	50.00	105	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	58.4	50.00	117	80-128	
Surr: Dibromofluoromethane	1868-53-7	53.2	50.00	106	80-124	
Surr: Toluene-d8	2037-26-5	52.8	50.00	106	77-129	

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# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2013  
**Lab Sample ID:** 1302137-004  
**Client Sample ID:** TW4-13\_02072013  
**Collection Date:** 2/7/2013 0718h  
**Received Date:** 2/8/2013 1108h

**Contact:** Garrin Palmer

## Analytical Results

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Chloride	mg/L		2/13/2013 1445h	E300.0	10.0	<b>59.3</b>	
Nitrate/Nitrite (as N)	mg/L		2/12/2013 2008h	E353.2	1.00	<b>6.31</b>	

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# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2013  
**Lab Sample ID:** 1302137-004C  
**Client Sample ID:** TW4-13\_02072013  
**Collection Date:** 2/7/2013 0718h  
**Received Date:** 2/8/2013 1108h

**Contact:** Garrin Palmer

## Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 2/8/2013 1652h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	52.9	50.00	106	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	59.3	50.00	119	80-128	
Surr: Dibromofluoromethane	1868-53-7	53.3	50.00	107	80-124	
Surr: Toluene-d8	2037-26-5	53.2	50.00	106	77-129	

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# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2013  
**Lab Sample ID:** 1302137-005  
**Client Sample ID:** TW4-14\_02072013  
**Collection Date:** 2/7/2013 0728h  
**Received Date:** 2/8/2013 1108h

**Contact:** Garrin Palmer

## Analytical Results

<b>Compound</b>	<b>Units</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Method Used</b>	<b>Reporting Limit</b>	<b>Analytical Result</b>	<b>Qual</b>
Chloride	mg/L		2/13/2013 1511h	E300.0	10.0	<b>35.2</b>	
Nitrate/Nitrite (as N)	mg/L		2/12/2013 2010h	E353.2	1.00	<b>4.63</b>	

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Kyle F. Gross

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Jose Rocha

QA Officer



## ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2013  
**Lab Sample ID:** 1302137-005C  
**Client Sample ID:** TW4-14\_02072013  
**Collection Date:** 2/7/2013 0728h  
**Received Date:** 2/8/2013 1108h

**Contact:** Garrin Palmer

### Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 2/8/2013 1711h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	54.0	50.00	108	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	59.0	50.00	118	80-128	
Surr: Dibromofluoromethane	1868-53-7	54.3	50.00	109	80-124	
Surr: Toluene-d8	2037-26-5	53.6	50.00	107	77-129	

Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2013  
**Lab Sample ID:** 1302239-005  
**Client Sample ID:** MW-26\_02112013  
**Collection Date:** 2/11/2013 1010h  
**Received Date:** 2/15/2013 1000h

**Contact:** Garrin Palmer

### Analytical Results

<b>Compound</b>	<b>Units</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Method Used</b>	<b>Reporting Limit</b>	<b>Analytical Result</b>	<b>Qual</b>
Chloride	mg/L		2/18/2013 2141h	E300.0	10.0	<b>81.9</b>	
Nitrate/Nitrite (as N)	mg/L		2/15/2013 1528h	E353.2	1.00	<b>2.27</b>	

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Kyle F. Gross

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Jose Rocha

QA Officer



# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2013  
**Lab Sample ID:** 1302239-005C  
**Client Sample ID:** MW-26\_02112013  
**Collection Date:** 2/11/2013 1010h  
**Received Date:** 2/15/2013 1000h

**Contact:** Garrin Palmer

## Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 2/20/2013 1249h

**Units:** µg/L

**Dilution Factor:** 20

**Method:** SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	20.0	2,120	~

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Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	1,030	1,000	103	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	1,140	1,000	114	80-128	
Surr: Dibromofluoromethane	1868-53-7	1,010	1,000	101	80-124	
Surr: Toluene-d8	2037-26-5	1,010	1,000	101	77-129	

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~ - The reporting limits were raised due to high analyte concentrations.

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**Analyzed:** 2/18/2013 1733h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

Kyle F. Gross  
Laboratory Director

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	9.34	

Jose Rocha  
QA Officer

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	55.1	50.00	110	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	59.6	50.00	119	80-128	
Surr: Dibromofluoromethane	1868-53-7	57.6	50.00	115	80-124	
Surr: Toluene-d8	2037-26-5	55.4	50.00	111	77-129	



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2013  
**Lab Sample ID:** 1302137-009  
**Client Sample ID:** TW4-16\_02072013  
**Collection Date:** 2/7/2013 0808h  
**Received Date:** 2/8/2013 1108h

**Contact:** Garrin Palmer

## Analytical Results

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Chloride	mg/L		2/13/2013 1742h	E300.0	10.0	<b>58.1</b>	
Nitrate/Nitrite (as N)	mg/L		2/12/2013 2027h	E353.2	0.100	< 0.100	

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Jose Rocha  
QA Officer



## ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2013  
**Lab Sample ID:** 1302137-009C  
**Client Sample ID:** TW4-16\_02072013  
**Collection Date:** 2/7/2013 0808h  
**Received Date:** 2/8/2013 1108h

**Contact:** Garrin Palmer

### Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 2/8/2013 1827h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	53.4	50.00	107	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	58.7	50.00	117	80-128	
Surr: Dibromofluoromethane	1868-53-7	53.5	50.00	107	80-124	
Surr: Toluene-d8	2037-26-5	53.6	50.00	107	77-129	

Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2013  
**Lab Sample ID:** 1302239-001  
**Client Sample ID:** MW-32\_02132013  
**Collection Date:** 2/13/2013 1500h  
**Received Date:** 2/15/2013 1000h

**Contact:** Garrin Palmer

## Analytical Results

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Chloride	mg/L		2/18/2013 1857h	E300.0	10.0	<b>34.3</b>	
Nitrate/Nitrite (as N)	mg/L		2/15/2013 1522h	E353.2	0.100	< 0.100	

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## ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2013  
**Lab Sample ID:** 1302239-001C  
**Client Sample ID:** MW-32\_02132013  
**Collection Date:** 2/13/2013 1500h  
**Received Date:** 2/15/2013 1000h

**Contact:** Garrin Palmer

### Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 2/18/2013 1618h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	53.4	50.00	107	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	61.6	50.00	123	80-128	
Surr: Dibromofluoromethane	1868-53-7	55.2	50.00	110	80-124	
Surr: Toluene-d8	2037-26-5	55.9	50.00	112	77-129	

Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2013  
**Lab Sample ID:** 1302239-012  
**Client Sample ID:** TW4-18\_02132013  
**Collection Date:** 2/13/2013 1304h  
**Received Date:** 2/15/2013 1000h

**Contact:** Garrin Palmer

### Analytical Results

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Chloride	mg/L		2/19/2013 0309h	E300.0	10.0	<b>23.1</b>	
Nitrate/Nitrite (as N)	mg/L		2/15/2013 1545h	E353.2	1.00	<b>5.58</b>	

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## ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2013  
**Lab Sample ID:** 1302239-012C  
**Client Sample ID:** TW4-18\_02132013  
**Collection Date:** 2/13/2013 1304h  
**Received Date:** 2/15/2013 1000h

**Contact:** Garrin Palmer

### Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 2/18/2013 1947h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	<b>34.9</b>	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	53.5	50.00	107	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	59.0	50.00	118	80-128	
Surr: Dibromofluoromethane	1868-53-7	54.8	50.00	110	80-124	
Surr: Toluene-d8	2037-26-5	54.1	50.00	108	77-129	

Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2013  
**Lab Sample ID:** 1302239-008  
**Client Sample ID:** TW4-19\_02112013  
**Collection Date:** 2/11/2013 1100h  
**Received Date:** 2/15/2013 1000h

**Contact:** Garrin Palmer

### Analytical Results

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Chloride	mg/L		2/19/2013 0025h	E300.0	100	<b>164</b>	
Nitrate/Nitrite (as N)	mg/L		2/15/2013 1532h	E353.2	1.00	<b>7.99</b>	

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# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2013  
**Lab Sample ID:** 1302239-008C  
**Client Sample ID:** TW4-19\_02112013  
**Collection Date:** 2/11/2013 1100h  
**Received Date:** 2/15/2013 1000h

**Contact:** Garrin Palmer

## Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 2/21/2013 1033h

**Units:** µg/L

**Dilution Factor:** 50

**Method:** SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual		
Chloroform	67-66-3	50.0	4,210	1~		
Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	2,620	2,500	105	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	2,770	2,500	111	80-128	
Surr: Dibromofluoromethane	1868-53-7	2,550	2,500	102	80-124	
Surr: Toluene-d8	2037-26-5	2,520	2,500	101	77-129	

<sup>1</sup> - Matrix spike recovery indicates matrix interference. The method is in control as indicated by the LCS.

~ - The reporting limits were raised due to high analyte concentrations.

**Analyzed:** 2/18/2013 1831h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual		
Carbon tetrachloride	56-23-5	1.00	5.15			
Chloromethane	74-87-3	1.00	< 1.00			
Methylene chloride	75-09-2	1.00	< 1.00			
Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	51.3	50.00	103	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	55.7	50.00	111	80-128	
Surr: Dibromofluoromethane	1868-53-7	54.1	50.00	108	80-124	
Surr: Toluene-d8	2037-26-5	52.1	50.00	104	77-129	



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2013  
**Lab Sample ID:** 1302239-009  
**Client Sample ID:** TW4-20\_02112013  
**Collection Date:** 2/11/2013 0950h  
**Received Date:** 2/15/2013 1000h

**Contact:** Garrin Palmer

### Analytical Results

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Chloride	mg/L		2/19/2013 0052h	E300.0	100	<b>252</b>	
Nitrate/Nitrite (as N)	mg/L		2/15/2013 1541h	E353.2	1.00	<b>9.07</b>	

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Laboratory Director

Jose Rocha

QA Officer



# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2013  
**Lab Sample ID:** 1302239-009C  
**Client Sample ID:** TW4-20\_02112013  
**Collection Date:** 2/11/2013 0950h  
**Received Date:** 2/15/2013 1000h

**Contact:** Garrin Palmer

## Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 2/20/2013 1503h

**Units:** µg/L

**Dilution Factor:** 500

**Method:** SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	500	18,500	~

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	25,900	25,000	104	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	27,400	25,000	110	80-128	
Surr: Dibromofluoromethane	1868-53-7	25,000	25,000	100	80-124	
Surr: Toluene-d8	2037-26-5	24,900	25,000	99.7	77-129	

~ - The reporting limits were raised due to high analyte concentrations.

**Analyzed:** 2/18/2013 1850h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	19.6	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	1.21	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	53.9	50.00	108	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	58.7	50.00	117	80-128	
Surr: Dibromofluoromethane	1868-53-7	53.8	50.00	108	80-124	
Surr: Toluene-d8	2037-26-5	53.9	50.00	108	77-129	



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2013  
**Lab Sample ID:** 1302239-014  
**Client Sample ID:** TW4-21\_02132013  
**Collection Date:** 2/13/2013 1331h  
**Received Date:** 2/15/2013 1000h

**Contact:** Garrin Palmer

## Analytical Results

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Chloride	mg/L		2/19/2013 0458h	E300.0	100	<b>221</b>	
Nitrate/Nitrite (as N)	mg/L		2/15/2013 1548h	E353.2	1.00	<b>11.8</b>	

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Jose Rocha  
QA Officer



## ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2013  
**Lab Sample ID:** 1302239-014C  
**Client Sample ID:** TW4-21\_02132013  
**Collection Date:** 2/13/2013 1331h  
**Received Date:** 2/15/2013 1000h

**Contact:** Garrin Palmer

### Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 2/20/2013 1522h

**Units:** µg/L

**Dilution Factor:** 10

**Method:** SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual		
Chloroform	67-66-3	10.0	282	~		
Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	518	500.0	104	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	552	500.0	110	80-128	
Surr: Dibromofluoromethane	1868-53-7	503	500.0	101	80-124	
Surr: Toluene-d8	2037-26-5	503	500.0	101	77-129	

~ - The reporting limits were raised due to high analyte concentrations.

**Analyzed:** 2/20/2013 1716h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual		
Carbon tetrachloride	56-23-5	1.00	5.25			
Chloromethane	74-87-3	1.00	< 1.00			
Methylene chloride	75-09-2	1.00	< 1.00			
Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	52.2	50.00	104	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	53.6	50.00	107	80-128	
Surr: Dibromofluoromethane	1868-53-7	52.0	50.00	104	80-124	
Surr: Toluene-d8	2037-26-5	50.9	50.00	102	77-129	



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2013  
**Lab Sample ID:** 1302239-004  
**Client Sample ID:** TW4-22\_02112013  
**Collection Date:** 2/11/2013 0926h  
**Received Date:** 2/15/2013 1000h

**Contact:** Garrin Palmer

### Analytical Results

<b>Compound</b>	<b>Units</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Method Used</b>	<b>Reporting Limit</b>	<b>Analytical Result</b>	<b>Qual</b>
Chloride	mg/L		2/19/2013 2325h	E300.0	100	<b>635</b>	
Nitrate/Nitrite (as N)	mg/L		2/15/2013 1603h	E353.2	10.0	<b>58.0</b>	

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Jose Rocha

QA Officer



# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2013  
**Lab Sample ID:** 1302239-004C  
**Client Sample ID:** TW4-22\_02112013  
**Collection Date:** 2/11/2013 0926h  
**Received Date:** 2/15/2013 1000h

**Contact:** Garrin Palmer

## Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 2/20/2013 1230h

**Units:** µg/L                      **Dilution Factor:** 50                      **Method:** SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual		
Chloroform	67-66-3	50.0	10,600	~		
Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	2,630	2,500	105	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	2,830	2,500	113	80-128	
Surr: Dibromofluoromethane	1868-53-7	2,590	2,500	104	80-124	
Surr: Toluene-d8	2037-26-5	2,530	2,500	101	77-129	

~ - The reporting limits were raised due to high analyte concentrations.

**Analyzed:** 2/18/2013 1714h

**Units:** µg/L                      **Dilution Factor:** 1                      **Method:** SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual		
Carbon tetrachloride	56-23-5	1.00	3.24			
Chloromethane	74-87-3	1.00	< 1.00			
Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	53.9	50.00	108	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	57.4	50.00	115	80-128	
Surr: Dibromofluoromethane	1868-53-7	54.3	50.00	109	80-124	
Surr: Toluene-d8	2037-26-5	53.7	50.00	107	77-129	

**Analyzed:** 2/25/2013 1217h

**Units:** µg/L                      **Dilution Factor:** 1                      **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual		
Methylene chloride	75-09-2	1.00	< 1.00			
Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	53.1	50.00	106	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	53.0	50.00	106	80-128	
Surr: Dibromofluoromethane	1868-53-7	55.6	50.00	111	80-124	
Surr: Toluene-d8	2037-26-5	50.6	50.00	101	77-129	



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2013  
**Lab Sample ID:** 1302137-006  
**Client Sample ID:** TW4-23\_02072013  
**Collection Date:** 2/7/2013 0746h  
**Received Date:** 2/8/2013 1108h

**Contact:** Garrin Palmer

### Analytical Results

<b>Compound</b>	<b>Units</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Method Used</b>	<b>Reporting Limit</b>	<b>Analytical Result</b>	<b>Qual</b>
Chloride	mg/L		2/13/2013 1536h	E300.0	10.0	<b>43.6</b>	
Nitrate/Nitrite (as N)	mg/L		2/12/2013 2025h	E353.2	0.100	< 0.100	1

<sup>1</sup> - Matrix spike recovery indicates matrix interference. The method is in control as indicated by the LCS.

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Jose Rocha  
QA Officer



## ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2013  
**Lab Sample ID:** 1302137-006C  
**Client Sample ID:** TW4-23\_02072013  
**Collection Date:** 2/7/2013 0746h  
**Received Date:** 2/8/2013 1108h

**Contact:** Garrin Palmer

### Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 2/8/2013 1730h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	53.0	50.00	106	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	59.5	50.00	119	80-128	
Surr: Dibromofluoromethane	1868-53-7	53.5	50.00	107	80-124	
Surr: Toluene-d8	2037-26-5	52.6	50.00	105	77-129	

Kyle F. Gross

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# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2013  
**Lab Sample ID:** 1302239-003  
**Client Sample ID:** TW4-24\_02112013  
**Collection Date:** 2/11/2013 0910h  
**Received Date:** 2/15/2013 1000h

**Contact:** Garrin Palmer

## Analytical Results

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Chloride	mg/L		2/18/2013 2046h	E300.0	100	<b>1,260</b>	
Nitrate/Nitrite (as N)	mg/L		2/15/2013 1525h	E353.2	10.0	<b>35.9</b>	

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# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2013  
**Lab Sample ID:** 1302239-003C  
**Client Sample ID:** TW4-24\_02112013  
**Collection Date:** 2/11/2013 0910h  
**Received Date:** 2/15/2013 1000h

**Contact:** Garrin Palmer

## Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 2/18/2013 1655h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	<b>5.72</b>	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	54.0	50.00	108	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	58.0	50.00	116	80-128	
Surr: Dibromofluoromethane	1868-53-7	54.3	50.00	109	80-124	
Surr: Toluene-d8	2037-26-5	54.0	50.00	108	77-129	

Kyle F. Gross

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Jose Rocha

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## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2013  
**Lab Sample ID:** 1302239-002  
**Client Sample ID:** TW4-25\_02112013  
**Collection Date:** 2/11/2013 0850h  
**Received Date:** 2/15/2013 1000h

**Contact:** Garrin Palmer

### Analytical Results

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Chloride	mg/L		2/18/2013 2019h	E300.0	100	<b>190</b>	
Nitrate/Nitrite (as N)	mg/L		2/15/2013 1524h	E353.2	1.00	<b>9.04</b>	

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## ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2013  
**Lab Sample ID:** 1302239-002C  
**Client Sample ID:** TW4-25\_02112013  
**Collection Date:** 2/11/2013 0850h  
**Received Date:** 2/15/2013 1000h

**Contact:** Garrin Palmer

### Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 2/18/2013 1636h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	52.7	50.00	105	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	59.0	50.00	118	80-128	
Surr: Dibromofluoromethane	1868-53-7	53.8	50.00	108	80-124	
Surr: Toluene-d8	2037-26-5	54.5	50.00	109	77-129	

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## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2013  
**Lab Sample ID:** 1302137-011  
**Client Sample ID:** TW4-26\_02072013  
**Collection Date:** 2/7/2013 0820h  
**Received Date:** 2/8/2013 1108h

**Contact:** Garrin Palmer

### Analytical Results

<b>Compound</b>	<b>Units</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Method Used</b>	<b>Reporting Limit</b>	<b>Analytical Result</b>	<b>Qual</b>
Chloride	mg/L		2/13/2013 1833h	E300.0	10.0	<b>16.6</b>	
Nitrate/Nitrite (as N)	mg/L		2/12/2013 2022h	E353.2	1.00	<b>12.5</b>	

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# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2013  
**Lab Sample ID:** 1302137-011C  
**Client Sample ID:** TW4-26\_02072013  
**Collection Date:** 2/7/2013 0820h  
**Received Date:** 2/8/2013 1108h

**Contact:** Garrin Palmer

## Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 2/8/2013 1905h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	<b>4.95</b>	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	53.5	50.00	107	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	57.5	50.00	115	80-128	
Surr: Dibromofluoromethane	1868-53-7	53.7	50.00	107	80-124	
Surr: Toluene-d8	2037-26-5	52.7	50.00	105	77-129	

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## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2013  
**Lab Sample ID:** 1302137-010  
**Client Sample ID:** TW4-27\_02072013  
**Collection Date:** 2/7/2013 0737h  
**Received Date:** 2/8/2013 1108h

**Contact:** Garrin Palmer

### Analytical Results

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Chloride	mg/L		2/13/2013 1808h	E300.0	10.0	<b>18.8</b>	
Nitrate/Nitrite (as N)	mg/L		2/12/2013 2029h	E353.2	10.0	<b>31.2</b>	

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# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2013  
**Lab Sample ID:** 1302137-010C  
**Client Sample ID:** TW4-27\_02072013  
**Collection Date:** 2/7/2013 0737h  
**Received Date:** 2/8/2013 1108h

**Contact:** Garrin Palmer

## Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 2/8/2013 1846h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	53.5	50.00	107	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	58.3	50.00	117	80-128	
Surr: Dibromofluoromethane	1868-53-7	53.4	50.00	107	80-124	
Surr: Toluene-d8	2037-26-5	52.8	50.00	106	77-129	

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## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2013  
**Lab Sample ID:** 1302239-019  
**Client Sample ID:** TW4-60\_02142013  
**Collection Date:** 2/14/2013 0805h  
**Received Date:** 2/15/2013 1000h

**Contact:** Garrin Palmer

### Analytical Results

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Chloride	mg/L		2/19/2013 0715h	E300.0	1.00	< 1.00	
Nitrate/Nitrite (as N)	mg/L		2/15/2013 1600h	E353.2	0.100	< 0.100	

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## ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2013  
**Lab Sample ID:** 1302239-019C  
**Client Sample ID:** TW4-60\_02142013  
**Collection Date:** 2/14/2013 0805h  
**Received Date:** 2/15/2013 1000h

**Contact:** Garrin Palmer

### Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 2/20/2013 1133h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	52.1	50.00	104	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	56.4	50.00	113	80-128	
Surr: Dibromofluoromethane	1868-53-7	49.9	50.00	99.8	80-124	
Surr: Toluene-d8	2037-26-5	50.9	50.00	102	77-129	

Kyle F. Gross

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## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2013  
**Lab Sample ID:** 1302137-012  
**Client Sample ID:** TW4-65\_02072013  
**Collection Date:** 2/7/2013 0808h  
**Received Date:** 2/8/2013 1108h

**Contact:** Garrin Palmer

### Analytical Results

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Chloride	mg/L		2/13/2013 1858h	E300.0	10.0	<b>61.2</b>	
Nitrate/Nitrite (as N)	mg/L		2/12/2013 2031h	E353.2	0.100	< 0.100	

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## ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2013  
**Lab Sample ID:** 1302137-012C  
**Client Sample ID:** TW4-65\_02072013  
**Collection Date:** 2/7/2013 0808h  
**Received Date:** 2/8/2013 1108h

**Contact:** Garrin Palmer

### Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 2/12/2013 1651h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	44.9	50.00	89.8	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	49.1	50.00	98.2	80-128	
Surr: Dibromofluoromethane	1868-53-7	46.0	50.00	92.0	80-124	
Surr: Toluene-d8	2037-26-5	50.7	50.00	101	77-129	

Kyle F. Gross

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## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2013  
**Lab Sample ID:** 1302239-020  
**Client Sample ID:** TW4-70\_02132013  
**Collection Date:** 2/13/2013 1304h  
**Received Date:** 2/15/2013 1000h

**Contact:** Garrin Palmer

### **Analytical Results**

<b>Compound</b>	<b>Units</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Method Used</b>	<b>Reporting Limit</b>	<b>Analytical Result</b>	<b>Qual</b>
Chloride	mg/L		2/19/2013 0742h	E300.0	10.0	<b>24.6</b>	
Nitrate/Nitrite (as N)	mg/L		2/15/2013 1601h	E353.2	1.00	<b>5.60</b>	

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# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2013  
**Lab Sample ID:** 1302239-020C  
**Client Sample ID:** TW4-70\_02132013  
**Collection Date:** 2/13/2013 1304h  
**Received Date:** 2/15/2013 1000h

**Contact:** Garrin Palmer

**Analytical Results**

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 2/21/2013 1227h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	<b>38.6</b>	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	53.0	50.00	106	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	56.3	50.00	113	80-128	
Surr: Dibromofluoromethane	1868-53-7	51.0	50.00	102	80-124	
Surr: Toluene-d8	2037-26-5	50.6	50.00	101	77-129	

Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer



## ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2013  
**Lab Sample ID:** 1302239-021A  
**Client Sample ID:** Trip Blank  
**Collection Date:** 2/11/2013  
**Received Date:** 2/15/2013 1000h

**Contact:** Garrin Palmer

### Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 2/20/2013 1152h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	52.1	50.00	104	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	55.7	50.00	111	80-128	
Surr: Dibromofluoromethane	1868-53-7	49.9	50.00	99.9	80-124	
Surr: Toluene-d8	2037-26-5	51.8	50.00	104	77-129	

Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer



## ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2013  
**Lab Sample ID:** 1302137-013A  
**Client Sample ID:** Trip Blank  
**Collection Date:** 2/6/2013  
**Received Date:** 2/8/2013 1108h

**Contact:** Garrin Palmer

### Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 2/12/2013 1751h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	46.1	50.00	92.1	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	50.0	50.00	99.9	80-128	
Surr: Dibromofluoromethane	1868-53-7	47.6	50.00	95.2	80-124	
Surr: Toluene-d8	2037-26-5	52.3	50.00	105	77-129	

Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer



Garrin Palmer  
Energy Fuels Resources, Inc.  
6425 S. Hwy 191  
Blanding, UT 84511  
TEL: (435) 678-2221

RE: 1st Quarter Chloroform 2013

Dear Garrin Palmer:

Lab Set ID: 1302137

463 West 3600 South  
Salt Lake City, UT 84115

American West Analytical Laboratories received 13 sample(s) on 2/8/2013 for the analyses presented in the following report.

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American West Analytical Laboratories (AWAL) is accredited by The National Environmental Laboratory Accreditation Program (NELAP) in Utah and Texas; and is state accredited in Colorado, Idaho, New Mexico, and Missouri.

All analyses were performed in accordance to the NELAP protocols unless noted otherwise. Accreditation scope documents are available upon request. If you have any questions or concerns regarding this report please feel free to call.

Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

The abbreviation "Surr" found in organic reports indicates a surrogate compound that is intentionally added by the laboratory to determine sample injection, extraction, and/or purging efficiency. The "Reporting Limit" found on the report is equivalent to the practical quantitation limit (PQL). This is the minimum concentration that can be reported by the method referenced and the sample matrix. The reporting limit must not be confused with any regulatory limit. Analytical results are reported to three significant figures for quality control and calculation purposes.

Thank You,

**Kyle F. Gross**  
Digitally signed by Kyle F. Gross  
DN: cn=Kyle F. Gross, o=AWAL,  
ou=AWAL-Laboratory Director,  
email=kyle@awal-labs.com, c=US  
Date: 2013.02.19 13:10:40 -07'00'

Approved by:

Laboratory Director or designee



## SAMPLE SUMMARY

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2013  
**Lab Set ID:** 1302137  
**Date Received:** 2/8/2013 1108h

**Contact:** Garrin Palmer

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
1302137-001A	TW4-03R_02062013	2/6/2013 0700h	Aqueous	Anions, E300.0
1302137-001B	TW4-03R_02062013	2/6/2013 0700h	Aqueous	Nitrite/Nitrate (as N), E353.2
1302137-001C	TW4-03R_02062013	2/6/2013 0700h	Aqueous	VOA by GC/MS Method 8260C/5030C
1302137-002A	TW4-03_02072013	2/7/2013 0654h	Aqueous	Anions, E300.0
1302137-002B	TW4-03_02072013	2/7/2013 0654h	Aqueous	Nitrite/Nitrate (as N), E353.2
1302137-002C	TW4-03_02072013	2/7/2013 0654h	Aqueous	VOA by GC/MS Method 8260C/5030C
1302137-003A	TW4-12_02072013	2/7/2013 0709h	Aqueous	Anions, E300.0
1302137-003B	TW4-12_02072013	2/7/2013 0709h	Aqueous	Nitrite/Nitrate (as N), E353.2
1302137-003C	TW4-12_02072013	2/7/2013 0709h	Aqueous	VOA by GC/MS Method 8260C/5030C
1302137-004A	TW4-13_02072013	2/7/2013 0718h	Aqueous	Anions, E300.0
1302137-004B	TW4-13_02072013	2/7/2013 0718h	Aqueous	Nitrite/Nitrate (as N), E353.2
1302137-004C	TW4-13_02072013	2/7/2013 0718h	Aqueous	VOA by GC/MS Method 8260C/5030C
1302137-005A	TW4-14_02072013	2/7/2013 0728h	Aqueous	Anions, E300.0
1302137-005B	TW4-14_02072013	2/7/2013 0728h	Aqueous	Nitrite/Nitrate (as N), E353.2
1302137-005C	TW4-14_02072013	2/7/2013 0728h	Aqueous	VOA by GC/MS Method 8260C/5030C
1302137-006A	TW4-23_02072013	2/7/2013 0746h	Aqueous	Anions, E300.0
1302137-006B	TW4-23_02072013	2/7/2013 0746h	Aqueous	Nitrite/Nitrate (as N), E353.2
1302137-006C	TW4-23_02072013	2/7/2013 0746h	Aqueous	VOA by GC/MS Method 8260C/5030C
1302137-007A	TW4-08_02072013	2/7/2013 0754h	Aqueous	Anions, E300.0
1302137-007B	TW4-08_02072013	2/7/2013 0754h	Aqueous	Nitrite/Nitrate (as N), E353.2
1302137-007C	TW4-08_02072013	2/7/2013 0754h	Aqueous	VOA by GC/MS Method 8260C/5030C
1302137-008A	TW4-09_02072013	2/7/2013 0800h	Aqueous	Anions, E300.0
1302137-008B	TW4-09_02072013	2/7/2013 0800h	Aqueous	Nitrite/Nitrate (as N), E353.2
1302137-008C	TW4-09_02072013	2/7/2013 0800h	Aqueous	VOA by GC/MS Method 8260C/5030C
1302137-009A	TW4-16_02072013	2/7/2013 0808h	Aqueous	Anions, E300.0
1302137-009B	TW4-16_02072013	2/7/2013 0808h	Aqueous	Nitrite/Nitrate (as N), E353.2
1302137-009C	TW4-16_02072013	2/7/2013 0808h	Aqueous	VOA by GC/MS Method 8260C/5030C
1302137-010A	TW4-27_02072013	2/7/2013 0737h	Aqueous	Anions, E300.0
1302137-010B	TW4-27_02072013	2/7/2013 0737h	Aqueous	Nitrite/Nitrate (as N), E353.2

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer



**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2013  
**Lab Set ID:** 1302137  
**Date Received:** 2/8/2013 1108h

**Contact:** Garrin Palmer

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
1302137-010C	TW4-27_02072013	2/7/2013 0737h	Aqueous	VOA by GC/MS Method 8260C/5030C
1302137-011A	TW4-26_02072013	2/7/2013 0820h	Aqueous	Anions, E300.0
1302137-011B	TW4-26_02072013	2/7/2013 0820h	Aqueous	Nitrite/Nitrate (as N), E353.2
1302137-011C	TW4-26_02072013	2/7/2013 0820h	Aqueous	VOA by GC/MS Method 8260C/5030C
1302137-012A	TW4-65_02072013	2/7/2013 0808h	Aqueous	Anions, E300.0
1302137-012B	TW4-65_02072013	2/7/2013 0808h	Aqueous	Nitrite/Nitrate (as N), E353.2
1302137-012C	TW4-65_02072013	2/7/2013 0808h	Aqueous	VOA by GC/MS Method 8260C/5030C
1302137-013A	Trip Blank	2/6/2013	Aqueous	VOA by GC/MS Method 8260C/5030C

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## Inorganic Case Narrative

**Client:** Energy Fuels Resources, Inc.  
**Contact:** Garrin Palmer  
**Project:** 1st Quarter Chloroform 2013  
**Lab Set ID:** 1302137

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### **Sample Receipt Information:**

**Date of Receipt:** 2/8/2013  
**Date(s) of Collection:** 2/6 & 2/7/2013  
**Sample Condition:** Intact  
**C-O-C Discrepancies:** None

**Holding Time and Preservation Requirements:** The analysis and preparation of all samples were performed within the method holding times. All samples were properly preserved.

**Preparation and Analysis Requirements:** The samples were analyzed following the methods stated on the analytical reports.

**Analytical QC Requirements:** All instrument calibration and calibration check requirements were met. All internal standard recoveries met method criterion.

**Batch QC Requirements:** MB, LCS, MS, MSD, RPD:

**Method Blanks (MB):** No target analytes were detected above reporting limits, indicating that the procedure was free from contamination.

**Laboratory Control Samples (LCS):** All LCS recoveries were within control limits, indicating that the preparation and analysis were in control.

**Matrix Spike / Matrix Spike Duplicates (MS/MSD):** All percent recoveries and RPDs (Relative Percent Differences) were inside established limits, with the following exception: The MSD percent recovery on sample 1302137-006B was outside of control limits for Nitrate/Nitrite due to sample matrix interference.

**Corrective Action:** None required.

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer



## Volatile Case Narrative

**Client:** Energy Fuels Resources, Inc.  
**Contact:** Garrin Palmer  
**Project:** 1st Quarter Chloroform 2013  
**Lab Set ID:** 1302137

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Laboratory Director

Jose Rocha  
QA Officer

### **Sample Receipt Information:**

**Date of Receipt:** 2/8/2013  
**Date(s) of Collection:** 2/6 & 2/7/2013  
**Sample Condition:** Intact  
**C-O-C Discrepancies:** None  
**Method:** SW-846 8260C/5030C  
**Analysis:** Volatile Organic Compounds

**General Set Comments:** One sample exhibited a target analyte above its reporting limit.

**Holding Time and Preservation Requirements:** All samples were received in appropriate containers and properly preserved. The analysis and preparation of all samples were performed within the method holding times following the methods stated on the analytical reports.

**Analytical QC Requirements:** All instrument calibration and calibration check requirements were met. All internal standard recoveries met method criterion.

**Batch QC Requirements:** MB, LCS, MS, MSD, RPD, and Surrogates:

**Method Blanks (MBs):** No target analytes were detected above reporting limits, indicating that the procedure was free from contamination.

**Laboratory Control Sample (LCSs):** All LCS recoveries were within control limits, indicating that the preparation and analysis were in control.

**Matrix Spike / Matrix Spike Duplicate (MS/MSD):** All percent recoveries and RPDs (Relative Percent Differences) were inside established limits, indicating no apparent matrix interferences.

**Surrogates:** All surrogate recoveries were within established limits.

**Corrective Action:** None required.



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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.

**Lab Set ID:** 1302137

**Project:** 1st Quarter Chloroform 2013

**Contact:** Garrin Palmer

**Dept:** WC

**QC Type:** LCS

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
LCS-R50527	Chloride	mg/L	E300.0	4.96	5.000	0	99.1	90-110				2/13/2013 1213h
LCS-R50460	Nitrate/Nitrite (as N)	mg/L	E353.2	0.952	1.000	0	95.2	90-110				2/12/2013 2000h



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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1302137  
**Project:** 1st Quarter Chloroform 2013

**Contact:** Garrin Palmer  
**Dept:** WC  
**QC Type:** MBLK

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
MB-R50527	Chloride	mg/L	E300.0	< 1.00				-				2/13/2013 1148h
MB-R50460	Nitrate/Nitrite (as N)	mg/L	E353.2	< 0.100				-				2/12/2013 1959h



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Laboratory Director

Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1302137  
**Project:** 1st Quarter Chloroform 2013

**Contact:** Garrin Palmer  
**Dept:** WC  
**QC Type:** MS

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
1302137-001AMS	Chloride	mg/L	E300.0	4.91	5.000	0	98.3	90-110				2/13/2013 1304h
1302137-001BMS	Nitrate/Nitrite (as N)	mg/L	E353.2	1.02	1.000	0	102	90-110				2/12/2013 2036h
1302137-006BMS	Nitrate/Nitrite (as N)	mg/L	E353.2	1.01	1.000	0.07700	93.5	90-110				2/12/2013 2039h



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Laboratory Director

Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1302137  
**Project:** 1st Quarter Chloroform 2013

**Contact:** Garrin Palmer  
**Dept:** WC  
**QC Type:** MSD

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
1302137-001AMSD	Chloride	mg/L	E300.0	5.05	5.000	0	101	90-110	2.75	20		2/13/2013 1329h
1302137-001BMSD	Nitrate/Nitrite (as N)	mg/L	E353.2	0.955	1.000	0	95.5	90-110	6.08	10		2/12/2013 2038h
1302137-006BMSD	Nitrate/Nitrite (as N)	mg/L	E353.2	0.964	1.000	0.07700	88.7	90-110	4.89	10	<sup>1</sup>	2/12/2013 2040h

<sup>1</sup> - Matrix spike recovery indicates matrix interference. The method is in control as indicated by the LCS.



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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.

**Lab Set ID:** 1302137

**Project:** 1st Quarter Chloroform 2013

**Contact:** Garrin Palmer

**Dept:** MSVOA

**QC Type:** LCS

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
LCS VOC 020813A	Chloroform	µg/L	SW8260C	20.1	20.00	0	101	67-132				2/8/2013 1008h
LCS VOC 020813A	Methylene chloride	µg/L	SW8260C	16.9	20.00	0	84.6	32-185				2/8/2013 1008h
LCS VOC 020813A	Surr: 1,2-Dichloroethane-d4	%REC	SW8260C	51.1	50.00		102	76-138				2/8/2013 1008h
LCS VOC 020813A	Surr: 4-Bromofluorobenzene	%REC	SW8260C	53.4	50.00		107	77-121				2/8/2013 1008h
LCS VOC 020813A	Surr: Dibromofluoromethane	%REC	SW8260C	53.1	50.00		106	67-128				2/8/2013 1008h
LCS VOC 020813A	Surr: Toluene-d8	%REC	SW8260C	51.7	50.00		103	81-135				2/8/2013 1008h
LCS VOC 021213A	Chloroform	µg/L	SW8260C	19.4	20.00	0	96.8	67-132				2/12/2013 1047h
LCS VOC 021213A	Methylene chloride	µg/L	SW8260C	19.5	20.00	0	97.6	32-185				2/12/2013 1047h
LCS VOC 021213A	Surr: 1,2-Dichloroethane-d4	%REC	SW8260C	48.2	50.00		96.4	76-138				2/12/2013 1047h
LCS VOC 021213A	Surr: 4-Bromofluorobenzene	%REC	SW8260C	49.8	50.00		99.6	77-121				2/12/2013 1047h
LCS VOC 021213A	Surr: Dibromofluoromethane	%REC	SW8260C	50.5	50.00		101	67-128				2/12/2013 1047h
LCS VOC 021213A	Surr: Toluene-d8	%REC	SW8260C	52.9	50.00		106	81-135				2/12/2013 1047h



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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1302137  
**Project:** 1st Quarter Chloroform 2013

**Contact:** Garrin Palmer  
**Dept:** MSVOA  
**QC Type:** MBLK

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
MB VOC 020813A	Carbon tetrachloride	µg/L	SW8260C	< 1.00				-				2/8/2013 1046h
MB VOC 020813A	Chloroform	µg/L	SW8260C	< 1.00				-				2/8/2013 1046h
MB VOC 020813A	Chloromethane	µg/L	SW8260C	< 1.00				-				2/8/2013 1046h
MB VOC 020813A	Methylene chloride	µg/L	SW8260C	< 1.00				-				2/8/2013 1046h
MB VOC 020813A	Surr: 1,2-Dichloroethane-d4	%REC	SW8260C	52.5	50.00		105	76-138				2/8/2013 1046h
MB VOC 020813A	Surr: 4-Bromofluorobenzene	%REC	SW8260C	57.5	50.00		115	77-121				2/8/2013 1046h
MB VOC 020813A	Surr: Dibromofluoromethane	%REC	SW8260C	53.1	50.00		106	67-128				2/8/2013 1046h
MB VOC 020813A	Surr: Toluene-d8	%REC	SW8260C	52.8	50.00		106	81-135				2/8/2013 1046h
MB VOC 021213A	Carbon tetrachloride	µg/L	SW8260C	< 1.00				-				2/12/2013 1141h
MB VOC 021213A	Chloroform	µg/L	SW8260C	< 1.00				-				2/12/2013 1141h
MB VOC 021213A	Chloromethane	µg/L	SW8260C	< 1.00				-				2/12/2013 1141h
MB VOC 021213A	Methylene chloride	µg/L	SW8260C	< 1.00				-				2/12/2013 1141h
MB VOC 021213A	Surr: 1,2-Dichloroethane-d4	%REC	SW8260C	53.6	50.00		107	76-138				2/12/2013 1141h
MB VOC 021213A	Surr: 4-Bromofluorobenzene	%REC	SW8260C	49.3	50.00		98.7	77-121				2/12/2013 1141h
MB VOC 021213A	Surr: Dibromofluoromethane	%REC	SW8260C	51.5	50.00		103	67-128				2/12/2013 1141h
MB VOC 021213A	Surr: Toluene-d8	%REC	SW8260C	50.7	50.00		101	81-135				2/12/2013 1141h



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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1302137  
**Project:** 1st Quarter Chloroform 2013

**Contact:** Garrin Palmer  
**Dept:** MSVOA  
**QC Type:** MS

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
1302128-001HMS	Chloroform	µg/L	SW8260C	19.2	20.00	0	96.2	50-146				2/8/2013 1302h
1302128-001HMS	Methylene chloride	µg/L	SW8260C	16.2	20.00	0	81.2	30-192				2/8/2013 1302h
1302128-001HMS	Surr: 1,2-Dichloroethane-d4	%REC	SW8260C	51.2	50.00		102	72-151				2/8/2013 1302h
1302128-001HMS	Surr: 4-Bromofluorobenzene	%REC	SW8260C	52.5	50.00		105	80-128				2/8/2013 1302h
1302128-001HMS	Surr: Dibromofluoromethane	%REC	SW8260C	52.7	50.00		105	80-124				2/8/2013 1302h
1302128-001HMS	Surr: Toluene-d8	%REC	SW8260C	49.9	50.00		99.8	77-129				2/8/2013 1302h
1302137-012CMS	Chloroform	µg/L	SW8260C	20.3	20.00	0	102	50-146				2/12/2013 1711h
1302137-012CMS	Methylene chloride	µg/L	SW8260C	21.5	20.00	0	108	30-192				2/12/2013 1711h
1302137-012CMS	Surr: 1,2-Dichloroethane-d4	%REC	SW8260C	45.1	50.00		90.2	72-151				2/12/2013 1711h
1302137-012CMS	Surr: 4-Bromofluorobenzene	%REC	SW8260C	49.5	50.00		99.0	80-128				2/12/2013 1711h
1302137-012CMS	Surr: Dibromofluoromethane	%REC	SW8260C	48.1	50.00		96.3	80-124				2/12/2013 1711h
1302137-012CMS	Surr: Toluene-d8	%REC	SW8260C	52.0	50.00		104	77-129				2/12/2013 1711h



463 West 3600 South  
Salt Lake City, UT 84115

Phone: (801) 263-8686, Toll Free: (888) 263-8686, Fax: (801) 263-8687  
e-mail: awal@awal-labs.com, web: www.awal-labs.com

Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1302137  
**Project:** 1st Quarter Chloroform 2013

**Contact:** Garrin Palmer  
**Dept:** MSVOA  
**QC Type:** MSD

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
1302128-001HMSD	Chloroform	µg/L	SW8260C	19.8	20.00	0	99.1	50-146	2.97	25		2/8/2013 1321h
1302128-001HMSD	Methylene chloride	µg/L	SW8260C	16.8	20.00	0	84.2	30-192	3.57	25		2/8/2013 1321h
1302128-001HMSD	Surr: 1,2-Dichloroethane-d4	%REC	SW8260C	52.1	50.00		104	72-151				2/8/2013 1321h
1302128-001HMSD	Surr: 4-Bromofluorobenzene	%REC	SW8260C	53.1	50.00		106	80-128				2/8/2013 1321h
1302128-001HMSD	Surr: Dibromofluoromethane	%REC	SW8260C	52.9	50.00		106	80-124				2/8/2013 1321h
1302128-001HMSD	Surr: Toluene-d8	%REC	SW8260C	51.4	50.00		103	77-129				2/8/2013 1321h
1302137-012CMSD	Chloroform	µg/L	SW8260C	17.8	20.00	0	88.8	50-146	13.4	25		2/12/2013 1731h
1302137-012CMSD	Methylene chloride	µg/L	SW8260C	18.9	20.00	0	94.5	30-192	13	25		2/12/2013 1731h
1302137-012CMSD	Surr: 1,2-Dichloroethane-d4	%REC	SW8260C	45.2	50.00		90.4	72-151				2/12/2013 1731h
1302137-012CMSD	Surr: 4-Bromofluorobenzene	%REC	SW8260C	48.0	50.00		96.0	80-128				2/12/2013 1731h
1302137-012CMSD	Surr: Dibromofluoromethane	%REC	SW8260C	47.2	50.00		94.5	80-124				2/12/2013 1731h
1302137-012CMSD	Surr: Toluene-d8	%REC	SW8260C	50.6	50.00		101	77-129				2/12/2013 1731h

# American West Analytical Laboratories

UL  
Denison

## WORK ORDER Summary

Work Order: **1302137** Page 1 of 3

**Client:** Energy Fuels Resources, Inc.

Due Date: 2/19/2013

**Client ID:** DEN100

**Contact:** Garrin Palmer

**Project:** 1st Quarter Chloroform 2013

**QC Level:** III

**WO Type:** Project

**Comments:** PA Rush. QC 3 & Summary. EDD-Denison. Email Group. RL of 1 ppm for Chloride and VOC and 0.1 ppm for NO2/NO3. Expected levels provided by client - see Jenn. J-flag what we can't meet.;

DB

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1302137-001A	TW4-03R_02062013	2/6/2013 0700h	2/8/2013 1108h	300.0-W	Aqueous	<input checked="" type="checkbox"/>	df - wc	1
<i>1 SEL Analytes: CL</i>								
1302137-001B				NO2/NO3-W-353.2		<input checked="" type="checkbox"/>		df - no2/no3
<i>1 SEL Analytes: NO3NO2N</i>								
1302137-001C				8260-W		<input checked="" type="checkbox"/>	VOCFridge	3
				<i>Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4</i>				
1302137-002A	TW4-03_02072013	2/7/2013 0654h	2/8/2013 1108h	300.0-W	Aqueous	<input checked="" type="checkbox"/>	df - wc	1
<i>1 SEL Analytes: CL</i>								
1302137-002B				NO2/NO3-W-353.2		<input checked="" type="checkbox"/>		df - no2/no3
<i>1 SEL Analytes: NO3NO2N</i>								
1302137-002C				8260-W		<input checked="" type="checkbox"/>	VOCFridge	3
				<i>Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4</i>				
1302137-003A	TW4-12_02072013	2/7/2013 0709h	2/8/2013 1108h	300.0-W	Aqueous	<input checked="" type="checkbox"/>	df - wc	1
<i>1 SEL Analytes: CL</i>								
1302137-003B				NO2/NO3-W-353.2		<input checked="" type="checkbox"/>		df - no2/no3
<i>1 SEL Analytes: NO3NO2N</i>								
1302137-003C				8260-W		<input checked="" type="checkbox"/>	VOCFridge	3
				<i>Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4</i>				
1302137-004A	TW4-13_02072013	2/7/2013 0718h	2/8/2013 1108h	300.0-W	Aqueous	<input checked="" type="checkbox"/>	df - wc	1
<i>1 SEL Analytes: CL</i>								
1302137-004B				NO2/NO3-W-353.2		<input checked="" type="checkbox"/>		df - no2/no3
<i>1 SEL Analytes: NO3NO2N</i>								
1302137-004C				8260-W		<input checked="" type="checkbox"/>	VOCFridge	3
				<i>Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4</i>				
1302137-005A	TW4-14_02072013	2/7/2013 0728h	2/8/2013 1108h	300.0-W	Aqueous	<input checked="" type="checkbox"/>	df - wc	1
<i>1 SEL Analytes: CL</i>								
1302137-005B				NO2/NO3-W-353.2		<input checked="" type="checkbox"/>		df - no2/no3
<i>1 SEL Analytes: NO3NO2N</i>								
1302137-005C				8260-W		<input checked="" type="checkbox"/>	VOCFridge	3
				<i>Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4</i>				
1302137-006A	TW4-23_02072013	2/7/2013 0746h	2/8/2013 1108h	300.0-W	Aqueous	<input checked="" type="checkbox"/>	df - wc	1
<i>1 SEL Analytes: CL</i>								

# WORK ORDER Summary

Work Order: **1302137** Page 2 of 3

Client: Energy Fuels Resources, Inc.

Due Date: 2/19/2013

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1302137-006B	TW4-23_02072013	2/7/2013 0746h	2/8/2013 1108h	NO2/NO3-W-353.2	Aqueous	<input checked="" type="checkbox"/>	df - no2/no3	1
				1 SEL Analytes: NO3NO2N				
1302137-006C				8260-W		<input checked="" type="checkbox"/>	VOCFridge	3
				Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4				
1302137-007A	TW4-08_02072013	2/7/2013 0754h	2/8/2013 1108h	300.0-W	Aqueous	<input checked="" type="checkbox"/>	df - wc	1
				1 SEL Analytes: CL				
1302137-007B				NO2/NO3-W-353.2		<input checked="" type="checkbox"/>	df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1302137-007C				8260-W		<input checked="" type="checkbox"/>	VOCFridge	3
				Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4				
1302137-008A	TW4-09_02072013	2/7/2013 0800h	2/8/2013 1108h	300.0-W	Aqueous	<input checked="" type="checkbox"/>	df - wc	1
				1 SEL Analytes: CL				
1302137-008B				NO2/NO3-W-353.2		<input checked="" type="checkbox"/>	df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1302137-008C				8260-W		<input checked="" type="checkbox"/>	VOCFridge	3
				Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4				
1302137-009A	TW4-16_02072013	2/7/2013 0808h	2/8/2013 1108h	300.0-W	Aqueous	<input checked="" type="checkbox"/>	df - wc	1
				1 SEL Analytes: CL				
1302137-009B				NO2/NO3-W-353.2		<input checked="" type="checkbox"/>	df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1302137-009C				8260-W		<input checked="" type="checkbox"/>	VOCFridge	3
				Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4				
1302137-010A	TW4-27_02072013	2/7/2013 0737h	2/8/2013 1108h	300.0-W	Aqueous	<input checked="" type="checkbox"/>	df - wc	1
				1 SEL Analytes: CL				
1302137-010B				NO2/NO3-W-353.2		<input checked="" type="checkbox"/>	df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1302137-010C				8260-W		<input checked="" type="checkbox"/>	VOCFridge	3
				Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4				
1302137-011A	TW4-26_02072013	2/7/2013 0820h	2/8/2013 1108h	300.0-W	Aqueous	<input checked="" type="checkbox"/>	df - wc	1
				1 SEL Analytes: CL				
1302137-011B				NO2/NO3-W-353.2		<input checked="" type="checkbox"/>	df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1302137-011C				8260-W		<input checked="" type="checkbox"/>	VOCFridge	3
				Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4				
1302137-012A	TW4-65_02072013	2/7/2013 0808h	2/8/2013 1108h	300.0-W	Aqueous	<input checked="" type="checkbox"/>	df - wc	1
				1 SEL Analytes: CL				
1302137-012B				NO2/NO3-W-353.2		<input checked="" type="checkbox"/>	df - no2/no3	
				1 SEL Analytes: NO3NO2N				

**WORK ORDER Summary -**Work Order: **1302137** Page 3 of 3

Client: Energy Fuels Resources, Inc.

Due Date: 2/19/2013

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1302137-012C	TW4-65_02072013	2/7/2013 0808h	2/8/2013 1108h	8260-W <i>Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4</i>	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	3
1302137-013A	Trip Blank	2/6/2013	2/8/2013 1108h	8260-W <i>Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4</i>	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	2

Client Energy Fuels  
 Address 6425 S Hwy 191  
Blanding UT 84511  
 City State Zip  
 Phone 435 678 2221 Fax \_\_\_\_\_  
 Contact Garrin Palmer  
 E-mail g.palmer@energyfuels.com  
 Project Name 1st Quarter Chloroform 2013  
 Project Number/P.O.# \_\_\_\_\_  
 Sampler Name Tanner Holliday



AMERICAN WEST ANALYTICAL LABORATORIES  
 463 West 3600 South Salt Lake City, Utah 84115  
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 Email: awal@awal-labs.com

**CHAIN OF CUSTODY**

Lab Sample Set # 1302137  
 Page 1 of 1

Turn Around Time (Circle One)  
 1 day 2 day 3 day 4 day 5 day Standard

Sample ID	Date/Time Collected	Matrix	Number of Containers (Total)	Chloroform per 50W	TESTS REQUIRED										QC LEVEL			COMMENTS	
					1	2	2+	3	3+	4	1	2	2+						
TW4-03R_02062013	2/6/13 0700	W	5	X												1	2	2+	chloroform
TW4-03_02072013	2/7/13 0654	W	5	X												3	3+	4	per 50W =
TW4-12_02072013	2/7/13 0709	W	5	X															→ Cl- by 300.0
TW4-13_02072013	2/7/13 0718	W	5	X															→ Nitrate + Nitrite
TW4-14_02072013	2/7/13 0728	W	5	X															as N by 353.2
TW4-23_02072013	2/7/13 0746	W	5	X															
TW4-08_02072013	2/7/13 0754	W	5	X															→ Volatiles 8260
TW4-09_02072013	2/7/13 0800	W	5	X															→ carbon tet
TW4-16_02072013	2/7/13 0808	W	5	X															→ CHLOROFORM
TW4-27_02072013	2/7/13 0737	W	5	X															→ Chloroform
TW4-26_02072013	2/7/13 0820	W	5	X															→ methylone CHL
TW4-65_02072013	2/7/13 0808	W	5	X															

LABORATORY USE ONLY

SAMPLES WERE:  
 1 Shipped or hand delivered Notes: \_\_\_\_\_  
 2 Ambient or Chilled Notes: \_\_\_\_\_  
 3 Temperature 04°  
 4 Received Broken/Leaking (Improperly Sealed) Y N Notes: \_\_\_\_\_  
 5 Properly Preserved Y N Checked at Bench Y N Notes: \_\_\_\_\_  
 6 Received Within Holding Times Y N Notes: \_\_\_\_\_

COC Tape Was:

1 Present on Outer Package Y N NA  
 2 Unbroken on Outer Package Y N NA  
 3 Present on Sample Y N NA  
 4 Unbroken on Sample Y N NA

Discrepancies Between Sample Labels and COC Record? Y N Notes: \_\_\_\_\_

Relinquished By: Signature <u>Tanner Holliday</u>	Date <u>2/7/13</u>	Received By: Signature <u>Renese Brown</u>	Date <u>2/8/13</u>
PRINT NAME <u>Tanner Holliday</u>	Time <u>1108</u>	PRINT NAME <u>Renese Brown</u>	Time <u>1108</u>
Relinquished By: Signature	Date	Received By: Signature	Date
PRINT NAME	Time	PRINT NAME	Time
Relinquished By: Signature	Date	Received By: Signature	Date
PRINT NAME	Time	PRINT NAME	Time
Relinquished By: Signature	Date	Received By: Signature	Date
PRINT NAME	Time	PRINT NAME	Time

Special Instructions:  
Trip Blank Included 2/6/2013  
Temp blank included

Sample Set: 1302137

Preservation Check Sheet

Sample Set Extension and pH

Bottle Type	Preservative	All OK	Except -001	Except -002	Except -003	Except -004	Except -005	Except -006	Except -007	Except -008	Except -009	Except -010	Except -011	Except -012	Except -013	Except -014	Except -015
Ammonia	pH <2 H <sub>2</sub> SO <sub>4</sub>																
COD	pH <2 H <sub>2</sub> SO <sub>4</sub>																
Cyanide	PH >12 NaOH																
Metals	pH <2 HNO <sub>3</sub>																
NO <sub>2</sub> & NO <sub>3</sub>	pH <2 H <sub>2</sub> SO <sub>4</sub>		yes														
Nutrients	pH <2 H <sub>2</sub> SO <sub>4</sub>																
O & G	pH <2 HCL																
Phenols	pH <2 H <sub>2</sub> SO <sub>4</sub>																
Sulfide	pH > 9NaOH, Zn Acetate																
TKN	pH <2 H <sub>2</sub> SO <sub>4</sub>																
TOC	pH <2 H <sub>3</sub> PO <sub>4</sub>																
TOX	pH <2 H <sub>2</sub> SO <sub>4</sub>																
T PO <sub>4</sub>	pH <2 H <sub>2</sub> SO <sub>4</sub>																
TPH	pH <2 HCL																

DB 2/8/13

- Procedure:
- 1) Pour a small amount of sample in the sample lid
  - 2) Pour sample from Lid gently over wide range pH paper
  - 3) **Do Not** dip the pH paper in the sample bottle or lid
  - 4) If sample is not preserved properly list its extension and receiving pH in the appropriate column above
  - 5) Flag COC, notify client if requested
  - 6) Place client conversation on COC
  - 7) Samples may be adjusted

Frequency: All samples requiring preservation



Garrin Palmer  
Energy Fuels Resources, Inc.  
6425 S. Hwy 191  
Blanding, UT 84511  
TEL: (435) 678-2221

RE: 1st Quarter Chloroform 2013

Dear Garrin Palmer:

Lab Set ID: 1302239

463 West 3600 South  
Salt Lake City, UT 84115

American West Analytical Laboratories received 22 sample(s) on 2/15/2013 for the analyses presented in the following report.

Phone: (801) 263-8686  
Toll Free: (888) 263-8686  
Fax: (801) 263-8687  
e-mail: [awal@awal-labs.com](mailto:awal@awal-labs.com)  
web: [www.awal-labs.com](http://www.awal-labs.com)

American West Analytical Laboratories (AWAL) is accredited by The National Environmental Laboratory Accreditation Program (NELAP) in Utah and Texas; and is state accredited in Colorado, Idaho, New Mexico, and Missouri.

All analyses were performed in accordance to the NELAP protocols unless noted otherwise. Accreditation scope documents are available upon request. If you have any questions or concerns regarding this report please feel free to call.

The abbreviation "Surr" found in organic reports indicates a surrogate compound that is intentionally added by the laboratory to determine sample injection, extraction, and/or purging efficiency. The "Reporting Limit" found on the report is equivalent to the practical quantitation limit (PQL). This is the minimum concentration that can be reported by the method referenced and the sample matrix. The reporting limit must not be confused with any regulatory limit. Analytical results are reported to three significant figures for quality control and calculation purposes.

Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

Thank You,

**Kyle F. Gross**  
Digitally signed by Kyle F. Gross  
DN: cn=Kyle F. Gross, o=AWAL,  
ou=AWAL-Laboratory Director,  
email=kyle@awal-labs.com, c=US  
Date: 2013.02.26 15:53:25 -0700'

Approved by:

Laboratory Director or designee



## SAMPLE SUMMARY

**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2013  
**Lab Set ID:** 1302239  
**Date Received:** 2/15/2013 1000h

**Contact:** Garrin Palmer

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
1302239-001A	MW-32_02132013	2/13/2013 1500h	Aqueous	Anions, E300.0
1302239-001B	MW-32_02132013	2/13/2013 1500h	Aqueous	Nitrite/Nitrate (as N), E353.2
1302239-001C	MW-32_02132013	2/13/2013 1500h	Aqueous	VOA by GC/MS Method 8260C/5030C
1302239-002A	TW4-25_02112013	2/11/2013 0850h	Aqueous	Anions, E300.0
1302239-002B	TW4-25_02112013	2/11/2013 0850h	Aqueous	Nitrite/Nitrate (as N), E353.2
1302239-002C	TW4-25_02112013	2/11/2013 0850h	Aqueous	VOA by GC/MS Method 8260C/5030C
1302239-003A	TW4-24_02112013	2/11/2013 0910h	Aqueous	Anions, E300.0
1302239-003B	TW4-24_02112013	2/11/2013 0910h	Aqueous	Nitrite/Nitrate (as N), E353.2
1302239-003C	TW4-24_02112013	2/11/2013 0910h	Aqueous	VOA by GC/MS Method 8260C/5030C
1302239-004A	TW4-22_02112013	2/11/2013 0926h	Aqueous	Anions, E300.0
1302239-004B	TW4-22_02112013	2/11/2013 0926h	Aqueous	Nitrite/Nitrate (as N), E353.2
1302239-004C	TW4-22_02112013	2/11/2013 0926h	Aqueous	VOA by GC/MS Method 8260C/5030C
1302239-005A	MW-26_02112013	2/11/2013 1010h	Aqueous	Anions, E300.0
1302239-005B	MW-26_02112013	2/11/2013 1010h	Aqueous	Nitrite/Nitrate (as N), E353.2
1302239-005C	MW-26_02112013	2/11/2013 1010h	Aqueous	VOA by GC/MS Method 8260C/5030C
1302239-006A	MW-04_02112013	2/11/2013 1020h	Aqueous	Anions, E300.0
1302239-006B	MW-04_02112013	2/11/2013 1020h	Aqueous	Nitrite/Nitrate (as N), E353.2
1302239-006C	MW-04_02112013	2/11/2013 1020h	Aqueous	VOA by GC/MS Method 8260C/5030C
1302239-007A	TW4-04_02112013	2/11/2013 1030h	Aqueous	Anions, E300.0
1302239-007B	TW4-04_02112013	2/11/2013 1030h	Aqueous	Nitrite/Nitrate (as N), E353.2
1302239-007C	TW4-04_02112013	2/11/2013 1030h	Aqueous	VOA by GC/MS Method 8260C/5030C
1302239-008A	TW4-19_02112013	2/11/2013 1100h	Aqueous	Anions, E300.0
1302239-008B	TW4-19_02112013	2/11/2013 1100h	Aqueous	Nitrite/Nitrate (as N), E353.2
1302239-008C	TW4-19_02112013	2/11/2013 1100h	Aqueous	VOA by GC/MS Method 8260C/5030C
1302239-009A	TW4-20_02112013	2/11/2013 0950h	Aqueous	Anions, E300.0
1302239-009B	TW4-20_02112013	2/11/2013 0950h	Aqueous	Nitrite/Nitrate (as N), E353.2
1302239-009C	TW4-20_02112013	2/11/2013 0950h	Aqueous	VOA by GC/MS Method 8260C/5030C
1302239-010A	TW4-05_02132013	2/13/2013 1237h	Aqueous	Anions, E300.0
1302239-010B	TW4-05_02132013	2/13/2013 1237h	Aqueous	Nitrite/Nitrate (as N), E353.2

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer



**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2013  
**Lab Set ID:** 1302239  
**Date Received:** 2/15/2013 1000h

**Contact:** Garrin Palmer

463 West 3600 South  
Salt Lake City, UT 84115

Phone: (801) 263-8686  
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e-mail: awal@awal-labs.com

web: www.awal-labs.com

Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
1302239-010C	TW4-05_02132013	2/13/2013 1237h	Aqueous	VOA by GC/MS Method 8260C/5030C
1302239-011A	TW4-06_02132013	2/13/2013 1247h	Aqueous	Anions, E300.0
1302239-011B	TW4-06_02132013	2/13/2013 1247h	Aqueous	Nitrite/Nitrate (as N), E353.2
1302239-011C	TW4-06_02132013	2/13/2013 1247h	Aqueous	VOA by GC/MS Method 8260C/5030C
1302239-012A	TW4-18_02132013	2/13/2013 1304h	Aqueous	Anions, E300.0
1302239-012B	TW4-18_02132013	2/13/2013 1304h	Aqueous	Nitrite/Nitrate (as N), E353.2
1302239-012C	TW4-18_02132013	2/13/2013 1304h	Aqueous	VOA by GC/MS Method 8260C/5030C
1302239-013A	TW4-10_02132013	2/13/2013 1318h	Aqueous	Anions, E300.0
1302239-013B	TW4-10_02132013	2/13/2013 1318h	Aqueous	Nitrite/Nitrate (as N), E353.2
1302239-013C	TW4-10_02132013	2/13/2013 1318h	Aqueous	VOA by GC/MS Method 8260C/5030C
1302239-014A	TW4-21_02132013	2/13/2013 1331h	Aqueous	Anions, E300.0
1302239-014B	TW4-21_02132013	2/13/2013 1331h	Aqueous	Nitrite/Nitrate (as N), E353.2
1302239-014C	TW4-21_02132013	2/13/2013 1331h	Aqueous	VOA by GC/MS Method 8260C/5030C
1302239-015A	TW4-11_02132013	2/13/2013 1341h	Aqueous	Anions, E300.0
1302239-015B	TW4-11_02132013	2/13/2013 1341h	Aqueous	Nitrite/Nitrate (as N), E353.2
1302239-015C	TW4-11_02132013	2/13/2013 1341h	Aqueous	VOA by GC/MS Method 8260C/5030C
1302239-016A	TW4-07_02132013	2/13/2013 1349h	Aqueous	Anions, E300.0
1302239-016B	TW4-07_02132013	2/13/2013 1349h	Aqueous	Nitrite/Nitrate (as N), E353.2
1302239-016C	TW4-07_02132013	2/13/2013 1349h	Aqueous	VOA by GC/MS Method 8260C/5030C
1302239-017A	TW4-01_02132013	2/13/2013 1355h	Aqueous	Anions, E300.0
1302239-017B	TW4-01_02132013	2/13/2013 1355h	Aqueous	Nitrite/Nitrate (as N), E353.2
1302239-017C	TW4-01_02132013	2/13/2013 1355h	Aqueous	VOA by GC/MS Method 8260C/5030C
1302239-018A	TW4-02_02132013	2/13/2013 1403h	Aqueous	Anions, E300.0
1302239-018B	TW4-02_02132013	2/13/2013 1403h	Aqueous	Nitrite/Nitrate (as N), E353.2
1302239-018C	TW4-02_02132013	2/13/2013 1403h	Aqueous	VOA by GC/MS Method 8260C/5030C
1302239-019A	TW4-60_02142013	2/14/2013 0805h	Aqueous	Anions, E300.0
1302239-019B	TW4-60_02142013	2/14/2013 0805h	Aqueous	Nitrite/Nitrate (as N), E353.2
1302239-019C	TW4-60_02142013	2/14/2013 0805h	Aqueous	VOA by GC/MS Method 8260C/5030C
1302239-020A	TW4-70_02132013	2/13/2013 1304h	Aqueous	Anions, E300.0
1302239-020B	TW4-70_02132013	2/13/2013 1304h	Aqueous	Nitrite/Nitrate (as N), E353.2



**Client:** Energy Fuels Resources, Inc.  
**Project:** 1st Quarter Chloroform 2013  
**Lab Set ID:** 1302239  
**Date Received:** 2/15/2013 1000h

**Contact:** Garrin Palmer

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
1302239-020C	TW4-70_02132013	2/13/2013 1304h	Aqueous	VOA by GC/MS Method 8260C/5030C
1302239-021A	Trip Blank	2/11/2013	Aqueous	VOA by GC/MS Method 8260C/5030C
1302239-022A	TW4-05R_02122013	2/12/2013 0714h	Aqueous	Anions, E300.0
1302239-022B	TW4-05R_02122013	2/12/2013 0714h	Aqueous	Nitrite/Nitrate (as N), E353.2
1302239-022C	TW4-05R_02122013	2/12/2013 0714h	Aqueous	VOA by GC/MS Method 8260C/5030C

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer



## Inorganic Case Narrative

**Client:** Energy Fuels Resources, Inc.  
**Contact:** Garrin Palmer  
**Project:** 1st Quarter Chloroform 2013  
**Lab Set ID:** 1302239

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### **Sample Receipt Information:**

**Date of Receipt:** 2/15/2013  
**Date(s) of Collection:** 2/11, 2/12, 2/13, & 2/14/2013  
**Sample Condition:** Intact  
**C-O-C Discrepancies:** None

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**Holding Time and Preservation Requirements:** The analysis and preparation of all samples were performed within the method holding times. All samples were properly preserved.

**Preparation and Analysis Requirements:** The samples were analyzed following the methods stated on the analytical reports.

**Analytical QC Requirements:** All instrument calibration and calibration check requirements were met. All internal standard recoveries met method criterion.

Kyle F. Gross  
Laboratory Director

**Batch QC Requirements:** MB, LCS, MS, MSD, RPD:

Jose Rocha  
QA Officer

**Method Blanks (MB):** No target analytes were detected above reporting limits, indicating that the procedure was free from contamination.

**Laboratory Control Samples (LCS):** All LCS recoveries were within control limits, indicating that the preparation and analysis were in control.

**Matrix Spike / Matrix Spike Duplicates (MS/MSD):** All percent recoveries and RPDs (Relative Percent Differences) were inside established limits, indicating no apparent matrix interferences.

**Corrective Action:** None required.



## Volatile Case Narrative

**Client:** Energy Fuels Resources, Inc.  
**Contact:** Garrin Palmer  
**Project:** 1st Quarter Chloroform 2013  
**Lab Set ID:** 1302239

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### **Sample Receipt Information:**

**Date of Receipt:** 2/15/2013  
**Date(s) of Collection:** 2/11, 2/12, 2/13, & 2/14/2013  
**Sample Condition:** Intact  
**C-O-C Discrepancies:** None  
**Method:** SW-846 8260C/5030C  
**Analysis:** Volatile Organic Compounds

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**General Set Comments:** Multiple target analytes were observed above reporting limits.

**Holding Time and Preservation Requirements:** All samples were received in appropriate containers and properly preserved. The analysis and preparation of all samples were performed within the method holding times following the methods stated on the analytical reports.

Kyle F. Gross  
Laboratory Director

**Analytical QC Requirements:** All instrument calibration and calibration check requirements were met. All internal standard recoveries met method criterion.

Jose Rocha  
QA Officer

**Batch QC Requirements:** MB, LCS, MS, MSD, RPD, and Surrogates:

**Method Blanks (MBs):** No target analytes were detected above reporting limits, indicating that the procedure was free from contamination.

**Laboratory Control Sample (LCSs):** All LCS recoveries were within control limits, indicating that the preparation and analysis were in control.

**Matrix Spike / Matrix Spike Duplicate (MS/MSD):** All percent recoveries and RPDs (Relative Percent Differences) were inside established limits, with the following exception: The MSD percent recovery was outside of control limits on chloroform for sample 1302239-008C due to sample matrix interference.

**Surrogates:** All surrogate recoveries were within established limits.

**Corrective Action:** None required.



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Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.

**Lab Set ID:** 1302239

**Project:** 1st Quarter Chloroform 2013

**Contact:** Garrin Palmer

**Dept:** WC

**QC Type:** LCS

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
LCS-R50669	Chloride	mg/L	E300.0	5.07	5.000	0	101	90-110				2/18/2013 1830h
LCS-R50718	Chloride	mg/L	E300.0	5.07	5.000	0	101	90-110				2/19/2013 1120h
LCS-R50606	Nitrate/Nitrite (as N)	mg/L	E353.2	1.0	1.000	0	99.9	90-110				2/15/2013 1521h
LCS-R50607	Nitrate/Nitrite (as N)	mg/L	E353.2	0.935	1.000	0	93.5	90-110				2/15/2013 1618h



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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1302239  
**Project:** 1st Quarter Chloroform 2013

**Contact:** Garrin Palmer  
**Dept:** WC  
**QC Type:** MBLK

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
MB-R50669	Chloride	mg/L	E300.0	< 1.00				-				2/18/2013 1803h
MB-R50718	Chloride	mg/L	E300.0	< 1.00				-				2/19/2013 1053h
MB-R50606	Nitrate/Nitrite (as N)	mg/L	E353.2	< 0.10				-				2/15/2013 1519h
MB-R50607	Nitrate/Nitrite (as N)	mg/L	E353.2	< 0.100				-				2/15/2013 1616h



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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1302239  
**Project:** 1st Quarter Chloroform 2013

**Contact:** Garrin Palmer  
**Dept:** WC  
**QC Type:** MS

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
1302239-001AMS	Chloride	mg/L	E300.0	526	500.0	34.35	98.4	90-110				2/18/2013 1925h
1302239-011AMS	Chloride	mg/L	E300.0	559	500.0	40.44	104	90-110				2/19/2013 0214h
1302239-022AMS	Chloride	mg/L	E300.0	5.17	5.000	0	103	90-110				2/19/2013 1211h
1302239-001BMS	Nitrate/Nitrite (as N)	mg/L	E353.2	0.97	1.000	0.06540	90.1	90-110				2/15/2013 1605h
1302239-011BMS	Nitrate/Nitrite (as N)	mg/L	E353.2	1.1	1.000	0.1544	93.2	90-110				2/15/2013 1608h
1302239-022BMS	Nitrate/Nitrite (as N)	mg/L	E353.2	0.937	1.000	0.002900	93.4	90-110				2/15/2013 1624h



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QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1302239  
**Project:** 1st Quarter Chloroform 2013

**Contact:** Garrin Palmer  
**Dept:** WC  
**QC Type:** MSD

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
1302239-001AMSD	Chloride	mg/L	E300.0	526	500.0	34.35	98.3	90-110	0.0243	20		2/18/2013 1952h
1302239-011AMSD	Chloride	mg/L	E300.0	526	500.0	40.44	97.1	90-110	6.11	20		2/19/2013 0241h
1302239-022AMSD	Chloride	mg/L	E300.0	5.17	5.000	0	103	90-110	0.0387	20		2/19/2013 1236h
1302239-001BMDS	Nitrate/Nitrite (as N)	mg/L	E353.2	1.0	1.000	0.06540	94.6	90-110	4.56	10		2/15/2013 1607h
1302239-011BMDS	Nitrate/Nitrite (as N)	mg/L	E353.2	1.1	1.000	0.1544	94.0	90-110	0.725	10		2/15/2013 1609h
1302239-022BMDS	Nitrate/Nitrite (as N)	mg/L	E353.2	0.975	1.000	0.002900	97.2	90-110	4.03	10		2/15/2013 1626h



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1302239  
**Project:** 1st Quarter Chloroform 2013

**Contact:** Garrin Palmer  
**Dept:** MSVOA  
**QC Type:** LCS

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
LCS VOC 021813A	Chloroform	µg/L	SW8260C	20.2	20.00	0	101	67-132				2/18/2013 1034h
LCS VOC 021813A	Methylene chloride	µg/L	SW8260C	18.4	20.00	0	91.8	32-185				2/18/2013 1034h
LCS VOC 021813A	Surr: 1,2-Dichloroethane-d4	%REC	SW8260C	52.0	50.00		104	76-138				2/18/2013 1034h
LCS VOC 021813A	Surr: 4-Bromofluorobenzene	%REC	SW8260C	49.3	50.00		98.6	77-121				2/18/2013 1034h
LCS VOC 021813A	Surr: Dibromofluoromethane	%REC	SW8260C	52.5	50.00		105	67-128				2/18/2013 1034h
LCS VOC 021813A	Surr: Toluene-d8	%REC	SW8260C	48.2	50.00		96.4	81-135				2/18/2013 1034h
LCS VOC 022013A	Chloroform	µg/L	SW8260C	23.9	20.00	0	120	67-132				2/20/2013 0937h
LCS VOC 022013A	Methylene chloride	µg/L	SW8260C	24.7	20.00	0	124	32-185				2/20/2013 0937h
LCS VOC 022013A	Surr: 1,2-Dichloroethane-d4	%REC	SW8260C	50.0	50.00		100	76-138				2/20/2013 0937h
LCS VOC 022013A	Surr: 4-Bromofluorobenzene	%REC	SW8260C	47.4	50.00		94.9	77-121				2/20/2013 0937h
LCS VOC 022013A	Surr: Dibromofluoromethane	%REC	SW8260C	49.4	50.00		98.9	67-128				2/20/2013 0937h
LCS VOC 022013A	Surr: Toluene-d8	%REC	SW8260C	48.2	50.00		96.3	81-135				2/20/2013 0937h
LCS VOC 022113A	Chloroform	µg/L	SW8260C	24.9	20.00	0	124	67-132				2/21/2013 1013h
LCS VOC 022113A	Methylene chloride	µg/L	SW8260C	25.5	20.00	0	128	32-185				2/21/2013 1013h
LCS VOC 022113A	Surr: 1,2-Dichloroethane-d4	%REC	SW8260C	51.7	50.00		103	76-138				2/21/2013 1013h
LCS VOC 022113A	Surr: 4-Bromofluorobenzene	%REC	SW8260C	48.0	50.00		96.0	77-121				2/21/2013 1013h
LCS VOC 022113A	Surr: Dibromofluoromethane	%REC	SW8260C	50.1	50.00		100	67-128				2/21/2013 1013h
LCS VOC 022113A	Surr: Toluene-d8	%REC	SW8260C	48.0	50.00		96.0	81-135				2/21/2013 1013h
LCS VOC 022513A	Chloroform	µg/L	SW8260C	23.2	20.00	0	116	67-132				2/25/2013 0829h
LCS VOC 022513A	Methylene chloride	µg/L	SW8260C	24.4	20.00	0	122	32-185				2/25/2013 0829h
LCS VOC 022513A	Surr: 1,2-Dichloroethane-d4	%REC	SW8260C	51.3	50.00		103	76-138				2/25/2013 0829h
LCS VOC 022513A	Surr: 4-Bromofluorobenzene	%REC	SW8260C	46.5	50.00		92.9	77-121				2/25/2013 0829h
LCS VOC 022513A	Surr: Dibromofluoromethane	%REC	SW8260C	50.8	50.00		102	67-128				2/25/2013 0829h
LCS VOC 022513A	Surr: Toluene-d8	%REC	SW8260C	47.8	50.00		95.5	81-135				2/25/2013 0829h



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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1302239  
**Project:** 1st Quarter Chloroform 2013

**Contact:** Garrin Palmer  
**Dept:** MSVOA  
**QC Type:** MBLK

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
MB VOC 021813A	Carbon tetrachloride	µg/L	SW8260C	< 1.00				-				2/18/2013 1111h
MB VOC 021813A	Chloroform	µg/L	SW8260C	< 1.00				-				2/18/2013 1111h
MB VOC 021813A	Chloromethane	µg/L	SW8260C	< 1.00				-				2/18/2013 1111h
MB VOC 021813A	Methylene chloride	µg/L	SW8260C	< 1.00				-				2/18/2013 1111h
MB VOC 021813A	Surr: 1,2-Dichloroethane-d4	%REC	SW8260C	53.4	50.00		107	76-138				2/18/2013 1111h
MB VOC 021813A	Surr: 4-Bromofluorobenzene	%REC	SW8260C	58.6	50.00		117	77-121				2/18/2013 1111h
MB VOC 021813A	Surr: Dibromofluoromethane	%REC	SW8260C	54.1	50.00		108	67-128				2/18/2013 1111h
MB VOC 021813A	Surr: Toluene-d8	%REC	SW8260C	53.4	50.00		107	81-135				2/18/2013 1111h
MB VOC 022013A	Carbon tetrachloride	µg/L	SW8260C	< 1.00				-				2/20/2013 1015h
MB VOC 022013A	Chloroform	µg/L	SW8260C	< 1.00				-				2/20/2013 1015h
MB VOC 022013A	Chloromethane	µg/L	SW8260C	< 1.00				-				2/20/2013 1015h
MB VOC 022013A	Methylene chloride	µg/L	SW8260C	< 1.00				-				2/20/2013 1015h
MB VOC 022013A	Surr: 1,2-Dichloroethane-d4	%REC	SW8260C	50.9	50.00		102	76-138				2/20/2013 1015h
MB VOC 022013A	Surr: 4-Bromofluorobenzene	%REC	SW8260C	53.5	50.00		107	77-121				2/20/2013 1015h
MB VOC 022013A	Surr: Dibromofluoromethane	%REC	SW8260C	49.1	50.00		98.3	67-128				2/20/2013 1015h
MB VOC 022013A	Surr: Toluene-d8	%REC	SW8260C	49.4	50.00		98.7	81-135				2/20/2013 1015h
MB VOC 022113A	Carbon tetrachloride	µg/L	SW8260C	< 1.00				-				2/21/2013 0951h
MB VOC 022113A	Chloroform	µg/L	SW8260C	< 1.00				-				2/21/2013 0951h
MB VOC 022113A	Chloromethane	µg/L	SW8260C	< 1.00				-				2/21/2013 0951h
MB VOC 022113A	Methylene chloride	µg/L	SW8260C	< 1.00				-				2/21/2013 0951h
MB VOC 022113A	Surr: 1,2-Dichloroethane-d4	%REC	SW8260C	52.3	50.00		105	76-138				2/21/2013 0951h
MB VOC 022113A	Surr: 4-Bromofluorobenzene	%REC	SW8260C	54.8	50.00		110	77-121				2/21/2013 0951h
MB VOC 022113A	Surr: Dibromofluoromethane	%REC	SW8260C	49.7	50.00		99.3	67-128				2/21/2013 0951h
MB VOC 022113A	Surr: Toluene-d8	%REC	SW8260C	51.2	50.00		102	81-135				2/21/2013 0951h
MB VOC 022513A	Carbon tetrachloride	µg/L	SW8260C	< 2.00				-				2/25/2013 0907h
MB VOC 022513A	Chloroform	µg/L	SW8260C	< 2.00				-				2/25/2013 0907h
MB VOC 022513A	Chloromethane	µg/L	SW8260C	< 3.00				-				2/25/2013 0907h

Analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only on contact. This company accepts no responsibility



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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1302239  
**Project:** 1st Quarter Chloroform 2013

**Contact:** Garrin Palmer  
**Dept:** MSVOA  
**QC Type:** MBLK

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
MB VOC 022513A	Methylene chloride	µg/L	SW8260C	< 2.00				-				2/25/2013 0907h
MB VOC 022513A	Surr: 1,2-Dichloroethane-d4	%REC	SW8260C	52.1	50.00		104	76-138				2/25/2013 0907h
MB VOC 022513A	Surr: 4-Bromofluorobenzene	%REC	SW8260C	53.2	50.00		106	77-121				2/25/2013 0907h
MB VOC 022513A	Surr: Dibromofluoromethane	%REC	SW8260C	49.8	50.00		99.6	67-128				2/25/2013 0907h
MB VOC 022513A	Surr: Toluene-d8	%REC	SW8260C	49.8	50.00		99.6	81-135				2/25/2013 0907h

Analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only on contact. This company accepts no responsibility



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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.

**Lab Set ID:** 1302239

**Project:** 1st Quarter Chloroform 2013

**Contact:** Garrin Palmer

**Dept:** MSVOA

**QC Type:** MS

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
1302239-008CMS	Chloroform	µg/L	SW8260C	4,950	1,000	4,213	73.9	50-146				2/21/2013 1052h
1302239-008CMS	Methylene chloride	µg/L	SW8260C	1,140	1,000	0	114	30-192				2/21/2013 1052h
1302239-008CMS	Surr: 1,2-Dichloroethane-d4	%REC	SW8260C	2,600	2,500		104	72-151				2/21/2013 1052h
1302239-008CMS	Surr: 4-Bromofluorobenzene	%REC	SW8260C	2,440	2,500		97.7	80-128				2/21/2013 1052h
1302239-008CMS	Surr: Dibromofluoromethane	%REC	SW8260C	2,520	2,500		101	80-124				2/21/2013 1052h
1302239-008CMS	Surr: Toluene-d8	%REC	SW8260C	2,380	2,500		95.2	77-129				2/21/2013 1052h
1302239-022CMS	Chloroform	µg/L	SW8260C	23.8	20.00	0	119	50-146				2/20/2013 1327h
1302239-022CMS	Methylene chloride	µg/L	SW8260C	24.1	20.00	0	120	30-192				2/20/2013 1327h
1302239-022CMS	Surr: 1,2-Dichloroethane-d4	%REC	SW8260C	52.5	50.00		105	72-151				2/20/2013 1327h
1302239-022CMS	Surr: 4-Bromofluorobenzene	%REC	SW8260C	48.8	50.00		97.6	80-128				2/20/2013 1327h
1302239-022CMS	Surr: Dibromofluoromethane	%REC	SW8260C	50.6	50.00		101	80-124				2/20/2013 1327h
1302239-022CMS	Surr: Toluene-d8	%REC	SW8260C	48.2	50.00		96.5	77-129				2/20/2013 1327h
1302247-001AMS	Chloroform	µg/L	SW8260C	395	400.0	0	98.7	50-146				2/18/2013 1223h
1302247-001AMS	Methylene chloride	µg/L	SW8260C	348	400.0	0	86.9	30-192				2/18/2013 1223h
1302247-001AMS	Surr: 1,2-Dichloroethane-d4	%REC	SW8260C	1,020	1,000		102	72-151				2/18/2013 1223h
1302247-001AMS	Surr: 4-Bromofluorobenzene	%REC	SW8260C	1,050	1,000		105	80-128				2/18/2013 1223h
1302247-001AMS	Surr: Dibromofluoromethane	%REC	SW8260C	1,060	1,000		106	80-124				2/18/2013 1223h
1302247-001AMS	Surr: Toluene-d8	%REC	SW8260C	1,030	1,000		103	77-129				2/18/2013 1223h
1302348-003AMS	Chloroform	µg/L	SW8260C	242	200.0	0	121	50-146				2/25/2013 1625h
1302348-003AMS	Methylene chloride	µg/L	SW8260C	239	200.0	0	119	30-192				2/25/2013 1625h
1302348-003AMS	Surr: 1,2-Dichloroethane-d4	%REC	SW8260C	525	500.0		105	72-151				2/25/2013 1625h
1302348-003AMS	Surr: 4-Bromofluorobenzene	%REC	SW8260C	477	500.0		95.4	80-128				2/25/2013 1625h
1302348-003AMS	Surr: Dibromofluoromethane	%REC	SW8260C	499	500.0		99.7	80-124				2/25/2013 1625h
1302348-003AMS	Surr: Toluene-d8	%REC	SW8260C	478	500.0		95.5	77-129				2/25/2013 1625h



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Kyle F. Gross  
Laboratory Director

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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.

**Lab Set ID:** 1302239

**Project:** 1st Quarter Chloroform 2013

**Contact:** Garrin Palmer

**Dept:** MSVOA

**QC Type:** MSD

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
1302239-008CMSD	Chloroform	µg/L	SW8260C	4,650	1,000	4,213	43.3	50-146	6.37	25	<sup>1</sup>	2/21/2013 1111h
1302239-008CMSD	Methylene chloride	µg/L	SW8260C	1,080	1,000	0	108	30-192	5.9	25		2/21/2013 1111h
1302239-008CMSD	Surr: 1,2-Dichloroethane-d4	%REC	SW8260C	2,500	2,500		99.9	72-151				2/21/2013 1111h
1302239-008CMSD	Surr: 4-Bromofluorobenzene	%REC	SW8260C	2,340	2,500		93.5	80-128				2/21/2013 1111h
1302239-008CMSD	Surr: Dibromofluoromethane	%REC	SW8260C	2,420	2,500		96.9	80-124				2/21/2013 1111h
1302239-008CMSD	Surr: Toluene-d8	%REC	SW8260C	2,330	2,500		93.2	77-129				2/21/2013 1111h
1302239-022CMSD	Chloroform	µg/L	SW8260C	20.2	20.00	0	101	50-146	16.3	25		2/20/2013 1346h
1302239-022CMSD	Methylene chloride	µg/L	SW8260C	20.7	20.00	0	104	30-192	15	25		2/20/2013 1346h
1302239-022CMSD	Surr: 1,2-Dichloroethane-d4	%REC	SW8260C	51.3	50.00		103	72-151				2/20/2013 1346h
1302239-022CMSD	Surr: 4-Bromofluorobenzene	%REC	SW8260C	48.6	50.00		97.2	80-128				2/20/2013 1346h
1302239-022CMSD	Surr: Dibromofluoromethane	%REC	SW8260C	50.0	50.00		100	80-124				2/20/2013 1346h
1302239-022CMSD	Surr: Toluene-d8	%REC	SW8260C	48.4	50.00		96.8	77-129				2/20/2013 1346h
1302247-001AMSD	Chloroform	µg/L	SW8260C	373	400.0	0	93.2	50-146	5.73	25		2/18/2013 1242h
1302247-001AMSD	Methylene chloride	µg/L	SW8260C	337	400.0	0	84.3	30-192	3.04	25		2/18/2013 1242h
1302247-001AMSD	Surr: 1,2-Dichloroethane-d4	%REC	SW8260C	1,030	1,000		103	72-151				2/18/2013 1242h
1302247-001AMSD	Surr: 4-Bromofluorobenzene	%REC	SW8260C	1,080	1,000		108	80-128				2/18/2013 1242h
1302247-001AMSD	Surr: Dibromofluoromethane	%REC	SW8260C	1,050	1,000		105	80-124				2/18/2013 1242h
1302247-001AMSD	Surr: Toluene-d8	%REC	SW8260C	1,050	1,000		105	77-129				2/18/2013 1242h
1302348-003AMSD	Chloroform	µg/L	SW8260C	223	200.0	0	111	50-146	8.39	25		2/25/2013 1644h
1302348-003AMSD	Methylene chloride	µg/L	SW8260C	218	200.0	0	109	30-192	8.84	25		2/25/2013 1644h
1302348-003AMSD	Surr: 1,2-Dichloroethane-d4	%REC	SW8260C	513	500.0		103	72-151				2/25/2013 1644h
1302348-003AMSD	Surr: 4-Bromofluorobenzene	%REC	SW8260C	472	500.0		94.4	80-128				2/25/2013 1644h
1302348-003AMSD	Surr: Dibromofluoromethane	%REC	SW8260C	491	500.0		98.1	80-124				2/25/2013 1644h
1302348-003AMSD	Surr: Toluene-d8	%REC	SW8260C	472	500.0		94.3	77-129				2/25/2013 1644h

<sup>1</sup> - Matrix spike recovery indicates matrix interference. The method is in control as indicated by the LCS.

## WORK ORDER Summary

Work Order: **1302239** Page 1 of 4

**Client:** Energy Fuels Resources, Inc.

Due Date: 2/26/2013

**Client ID:** DEN100

**Contact:** Garrin Palmer

**Project:** 1st Quarter Chloroform 2013

**QC Level:** III

WO Type: Project

**Comments:** PA Rush, QC 3 & Summary. EDD-Denison. Email Group. RL of 1 ppm for Chloride and VOC and 0.1 ppm for NO2/NO3. Expected levels provided by client - see Jenn. J-flag what we can't meet.;

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1302239-001A	MW-32_02132013	2/13/2013 1500h	2/15/2013 1000h	300.0-W <i>1 SEL Analytes: CL</i>	Aqueous	<input checked="" type="checkbox"/>	df - wc	1
1302239-001B				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		<input checked="" type="checkbox"/>	df - no2/no3	
1302239-001C				8260-W <i>Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4</i>		<input checked="" type="checkbox"/>	VOCFridge ...	3
1302239-002A	TW4-25_02112013	2/11/2013 0850h	2/15/2013 1000h	300.0-W <i>1 SEL Analytes: CL</i>	Aqueous	<input checked="" type="checkbox"/>	df - wc	1
1302239-002B				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		<input checked="" type="checkbox"/>	df - no2/no3	
1302239-002C				8260-W <i>Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4</i>		<input checked="" type="checkbox"/>	VOCFridge	3
1302239-003A	TW4-24_02112013	2/11/2013 0910h	2/15/2013 1000h	300.0-W <i>1 SEL Analytes: CL</i>	Aqueous	<input checked="" type="checkbox"/>	df - wc	1
1302239-003B				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		<input checked="" type="checkbox"/>	df - no2/no3	
1302239-003C				8260-W <i>Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4</i>		<input checked="" type="checkbox"/>	VOCFridge	3
1302239-004A	TW4-22_02112013	2/11/2013 0926h	2/15/2013 1000h	300.0-W <i>1 SEL Analytes: CL</i>	Aqueous	<input checked="" type="checkbox"/>	df - wc	1
1302239-004B				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		<input checked="" type="checkbox"/>	df - no2/no3	
1302239-004C				8260-W <i>Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4</i>		<input checked="" type="checkbox"/>	VOCFridge	3
1302239-005A	MW-26_02112013	2/11/2013 1010h	2/15/2013 1000h	300.0-W <i>1 SEL Analytes: CL</i>	Aqueous	<input checked="" type="checkbox"/>	df - wc	1
1302239-005B				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		<input checked="" type="checkbox"/>	df - no2/no3	
1302239-005C				8260-W <i>Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4</i>		<input checked="" type="checkbox"/>	VOCFridge	3
1302239-006A	MW-04_02112013	2/11/2013 1020h	2/15/2013 1000h	300.0-W <i>1 SEL Analytes: CL</i>	Aqueous	<input checked="" type="checkbox"/>	df - wc	1

# WORK ORDER Summary

Work Order: **1302239** Page 2 of 4

Client: Energy Fuels Resources, Inc.

Due Date: 2/26/2013

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1302239-006B	MW-04_02112013	2/11/2013 1020h	2/15/2013 1000h	NO2/NO3-W-353.2	Aqueous	<input checked="" type="checkbox"/>	df - no2/no3	1
1302239-006C				8260-W		<input checked="" type="checkbox"/>	VOCFridge	3
				<i>Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4</i>				
1302239-007A	TW4-04_02112013	2/11/2013 1030h	2/15/2013 1000h	300.0-W	Aqueous	<input checked="" type="checkbox"/>	df - wc	1
1302239-007B				NO2/NO3-W-353.2		<input checked="" type="checkbox"/>	df - no2/no3	
				<i>1 SEL Analytes: NO3NO2N</i>				
1302239-007C				8260-W		<input checked="" type="checkbox"/>	VOCFridge	3
				<i>Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4</i>				
1302239-008A	TW4-19_02112013	2/11/2013 1100h	2/15/2013 1000h	300.0-W	Aqueous	<input checked="" type="checkbox"/>	df - wc	1
1302239-008B				NO2/NO3-W-353.2		<input checked="" type="checkbox"/>	df - no2/no3	
				<i>1 SEL Analytes: NO3NO2N</i>				
1302239-008C				8260-W		<input checked="" type="checkbox"/>	VOCFridge	3
				<i>Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4</i>				
1302239-009A	TW4-20_02112013	2/11/2013 0950h	2/15/2013 1000h	300.0-W	Aqueous	<input checked="" type="checkbox"/>	df - wc	1
1302239-009B				NO2/NO3-W-353.2		<input checked="" type="checkbox"/>	df - no2/no3	
				<i>1 SEL Analytes: NO3NO2N</i>				
1302239-009C				8260-W		<input checked="" type="checkbox"/>	VOCFridge	3
				<i>Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4</i>				
1302239-010A	TW4-05_02132013	2/13/2013 1237h	2/15/2013 1000h	300.0-W	Aqueous	<input checked="" type="checkbox"/>	df - wc	1
1302239-010B				NO2/NO3-W-353.2		<input checked="" type="checkbox"/>	df - no2/no3	
				<i>1 SEL Analytes: NO3NO2N</i>				
1302239-010C				8260-W		<input checked="" type="checkbox"/>	VOCFridge	3
				<i>Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4</i>				
1302239-011A	TW4-06_02132013	2/13/2013 1247h	2/15/2013 1000h	300.0-W	Aqueous	<input checked="" type="checkbox"/>	df - wc	1
1302239-011B				NO2/NO3-W-353.2		<input checked="" type="checkbox"/>	df - no2/no3	
				<i>1 SEL Analytes: NO3NO2N</i>				
1302239-011C				8260-W		<input checked="" type="checkbox"/>	VOCFridge	3
				<i>Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4</i>				
1302239-012A	TW4-18_02132013	2/13/2013 1304h	2/15/2013 1000h	300.0-W	Aqueous	<input checked="" type="checkbox"/>	df - wc	1
1302239-012B				NO2/NO3-W-353.2		<input checked="" type="checkbox"/>	df - no2/no3	
				<i>1 SEL Analytes: NO3NO2N</i>				

# WORK ORDER Summary

Work Order: **1302239** Page 3 of 4

Client: Energy Fuels Resources, Inc.

Due Date: 2/26/2013

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1302239-012C	TW4-18_02132013	2/13/2013 1304h	2/15/2013 1000h	8260-W <i>Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4</i>	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	3
1302239-013A	TW4-10_02132013	2/13/2013 1318h	2/15/2013 1000h	300.0-W <i>1 SEL Analytes: CL</i>	Aqueous	<input checked="" type="checkbox"/>	df - wc	1
1302239-013B				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		<input checked="" type="checkbox"/>	df - no2/no3	
1302239-013C				8260-W <i>Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4</i>		<input checked="" type="checkbox"/>	VOCFridge	3
1302239-014A	TW4-21_02132013	2/13/2013 1331h	2/15/2013 1000h	300.0-W <i>1 SEL Analytes: CL</i>	Aqueous	<input checked="" type="checkbox"/>	df - wc	1
1302239-014B				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		<input checked="" type="checkbox"/>	df - no2/no3	
1302239-014C				8260-W <i>Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4</i>		<input checked="" type="checkbox"/>	VOCFridge	3
1302239-015A	TW4-11_02132013	2/13/2013 1341h	2/15/2013 1000h	300.0-W <i>1 SEL Analytes: CL</i>	Aqueous	<input checked="" type="checkbox"/>	df - wc	1
1302239-015B				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		<input checked="" type="checkbox"/>	df - no2/no3	
1302239-015C				8260-W <i>Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4</i>		<input checked="" type="checkbox"/>	VOCFridge	3
1302239-016A	TW4-07_02132013	2/13/2013 1349h	2/15/2013 1000h	300.0-W <i>1 SEL Analytes: CL</i>	Aqueous	<input checked="" type="checkbox"/>	df - wc	1
1302239-016B				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		<input checked="" type="checkbox"/>	df - no2/no3	
1302239-016C				8260-W <i>Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4</i>		<input checked="" type="checkbox"/>	VOCFridge	3
1302239-017A	TW4-01_02132013	2/13/2013 1355h	2/15/2013 1000h	300.0-W <i>1 SEL Analytes: CL</i>	Aqueous	<input checked="" type="checkbox"/>	df - wc	1
1302239-017B				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		<input checked="" type="checkbox"/>	df - no2/no3	
1302239-017C				8260-W <i>Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4</i>		<input checked="" type="checkbox"/>	VOCFridge	3
1302239-018A	TW4-02_02132013	2/13/2013 1403h	2/15/2013 1000h	300.0-W <i>1 SEL Analytes: CL</i>	Aqueous	<input checked="" type="checkbox"/>	df - wc	1
1302239-018B				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		<input checked="" type="checkbox"/>	df - no2/no3	
1302239-018C				8260-W <i>Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4</i>		<input checked="" type="checkbox"/>	VOCFridge	3

# WORK ORDER Summary

Work Order: **1302239** Page 4 of 4

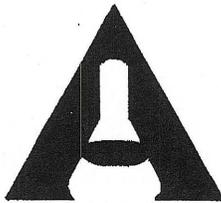
**Client:** Energy Fuels Resources, Inc.

**Due Date:** 2/26/2013

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage			
1302239-019A	TW4-60_02142013	2/14/2013 0805h	2/15/2013 1000h	300.0-W	Aqueous	<input checked="" type="checkbox"/>	df - wc	1		
1302239-019B				NO2/NO3-W-353.2				<input checked="" type="checkbox"/>	df - no2/no3	
1302239-019C				8260-W		<input checked="" type="checkbox"/>	VOCFridge	3		
				<i>Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4</i>						
1302239-020A	TW4-70_02132013	2/13/2013 1304h	2/15/2013 1000h	300.0-W	Aqueous	<input checked="" type="checkbox"/>	df - wc	1		
1302239-020B				NO2/NO3-W-353.2				<input checked="" type="checkbox"/>	df - no2/no3	
1302239-020C				8260-W		<input checked="" type="checkbox"/>	VOCFridge	3		
				<i>Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4</i>						
1302239-021A	Trip Blank	2/11/2013	2/15/2013 1000h	8260-W	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	3		
				<i>Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4</i>						
1302239-022A	TW4-05R_02122013	2/12/2013 0714h	2/15/2013 1000h	300.0-W	Aqueous	<input checked="" type="checkbox"/>	df - wc	1		
1302239-022B				NO2/NO3-W-353.2				<input checked="" type="checkbox"/>	df - no2/no3	
1302239-022C				8260-W		<input checked="" type="checkbox"/>	VOCFridge	3		
				<i>Test Group: 8260-W-Custom; # of Analytes: 4 / # of Surr: 4</i>						



Client \_\_\_\_\_  
 Address \_\_\_\_\_  
 City State Zip \_\_\_\_\_  
 Phone \_\_\_\_\_ Fax \_\_\_\_\_  
 Contact Same as  
 E-mail \_\_\_\_\_  
 Project Name Page 1  
 Project Number/P.O.# \_\_\_\_\_  
 Sampler Name \_\_\_\_\_



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**CHAIN OF CUSTODY**

Lab Sample Set # 1302239  
 Page 2 of 2

Turn Around Time (Circle One)  
 1 day 2 day 3 day 4 day 5 day Standard

Sample ID	Date/Time Collected	Matrix	Number of Containers (Total)	VOCs	Nitrate + Nitrite	Chloride	COMMENTS
TW4-10-02132013	2/13/13 1318	W	5	X	X	X	
TW4-21-02132013	2/13/13 1331	W	5	X	X	X	
TW4-11-02132013	2/13/13 1341	W	5	X	X	X	
TW4-07-02132013	2/13/13 1349	W	5	X	X	X	
TW4-0L-02132013	2/13/13 1355	W	5	X	X	X	
TW4-02-02132013	2/13/13 1403	W	5	X	X	X	
TW4-60-02142013	2/14/13 0805	W	5	X	X	X	
TW4-70-02132013	2/13/13 1304	W	5	X	X	X	
Trip Blank	2/11/13	W	3	X			
Temp Blank	2/14/13						
TW4-05R-02122013	2/12/13 0714	W	5	X	X	X	2/15/13 added per Kathy

Date/Time Collected	Matrix	Number of Containers (Total)	TESTS REQUIRED										QC LEVEL			COMMENTS			
			1	2	2+	3	3+	4	1	2	2+	3	3+	4					
2/13/13 1318	W	5	X	X	X														
2/13/13 1331	W	5	X	X	X														
2/13/13 1341	W	5	X	X	X														
2/13/13 1349	W	5	X	X	X														
2/13/13 1355	W	5	X	X	X														
2/13/13 1403	W	5	X	X	X														
2/14/13 0805	W	5	X	X	X														
2/13/13 1304	W	5	X	X	X														
2/11/13	W	3	X																
2/12/13 0714	W	5	X	X	X														

LABORATORY USE ONLY		
<b>SAMPLES WERE:</b>		
1 Shipped or hand delivered	Notes: FedX	
2 Ambient or (Chilled)	Notes: on ice	
3 Temperature	2.9	
4 Received Broken/Leaking (Improperly Sealed)	Y N	
5 Properly Preserved	Y N	
Checked at Bench	Y N	
6 Received Within Holding Times	Y N	

Relinquished By: Signature <u>Tanner Holliday</u>	Date 2/14/2013	Received By: Signature <u>[Signature]</u>	Date 2/15/13
PRINT NAME Tanner Holliday	Time 1100	PRINT NAME [Name]	Time [Time]
Relinquished By: Signature	Date	Received By: Signature	Date
PRINT NAME	Time	PRINT NAME	Time
Relinquished By: Signature	Date	Received By: Signature	Date
PRINT NAME	Time	PRINT NAME	Time
Relinquished By: Signature	Date	Received By: Signature	Date
PRINT NAME	Time	PRINT NAME	Time

Special Instructions:  
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COC Tape Was:		
1 Present on Outer Package	Y N	NA
2 Unbroken on Outer Package	Y N	NA
3 Present on Sample	Y N	NA
4 Unbroken on Sample	Y N	NA
Discrepancies Between Sample Labels and COC Record?		
Y N		
Notes:		



Tab I

Quality Assurance and Data Validation Tables

I-1: Field QA/QC Evaluation

Location	1x 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	--	--	--	1836		N/A	6.98		N/A	14.02		N/A	309		N/A	2.0		N/A
TW4-01	30.05	72.00	60	72	OK	2056	2059	0.15	6.31	6.31	0.00	14.52	14.51	0.07	460	461	0.22	66	66.7	1.06
TW4-02	35.52	66.00	71	66	Pumped Dry	2824	2801	0.82	7.03	7.00	0.43	13.29	13.25	0.30	364	370	1.63	5.2	11	71.60
TW4-03	59.22	105.00	118	105	Pumped Dry	1561	1565	0.26	7.3	7.05	3.48	13.12	12.13	7.84	309	308	0.32	8	11.2	33.33
TW4-04	NA	Continuously pumped well	--	--	--	2224		N/A	6.82		N/A	14.24		N/A	370		N/A	1.5		N/A
TW4-05	40.77	96.00	82	96	OK	1425	1423	0.14	6.73	6.73	0.00	14.79	14.79	0.00	414	414	0.00	91	93	2.17
TW4-06	18.29	25.00	37	25	Pumped Dry	3862	3817	1.17	6.59	6.5	1.38	14.01	13.98	0.21	373	353	5.51	21	44	70.77
TW4-07	35.79	72.00	72	72	OK	1535	1543	0.52	6.91	6.9	0.14	14.52	14.61	0.62	343	349	1.73	49.5	49.8	0.60
TW4-08	39.16	84.00	78	84	OK	3191	3185	0.19	7.04	7.04	0.00	14.69	14.69	0.00	199	198	0.50	71.0	73	2.78
TW4-09	42.36	96.00	85	96	OK	2237	2241	0.18	6.64	6.64	0.00	14.68	14.68	0.00	302	302	0.00	93	95	2.13
TW4-10	35.75	54.00	72	54	Pumped Dry	2372	2359	0.55	6.73	6.72	0.15	14.01	14.07	0.43	334	344	2.95	7.7	7.8	1.29
TW4-11	28.17	72.00	56	72	OK	1565	1562	0.19	6.71	6.73	0.30	14.05	14.11	0.43	495	497	0.40	7.8	7.9	1.27
TW4-12	39.37	84.00	79	84	OK	1058	1057	0.09	7.24	7.24	0.00	14.53	14.52	0.07	291	291	0.00	8.8	8.7	1.14
TW4-13	36.60	63.00	73	63	Pumped Dry	1577	1593	1.01	7.36	7.29	0.96	10.91	10.95	0.37	325	323	0.62	9.3	13.1	33.93
TW4-14	4.52	6.00	9	6	Pumped Dry	3550	3649	2.75	7.34	7.29	0.68	12.01	12.03	0.17	342	340	0.59	16.4	45.3	93.68
MW-26	NA	Continuously pumped well	--	--	--	3300		N/A	6.79		N/A	13.59		N/A	311		N/A	2.10		N/A
TW4-16	54.36	132.00	109	132	OK	3378	3374	0.12	6.61	6.61	0.00	14.53	14.54	0.07	131	132	0.76	97	99	2.04
MW-32	37.74	78.12	75	78	OK	3740	3741	0.03	6.48	6.47	0.15	14.02	14.02	0.00	295	294	0.34	10.3	10.3	0.00
TW4-18	51.32	120.00	103	120	OK	2005	1981	1.20	6.41	6.41	0.00	15.02	15.02	0.00	441	441	0.00	349	355	1.70
TW4-19	NA	Continuously pumped well	--	--	--	2820		N/A	6.8		N/A	14.14		N/A	340		N/A	60.3		N/A
TW4-20	NA	Continuously pumped well	--	--	--	3584		N/A	6.62		N/A	14.08		N/A	356		N/A	8		N/A
TW4-21	42.32	108.00	85	108	OK	3511	3525	0.40	6.91	6.91	0.00	15.69	15.71	0.13	442	443	0.23	10.5	10.2	2.90
TW4-22	NA	Continuously pumped well	--	--	--	5881		N/A	6.8		N/A	13.59		N/A	412		N/A	1.8		N/A
TW4-23	32.72	84.00	65	84	OK	3570	3556	0.39	6.41	6.41	0.00	14.10	14.10	0.00	267	269	0.75	220	215	2.30
TW4-24	NA	Continuously pumped well	--	--	--	7620		N/A	6.70		N/A	13.78		N/A	416		N/A	4.6		N/A
TW4-25	NA	Continuously pumped well	--	--	--	2798		N/A	6.62		N/A	14.84		N/A	540		N/A	0.8		N/A
TW4-26	15.30	24.00	31	24	Pumped Dry	6064	6079	0.25	4.53	4.61	1.75	10.60	10.73	1.22	426	419	1.66	7.7	13.1	51.92
TW4-27	9.29	9.00	19	9	Pumped Dry	5168	5179	0.21	7.20	7.11	1.26	11.89	11.79	0.84	356	347	2.56	16.3	29.3	57.02

MW-4, TW4-4, MW-26, TW4-19, TW4-20, TW4-22, TW4-24, and TW4-25 are continually pumped wells. TW4-22, TW4-24, and TW4-25 are pumped under the nitrate program.

TW4-02, TW4-03, TW4-06, TW4-10, TW4-13, TW4-14, 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	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
Trip Blank	Carbon tetrachloride	2/6/2013	2/12/2013	6	14	OK
Trip Blank	Chloroform	2/6/2013	2/12/2013	6	14	OK
Trip Blank	Chloromethane	2/6/2013	2/12/2013	6	14	OK
Trip Blank	Methylene chloride	2/6/2013	2/12/2013	6	14	OK
Trip Blank	Carbon tetrachloride	2/11/2013	2/20/2013	9	14	OK
Trip Blank	Chloroform	2/11/2013	2/20/2013	9	14	OK
Trip Blank	Chloromethane	2/11/2013	2/20/2013	9	14	OK
Trip Blank	Methylene chloride	2/11/2013	2/20/2013	9	14	OK
MW-04	Chloride	2/11/2013	2/18/2013	7	28	OK
MW-04	Carbon tetrachloride	2/11/2013	2/18/2013	7	14	OK
MW-04	Chloroform	2/11/2013	2/20/2013	9	14	OK
MW-04	Chloromethane	2/11/2013	2/18/2013	7	14	OK
MW-04	Methylene chloride	2/11/2013	2/18/2013	7	14	OK
MW-04	Nitrate/Nitrite (as N)	2/11/2013	2/15/2013	4	28	OK
MW-26	Chloride	2/11/2013	2/18/2013	7	28	OK
MW-26	Carbon tetrachloride	2/11/2013	2/18/2013	7	14	OK
MW-26	Chloroform	2/11/2013	2/20/2013	9	14	OK
MW-26	Chloromethane	2/11/2013	2/18/2013	7	14	OK
MW-26	Methylene chloride	2/11/2013	2/18/2013	7	14	OK
MW-26	Nitrate/Nitrite (as N)	2/11/2013	2/15/2013	4	28	OK
MW-32	Chloride	2/13/2013	2/18/2013	5	28	OK
MW-32	Carbon tetrachloride	2/13/2013	2/18/2013	5	14	OK
MW-32	Chloroform	2/13/2013	2/18/2013	5	14	OK
MW-32	Chloromethane	2/13/2013	2/18/2013	5	14	OK
MW-32	Methylene chloride	2/13/2013	2/18/2013	5	14	OK
MW-32	Nitrate/Nitrite (as N)	2/13/2013	2/15/2013	2	28	OK
TW4-01	Chloride	2/13/2013	2/19/2013	6	28	OK
TW4-01	Carbon tetrachloride	2/13/2013	2/21/2013	8	14	OK
TW4-01	Chloroform	2/13/2013	2/20/2013	7	14	OK
TW4-01	Chloromethane	2/13/2013	2/21/2013	8	14	OK
TW4-01	Methylene chloride	2/13/2013	2/21/2013	8	14	OK
TW4-01	Nitrate/Nitrite (as N)	2/13/2013	2/15/2013	2	28	OK
TW4-02	Chloride	2/13/2013	2/19/2013	6	28	OK
TW4-02	Carbon tetrachloride	2/13/2013	2/21/2013	8	14	OK
TW4-02	Chloroform	2/13/2013	2/20/2013	7	14	OK
TW4-02	Chloromethane	2/13/2013	2/21/2013	8	14	OK
TW4-02	Methylene chloride	2/13/2013	2/21/2013	8	14	OK
TW4-02	Nitrate/Nitrite (as N)	2/13/2013	2/15/2013	2	28	OK
TW4-03	Chloride	2/7/2013	2/13/2013	6	28	OK
TW4-03	Carbon tetrachloride	2/7/2013	2/8/2013	1	14	OK
TW4-03	Chloroform	2/7/2013	2/8/2013	1	14	OK
TW4-03	Chloromethane	2/7/2013	2/8/2013	1	14	OK
TW4-03	Methylene chloride	2/7/2013	2/8/2013	1	14	OK
TW4-03	Nitrate/Nitrite (as N)	2/7/2013	2/12/2013	5	28	OK
TW4-03R	Chloride	2/6/2013	2/13/2013	7	28	OK

## I-2: Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
TW4-03R	Carbon tetrachloride	2/6/2013	2/8/2013	2	14	OK
TW4-03R	Chloroform	2/6/2013	2/8/2013	2	14	OK
TW4-03R	Chloromethane	2/6/2013	2/8/2013	2	14	OK
TW4-03R	Methylene chloride	2/6/2013	2/8/2013	2	14	OK
TW4-03R	Nitrate/Nitrite (as N)	2/6/2013	2/12/2013	6	28	OK
TW4-04	Chloride	2/11/2013	2/18/2013	7	28	OK
TW4-04	Carbon tetrachloride	2/11/2013	2/18/2013	7	14	OK
TW4-04	Chloroform	2/11/2013	2/20/2013	9	14	OK
TW4-04	Chloromethane	2/11/2013	2/18/2013	7	14	OK
TW4-04	Methylene chloride	2/11/2013	2/18/2013	7	14	OK
TW4-04	Nitrate/Nitrite (as N)	2/11/2013	2/15/2013	4	28	OK
TW4-05	Chloride	2/13/2013	2/19/2013	6	28	OK
TW4-05	Carbon tetrachloride	2/13/2013	2/20/2013	7	14	OK
TW4-05	Chloroform	2/13/2013	2/20/2013	7	14	OK
TW4-05	Chloromethane	2/13/2013	2/20/2013	7	14	OK
TW4-05	Methylene chloride	2/13/2013	2/20/2013	7	14	OK
TW4-05	Nitrate/Nitrite (as N)	2/13/2013	2/15/2013	2	28	OK
TW4-05R	Chloride	2/12/2013	2/19/2013	7	28	OK
TW4-05R	Carbon tetrachloride	2/12/2013	2/20/2013	8	14	OK
TW4-05R	Chloroform	2/12/2013	2/20/2013	8	14	OK
TW4-05R	Chloromethane	2/12/2013	2/20/2013	8	14	OK
TW4-05R	Methylene chloride	2/12/2013	2/20/2013	8	14	OK
TW4-05R	Nitrate/Nitrite (as N)	2/12/2013	2/15/2013	3	28	OK
TW4-06	Chloride	2/13/2013	2/19/2013	6	28	OK
TW4-06	Carbon tetrachloride	2/13/2013	2/18/2013	5	14	OK
TW4-06	Chloroform	2/13/2013	2/18/2013	5	14	OK
TW4-06	Chloromethane	2/13/2013	2/18/2013	5	14	OK
TW4-06	Methylene chloride	2/13/2013	2/18/2013	5	14	OK
TW4-06	Nitrate/Nitrite (as N)	2/13/2013	2/15/2013	2	28	OK
TW4-07	Chloride	2/13/2013	2/19/2013	6	28	OK
TW4-07	Carbon tetrachloride	2/13/2013	2/21/2013	8	14	OK
TW4-07	Chloroform	2/13/2013	2/20/2013	7	14	OK
TW4-07	Chloromethane	2/13/2013	2/21/2013	8	14	OK
TW4-07	Methylene chloride	2/13/2013	2/21/2013	8	14	OK
TW4-07	Nitrate/Nitrite (as N)	2/13/2013	2/15/2013	2	28	OK
TW4-08	Chloride	2/7/2013	2/13/2013	6	28	OK
TW4-08	Carbon tetrachloride	2/7/2013	2/8/2013	1	14	OK
TW4-08	Chloroform	2/7/2013	2/8/2013	1	14	OK
TW4-08	Chloromethane	2/7/2013	2/8/2013	1	14	OK
TW4-08	Methylene chloride	2/7/2013	2/8/2013	1	14	OK
TW4-08	Nitrate/Nitrite (as N)	2/7/2013	2/12/2013	5	28	OK
TW4-09	Chloride	2/7/2013	2/13/2013	6	28	OK
TW4-09	Carbon tetrachloride	2/7/2013	2/8/2013	1	14	OK
TW4-09	Chloroform	2/7/2013	2/8/2013	1	14	OK
TW4-09	Chloromethane	2/7/2013	2/8/2013	1	14	OK

## I-2: Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
TW4-09	Methylene chloride	2/7/2013	2/8/2013	1	14	OK
TW4-09	Nitrate/Nitrite (as N)	2/7/2013	2/12/2013	5	28	OK
TW4-10	Chloride	2/13/2013	2/19/2013	6	28	OK
TW4-10	Carbon tetrachloride	2/13/2013	2/18/2013	5	14	OK
TW4-10	Chloroform	2/13/2013	2/18/2013	5	14	OK
TW4-10	Chloromethane	2/13/2013	2/18/2013	5	14	OK
TW4-10	Methylene chloride	2/13/2013	2/18/2013	5	14	OK
TW4-10	Nitrate/Nitrite (as N)	2/13/2013	2/15/2013	2	28	OK
TW4-11	Chloride	2/13/2013	2/19/2013	6	28	OK
TW4-11	Carbon tetrachloride	2/13/2013	2/20/2013	7	14	OK
TW4-11	Chloroform	2/13/2013	2/20/2013	7	14	OK
TW4-11	Chloromethane	2/13/2013	2/20/2013	7	14	OK
TW4-11	Methylene chloride	2/13/2013	2/20/2013	7	14	OK
TW4-11	Nitrate/Nitrite (as N)	2/13/2013	2/15/2013	2	28	OK
TW4-12	Chloride	2/7/2013	2/13/2013	6	28	OK
TW4-12	Carbon tetrachloride	2/7/2013	2/8/2013	1	14	OK
TW4-12	Chloroform	2/7/2013	2/8/2013	1	14	OK
TW4-12	Chloromethane	2/7/2013	2/8/2013	1	14	OK
TW4-12	Methylene chloride	2/7/2013	2/8/2013	1	14	OK
TW4-12	Nitrate/Nitrite (as N)	2/7/2013	2/12/2013	5	28	OK
TW4-13	Chloride	2/7/2013	2/13/2013	6	28	OK
TW4-13	Carbon tetrachloride	2/7/2013	2/8/2013	1	14	OK
TW4-13	Chloroform	2/7/2013	2/8/2013	1	14	OK
TW4-13	Chloromethane	2/7/2013	2/8/2013	1	14	OK
TW4-13	Methylene chloride	2/7/2013	2/8/2013	1	14	OK
TW4-13	Nitrate/Nitrite (as N)	2/7/2013	2/12/2013	5	28	OK
TW4-14	Chloride	2/7/2013	2/13/2013	6	28	OK
TW4-14	Carbon tetrachloride	2/7/2013	2/8/2013	1	14	OK
TW4-14	Chloroform	2/7/2013	2/8/2013	1	14	OK
TW4-14	Chloromethane	2/7/2013	2/8/2013	1	14	OK
TW4-14	Methylene chloride	2/7/2013	2/8/2013	1	14	OK
TW4-14	Nitrate/Nitrite (as N)	2/7/2013	2/12/2013	5	28	OK
TW4-16	Chloride	2/7/2013	2/13/2013	6	28	OK
TW4-16	Carbon tetrachloride	2/7/2013	2/8/2013	1	14	OK
TW4-16	Chloroform	2/7/2013	2/8/2013	1	14	OK
TW4-16	Chloromethane	2/7/2013	2/8/2013	1	14	OK
TW4-16	Methylene chloride	2/7/2013	2/8/2013	1	14	OK
TW4-16	Nitrate/Nitrite (as N)	2/7/2013	2/12/2013	5	28	OK
TW4-18	Chloride	2/13/2013	2/19/2013	6	28	OK
TW4-18	Carbon tetrachloride	2/13/2013	2/18/2013	5	14	OK
TW4-18	Chloroform	2/13/2013	2/18/2013	5	14	OK
TW4-18	Chloromethane	2/13/2013	2/18/2013	5	14	OK
TW4-18	Methylene chloride	2/13/2013	2/18/2013	5	14	OK
TW4-18	Nitrate/Nitrite (as N)	2/13/2013	2/15/2013	2	28	OK
TW4-19	Chloride	2/11/2013	2/19/2013	8	28	OK

## I-2: Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
TW4-19	Carbon tetrachloride	2/11/2013	2/18/2013	7	14	OK
TW4-19	Chloroform	2/11/2013	2/21/2013	10	14	OK
TW4-19	Chloromethane	2/11/2013	2/18/2013	7	14	OK
TW4-19	Methylene chloride	2/11/2013	2/18/2013	7	14	OK
TW4-19	Nitrate/Nitrite (as N)	2/11/2013	2/15/2013	4	28	OK
TW4-20	Chloride	2/11/2013	2/19/2013	8	28	OK
TW4-20	Carbon tetrachloride	2/11/2013	2/18/2013	7	14	OK
TW4-20	Chloroform	2/11/2013	2/20/2013	9	14	OK
TW4-20	Chloromethane	2/11/2013	2/18/2013	7	14	OK
TW4-20	Methylene chloride	2/11/2013	2/18/2013	7	14	OK
TW4-20	Nitrate/Nitrite (as N)	2/11/2013	2/15/2013	4	28	OK
TW4-21	Chloride	2/13/2013	2/19/2013	6	28	OK
TW4-21	Carbon tetrachloride	2/13/2013	2/20/2013	7	14	OK
TW4-21	Chloroform	2/13/2013	2/20/2013	7	14	OK
TW4-21	Chloromethane	2/13/2013	2/20/2013	7	14	OK
TW4-21	Methylene chloride	2/13/2013	2/20/2013	7	14	OK
TW4-21	Nitrate/Nitrite (as N)	2/13/2013	2/15/2013	2	28	OK
TW4-22	Chloride	2/11/2013	2/19/2013	8	28	OK
TW4-22	Carbon tetrachloride	2/11/2013	2/18/2013	7	14	OK
TW4-22	Chloroform	2/11/2013	2/20/2013	9	14	OK
TW4-22	Chloromethane	2/11/2013	2/18/2013	7	14	OK
TW4-22	Methylene chloride	2/11/2013	2/25/2013	14	14	OK
TW4-22	Nitrate/Nitrite (as N)	2/11/2013	2/15/2013	4	28	OK
TW4-23	Chloride	2/7/2013	2/13/2013	6	28	OK
TW4-23	Carbon tetrachloride	2/7/2013	2/8/2013	1	14	OK
TW4-23	Chloroform	2/7/2013	2/8/2013	1	14	OK
TW4-23	Chloromethane	2/7/2013	2/8/2013	1	14	OK
TW4-23	Methylene chloride	2/7/2013	2/8/2013	1	14	OK
TW4-23	Nitrate/Nitrite (as N)	2/7/2013	2/12/2013	5	28	OK
TW4-24	Chloride	2/11/2013	2/18/2013	7	28	OK
TW4-24	Carbon tetrachloride	2/11/2013	2/18/2013	7	14	OK
TW4-24	Chloroform	2/11/2013	2/18/2013	7	14	OK
TW4-24	Chloromethane	2/11/2013	2/18/2013	7	14	OK
TW4-24	Methylene chloride	2/11/2013	2/18/2013	7	14	OK
TW4-24	Nitrate/Nitrite (as N)	2/11/2013	2/15/2013	4	28	OK
TW4-25	Chloride	2/11/2013	2/18/2013	7	28	OK
TW4-25	Carbon tetrachloride	2/11/2013	2/18/2013	7	14	OK
TW4-25	Chloroform	2/11/2013	2/18/2013	7	14	OK
TW4-25	Chloromethane	2/11/2013	2/18/2013	7	14	OK
TW4-25	Methylene chloride	2/11/2013	2/18/2013	7	14	OK
TW4-25	Nitrate/Nitrite (as N)	2/11/2013	2/15/2013	4	28	OK
TW4-26	Chloride	2/7/2013	2/13/2013	6	28	OK
TW4-26	Carbon tetrachloride	2/7/2013	2/8/2013	1	14	OK
TW4-26	Chloroform	2/7/2013	2/8/2013	1	14	OK
TW4-26	Chloromethane	2/7/2013	2/8/2013	1	14	OK

## I-2: Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
TW4-26	Methylene chloride	2/7/2013	2/8/2013	1	14	OK
TW4-26	Nitrate/Nitrite (as N)	2/7/2013	2/12/2013	5	28	OK
TW4-27	Chloride	2/7/2013	2/13/2013	6	28	OK
TW4-27	Carbon tetrachloride	2/7/2013	2/8/2013	1	14	OK
TW4-27	Chloroform	2/7/2013	2/8/2013	1	14	OK
TW4-27	Chloromethane	2/7/2013	2/8/2013	1	14	OK
TW4-27	Methylene chloride	2/7/2013	2/8/2013	1	14	OK
TW4-27	Nitrate/Nitrite (as N)	2/7/2013	2/12/2013	5	28	OK
TW4-60	Chloride	2/14/2013	2/19/2013	5	28	OK
TW4-60	Carbon tetrachloride	2/14/2013	2/20/2013	6	14	OK
TW4-60	Chloroform	2/14/2013	2/20/2013	6	14	OK
TW4-60	Chloromethane	2/14/2013	2/20/2013	6	14	OK
TW4-60	Methylene chloride	2/14/2013	2/20/2013	6	14	OK
TW4-60	Nitrate/Nitrite (as N)	2/14/2013	2/15/2013	1	28	OK
TW4-65	Chloride	2/7/2013	2/13/2013	6	28	OK
TW4-65	Carbon tetrachloride	2/7/2013	2/12/2013	5	14	OK
TW4-65	Chloroform	2/7/2013	2/12/2013	5	14	OK
TW4-65	Chloromethane	2/7/2013	2/12/2013	5	14	OK
TW4-65	Methylene chloride	2/7/2013	2/12/2013	5	14	OK
TW4-65	Nitrate/Nitrite (as N)	2/7/2013	2/12/2013	5	28	OK
TW4-70	Chloride	2/13/2013	2/19/2013	6	28	OK
TW4-70	Carbon tetrachloride	2/13/2013	2/21/2013	8	14	OK
TW4-70	Chloroform	2/13/2013	2/21/2013	8	14	OK
TW4-70	Chloromethane	2/13/2013	2/21/2013	8	14	OK
TW4-70	Methylene chloride	2/13/2013	2/21/2013	8	14	OK
TW4-70	Nitrate/Nitrite (as N)	2/13/2013	2/15/2013	2	28	OK

Table I-3 Receipt Temperature Check

Sample Batch	Wells in Batch	Temperature
1302137	TW4-03, TW4-03R, TW4-08, TW4-09, TW4-12, TW4-13, TW4-14, TW4-16, TW4-23, TW4-26, TW4-27, TW4-65, Trip Blank	0.4 °C
1302239	TW4-01, TW4-02, TW4-04, TW4-05, TW4-05R, TW4-06, TW4-07, TW4-10, TW4-11, MW-26, MW-32, TW4-18, TW4-19, TW4-20, TW4-21, TW4-22, TW4-24, TW4-25, TW4-60, TW4-70, Trip Blank	2.9 °C

I-4 Analytical Method Check

<b>Parameter</b>	<b>Method</b>	<b>Method Used by Lab</b>
Carbon Tetrachloride	SW8260B or SW8260C	SW8260C
Chloride	A4500-Cl B or A4500-Cl E or E300.0	E300.0
Chloroform	SW8260B or SW8260C	SW8260C
Chloromethane	SW8260B or SW8260C	SW8260C
Methylene chloride	SW8260B or SW8260C	SW8260C
Nitrogen	E353.1 or E353.2	E353.2

All parameters were analyzed using the reporting method specified 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	10	mg/L		1	mg/L	OK
MW-04	Carbon tetrachloride	1	ug/L		1	ug/L	OK
MW-04	Chloroform	10	ug/L		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)	1	ug/L		0.1	ug/L	OK
MW-26	Chloride	10	mg/L		1	mg/L	OK
MW-26	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK
MW-26	Chloroform	20	ug/L		1	ug/L	OK
MW-26	Chloromethane	1	ug/L	U	1	ug/L	OK
MW-26	Methylene chloride	1	ug/L		1	ug/L	OK
MW-26	Nitrate/Nitrite (as N)	1	ug/L		0.1	ug/L	OK
MW-32	Chloride	10	mg/L		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
TW4-01	Chloride	10	mg/L		1	mg/L	OK
TW4-01	Carbon tetrachloride	1	ug/L		1	ug/L	OK
TW4-01	Chloroform	20	ug/L		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)	1	ug/L		0.1	ug/L	OK
TW4-02	Chloride	10	mg/L		1	mg/L	OK
TW4-02	Carbon tetrachloride	1	ug/L		1	ug/L	OK
TW4-02	Chloroform	50	ug/L		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)	1	ug/L		0.1	ug/L	OK
TW4-03	Chloride	10	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)	1	ug/L		0.1	ug/L	OK
TW4-03R	Chloride	1	mg/L	U	1	mg/L	OK

## I-5 Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Required Reporting Limit	Units	RL Check
TW4-03R	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK
TW4-03R	Chloroform	1	ug/L	U	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	10	mg/L		1	mg/L	OK
TW4-04	Carbon tetrachloride	1	ug/L		1	ug/L	OK
TW4-04	Chloroform	10	ug/L		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		0.1	ug/L	OK
TW4-05	Chloride	10	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)	1	ug/L		0.1	ug/L	OK
TW4-05R	Chloride	1	mg/L	U	1	mg/L	OK
TW4-05R	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK
TW4-05R	Chloroform	1	ug/L	U	1	ug/L	OK
TW4-05R	Chloromethane	1	ug/L	U	1	ug/L	OK
TW4-05R	Methylene chloride	1	ug/L	U	1	ug/L	OK
TW4-05R	Nitrate/Nitrite (as N)	0.1	ug/L	U	0.1	ug/L	OK
TW4-06	Chloride	10	mg/L		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
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	10	mg/L		1	mg/L	OK
TW4-07	Carbon tetrachloride	1	ug/L		1	ug/L	OK
TW4-07	Chloroform	20	ug/L		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)	1	ug/L		0.1	ug/L	OK
TW4-08	Chloride	10	mg/L		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		0.1	ug/L	OK
TW4-09	Chloride	10	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

## I-5 Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Required Reporting Limit	Units	RL Check
TW4-09	Methylene chloride	1	ug/L	U	1	ug/L	OK
TW4-09	Nitrate/Nitrite (as N)	1	ug/L		0.1	ug/L	OK
TW4-10	Chloride	10	mg/L		1	mg/L	OK
TW4-10	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK
TW4-10	Chloroform	1	ug/L		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	10	mg/L		1	mg/L	OK
TW4-11	Carbon tetrachloride	1	ug/L		1	ug/L	OK
TW4-11	Chloroform	20	ug/L		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		0.1	ug/L	OK
TW4-12	Chloride	10	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		0.1	ug/L	OK
TW4-13	Chloride	10	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)	1	ug/L		0.1	ug/L	OK
TW4-14	Chloride	10	mg/L		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)	1	ug/L		0.1	ug/L	OK
TW4-16	Chloride	10	mg/L		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	U	1	ug/L	OK
TW4-16	Nitrate/Nitrite (as N)	0.1	ug/L	U	0.1	ug/L	OK
TW4-18	Chloride	10	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		0.1	ug/L	OK
TW4-19	Chloride	100	mg/L		1	mg/L	OK

## I-5 Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Required Reporting Limit	Units	RL Check
TW4-19	Carbon tetrachloride	1	ug/L		1	ug/L	OK
TW4-19	Chloroform	50	ug/L		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)	1	ug/L		0.1	ug/L	OK
TW4-20	Chloride	100	mg/L		1	mg/L	OK
TW4-20	Carbon tetrachloride	1	ug/L		1	ug/L	OK
TW4-20	Chloroform	500	ug/L		1	ug/L	OK
TW4-20	Chloromethane	1	ug/L	U	1	ug/L	OK
TW4-20	Methylene chloride	1	ug/L		1	ug/L	OK
TW4-20	Nitrate/Nitrite (as N)	1	ug/L		0.1	ug/L	OK
TW4-21	Chloride	100	mg/L		1	mg/L	OK
TW4-21	Carbon tetrachloride	1	ug/L		1	ug/L	OK
TW4-21	Chloroform	10	ug/L		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		0.1	ug/L	OK
TW4-22	Chloride	100	mg/L		1	mg/L	OK
TW4-22	Carbon tetrachloride	1	ug/L		1	ug/L	OK
TW4-22	Chloroform	50	ug/L		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)	10	ug/L		0.1	ug/L	OK
TW4-23	Chloride	10	mg/L		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
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	100	mg/L		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)	10	ug/L		0.1	ug/L	OK
TW4-25	Chloride	100	mg/L		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		0.1	ug/L	OK
TW4-26	Chloride	10	mg/L		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

## I-5 Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Required Reporting Limit	Units	RL Check
TW4-26	Methylene chloride	1	ug/L	U	1	ug/L	OK
TW4-26	Nitrate/Nitrite (as N)	1	ug/L		0.1	ug/L	OK
TW4-27	Chloride	10	mg/L		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)	10	ug/L		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	U	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	10	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)	0.1	ug/L	U	0.1	ug/L	OK
TW4-70	Chloride	10	mg/L		1	mg/L	OK
TW4-70	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK
TW4-70	Chloroform	1	ug/L		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		0.1	ug/L	Error

I-7 QA/QC Evaluation for Sample Duplicates

Constituent	TW4-16	TW4-65	%RPD
Chloride (mg/L)	58.1	61.2	5
Nitrate + Nitrite (as N)	ND	ND	NC
Carbon Tetrachloride	ND	ND	NC
Chloroform	ND	ND	NC
Chloromethane	ND	ND	NC
Dichloromethane (Methylene Chloride)	ND	ND	NC

Constituent	TW4-18	TW4-70	%RPD
Chloride (mg/L)	23.1	24.6	6.29
Nitrate + Nitrite (as N)	5.58	5.60	0.36
Carbon Tetrachloride	ND	ND	NC
Chloroform	34.9	38.6	10.07
Chloromethane	ND	ND	NC
Dichloromethane (Methylene Chloride)	ND	ND	NC

I-8 QC Control Limits for Analysis and Blanks

**Method Blank Detections**

All Method Blanks for the first quarter of 2013 were non-detect.

**Matrix Spike % Recovery Comparison**

Lab Report	Lab Sample ID	Well	Analyte	MS %REC	MSD %REC	REC Range	RPD
1302137	1302137-006BMS	TW4-23	Nitrate	93.5	88.7	90 - 110	4.9
1302239	1302239-008CMS	TW4-19	Chloroform	73.9	43.3	50 - 146	6.4

**Laboratory Control Sample**

All Laboratory Control Samples were within acceptance limits for the first quarter 2013.

**Surrogate % Recovery**

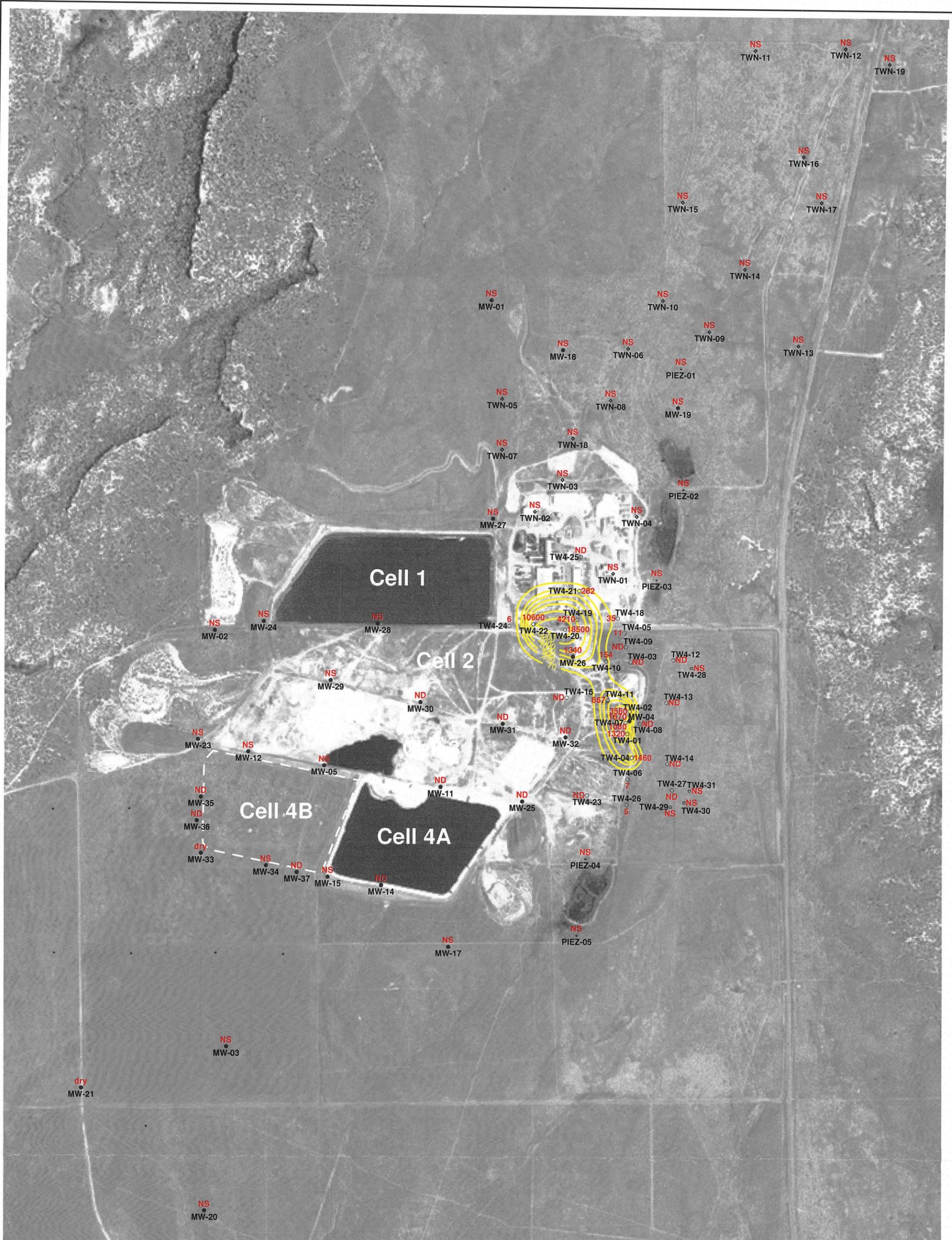
All Laboratory Control Samples were within acceptance limits for the first quarter 2013.

## I-9 Rinsate Evaluation

All rinsate samples for the first quarter of 2013 were non-detect.

Tab J

Kriged Current Quarter Chloroform Isoconcentration Map



**EXPLANATION**

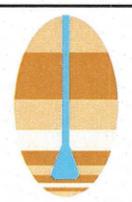
NS = not sampled; ND = not detected

-  70 chloroform isocon and label
-  MW-4 perched monitoring well showing concentration in ug/L
-  TW4-1 temporary perched monitoring well showing concentration in ug/L
-  TWN-1 temporary perched nitrate monitoring well (not sampled)
-  PIEZ-1 perched piezometer (not sampled)
-  TW4-28 temporary perched monitoring well installed March, 2013 (not sampled)



1 mile

NOTE: MW-4, MW-26, TW4-4, TW4-19, and TW4-20 are chloroform pumping wells; TW4-22, TW4-24, TW4-25, and TWN-2 are nitrate pumping wells



**HYDRO  
GEO  
CHEM, INC.**

**KRIGED 1st QUARTER, 2013 CHLOROFORM (ug/L)  
WHITE MESA SITE**

APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/may13/Uchl0313.srf	J-1

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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
11-Feb-13	1670	1.49	ND	ND	4.78	37.8

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
13-Feb-13	1320	3.66	ND	ND	6.99	37.6

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
4-Oct-12	3580	5.17	ND	ND	8.1	46

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
7-Feb-13	ND	ND	ND	ND	5.05	23.7

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
11-Feb-13	1460	1.12	ND	ND	7.36	39

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
13-Feb-13	10.8	ND	ND	ND	8.24	34.3

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

<b>TW4-6</b>	<b>Chloroform (ug/l)</b>	<b>Carbon Tetrachloride (ug/l)</b>	<b>Chloromethane (ug/l)</b>	<b>Methylene Chloride (ug/l)</b>	<b>Nitrate (mg/l)</b>	<b>Chloride (mg/l)</b>
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
13-Feb-13	6.9	ND	ND	ND	0.154	40.4

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
13-Feb-13	1080	3.51	ND	ND	3.9	37.7

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
7-Feb-13	ND	ND	ND	ND	0.411	46.6

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
7-Feb-13	ND	ND	ND	ND	4.12	20.6

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

<b>TW4-10</b>	<b>Chloroform (ug/l)</b>	<b>Carbon Tetrachloride (ug/l)</b>	<b>Chloromethane (ug/l)</b>	<b>Methylene Chloride (ug/l)</b>	<b>Nitrate (mg/l)</b>	<b>Chloride (mg/l)</b>
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
13-Feb-13	154	ND	ND	ND	1.2	49.1

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

<b>TW4-11</b>	<b>Chloroform (ug/l)</b>	<b>Carbon Tetrachloride (ug/l)</b>	<b>Chloromethane (ug/l)</b>	<b>Methylene Chloride (ug/l)</b>	<b>Nitrate (mg/l)</b>	<b>Chloride (mg/l)</b>
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
13-Feb-13	867	3.23	ND	ND	6.83	47.3

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

<b>TW4-12</b>	<b>Chloroform (ug/l)</b>	<b>Carbon Tetrachloride (ug/l)</b>	<b>Chloromethane (ug/l)</b>	<b>Methylene Chloride (ug/l)</b>	<b>Nitrate (mg/l)</b>	<b>Chloride (mg/l)</b>
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
7-Feb-13	ND	ND	ND	ND	12.6	36.7

TW4-13	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloroethane (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

7-Feb-13	ND	ND	ND	ND	6.31	59.3
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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
7-Feb-13	ND	ND	ND	ND	4.63	35.2

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
11-Feb-13	2120	ND	ND	9.34	2.27	81.9

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

<b>TW4-16</b>	<b>Chloroform (ug/l)</b>	<b>Carbon Tetrachloride (ug/l)</b>	<b>Chloromethane (ug/l)</b>	<b>Methylene Chloride (ug/l)</b>	<b>Nitrate (mg/l)</b>	<b>Chloride (mg/l)</b>
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
7-Feb-13	ND	ND	ND	3	ND	58.1

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
13-Feb-13	ND	ND	ND	ND	ND	34.3

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

<b>TW4-18</b>	<b>Chloroform (ug/l)</b>	<b>Carbon Tetrachloride (ug/l)</b>	<b>Chloromethane (ug/l)</b>	<b>Methylene Chloride (ug/l)</b>	<b>Nitrate (mg/l)</b>	<b>Chloride (mg/l)</b>
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
13-Feb-13	34.9	ND	ND	ND	5.58	23.1

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

<b>TW4-19</b>	<b>Chloroform (ug/l)</b>	<b>Carbon Tetrachloride (ug/l)</b>	<b>Chloromethane (ug/l)</b>	<b>Methylene Chloride (ug/l)</b>	<b>Nitrate (mg/l)</b>	<b>Chloride (mg/l)</b>
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
11-Feb-13	4210	5.15	ND	ND	7.99	164

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
11-Feb-13	18500	19.6	ND	1.21	9.07	252

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
13-Jan-13	282	5.25	ND	ND	11.8	221

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
11-Feb-13	10600	3.24	ND	ND	58	635

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
7-Feb-13	ND	ND	ND	ND	ND	43.6

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
11-Feb-13	5.7	ND	ND	ND	35.9	1260

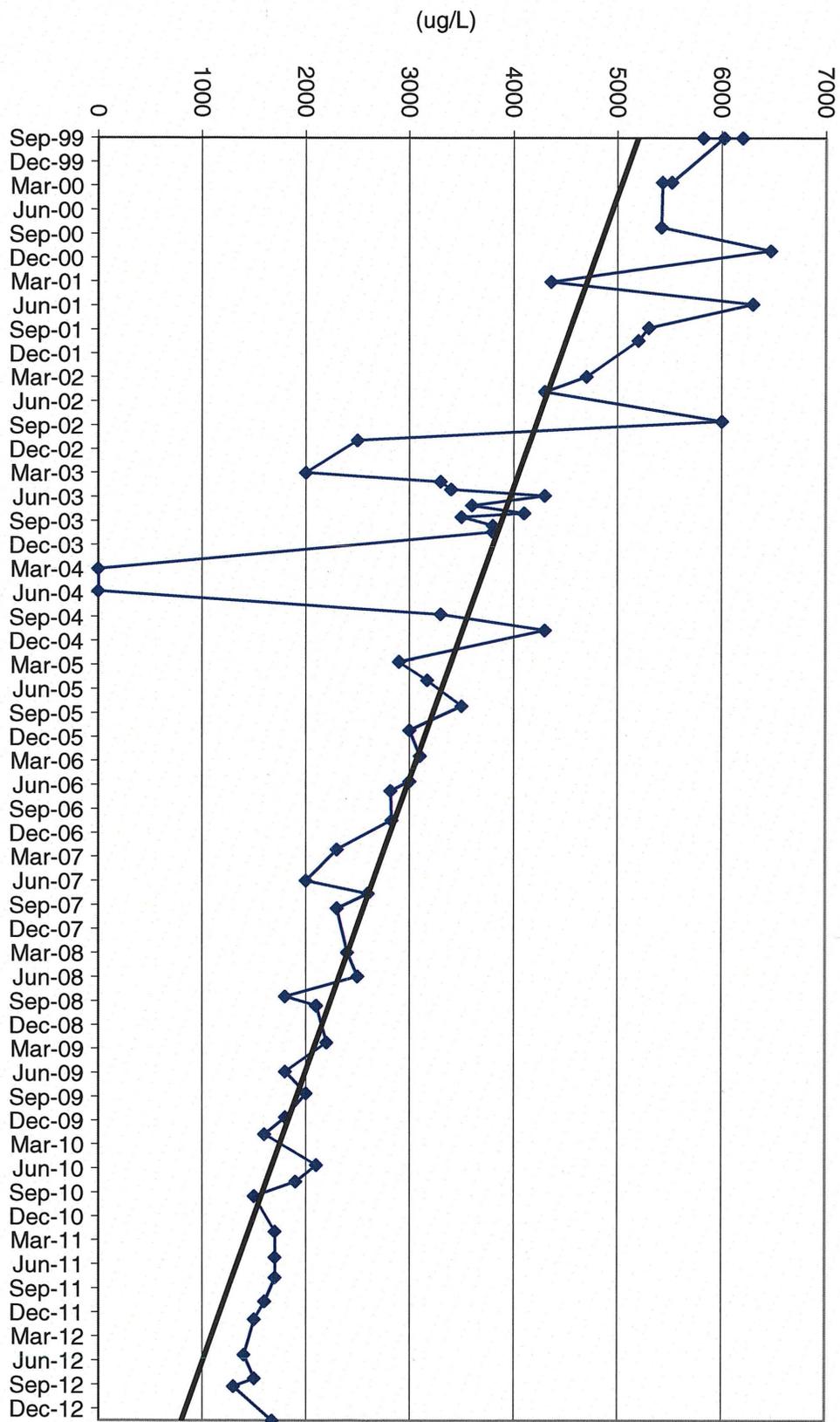
TW4-25	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
27-Jun-07	<1	<1	<1	<1	17.1	395
15-Aug-07	<1	<1	<1	<1	16.7	382
10-Oct-07	<1	<1	<1	<1	17	356
26-Mar-08	<1	<1	<1	<1	18.7	374
25-Jun-08	<1	<1	<1	<1	22.1	344
10-Sep-08	<1	<1	<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
11-Feb-13	ND	ND	ND	ND	9.04	190

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
7-Feb-13	5.0	ND	ND	ND	12.5	16.6

<b>TW4-27</b>	<b>Chloroform (ug/l)</b>	<b>Carbon Tetrachloride (ug/l)</b>	<b>Chloromethane (ug/l)</b>	<b>Methylene Chloride (ug/l)</b>	<b>Nitrate (mg/l)</b>	<b>Chloride (mg/l)</b>
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
7-Feb-13	ND	ND	ND	ND	31.2	18.8

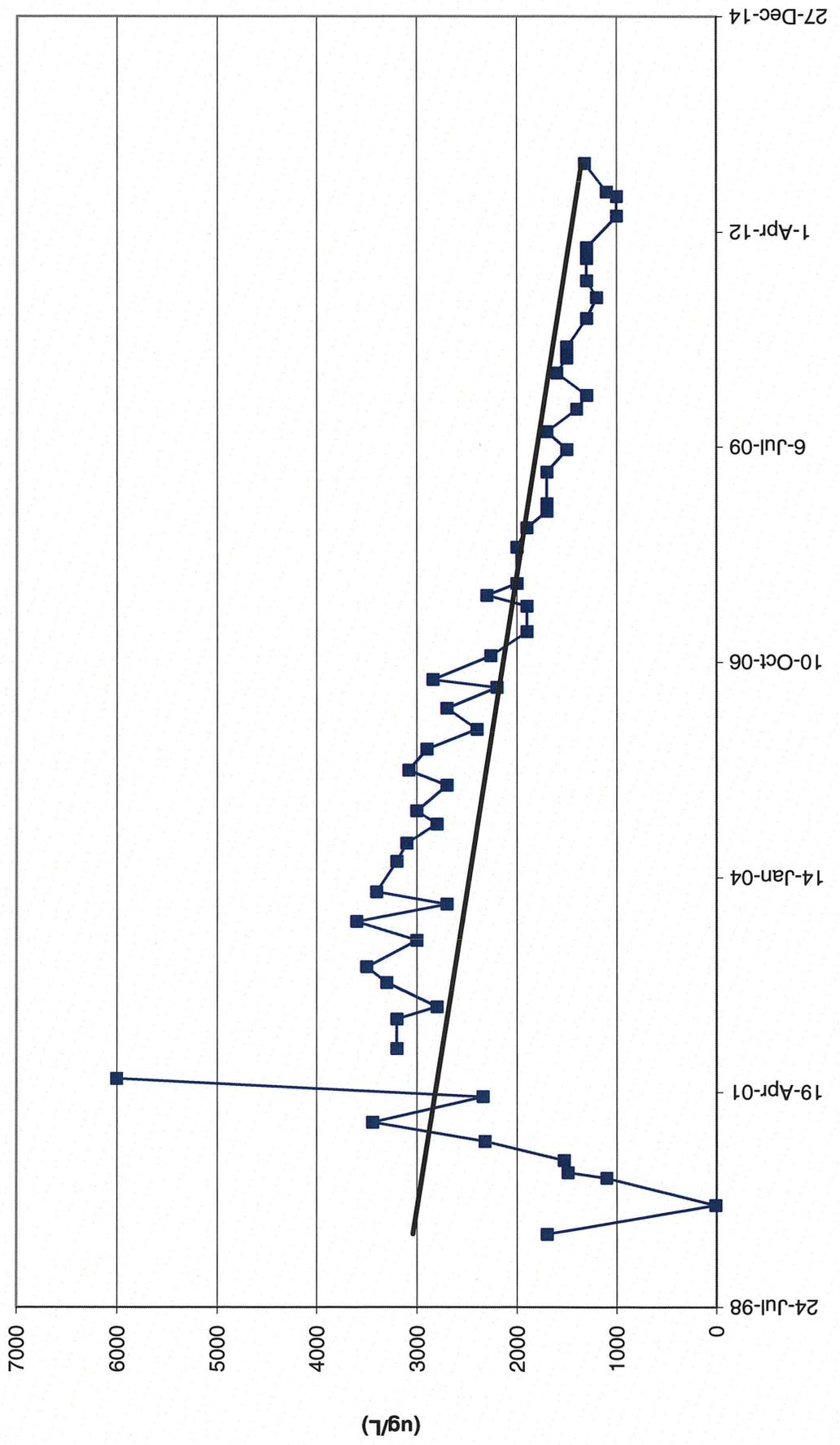
Tab L

Chloroform Concentration Trend Graphs

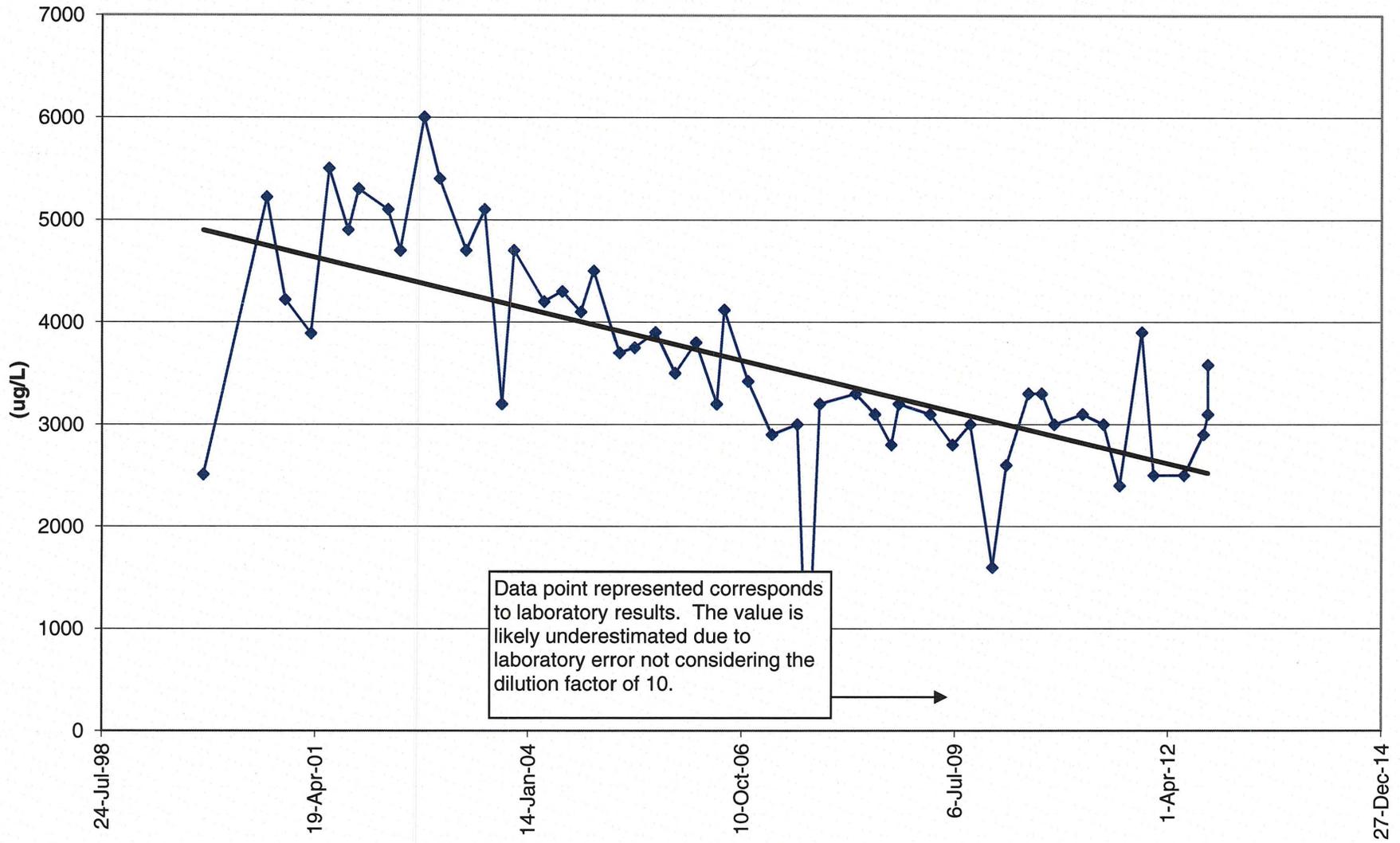


MW4-Chloroform Values

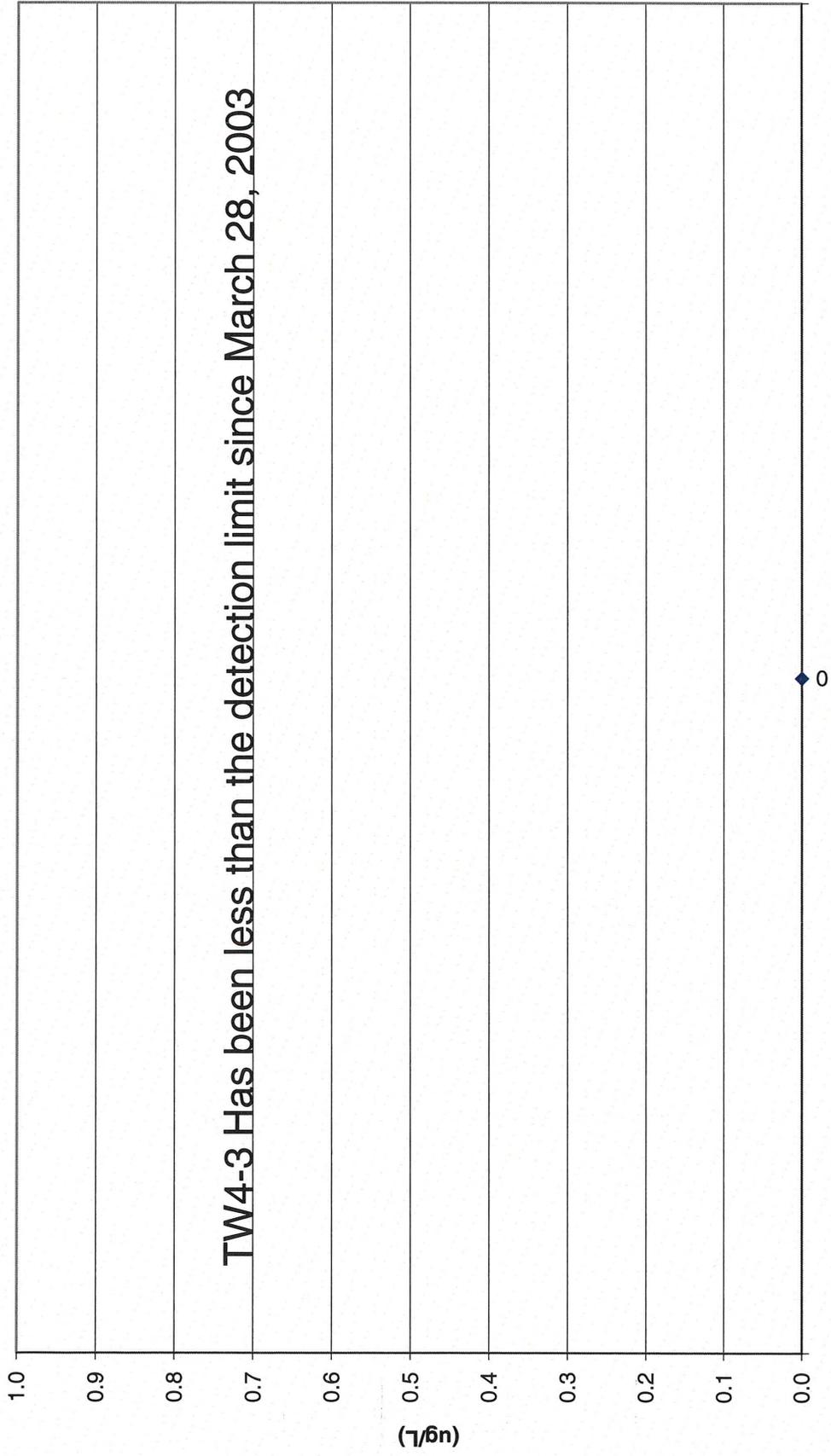
# TW4-1 Chloroform Values



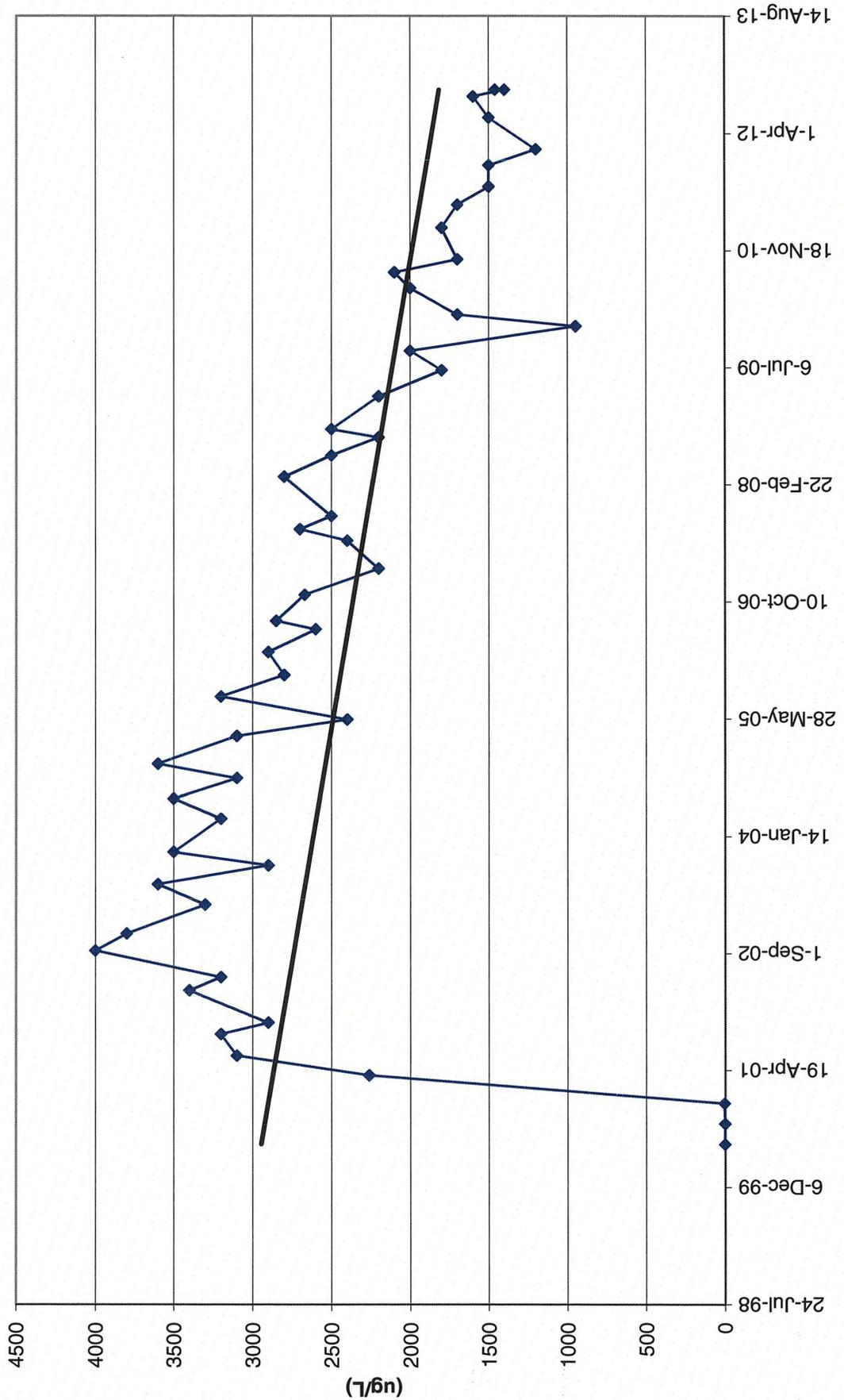
### TW4-2 Chloroform Values



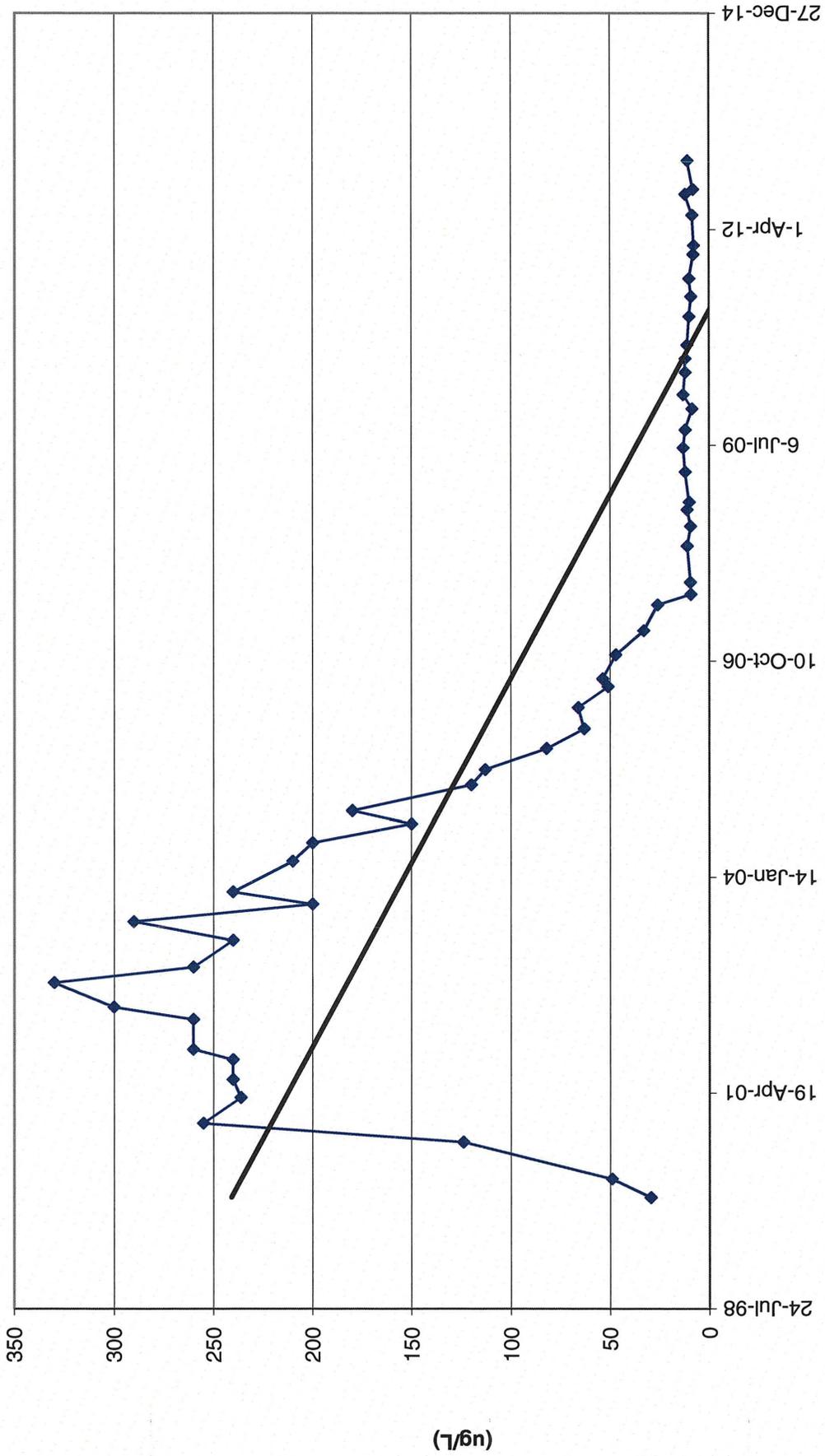
**TW-4-3 Chloroform Values**



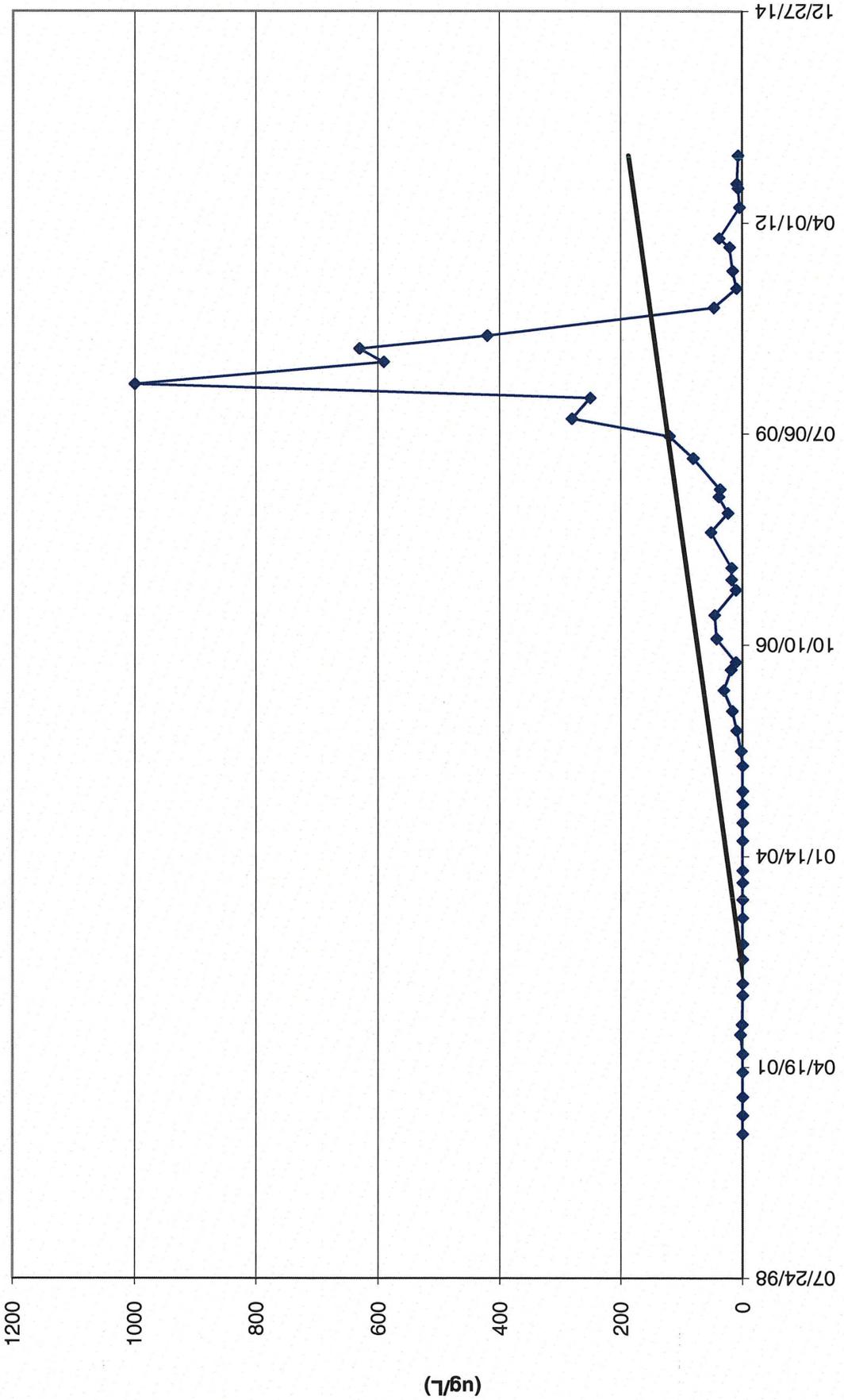
# TW4-4 Chloroform Values



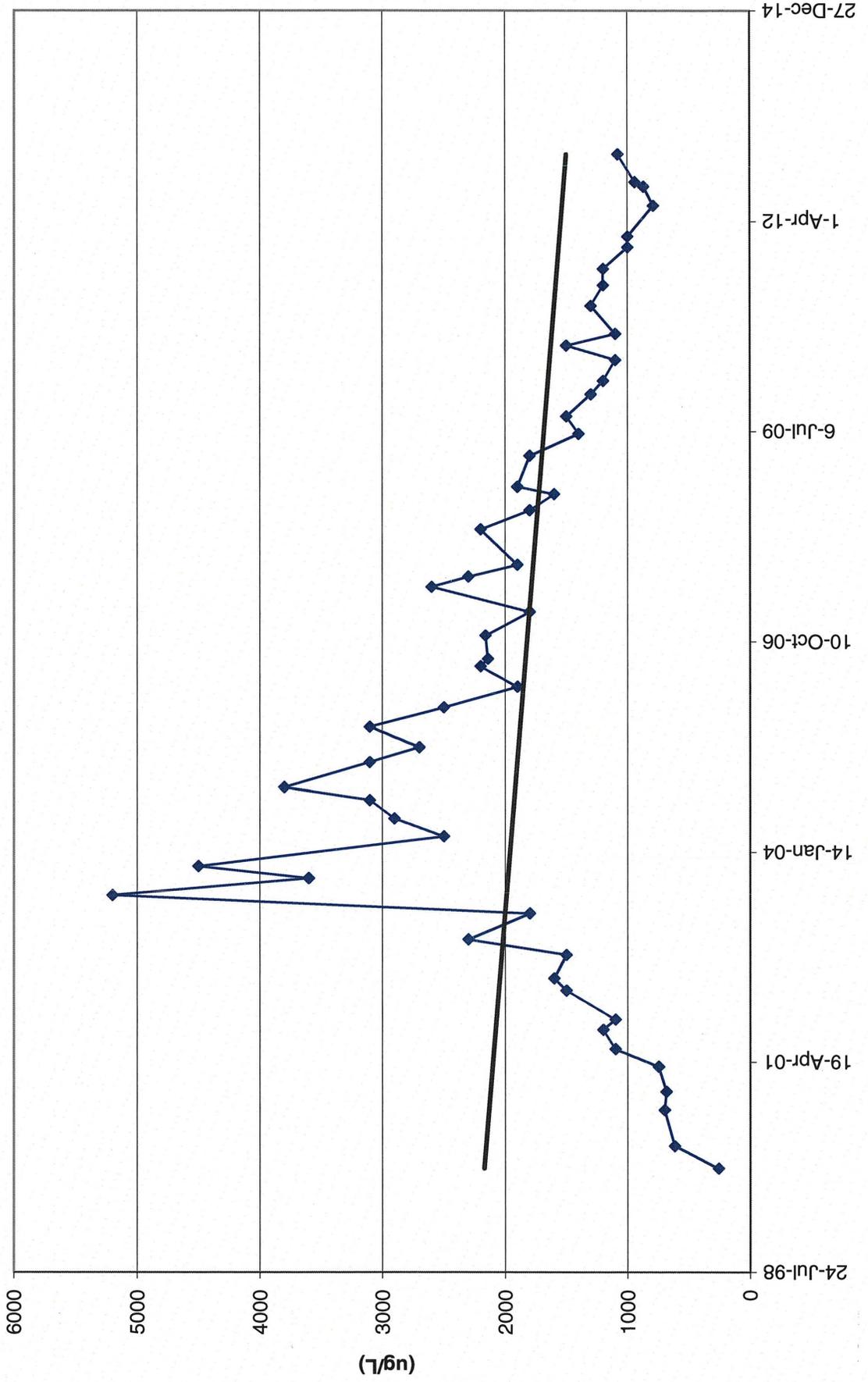
# TW4-5 Chloroform Values



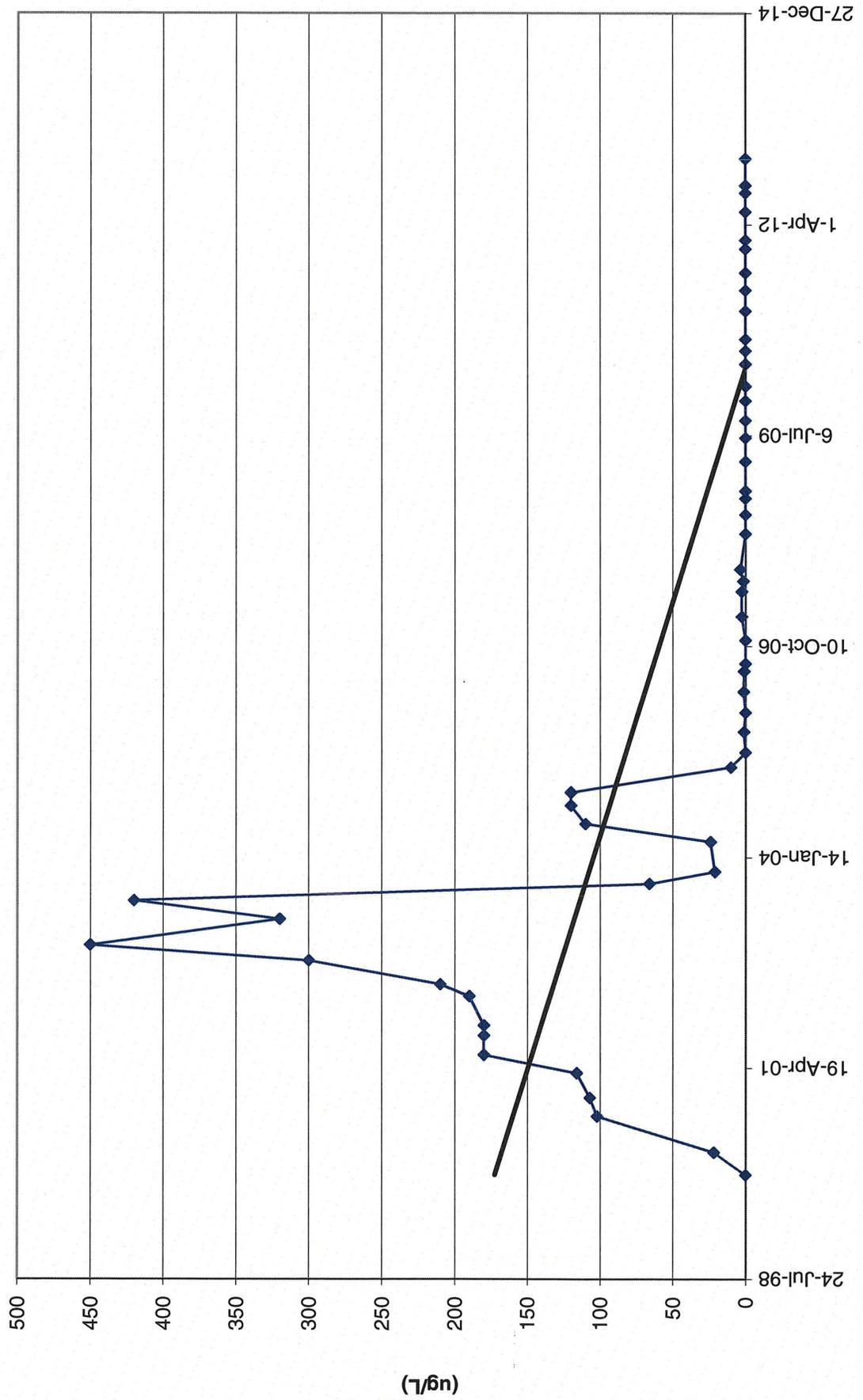
TW4-6 Chloroform Values



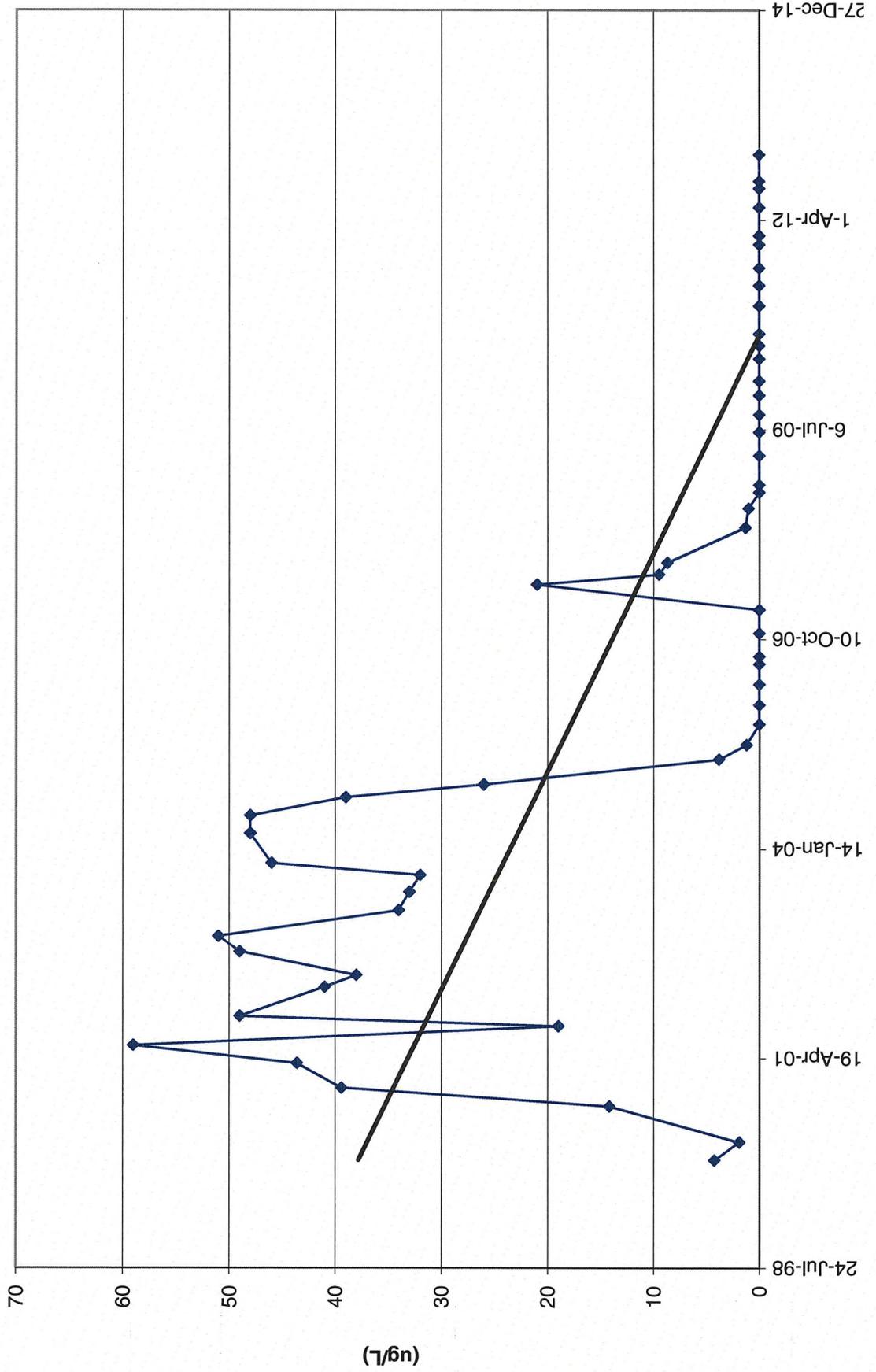
# TW4-7 Chloroform Values



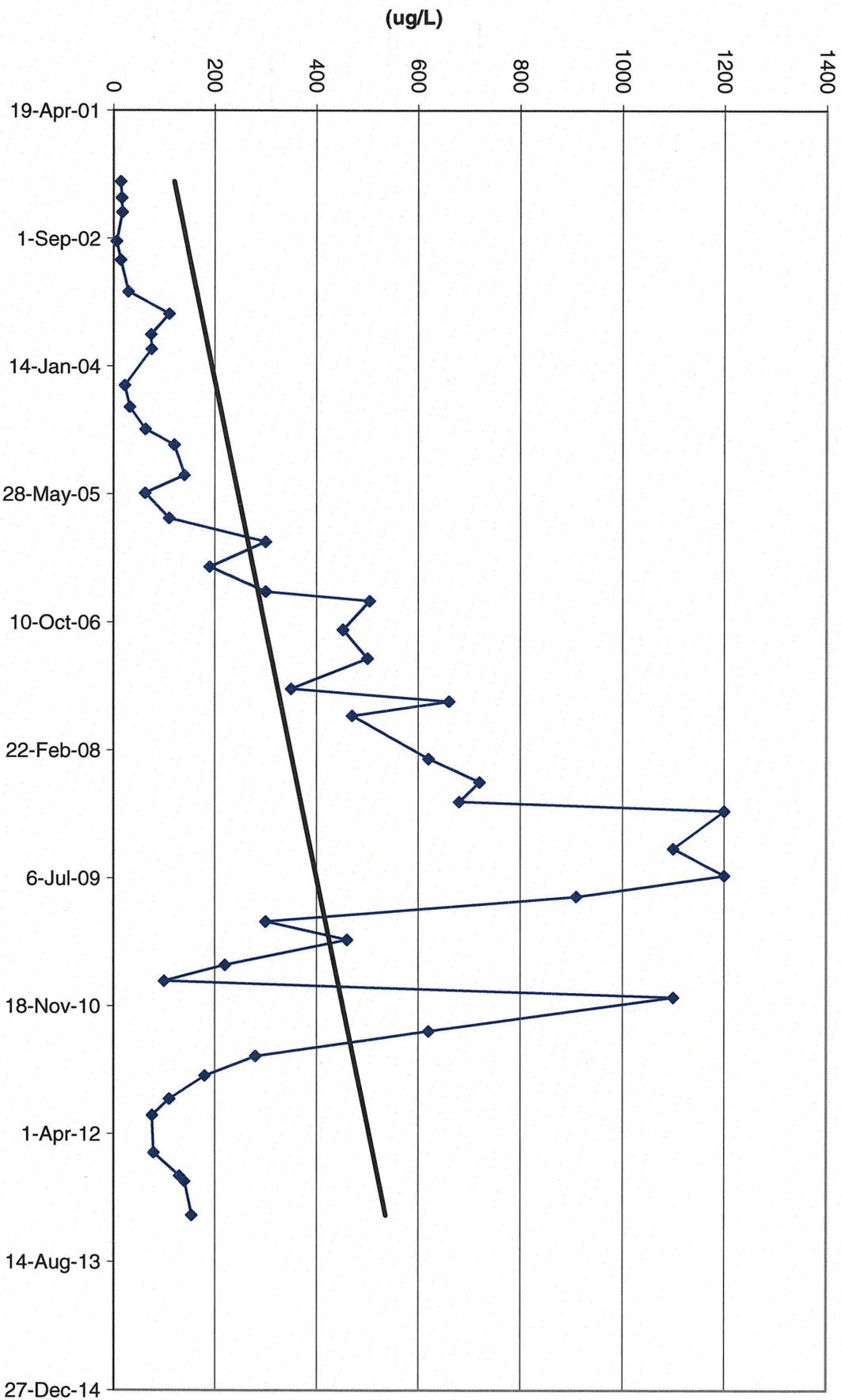
# TW4-8 Chloroform Values



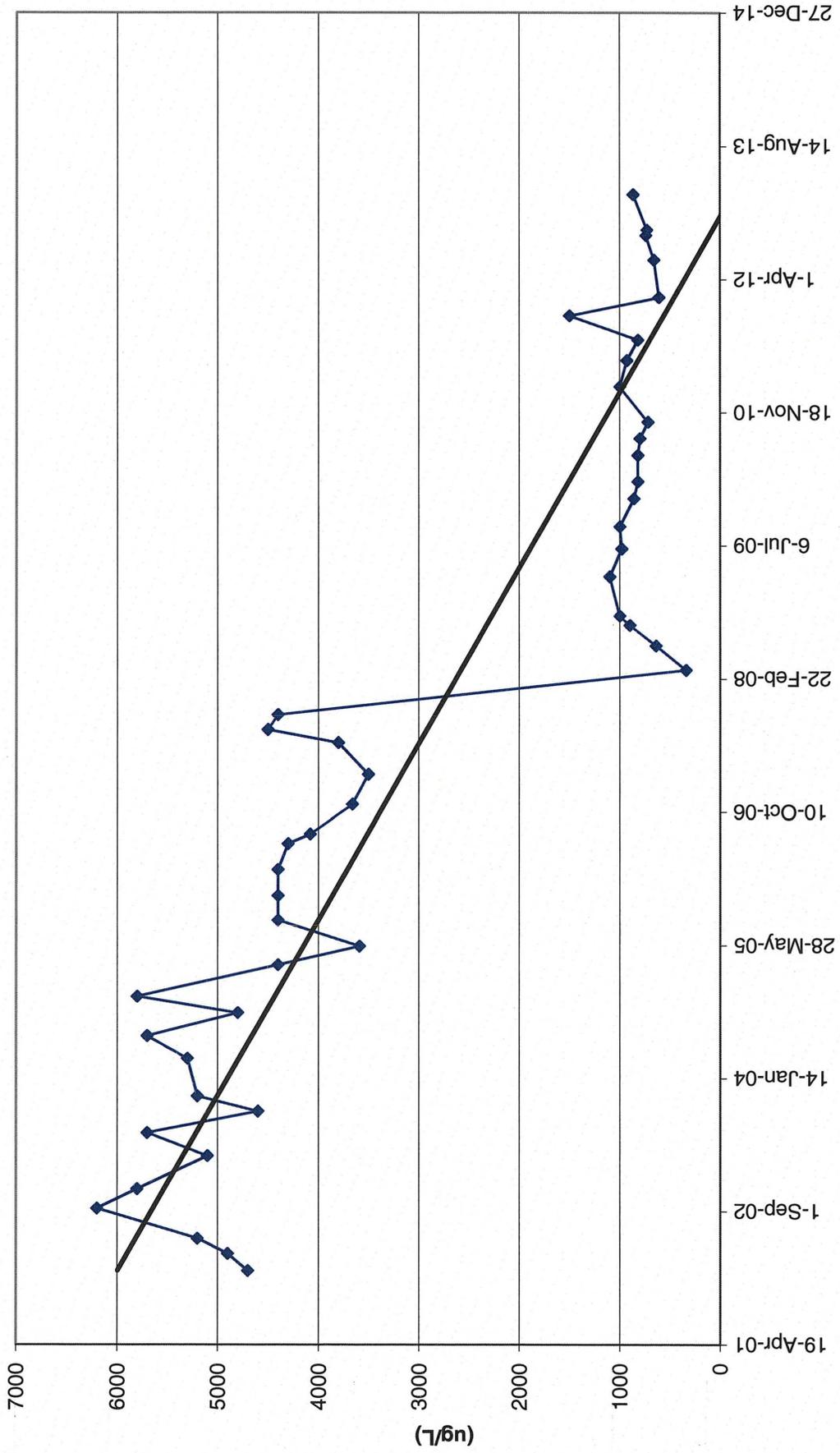
# TW4-9 Chloroform Values



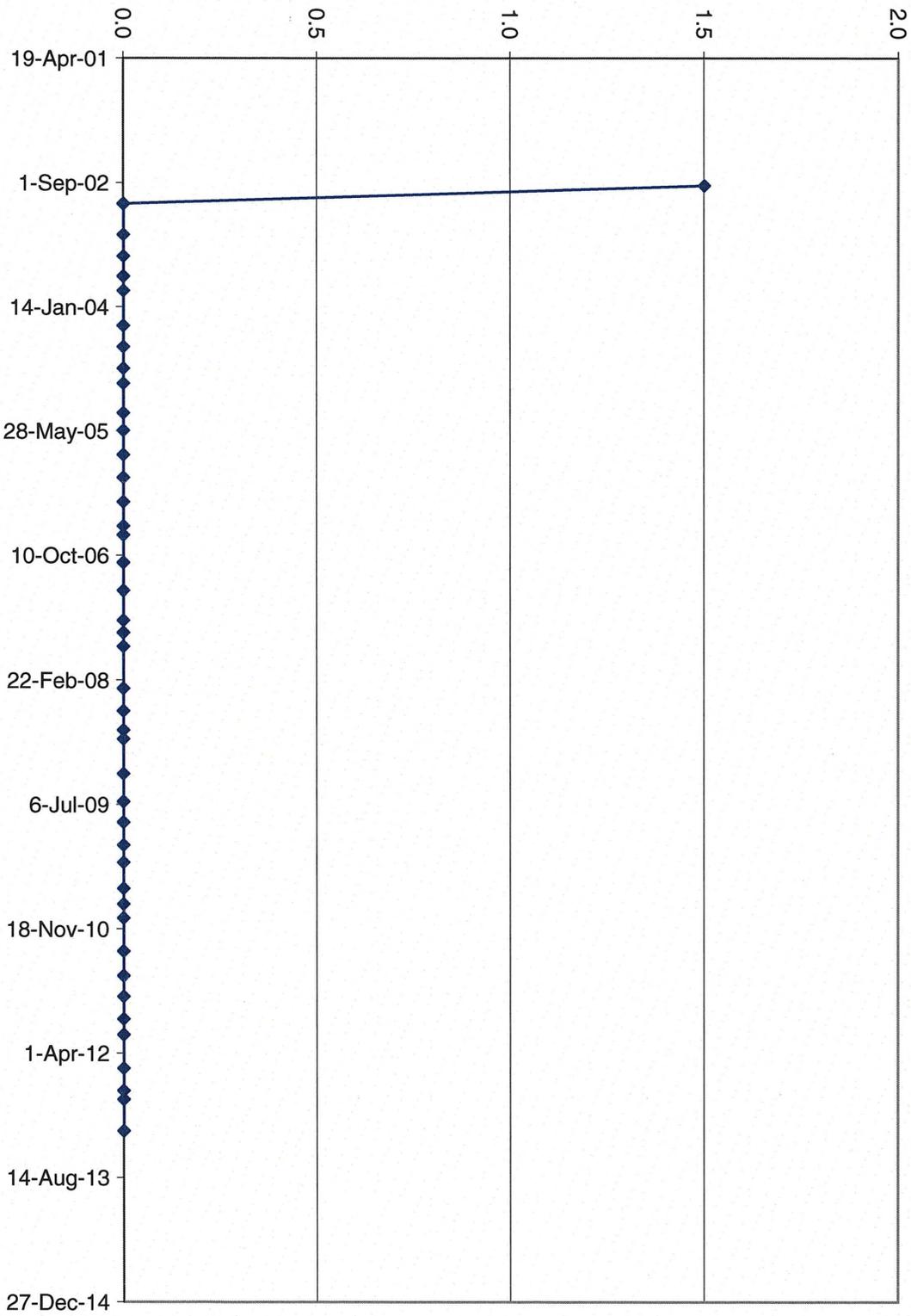
TW4-10 Chloroform Values



# TW4-11 Chloroform Values

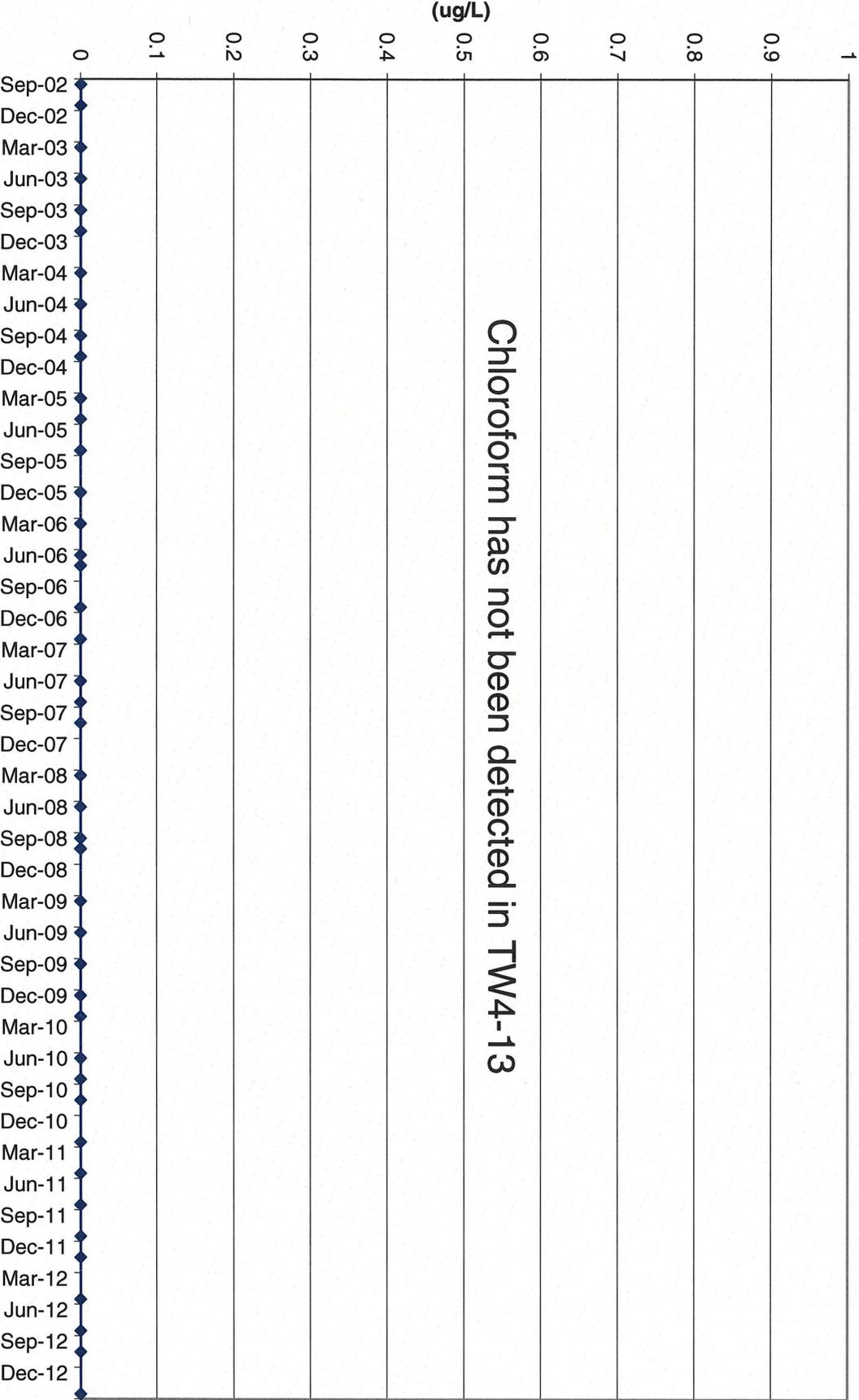


(ug/L)



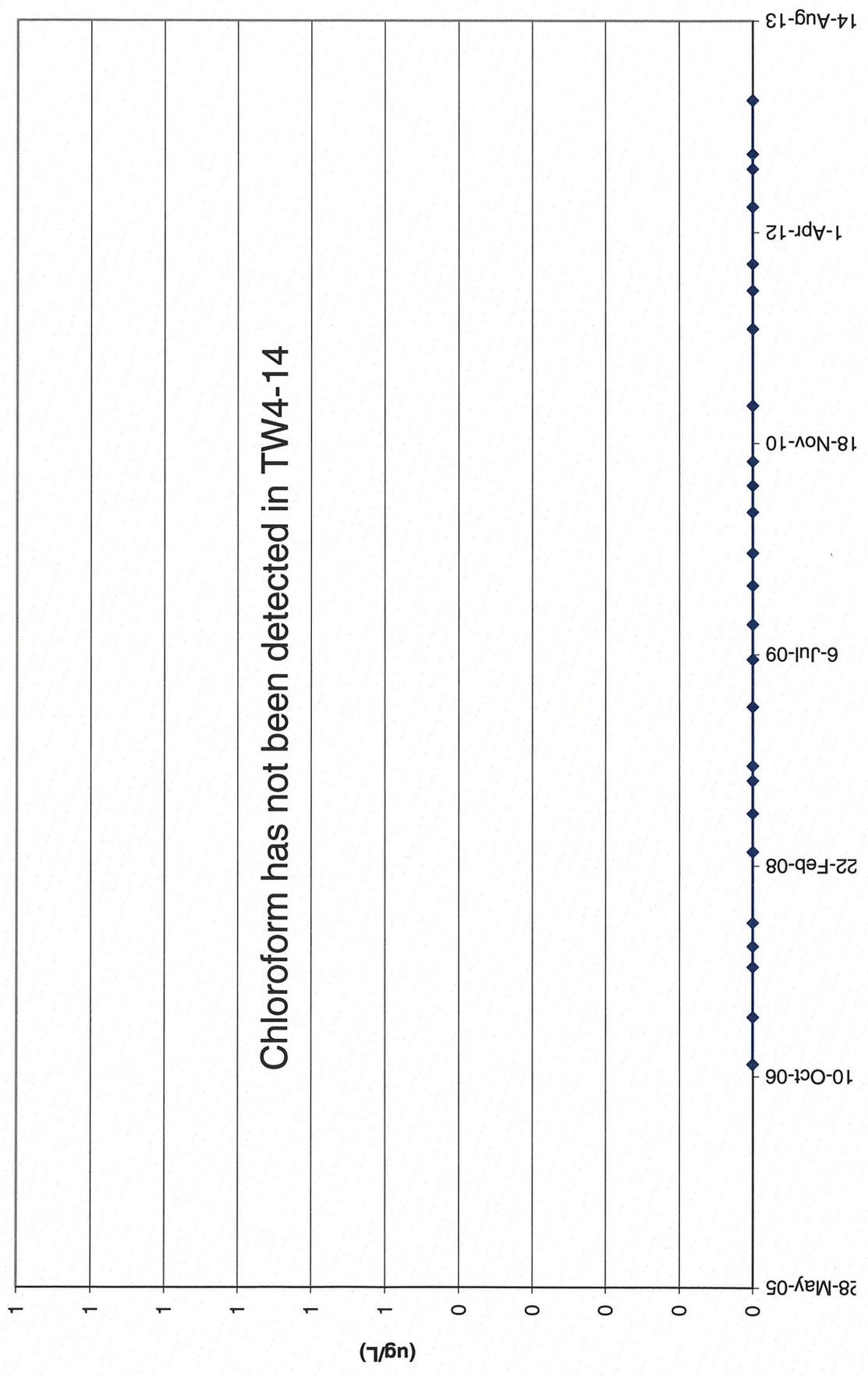
TW4-12 Chloroform Values

**TW4-13 Chloroform Values**

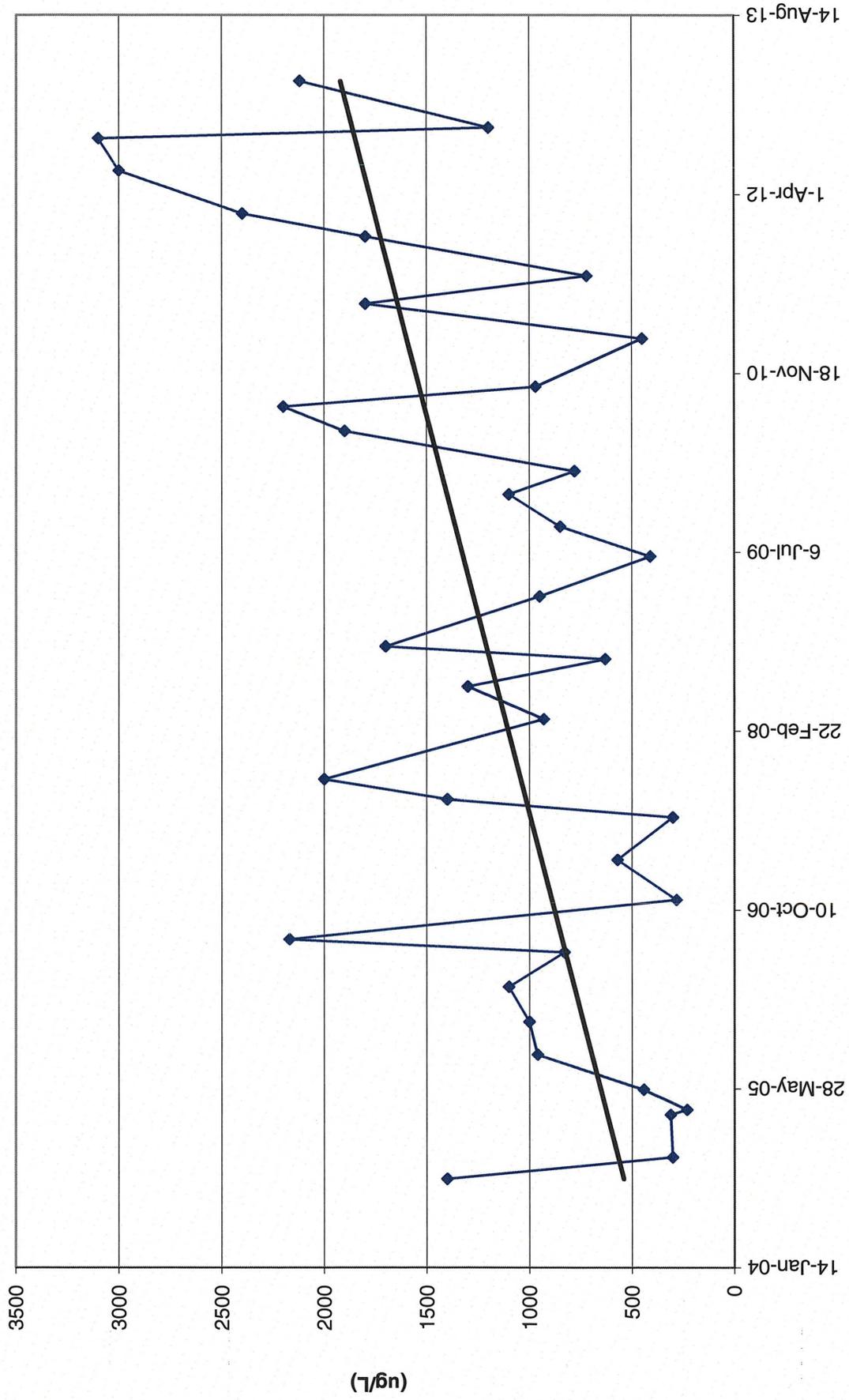


Chloroform has not been detected in TW4-13

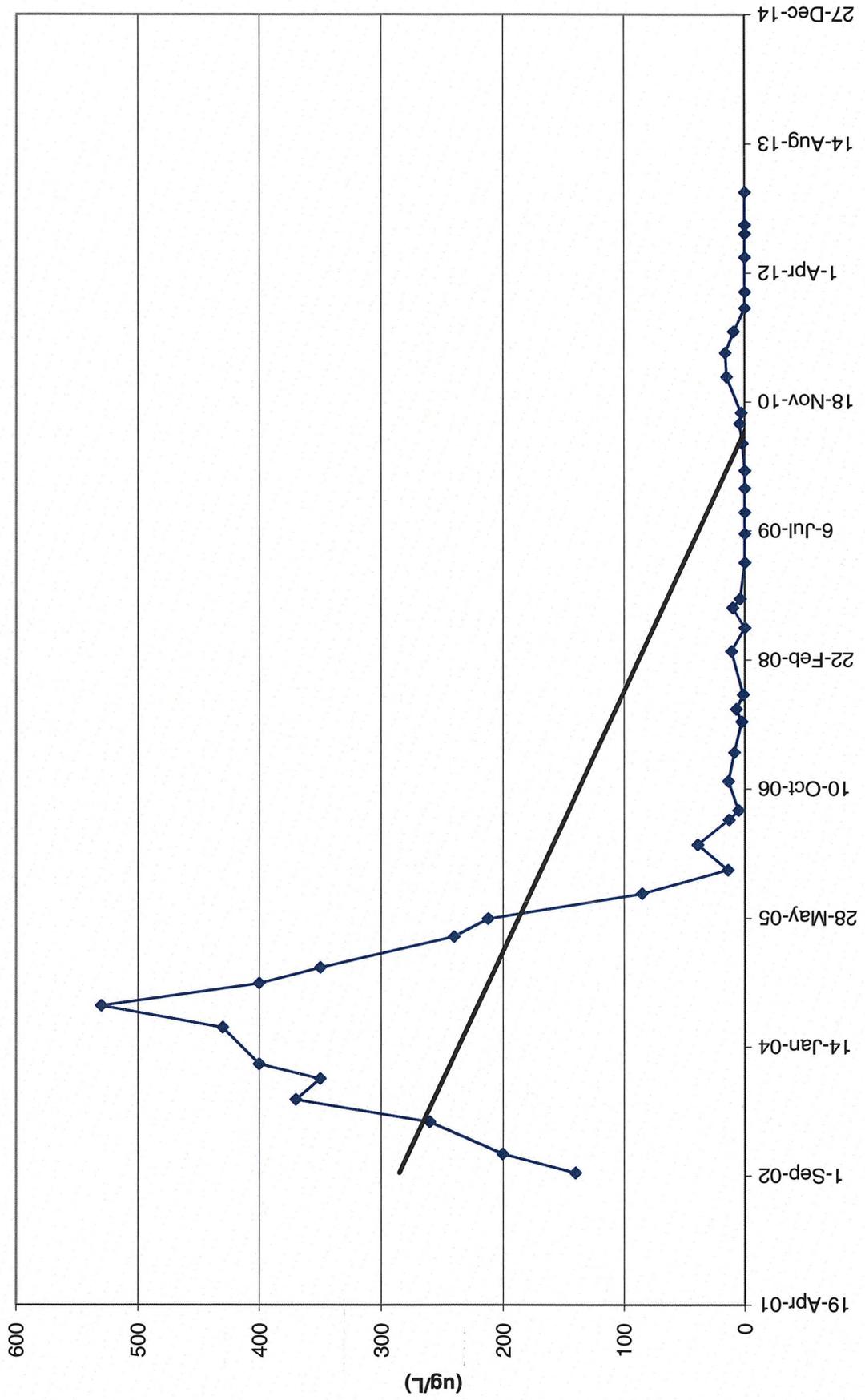
**TW4-14 Chloroform Values**



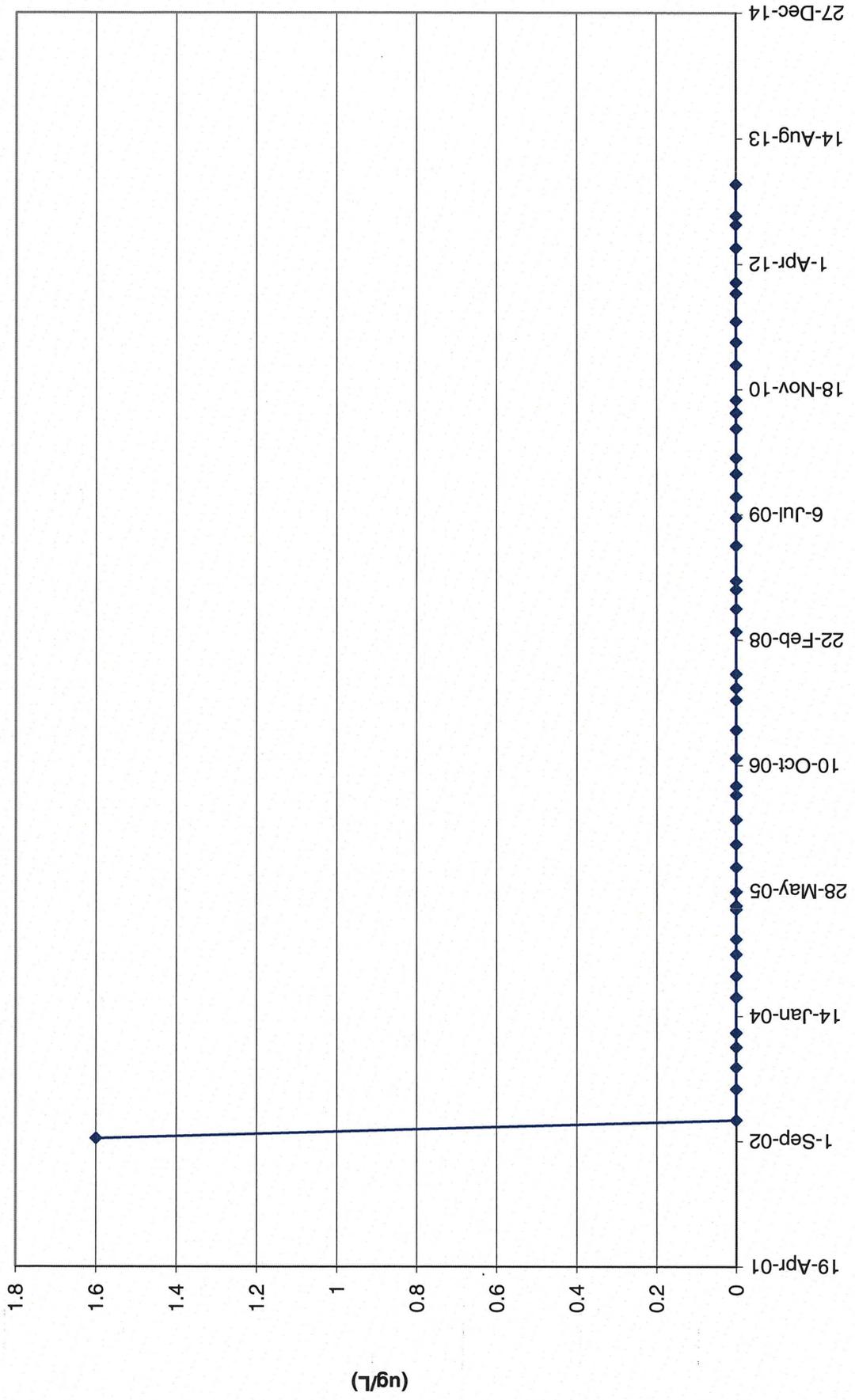
MW-26 Chloroform Values



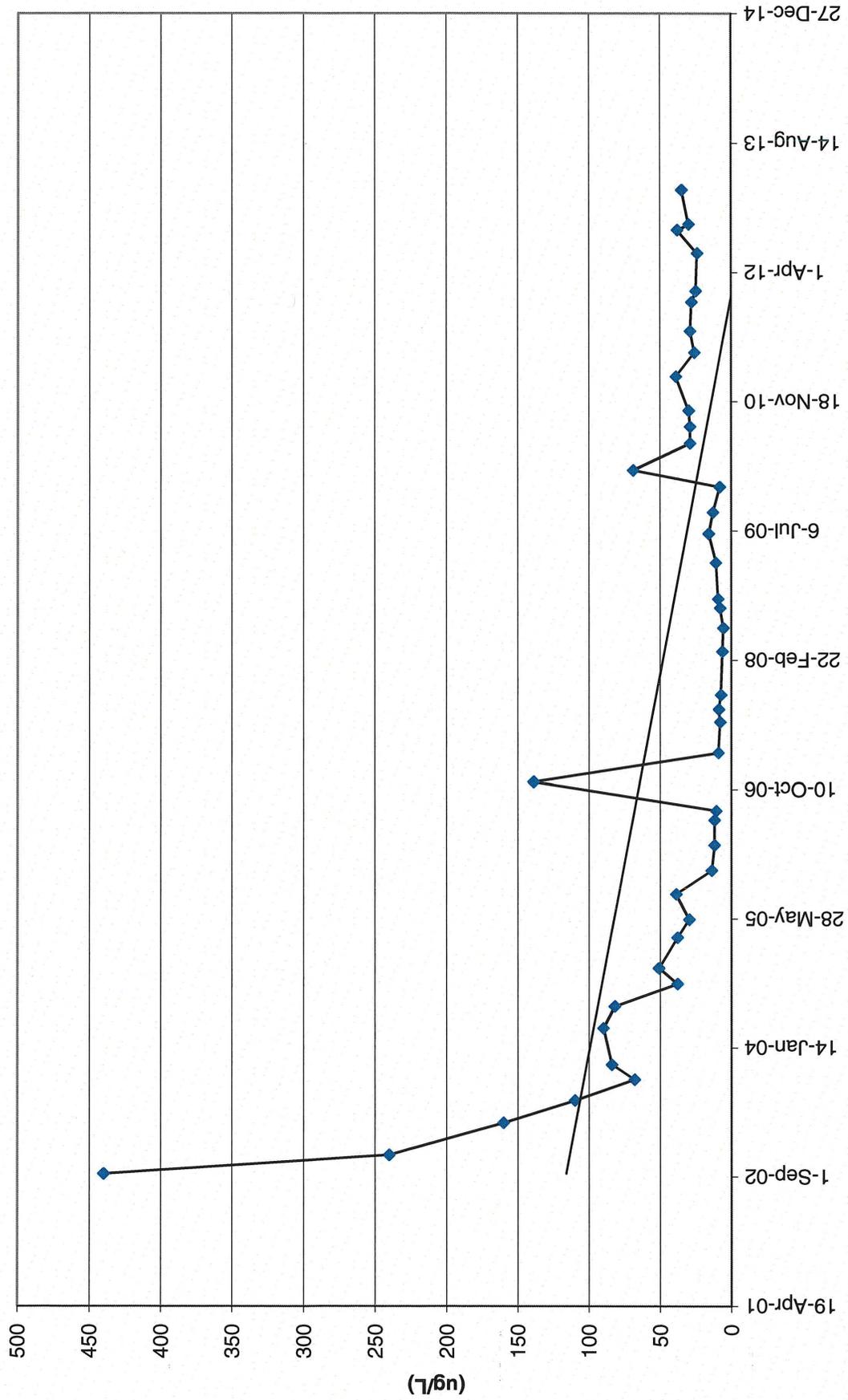
TW4-16 Chloroform Values



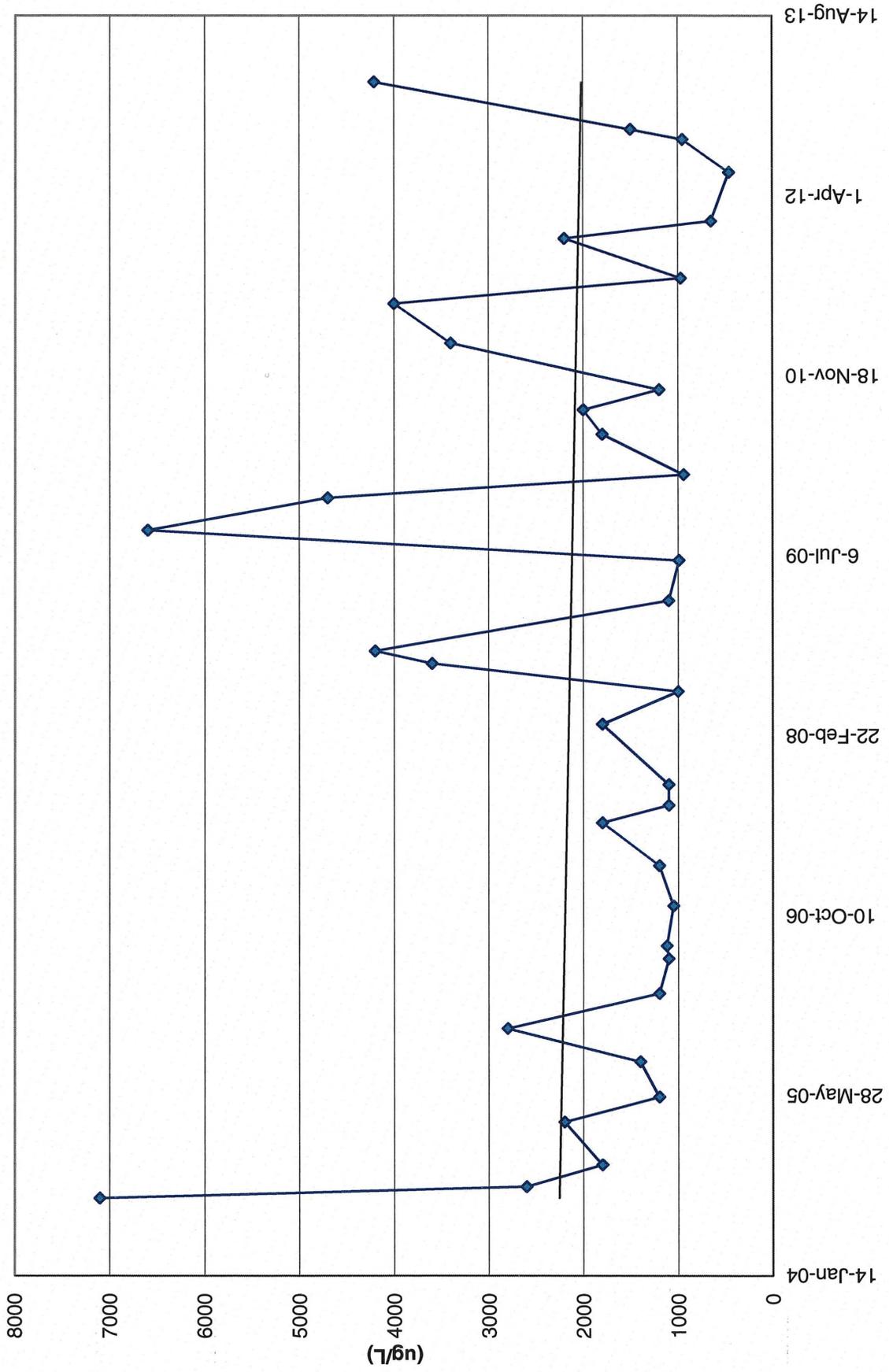
# MW-32 Chloroform Values



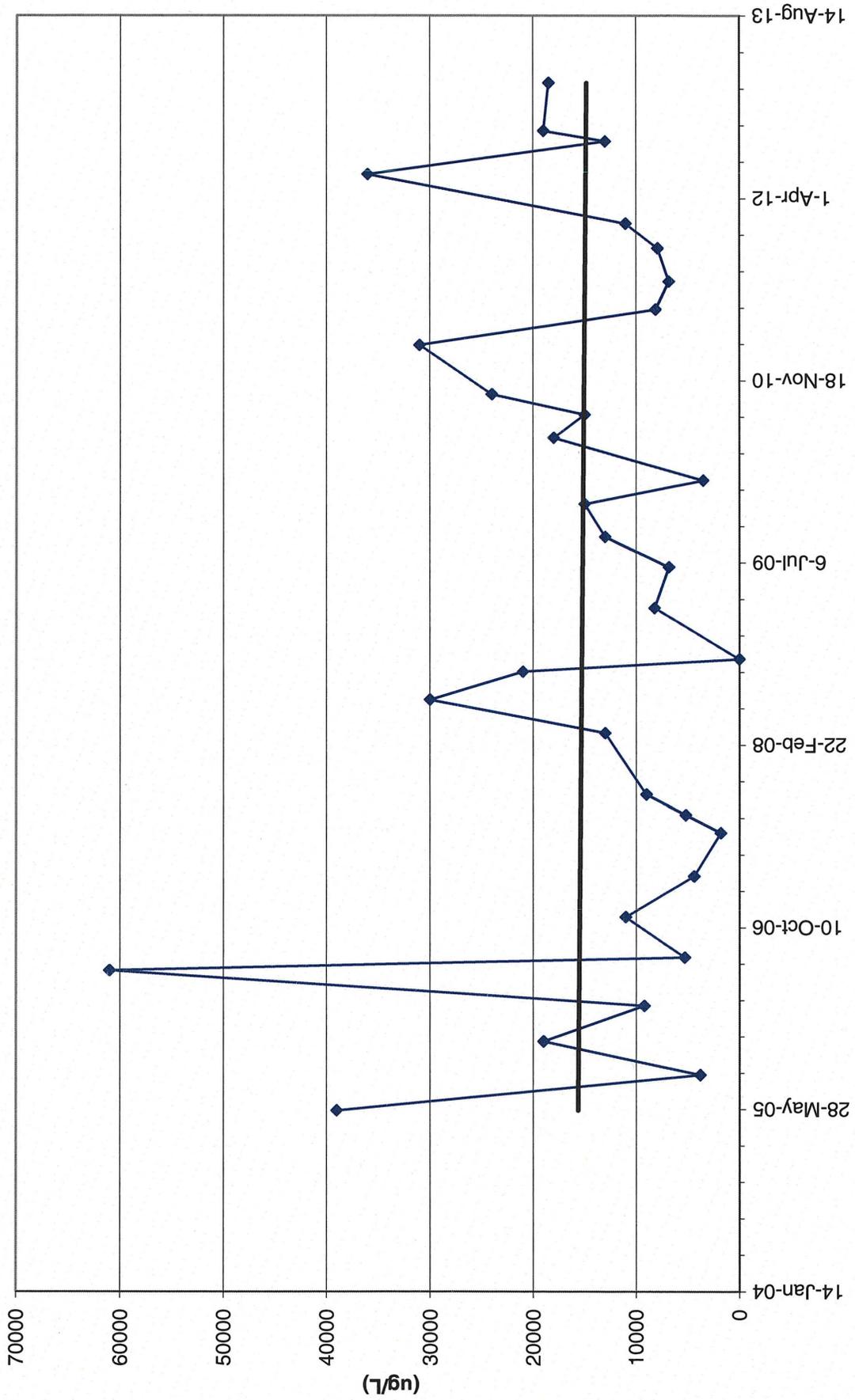
# TW4-18 Chloroform Values



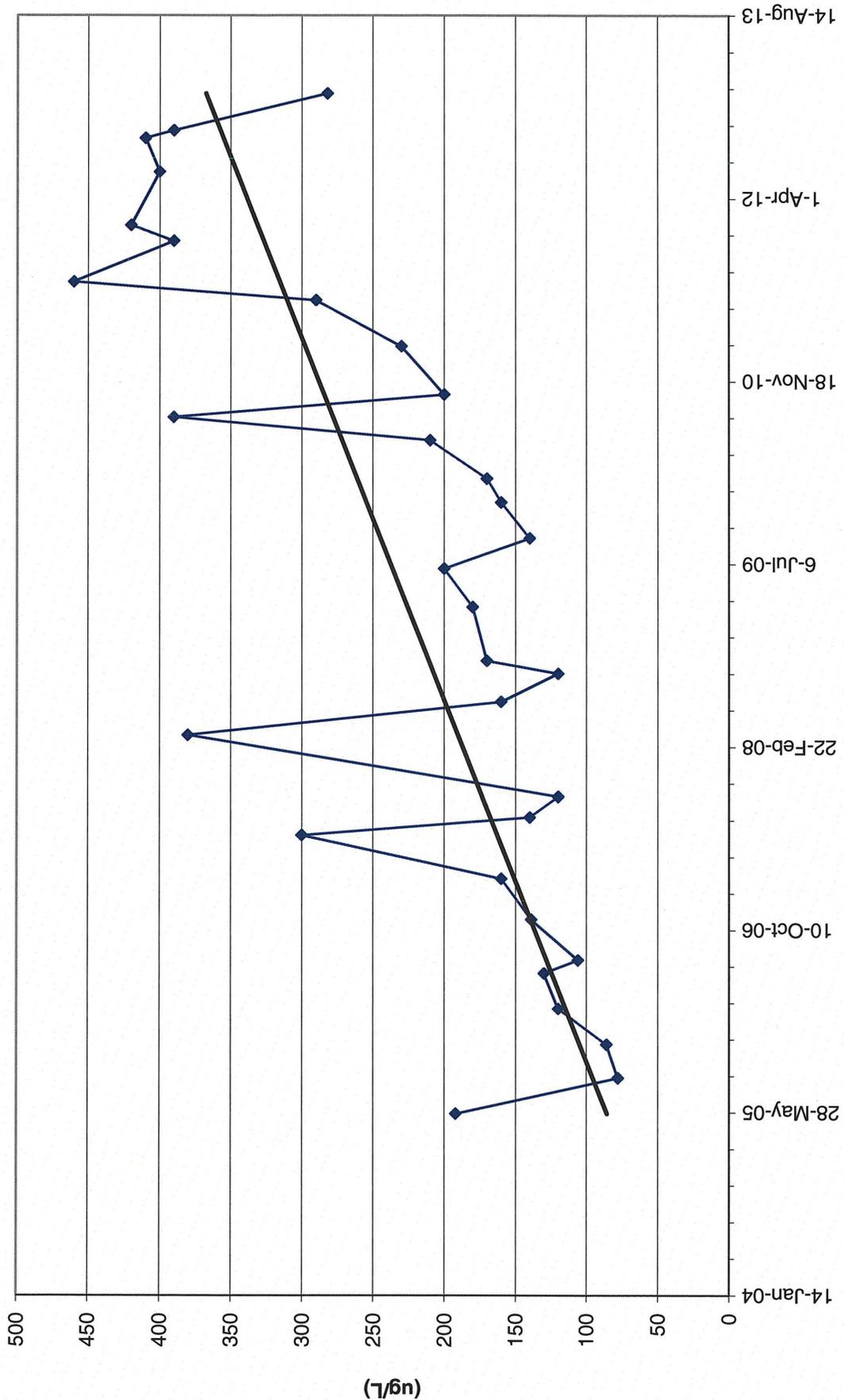
# TW4-19 Chloroform Values



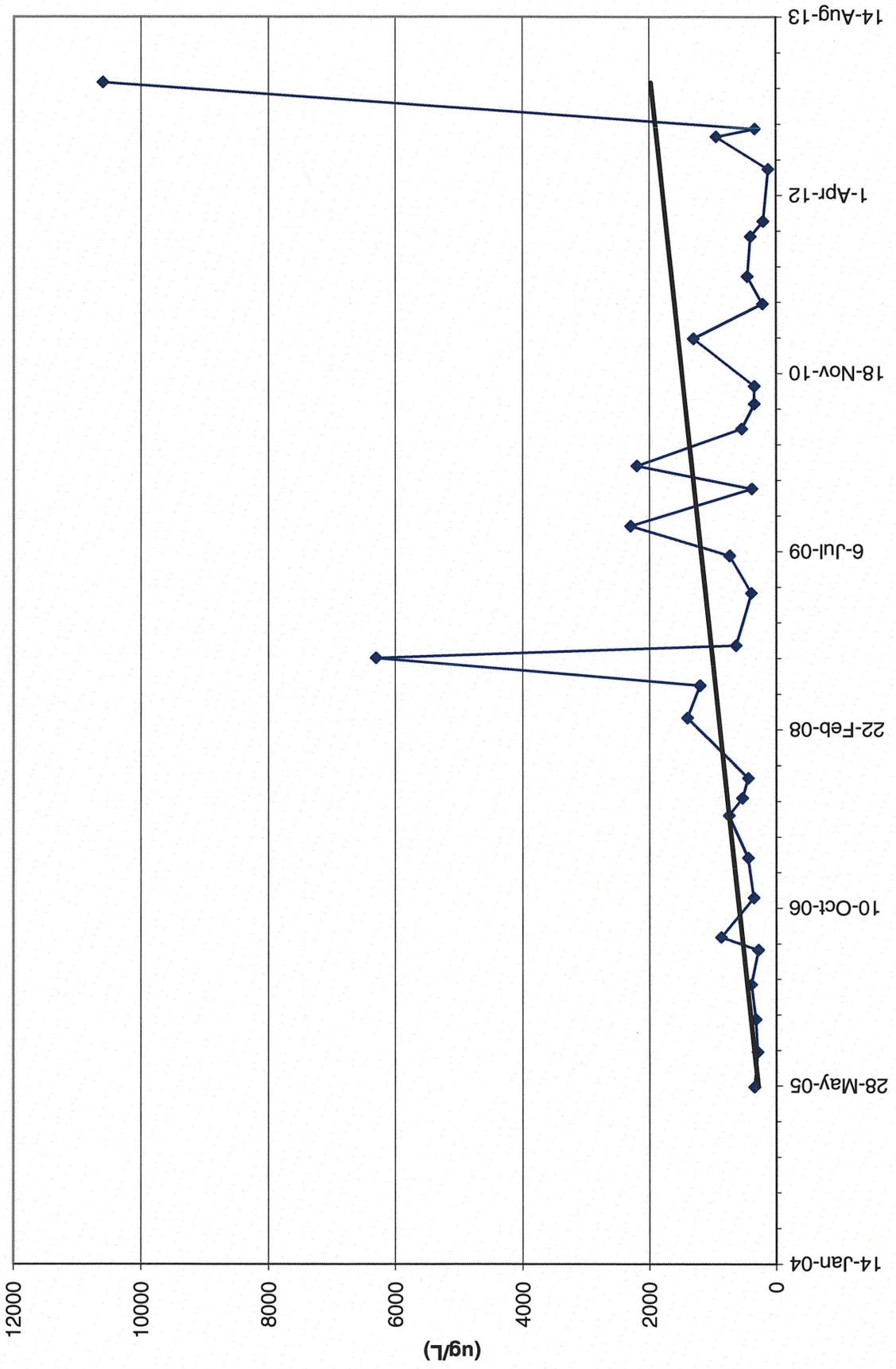
TW4-20 Chloroform Values



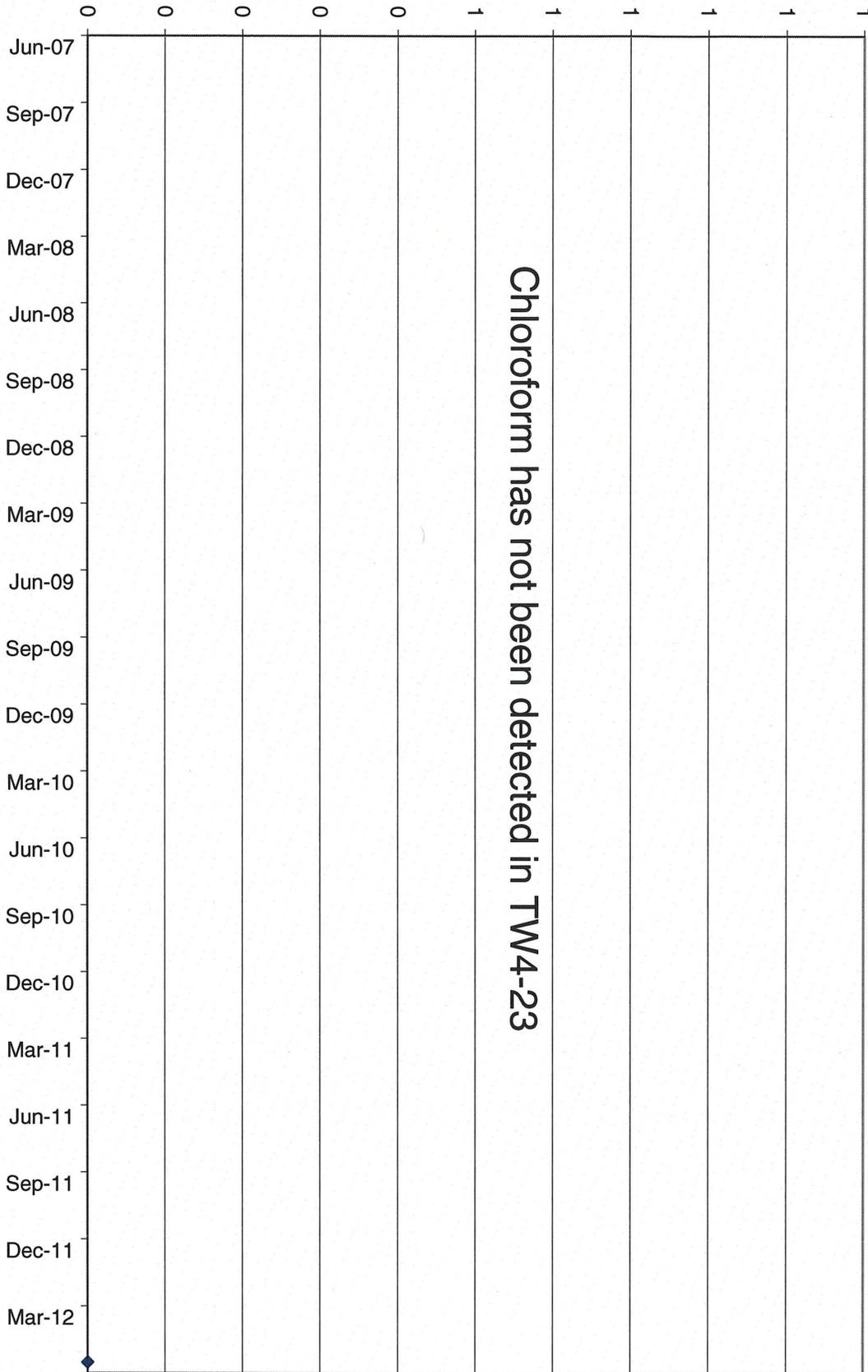
# TW4-21 Chloroform Values



TW4-22 Chloroform Values



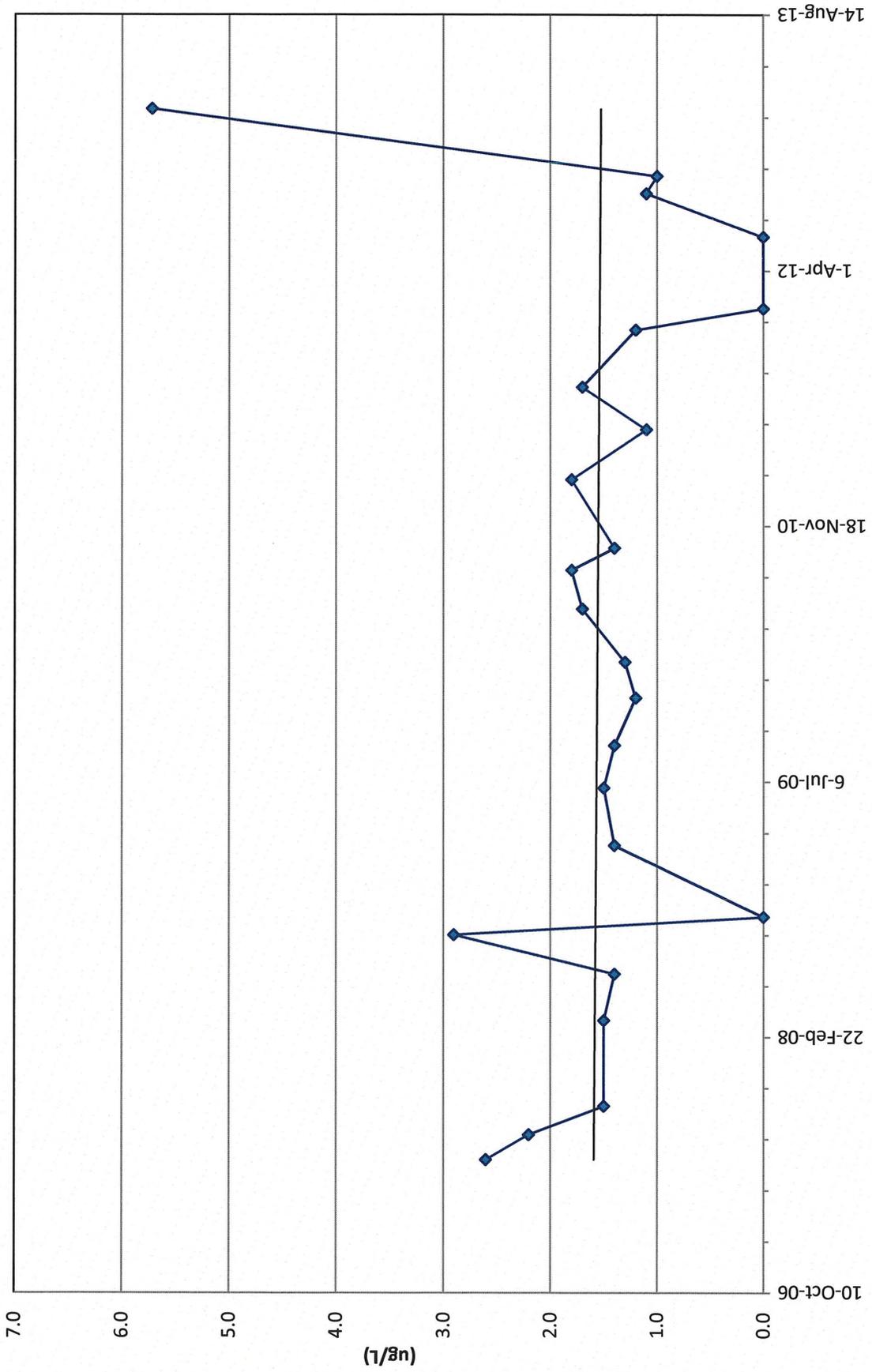
(ug/L)



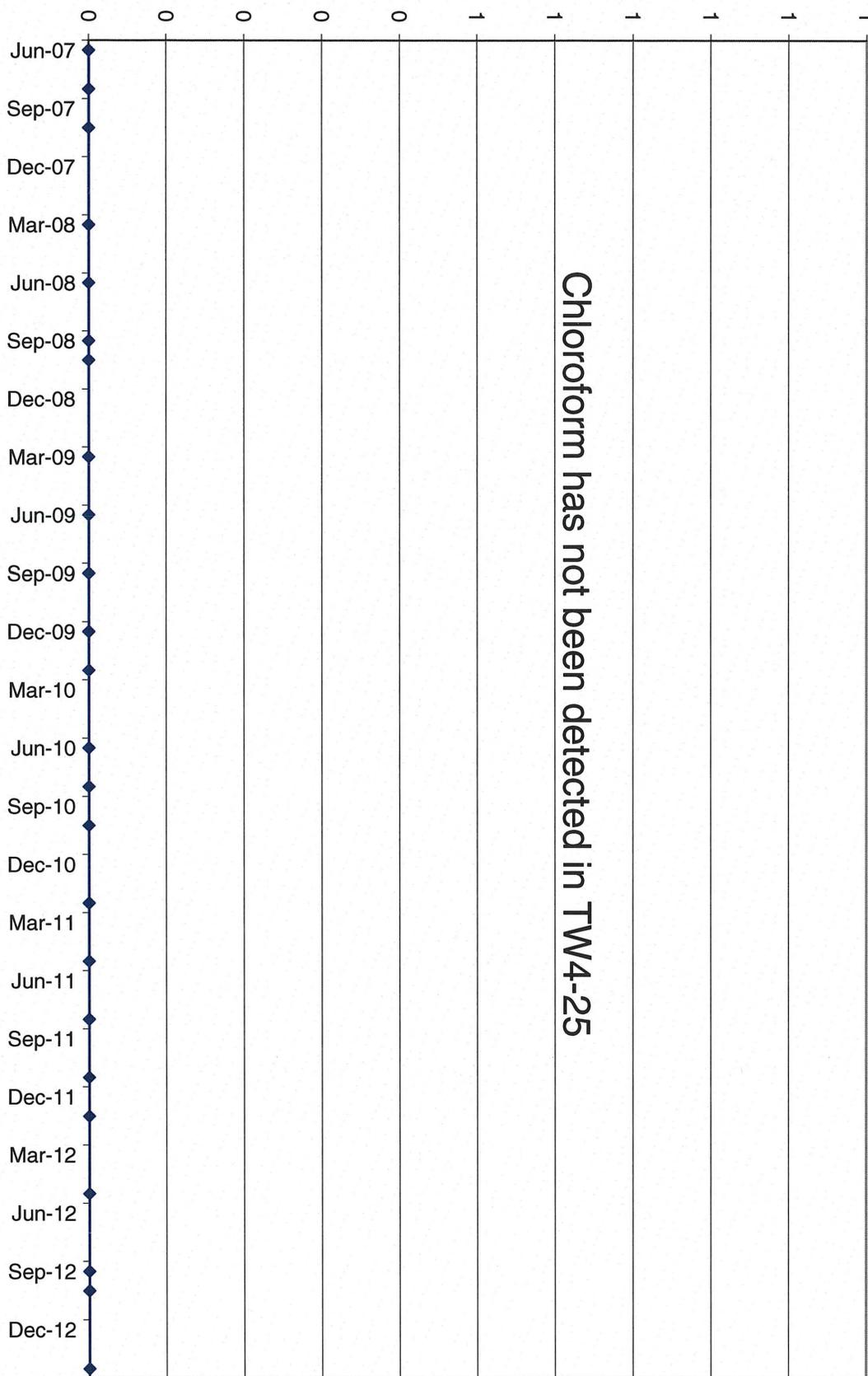
Chloroform has not been detected in TW4-23

TW4-23 Chloroform Values

# TW4-24 Chloroform Values



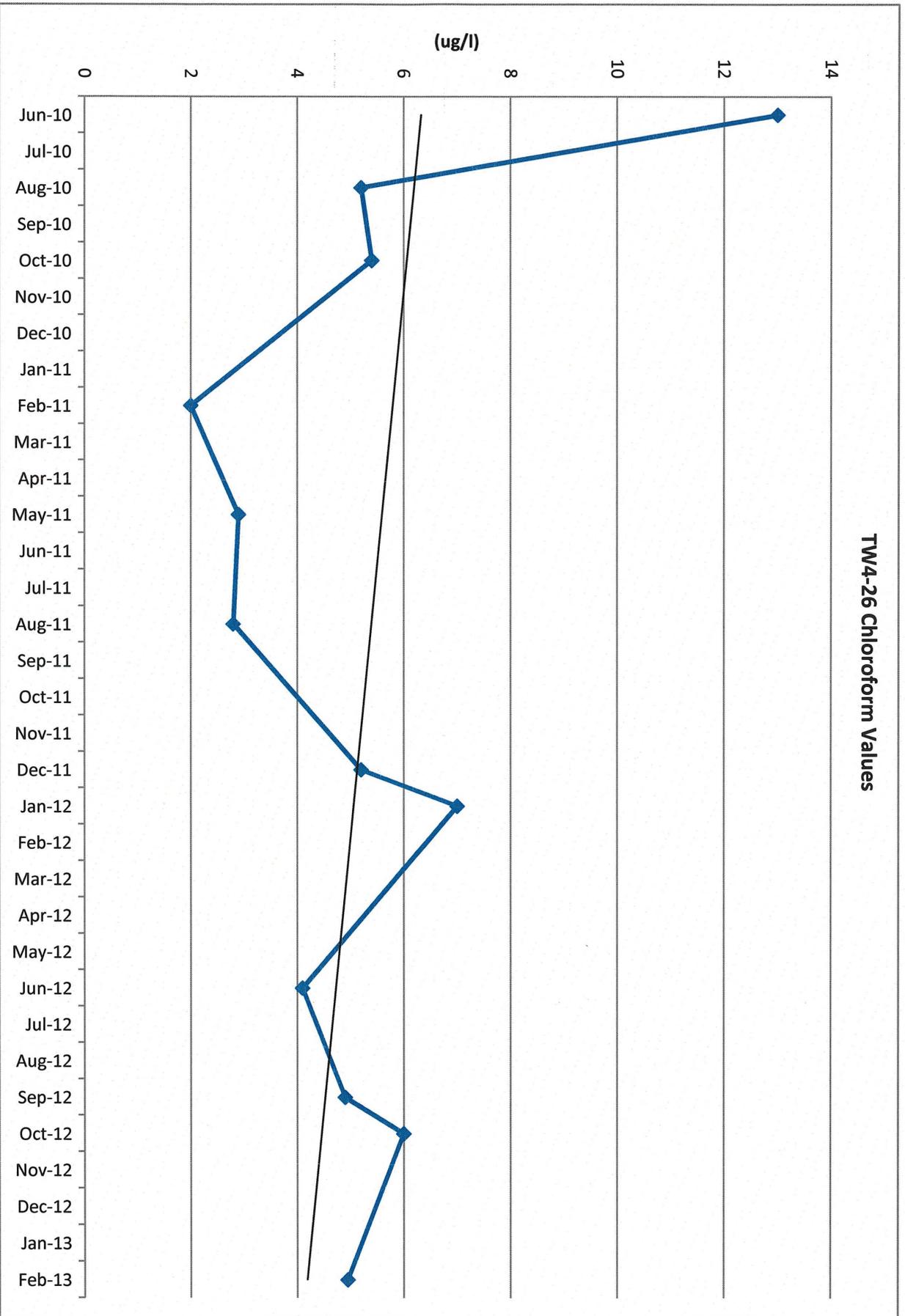
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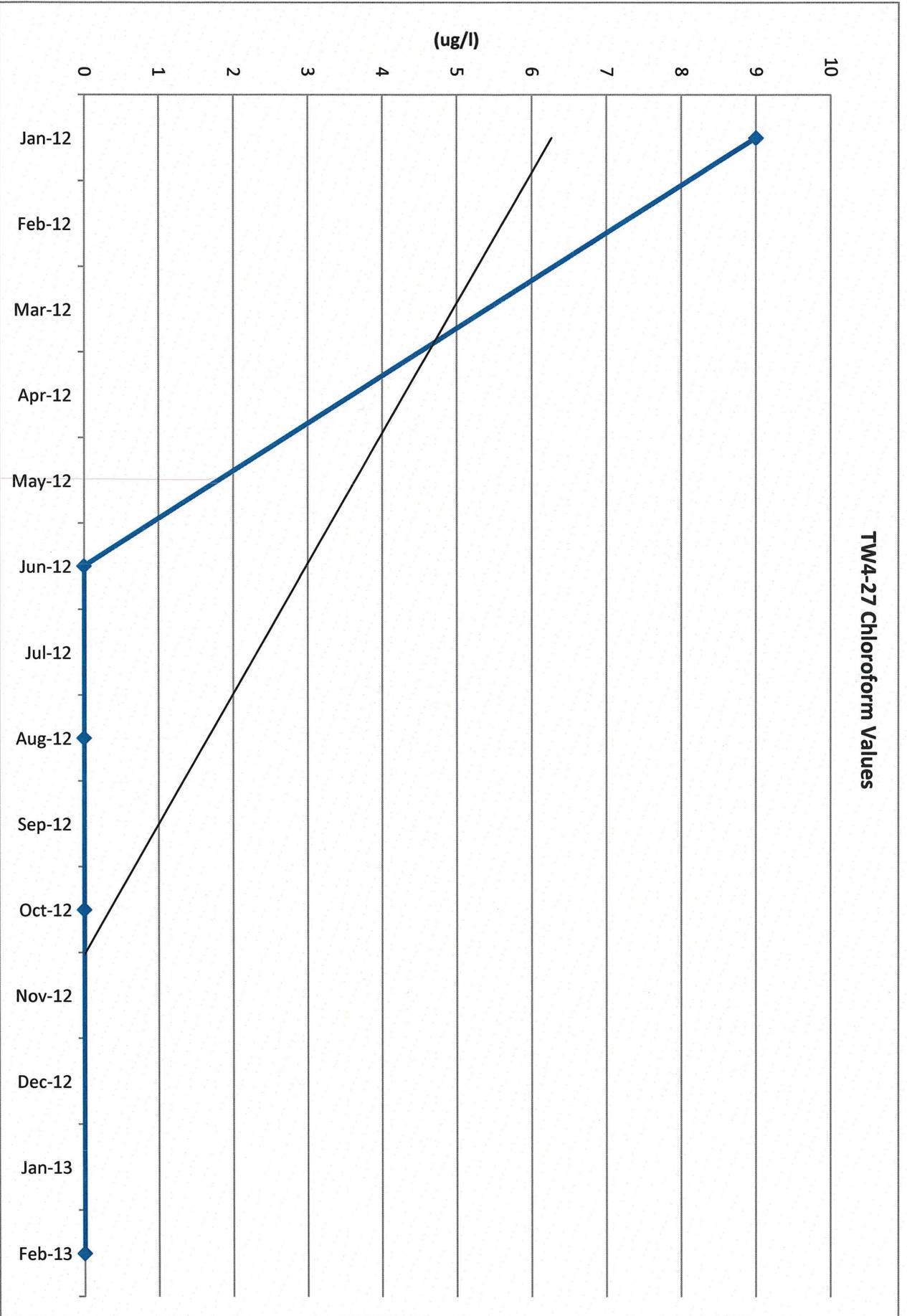
Chloroform has not been detected in TW4-25

TW4-25 Chloroform Values

TW4-26 Chloroform Values



TW4-27 Chloroform Values



Tab M

CSV Transmittal Letter

## Kathy Weinel

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**From:** Kathy Weinel  
**Sent:** Thursday, May 23, 2013 8:38 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 2013 Q1 Chloroform Monitoring  
**Attachments:** 1302137-EDD.csv; 1302239-EDD.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 first quarter of 2013, 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