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and Radiation Control
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November 17, 2016

**Sent VIA OVERNIGHT DELIVERY**

Mr. Scott Anderson
Director
Division of Waste Management and Radiation Control
Utah Department of Environmental Quality
195 North 1950 West
P.O. Box 144880
Salt Lake City, UT 84114-4820

**Re: Transmittal of 3rd Quarter 2016 Routine Chloroform Monitoring Report**
**UDEQ Docket No. UGW-20-01 White Mesa Uranium Mill**

Dear Mr. Anderson:

Enclosed are two copies of the White Mesa Uranium Mill Chloroform Monitoring Report for the 3rd Quarter of 2016 as required by the Stipulation and Consent Order, UDEQ Docket No. UGW-20-01 as well as two CDs, that each contains a word searchable electronic copy of the report.

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

Yours very truly,

Kathy Weinel

ENERGY FUELS RESOURCES (USA) INC.
Kathy Weinel
Quality Assurance Manager

CC: David C. Frydenlund
Harold R. Roberts
David E. Turk
Logan Shumway
Scott Bakken

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Scott Bakken

# White Mesa Uranium Mill

# Chloroform Monitoring Report

**State of Utah**
**Stipulation and Consent Order Docket No. UGW-20-01**

**3rd Quarter**
**(July through September)**
**2016**

Prepared by:

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

**November 17, 2016**

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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"), Division of Waste Management and Radiation Control ("DWMRC") 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). In response to the NOV, EFRI submitted a series of documents outlining plans for investigation of the chloroform contamination. This plan of action and preliminary schedule was set out in EFRI submittals dated: September 20, 1999; June 30, 2000; April 14, 2005; and November 29, 2006. EFRI submitted a draft Groundwater Corrective Action Plan ("GCAP") dated August 22, 2007. The draft GCAP was reviewed by the Director, who advised EFRI in 2013 that modifications were required. In an effort to expedite and formalize active and continued remediation of the chloroform plume, both parties have agreed to the GCAP found in Attachment 1, of the final Stipulation and Consent Order ("SCO") dated September 14, 2015.

This is the Quarterly Chloroform Monitoring Report for the third quarter of 2016 as required under the SCO. This report also includes the Operations Report for MW-04, TW4-01, TW4-04, TW4-02, TW4-11, TW4-19, TW4-20, TW4-21, MW-26, TW4-22, TW4-24, TW4-25, and TW4-37 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 Chloroform Monitoring

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

| | | | | |
|---|---|---|---|---|
| MW-4 | TW4-9 | TW4-18 | TW4-27 | TW4-36 |
| TW4-1 | TW4-10 | TW4-19 | TW4-28 | TW4-37 |
| TW4-2 | TW4-11 | TW4-20 | TW4-29 | |
| TW4-3 | TW4-12 | TW4-21 | TW4-30 | |
| TW4-4 | TW4-13 | TW4-22 | TW4-31 | |
| TW4-5 | TW4-14 | TW4-23 | TW4-32 | |
| TW4-6 | MW-26 (formerly TW4-15) | TW4-24 | TW4-33 | |
| TW4-7 | TW4-16 | TW4-25 | TW4-34 | |
| TW4-8 | MW-32 (formerly TW4-17) | TW4-26 | TW4-35 | |

Chloroform monitoring was performed in all of the required chloroform monitoring wells. 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) when 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.

### 2.1.2 Parameters Analyzed

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

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

Use of analytical methods is consistent with the requirements of the Chloroform Investigation Monitoring Quality Assurance Program (the "Chloroform QAP") attached as Appendix A to the White Mesa Uranium Mill Groundwater Monitoring QAP Revision 7.2, dated June 7, 2012.

### 2.1.3 Groundwater Head Monitoring

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

- The quarterly groundwater compliance monitoring wells
- Existing monitoring well MW-4 and all of the temporary chloroform investigation wells
- Piezometers P-1, P-2, P-3, P-4 and P-5
- MW-20 and MW-22
- Nitrate monitoring wells
- The DR piezometers that 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, TW4-1, TW4-2, TW4-4, TW4-11, TW4-19, TW4-20, TW4-21, TW4-37, and the nitrate pumping wells TW4-22, TW4-24, TW4-25, and TWN-02. 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.

## 2.2 Sampling Methodology and Equipment and Decontamination Procedures

EFRI completed, and transmitted to DWMRC on May 25, 2006, a revised QAP for sampling under the Mill's GWDP. While the water sampling conducted for chloroform investigation purposes has conformed to the general principles set out in the QAP, some of the requirements in the QAP were not fully implemented prior to DWMRC's approval of the QAP, for reasons set out in correspondence to DWMRC dated December 8, 2006. Subsequent to the delivery of the December 8, 2006 letter, EFRI discussed the issues brought forward in the letter with DWMRC and has received correspondence from DWMRC about those issues. In response to DWMRC's letter and subsequent discussions with DWMRC, EFRI modified the chloroform Quality Assurance ("QA") procedures within the Chloroform QAP. The Chloroform QAP describes the requirements of the chloroform investigation program and identifies 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 6, 2012. The revised Groundwater QAP and Chloroform QAP, Revision 7.2 were approved by DWMRC on June 7, 2012.

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

### 2.2.1 Decontamination Procedures

Non-dedicated sampling equipment is decontaminated prior to use as described in the DWMRC-approved QAP and as summarized below.

The water level meter is decontaminated with a detergent/deionized ("DI") water mixture by pouring the solutions over the water level indicator. The water level meter is then rinsed with DI water.

The field measurement instrument probe is decontaminated by rinsing with DI water prior to each calibration. The sample collection cup is washed with a detergent/DI water solution and rinsed with fresh DI water prior to each calibration.

The non-dedicated purging pump is decontaminated after each use and prior to use at subsequent sampling locations using the following procedures:

a) the pump is submerged into a 55-gallon drum of nonphosphate detergent/DI water mixture;

b) the detergent/DI water solution is pumped through the pump and pump outlet lines into the drain line connected to Cell 1;

c) the pump is submerged into a 55-gallon drum of DI water;

d) the DI water solution is pumped through the pump and pump outlet lines into the drain line connected to Cell 1;

### 2.2.2 Well Purging and Depth to Groundwater

The non-pumping wells are purged prior to sampling by means of a portable pump. A list of the wells in order of increasing chloroform concentration is generated quarterly. The order for purging the non-pumping wells 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 wells with detectable chloroform concentrations staring with the lowest concentration and proceeding to the wells with the highest concentration. One deviation to this practice is made for the continuously pumping wells. These wells are sampled throughout the sampling event and are not sampled in the order of contamination. This practice does not affect the samples for this reason: the pumping wells have dedicated pumps and there will be no cross-contamination resulting from the sampling order.

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. As noted in the approved QAP, Revision 7.2, sampling will generally follow the same order as purging; however; 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 either have 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 the sampling order.

Before leaving the Mill office, the portable pump and hose are rinsed with DI water. Where portable (non-dedicated) sampling equipment is used, a rinsate sample is 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 are 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% Relative Percent Difference ["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. After sampling, the pump is turned off and allowed to resume its timed schedule.

### 2.2.3 Sample Collection

Prior to sampling, 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 that is provided by the Analytical Laboratory. The nitrate/nitrite sample is not filtered and is preserved with $H_2SO_4$;

- A sample for chloride is then collected. This sample consists of one 500 ml. bottle that is provided by the Analytical Laboratory. The chloride sample is 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 the 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, TW4-1, TW4-2, TW4-4, TW4-11, TW4-19, TW4-20, TW4-21, TW4-22, TW4-24, TW4-25, TW4-37, and TWN-2 as well as the monthly depth to groundwater data for the chloroform contaminant investigation wells and the non-pumped wells measured during the quarter. Depth to groundwater measurements that 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 Laboratory ("AWAL"). Table 1 lists the dates when analytical results were reported to the QA Manager for each sample.

Results from the analyses 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 the 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 SCO triggered a series of actions on EFRI's part. In addition to the monitoring program, EFRI has equipped one nitrate well and thirteen chloroform 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 the 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 that 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.

Three trip blanks were provided by 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

The QA Manager's review of Mill Personnel's adherence to the existing SOPs, confirmed that the QA/QC requirements established in the QAP and Chloroform QAP were met.

### 3.3 Analyte Completeness Review

All analyses required by the GCAP 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 the 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 the 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, the purging and field measurements were completed in conformance with the QAP 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 TW4-5, TW4-7, TW4-8, TW4-9, TW4-13, TW4-16, MW-32, TW4-18, TW4-23, TW4-28, and TW4-32 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 TW4-3, TW4-6, TW4-10, TW4-14, TW4-26, TW4-27, TW4-29, TW4-30, TW4-31, TW4-33, TW4-34, TW4-35, and TW4-36 were pumped to dryness before two casing volumes were evacuated. After well recovery, one set of measurements of pH, conductivity and temperature were taken. The samples were then collected, and another set of measurements of pH, conductivity and temperature were taken. Stabilization of pH, conductivity and temperature are required within 10% RPD under the QAP, Revision 7.2. The QAP requirements for stabilization were met.

Continuously Pumped Wells
Wells MW-4, TW4-1, TW4-2, TW4-4, TW4-11, MW-26, TW4-19, TW4-20, TW4-21, TW4-22, TW4-24, TW4-25, and TW4-37 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, the QA Manager confirmed 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 below regarding turbidity measurements greater than 5 NTU are included for information purposes only.

Wells MW-4, TW4-2, TW4-4, TW4-5, TW4-7, TW4-8, TW4-9, TW4-13, MW-26, TW4-16, MW-32, TW4-18, TW4-21, TW4-23, TW4-24, TW4-25, TW4-28, and TW4-32 exceeded the QAP's 5 NTU goal. EFRI's letter to DWMRC of March 26, 2010 discusses further why turbidity does not appear to be an appropriate parameter for assessing well stabilization. In response to DWMRC's subsequent correspondence dated June 1, 2010 and June 24, 2010, EFRI completed a monitoring well redevelopment program. The redevelopment report was submitted to DWMRC on September 30, 2011. DWMRC responded to the redevelopment report via letter on November 15, 2012. Per the DWMRC 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. The samples were received and analyzed within the required holding times.

### 3.4.3 Receipt Temperature Evaluation

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

### 3.4.4 Analytical Method Checklist

The 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. The analytical methods were consistent with the requirements of the Chloroform QAP.

### 3.4.5 Reporting Limit Evaluation

The 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. The 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 these 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 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 the volatile samples were received at the laboratory with a pH less than 2.

### 3.4.7 Trip Blank Evaluation

Trip blank results were reviewed to identify any VOC contamination resulting from transport of the samples. Trip blank checks are provided in Tab I. The 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 the duplicate pairs for all analytes regardless of whether or not the reported concentrations are greater than 5 times the required detection limits; however, data are 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.

Duplicate results were within a 20% RPD in the quarterly samples. Duplicate results are included in Tab I.

### 3.4.9 Rinsate Sample Check

Rinsate blank sample checks are provided in Tab I. The rinsate blank sample concentration levels were compared to the QAP requirements i.e., that rinsate sample concentrations be one order of magnitude lower than that of the actual well. 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.

The 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 the samples were within acceptable laboratory limits for the 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 outside of 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 the quarterly chloroform samples were within acceptable laboratory limits for the surrogate compounds. The requirement in the QAP to analyze surrogate compounds was met and 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 the Laboratory Control Samples (the "LCS") recoveries were within acceptable laboratory limits for the LCS compounds except as noted below.

The information from the Laboratory QA/QC Summary Reports indicates that the LCS recoveries for the samples were within acceptable laboratory limits for the regulated 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 (See Tab D) 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 south of the tailings cells. Perched water mounding associated with the wildlife ponds locally changes the generally southerly perched water flow patterns. For example, northeast of the Mill site, mounding associated with formerly used wildlife ponds disrupts the generally southwesterly flow pattern, to the extent that locally northerly flow occurs near MW-19 and PIEZ-1. The impact of the mounding associated with the northern ponds, to which water has not been delivered since March 2012, is diminishing and is expected to continue to diminish as the mound decays due to reduced recharge.

Not only has recharge from the wildlife ponds impacted perched water elevations and flow directions at the site, but the cessation of water delivery to the northern ponds, which are generally upgradient of the nitrate and chloroform plumes at the site, resulted in changing conditions that were expected to impact constituent concentrations and migration rates within the plumes. Specifically, past recharge from the ponds helped limit many constituent concentrations within the plumes by dilution while the associated groundwater mounding increased hydraulic gradients and contributed to plume migration. Since use of the northern ponds was discontinued in March, 2012, increases in constituent concentrations in many wells, and decreases in hydraulic gradients within the plumes, are attributable to reduced recharge and the decay of the associated groundwater mound. EFRI and its consultants anticipated these changes and discussed these and other potential effects during discussions with DWMRC in March 2012 and May 2013.

The impacts associated with cessation of water delivery to the northern ponds were expected to propagate downgradient (south and southwest) over time. Wells close to the ponds were generally expected to be impacted sooner than wells farther downgradient of the ponds. Therefore, constituent concentrations were generally expected to increase in downgradient wells close to the ponds before increases were detected in wells farther downgradient of the ponds. Although such increases were anticipated to result from reduced dilution, the magnitude and timing of the increases were anticipated to be and have been difficult to predict due to the complex permeability distribution at the site and factors such as pumping and the rate of decay of the groundwater mound. Because of these complicating factors, some wells completed in higher permeability materials were expected to be impacted sooner than other wells completed in lower permeability materials even though the wells completed in lower permeability materials were closer to the ponds.

In general, chloroform and nitrate concentrations within and in the vicinity of the chloroform plume appear to have been impacted to a greater extent than nitrate concentrations within and adjacent to the nitrate plume. This behavior is reasonable considering that the chloroform plume is generally more directly downgradient of and more hydraulically connected (via higher permeability materials) to the wildlife ponds.

Localized increases in concentrations of constituents such as chloroform and nitrate within and near the chloroform plume, and of nitrate and chloride within and near the nitrate plume, may occur even when these plumes are under control. Ongoing mechanisms that can be expected to increase constituent concentrations locally as a result of reduced wildlife pond recharge include but are not limited to:

1) Reduced dilution - the mixing of low constituent concentration pond recharge into existing perched groundwater will be reduced over time.
2) Reduced saturated thicknesses – dewatering of higher permeability layers receiving primarily low constituent concentration pond water will result in wells intercepting these layers receiving a smaller proportion of the low constituent concentration water.

The combined impact of the above two mechanisms was anticipated to be more evident at chloroform pumping wells MW-4, MW-26, TW4-4, TW4-19, and TW4-20; nitrate pumping wells TW4-22, TW4-24, TW4-25, and TWN-2; and non-pumped wells adjacent to the pumped wells. Impacts were also expected to occur over time at wells added to the chloroform pumping network during the first quarter of 2015 (TW4-1, TW4-2, TW4-11), and to those added during the second quarter of 2015 (TW4-21 and TW4-37). The overall impact was expected to be generally higher constituent concentrations in these wells over time until mass reduction resulting from pumping and natural attenuation eventually reduces concentrations. Short-term changes in concentrations at pumping wells and wells adjacent to pumping wells are also expected to result from changes in pumping conditions.

In addition to changes in the flow regime caused by wildlife pond recharge, perched flow directions are locally influenced by operation of the chloroform and nitrate pumping wells. 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, and TW4-37, which began pumping during the second quarter of 2015. 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 clearly evident. The lack of a well-defined cone of depression near TW4-4 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. The lack of a well-defined cone of depression near TW4-37 likely results from recent start-up and close proximity to other pumping wells.

Nitrate pumping wells TW4-22, TW4-24, TW4-25, and TWN-2 started pumping during the first quarter of 2013. Water level patterns near these wells are expected to be influenced by the presence of, and the decay of, the groundwater mound associated with the northern wildlife ponds, and by the persistently low water level elevation at TWN-7. By the fourth quarter of 2013, operation of the nitrate pumping system had produced well-defined impacts on water levels. The long-term interaction between the nitrate and chloroform pumping systems is evolving, and changes will be reflected in data collected during routine monitoring.

As discussed above, variable permeability conditions likely contribute to the lack of a well-defined cone of depression near chloroform pumping well TW4-4. Changes in water levels at wells immediately south and southeast (downgradient) 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 and southeast of TW4-4. As will be discussed below, the permeability of the perched zone at TW4-6 and TW4-26, and relatively recently installed wells TW4-29, TW4-30, TW4-31, TW4-33, TW4-34, and TW4-35 is one to two orders of magnitude lower than at TW4-4, and the permeability at TW4-27 is approximately three orders of magnitude lower than at TW4-4. Detecting water level drawdowns in wells immediately south and southeast of TW4-4 resulting from TW4-4 pumping has also been complicated by the general, long-term increase in water levels in this area attributable to past wildlife pond recharge.

Between the fourth quarter of 2007 and the fourth quarter of 2009 (just prior to the start of TW4-4 pumping), water levels at TW4-4 and TW4-6 increased by nearly 2.7 and 2.9 feet at rates of approximately 1.2 feet/year and 1.3 feet/year, respectively. However, the rate of increase in water levels at TW4-6 after the start of pumping at TW4-4 (first quarter of 2010) was reduced to less than 0.5 feet/year suggesting that TW4-6 is within the hydraulic influence of TW4-4.

Since the fourth quarter of 2013, water levels in all wells currently within the chloroform plume south of TW4-4 (TW4-6, TW4-29, and TW4-33) have been trending downward. This downward trend is attributable to the cessation of water delivery to the northern wildlife ponds and pumping. However, until the first quarter of 2016, water level trends were generally upward in many wells located at the margin of the chloroform plume southeast of TW4-4 (TW4-14, TW4-27, TW4-30, and TW4-31). These wells appeared to be responding to past wildlife pond recharge and expansion of the groundwater mound. Since the first quarter of 2016, however, water levels at these wells appear to be stabilizing.

These spatially variable water level trends likely result from pumping conditions, the permeability distribution, and distance from the wildlife ponds. Wells that are relatively hydraulically isolated (due to completion in lower permeability materials or due to intervening lower permeability materials) and that are more distant from pumping wells and the wildlife ponds, are expected to respond more slowly to pumping and reduced recharge than wells that are less hydraulically isolated and are closer to pumping wells and the wildlife ponds. Wells that are more hydraulically isolated will also respond more slowly to changes in pumping.

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 5533.3 feet above mean sea level ["ft amsl"]), is more than 2 feet lower than the water level at TW4-6 (approximately 5535.5 ft amsl) and approximately 7 feet lower than the water level at TW4-4 (approximately 5540.4 ft amsl), even though TW4-4 is pumping. However, water level differences among these wells are diminishing.

The static water levels at wells TW4-14 and downgradient well TW4-27 (installed south of TW4-14 in the fourth quarter of 2011) were similar (within 1 to 2 feet) until the third quarter of 2014; both appeared anomalously low. The current quarterly water level at TW4-27 (approximately 5528.3 ft amsl) is nearly 5 feet lower than the water level at TW4-14 (5533.3 ft amsl). Recent increases in water level differences between TW4-14 and TW4-27 are due to more rapid increases in water levels at TW4-14 resulting from past delivery of water to the northern

wildlife ponds. The rate of water level increase at TW4-27 is smaller than at TW4-14 because TW4-27 is farther downgradient of the ponds.

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 (respectively) 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 (respectively); however chloroform exceeding 70 µg/L has been detected at relatively recently installed temporary perched wells TW4-29 (located south of TW4-27) and TW4-33 (located between TW4-4 and TW4-29).

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 had not been detected at TW4-14. Chloroform had apparently migrated from TW4-4 to TW4-6 and from TW4-6 to TW4-26. This 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 (5534.1 feet amsl) is, however, lower than water levels at adjacent wells TW4-6 (5535.5 feet amsl), and TW4-23 (5537.1 feet amsl).

Hydraulic tests 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 (see Hydro Geo Chem, Inc. [HGC], September 20, 2010: Hydraulic Testing of TW4-4, TW4-6, and TW4-26, White Mesa Uranium Mill, July 2010; and HGC, November 28, 2011: Installation, Hydraulic Testing, and Perched Zone Hydrogeology of Perched Monitoring Well TW4-27, White Mesa Uranium Mill Near Blanding, Utah). Past similarity of water levels at TW4-14 and TW4-27, and the low permeability estimate at TW4-27, suggested that both wells were completed in materials having lower permeability than nearby wells. The low permeability condition likely reduced the rate of long-term water level increase at TW4-14 and TW4-27 compared to nearby wells, yielding water levels that appeared anomalously low. This behavior is consistent with hydraulic test data collected from relatively recently installed wells TW4-29, TW4-30, TW4-31, TW4-33, TW4-34 and TW4-35, which indicate that the permeability of these wells is one to two orders of magnitude higher than the permeability of TW4-27 (see: HGC, January 23, 2014, Contamination Investigation Report, TW4-12 and TW4-27 Areas, White Mesa Uranium Mill Near Blanding, Utah; and HGC, July 1, 2014, Installation and Hydraulic Testing of TW4-35 and TW4-36, White Mesa Uranium Mill Near Blanding, Utah [As-Built Report]). Hydraulic tests also indicate that the permeability at TW4-36 is slightly higher than but comparable to the low permeability at TW4-27, suggesting that TW4-36, TW4-14 and TW4-27 are completed in a continuous low permeability zone.

The low permeability at TW4-14 and TW4-27 is expected to retard the transport of chloroform to these wells (compared to nearby wells). As will be discussed in Section 4.2.3, TW4-14 and TW4-27 remain outside the plume with current quarter chloroform concentrations of approximately 5 µg/L and 2.8 µg/L, respectively. In addition, the relatively low permeability and comparative hydraulic isolation of these wells reduces their responses to changing hydraulic conditions resulting from pumping and reduced wildlife pond recharge.

Chloroform exceeding 70 µg/L detected at TW4-29 and TW4-33 since their relatively recent installation in 2013 indicates that, in addition to migrating south from TW4-4 to TW4-6 and TW4-26, chloroform also migrated along a narrow path to the southeast from the vicinity of TW4-4 to TW4-33 then TW4-29. Such migration was in a direction nearly cross-gradient with respect to the direction of groundwater flow implied by the historic groundwater elevations in this area, which until relatively recently, placed TW4-14 almost directly downgradient of TW4-4. Such migration was historically possible because the water levels at TW4-29 have been lower than the water levels at TW4-4 (and TW4-6). The permeability and historic water level distributions are generally consistent with the apparent nearly cross-gradient migration of chloroform from TW4-4 around the low permeability zone defined by TW4-36, TW4-14, and TW4-27.

Chloroform during the current quarter was detected at approximately 6.8 µg/L at relatively recently installed well TW4-30 (located east and downgradient of TW4-29), and was not detected at relatively recently installed wells TW4-31 (located east of TW4-27), TW4-34 (located south and cross-gradient of TW4-29), nor TW4-35 (located southeast and cross- to downgradient of TW4-29).

Data from existing and relatively recently installed wells indicate that:

1. Chloroform exceeding 70 µg/L at TW4-29 is bounded by concentrations below 70 µg/L at wells TW4-26, TW4-27, TW4-30, TW4-34, and TW4-35. TW4-30 is downgradient of TW4-29; TW4-26 is cross- to upgradient of TW4-29; and TW4-27, TW4-34 and TW4-35 are cross- to downgradient of TW4-29.
2. Chloroform concentrations at TW4-33 that are lower than concentrations at TW4-29, and the likelihood that a pathway exists from TW4-4 to TW4-33 to TW4-29, suggest that concentrations in the vicinity of TW4-33 were likely higher prior to initiation of TW4-4 pumping, and that lower concentrations currently detected at TW4-33 are due to its closer proximity to TW4-4.

Furthermore, TW4-4 pumping is likely to eventually reduce chloroform at both TW4-33 and TW4-29 by cutting off the source. The decrease at TW4-33 is expected to be faster than at TW4-29 because TW4-33 is in closer proximity to TW4-4 pumping. Such behavior is expected by analogy with the decreases in chloroform concentrations that occurred at TW4-6 and TW4-26 once TW4-4 pumping began. Since installation in 2013, however, concentrations at TW4-33 appear to be relatively stable; since the third quarter of 2014, concentrations at TW4-29 appear to be generally increasing.

Relatively stable chloroform at TW4-33 and generally increasing concentrations at TW4-29 suggest that chloroform migration has been arrested at TW4-33 by TW4-4 pumping and that increasing chloroform at downgradient well TW4-29 results from a remnant of the plume that continues to migrate downgradient (toward TW4-30, which bounds to plume to the east). The influence of TW4-4 pumping at the distal end of the plume is consistent with generally decreasing water levels at both TW4-29 and TW4-33.

Detectable chloroform concentrations at TW4-14 (since the fourth quarter of 2014) and TW4-27 (since the third quarter of 2015) are consistent with continued, but slow, downgradient migration of chloroform from the distal end of the plume (defined by TW4-29 and TW4-33) into the low permeability materials penetrated by TW4-14 and TW4-27.

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

The groundwater contour map for the Mill site for the second quarter of 2016, as submitted with the Chloroform Monitoring Report for the second quarter of 2016, is attached under Tab E. Small (<1 foot) changes in water levels were reported at the majority of site wells; water levels and water level contours for the site have not changed significantly since the last quarter except for a few locations.

A comparison of the water table contour maps for the current quarter (third quarter of 2016) to the water table contour maps for the previous quarter (second quarter of 2016) indicates similar patterns of drawdowns associated with the pumping wells. Nitrate pumping wells TW4-22, TW4-24, TW4-25, and TWN-2 were brought into operation during the first quarter of 2013 and their impact on water level patterns has been apparent since the fourth quarter of 2013. Although a large expansion in capture occurred with the addition of chloroform pumping wells TW4-1, TW4-2, TW4-11, TW4-21 and TW4-37 in 2015, a significant cone of depression associated with TW4-37 is not yet evident.

Drawdowns at chloroform pumping well MW-26 and nitrate pumping well TW4-22 increased by more than 2 feet this quarter, with the drawdown at TW4-22 increasing by a substantial 26 feet. Water level changes at other nitrate and chloroform pumping wells were less than 2 feet, although both increases (decreases in drawdown) and decreases (increases in drawdown) occurred. 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. The reported water level for chloroform pumping well TW4-11 is below the depth of the Brushy Basin contact this quarter. Although both increases and decreases in drawdown occurred in pumping wells, the overall apparent capture of the combined pumping system is larger than last quarter primarily due to the relatively large increase in drawdown at TW4-22.

As discussed in Section 4.1.1, pumping at chloroform well 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 clearly evident, likely due to variable permeability conditions near TW4-4 and the persistently low water level at adjacent well TW4-14.

Reported water level decreases of up to 0.75 feet at Piezometers 1, 2, 3A, 4, and 5, TWN-1, and TWN-4 may result from cessation of water delivery to the northern wildlife ponds as discussed in Section 4.1.1 and the consequent continuing decay of the associated perched water mound. Reported water level decreases of approximately 0.67 feet and 0.72 feet at Piezometers 4 and 5, respectively, may also result from reduced recharge at the southern wildlife pond.

The reported water level at MW-20 increased by approximately 3.5 feet, and water levels at MW-37 and TWN-19 decreased by approximately 3.1 and 3.5 feet, respectively. Water level

variability at MW-20 and MW-37 likely results from low permeability and variable intervals between purging/sampling and water level measurement. The decrease at far upgradient well TWN-19 compensates for the reported increase last quarter.

Measurable water was again reported at DR-22. Although DR-22 is typically dry, measurable water has been reported in the bottom of its casing since the second quarter of 2015.

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 F 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, and, since the first half of 2015, wells TW4-1, TW4-2, TW4-11, TW4-21, and TW4-37. 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 for 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 and MW-26. Cones of depression are also typically evident at TW4-19 and TW4-20, but are less apparent this quarter due to the large increase in drawdown at nearby nitrate pumping well TW4-22. MW-4, MW-26, TW4-19 and TW4-20 continue to remove significant quantities of chloroform from the perched zone.

Relatively large cones of depression have developed in the vicinities of wells TW4-1, TW4-2, and TW4-11 which began pumping during the first quarter of 2015; a cone of depression is also evident at TW4-21, which began pumping during the second quarter of 2015. A cone of depression in the vicinity of chloroform pumping well TW4-37, which began pumping during the second quarter of 2015, is not clearly evident. The lack of a well-defined cone of depression near TW4-37 likely results from relatively recent start-up and close proximity to other pumping

wells. Overall, the water level contour maps indicate effective capture of water containing high chloroform concentrations in the vicinities of these pumping wells. As discussed in Section 4.1.1, although chloroform pumping well TW4-4 became operational in 2010, the drawdown associated with TW4-4 is likely less apparent due to variable permeability conditions near TW4-4 and the persistently low water level at adjacent well TW4-14.

Compared to last quarter, both increases and decreases in water levels occurred at nitrate and chloroform pumping wells. The water levels in chloroform pumping wells MW-4, MW-26, TW4-1, TW4-2, and TW4-21 decreased by approximately 1.4, 2.5, 1.4, 1.6, and 1.0 feet respectively, while the water levels in chloroform pumping wells TW4-4, TW4-11, TW4-19, TW4-20 and TW4-37 increased by approximately 0.9, 0.8, 0.5, 1.0, and 0.3 feet, respectively. The water levels in nitrate pumping wells TW4-22 and TW4-24 decreased by approximately 26 feet and 0.3 feet, respectively, while the water levels in nitrate pumping wells TW4-25 and TWN-2 increased by approximately 0.4 and 1.4 feet, respectively. Overall, the apparent capture of the combined pumping systems has increased compared to last quarter, primarily due to the relatively large increase in drawdown at TW4-22.

The capture associated with nitrate pumping wells and chloroform pumping wells added in 2015 is expected to increase over time as water levels continue to decline due to cessation of water delivery to the northern wildlife ponds and continued pumping. Slow development of hydraulic capture in the vicinities of many wells is consistent with and expected based on the relatively low permeability of the perched zone at the site.

The hydraulic capture effectiveness of both chloroform and nitrate pumping systems depends to some extent on the continued productivity of chloroform and nitrate pumping wells. Decreases in productivity have been noted since the third quarter of 2014 in chloroform pumping well TW4-19 and nitrate pumping well TW4-24. The impact of reduced productivity of these wells on chloroform capture was discussed in Attachment N (Tab N) of the third quarter, 2015 report. The report also included a discussion of the effectiveness of chloroform pumping on chloroform capture. 'Background' flow through the chloroform plume was calculated in Attachment N as approximately 3.3 gpm. A more refined 'background' flow calculation of 3.4 gpm was provided in the CACME Report (See HGC, March 31, 2016: Corrective Action Comprehensive Monitoring Evaluation Report, White Mesa Uranium Mill, Near Blanding, Utah).

Pumping from wells within and immediately adjacent to the chloroform plume during the current quarter (from wells MW-4, MW-26, TW4-1, TW4-2, TW4-4, TW4-11, TW4-19, TW4-20, TW4-21, TW4-22, TW4-24, and TW4-37) is approximately 4.5 gpm. This calculation is based on the total volume pumped by these wells over the 90 day quarter (581,560 gallons) and accounts for times that the pumps are off due to insufficient water columns in the wells. Pumping from these wells exceeds the calculated background flow by 1.1 gpm or 32%, and is considered adequate at the present time even with the reduced productivities of some wells. In addition, because of continued reductions in saturated thicknesses and hydraulic gradients resulting from reduced wildlife pond recharge, 'background' flow through the plume is expected to continue to diminish, thereby reducing the pumping needed to control the plume.

Chloroform concentrations at many locations have been or appear to be affected by changes associated with reduced dilution from the wildlife ponds and nitrate pumping. For example, increases in chloroform at TW4-22 and TW4-24 after these wells were converted to nitrate pumping wells are attributable to westward migration of chloroform from the vicinity of TW4-20 toward these wells. The increase in concentration at TW4-8 from non-detect to 100 µg/L in the first quarter of 2014 (and to 522 µg/L this quarter) is likely related to reduced dilution. Although the chloroform concentration in TW4-6 decreased from 486 µg/L to 433 µg/L this quarter, concentrations at TW4-6 have increased from approximately 10 µg/L since the second quarter of 2014. These changes are likely related to both reduced dilution and more westward flow induced by nitrate pumping.

TW4-6 is located immediately south and cross- to downgradient of chloroform pumping well TW4-4. Chloroform concentrations at TW4-6 exceeded 70 µg/L between the first quarter of 2009 and the third quarter of 2010, and remained below 70 µg/L between the fourth quarter of 2010 and the second quarter of 2014. Relatively low permeability and relatively small saturated thickness in the vicinity of TW4-6 limit the rate at which chloroform mass can be removed by pumping. However, pumping at more productive upgradient locations such as TW4-4 enhances mass removal and lowers hydraulic gradients, thereby reducing the rate of downgradient chloroform migration and allowing natural attenuation to be more effective. Pumping at TW4-4 was implemented during the first quarter of 2010 to improve capture downgradient of TW4-4 to the extent allowable by the lower productivity conditions present in this area. The beneficial effect of pumping TW4-4 is demonstrated by the net decreases in TW4-6 chloroform concentrations from 1,000 µg/L to 10.3 µg/L, and in TW4-26 from 13 µg/L to 4.2 µg/L, between the initiation of TW4-4 pumping and the second quarter of 2014. Concentrations at these wells 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 after TW4-4 began pumping does suggest that TW4-6 is within the hydraulic influence of TW4-4. The decline in water levels at TW4-6 since the fourth quarter of 2013 likely reflects the additional influences of cessation of water delivery to the wildlife ponds and the addition of chloroform pumping wells TW4-1, TW4-2, and TW4-11. Regardless of whether TW4-6 can be demonstrated to be within the hydraulic capture of TW4-4, pumping TW4-4 helps to reduce chloroform migration to TW4-6, TW4-26, and other downgradient locations by the mechanisms discussed above.

Likewise, pumping at other productive upgradient locations has a beneficial impact on downgradient chloroform even if the downgradient chloroform is not completely within the hydraulic capture of the productive upgradient well(s). For example, pumping at MW-26 likely reduced chloroform concentrations at TW4-16 from a maximum of 530 µg/L in the second quarter of 2004 to less than 70 µg/L by the fourth quarter of 2005, and maintained concentrations below 70 µg/L until the second quarter of 2014, even though TW4-16 appears to be beyond the hydraulic capture of MW-26. Furthermore, the overall hydraulic capture of the chloroform pumping system has expanded since initiation of pumping at wells TW4-1, TW4-2, TW4-11 TW4-21 and TW4-37 during the first half of 2015. Operation of these additional wells may have reversed the increase in concentration at TW4-16 which dropped from 387 µg/L in the fourth quarter of 2014 to less than 70 µg/L in the second quarter of 2015. Chloroform at TW4-16 was detected at 49 µg/L this quarter.

Chloroform exceeding 70 µg/L was detected in the second quarter of 2013 at relatively recently installed well TW4-29, located south of TW4-27 and east of TW4-26. With respect to historic groundwater flow directions implied by historic groundwater elevations in this area, TW4-29 is positioned generally cross-gradient of TW4-4 and TW4-6. As discussed in Section 4.1.1, chloroform detected at TW4-29 may have migrated around the low permeability area defined by TW4-27, TW4-14 and TW4-36. The apparent migration pathway from TW4-4 to TW4-29 is consistent with chloroform exceeding 70 µg/L detected in the fourth quarter of 2013 at relatively recently installed well TW4-33, located between TW4-4 and TW4-29. Chloroform concentrations at TW4-33 that are lower than concentrations at TW4-29, and the likelihood that a pathway exists from TW4-4 to TW4-33 to TW4-29, suggest that concentrations in the vicinity of TW4-33 were likely higher prior to initiation of TW4-4 pumping. TW4-4 pumping is likely to eventually reduce chloroform at both TW4-33 and TW4-29 by cutting off the source. The impact at TW4-33 is expected to be greater than at TW4-29 because TW4-33 is in closer proximity to TW4-4 pumping. Such behavior is expected by analogy with the decreases in chloroform concentrations at TW4-6 and TW4-26 that occurred once TW4-4 pumping began. However, concentrations at both TW4-29 and TW4-33 were relatively stable (rather than decreasing) for several quarters after installation. Concentrations at TW4-29 appear to be on an upward trend since the third quarter of 2014. As discussed in Section 4.1.1, although decreasing concentration trends at both wells are eventually expected to occur, relatively stable chloroform at TW4-33 and increases in concentration at TW4-29 since the third quarter of 2014 suggest that chloroform migration has been arrested at TW4-33 by TW4-4 pumping and that increasing chloroform at downgradient well TW4-29 results from a remnant of the plume that continues to migrate downgradient (toward TW4-30, which bounds to plume to the east). The influence of TW4-4 pumping at the distal end of the plume is consistent with generally decreasing water levels at both TW4-29 and TW4-33.

In addition, detectable chloroform concentrations at TW4-14 (since the fourth quarter of 2014) and TW4-27 (since the third quarter of 2015) are consistent with continued, but slow, downgradient migration of chloroform from the distal end of the plume into the low permeability materials penetrated by these wells.

Chloroform analytical results from relatively recently installed wells TW4-35 and TW4-36 (as discussed in Section 4.2.3) demonstrate that chloroform is bounded to the southeast of TW4-29 and to the east of TW4-8.

## 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. Details of the gridding procedure used to generate the chloroform isoconcentration map (consistent with Part III.B.2.a through Part III.B.2.c of the GCAP) are provided in Tab L.

### 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 K 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 tables 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-26 and TW4-33;

b) Chloroform concentrations decreased by more than 20% in the following wells compared to last quarter: TW4-4, TW4-5, TW4-16, TW4-19, TW4-20, TW4-22, TW4-24, and TW4-26;

c) Chloroform concentrations have remained within 20% in the following wells compared to last quarter: MW-4, TW4-1, TW4-2, TW4-6, TW4-7, TW4-8, TW4-9, TW4-10, TW4-11, TW4-14, TW4-18, TW4-21, TW4-27, TW4-29, TW4-30, and TW4-37;

d) Chloroform concentrations have remained non-detect in the following wells: MW-32, TW4-3, TW4-12, TW4-13, TW4-23, TW4-25, TW4-28, TW4-31, TW4-32, TW4-34, TW4-35, and TW4-36.

As indicated, chloroform concentrations at many of the wells with detected chloroform were within 20% of the values reported for the wells during the previous quarter, suggesting that variations are within the range typical for sampling and analytical error. Wells MW-26, TW4-4, TW4-5, TW4-16, TW4-19, TW4-20, TW4-22, TW4-24, TW4-26, and TW4-33 had changes in concentration greater than 20%. Of these, MW-26, TW4-4, TW4-19 and TW4-20 are chloroform pumping wells; and TW4-22 and TW4-24 are nitrate pumping wells. TW4-5 is located just outside the plume margin and near chloroform pumping wells TW4-19 and TW4-20; and TW4-16 is located adjacent to chloroform pumping wells TW4-11 and MW-26. Fluctuations in concentrations at both chloroform and nitrate pumping wells and wells adjacent to pumping wells likely result in part from changes in pumping.

TW4-26 is located immediately southwest of the plume boundary and TW4-33 is located just within the southeast boundary of the plume. Fluctuations in concentrations at these wells are expected based on their locations at the plume margins.

Chloroform pumping wells TW4-19, TW4-20 and TW4-37, and nitrate pumping well TW4-22, had the highest detected chloroform concentrations of 6,040, 23,600, 15,900, and 5,840 µg/L,

respectively. Since last quarter, the chloroform concentration in TW4-19 decreased from 12,600 µg/L to 6,040 µg/L; TW4-20 decreased from 33,700 µg/L to 23,600 µg/L; TW4-37 decreased from 16,200 to 15,900 µg/L; and the concentration in nearby pumping well TW4-21 decreased from 545 to 456 µg/L. The chloroform concentration in nitrate pumping well TW4-22 decreased from 8,570 µg/L to 5,840 µg/L. The chloroform concentration in nitrate pumping well TW4-24 decreased from 69.6 to 17.8 µg/L and remains just outside the chloroform plume. Nitrate pumping well TW4-25 remained non-detect for chloroform. TW4-25, located north of TW4-21, bounds the chloroform plume to the north.

Chloroform at TW4-8 (which was non-detect from the first quarter of 2008 through the fourth quarter of 2013) decreased from 595 µg/L to 522 µg/L. TW4-8 is located immediately east of chloroform pumping well MW-4, where chloroform was detected at a concentration of 1,430 µg/L. From the first quarter of 2005 through the fourth quarter of 2013, the plume boundary remained between MW-4 and TW4-8. The occurrence of elevated chloroform at TW4-8 is likely related to its location along the eastern plume boundary immediately east of pumping well MW-4. Changes in the plume boundary near TW4-8 are expected to result from changes in pumping and reduced dilution resulting from cessation of water delivery to the northern wildlife ponds. Chloroform at TW4-8 is bounded to the north by TW4-3 (non-detect), to the northeast by TW4-13 (non-detect), to the east by TW4-36 (non-detect), and to the southeast by TW4-14 (5 µg/L).

Chloroform at relatively recently installed well TW4-29 (located at the southern tip of the plume, to the east of TW4-26 and to the south of TW4-27) increased from 366 µg/L to 401 µg/L. However, chloroform at TW4-30, located immediately downgradient of TW4-29, decreased from approximately 7.2 µg/L to approximately 6.8 µg/L, and chloroform at TW4-14 and TW4-27 decreased from approximately 6.2 µg/L to 5 µg/L, and from approximately 3.2 µg/L to approximately 2.8 µg/L, respectively. These decreases in concentration and the stabilization of water levels at these wells suggest that the ongoing, but slow, downgradient migration of chloroform at these locations may be slowing. Chloroform at TW4-29 is bounded to the north by TW4-27 (2.8 µg/L), to the east by TW4-30 (6.8 µg/L), to the southeast by TW4-35 (non-detect), to the south by TW4-34 (non-detect), and to the west by TW4-26 (4.4 µg/L).

Chloroform at relatively recently installed well TW4-33 (located between TW4-4 and TW4-29) showed an increase in concentration, from approximately 96 µg/L to 121 µg/L. Chloroform at TW4-33 is bounded to the north by TW4-14 (5 µg/), to the east by TW4-27 (2.8 µg/L), to the west by TW4-23 (non-detect), and to the south and west by TW4-26 (4.4 µg/L). This chloroform distribution indicates that the plume southeast of TW4-4 is very narrow compared to more upgradient locations.

The chloroform concentration in TW4-6 decreased from 486 µg/L to 433 µg/L, and remains within the chloroform plume boundary. Concentrations at TW4-6 exceeded 70 µg/L from the first quarter of 2009 through the third quarter of 2010, and then remained below 70 µg/L until the third quarter of 2014. Between initiation of pumping of TW4-4 in the first quarter of 2010 and the second quarter of 2014, concentrations at TW4-6 showed a net decrease from 1,000 µg/L to 10.3 µg/L. TW4-6, installed in the second quarter of 2000, was the most downgradient temporary perched well prior to installation of temporary well TW4-23 in 2007 and temporary well TW4-26 in the second quarter of 2010. TW4-6 remained outside the chloroform plume

between the second quarter of 2000 and the fourth quarter of 2008. TW4-6 likely remained outside the chloroform plume during this time due to a combination of 1) slow rates of downgradient chloroform migration in this area due to low permeability conditions and the effects of upgradient chloroform removal by pumping, and 2) natural attenuation.

The relatively slow rate of chloroform migration in the vicinity of TW4-6 in the past 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 south (downgradient) of TW4-4. Chloroform migration rates in the vicinity of well TW4-26 and relatively recently installed wells TW4-29 and TW4-33 are also expected to be relatively slow due to upgradient pumping and relatively low permeability conditions. By analogy with the decreases in concentration at TW4-6 and TW4-26 that occurred after initiation of TW4-4 pumping, chloroform concentrations at TW4-29 and TW4-33 are expected to eventually trend downward.

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, except for slight contractions near TW4-16 and TW4-24 (both outside the plume this quarter). The chloroform concentration at TW4-9 increased slightly from approximately 76 µg/L to 77 µg/L, and remains just within the plume. Except for the fourth quarter of 2014, TW4-9 was outside the plume prior to the first quarter of 2016. The plume boundary remains between TW4-9 and TW4-12 (which is non-detect for chloroform and cross-gradient of TW4-9). The increase at TW4-9 is attributable to reduced recharge (and dilution) from the northern wildlife ponds.

Nitrate pumping generally caused the western boundary of the northern portion of the chloroform plume to migrate to the west toward TW4-24. Since the first quarter of 2014, TW4-24 has been both inside and outside the plume and remains outside the plume this quarter, likely due to initiation of TW4-37 pumping in the second quarter of 2015 and reduced productivity at TW4-24 (since the third quarter of 2014). Since the second quarter of 2014, generally increased concentrations at TW4-6 and TW4-16 (both of which were within the chloroform plume in the past) indicate that the plume boundary migrated to the southwest and re-incorporated both wells. TW4-6 remains within the plume this quarter and TW4-16 (with a concentration decrease from approximately 93 µg/L to 49 µg/L) is again outside the plume. Increases at these wells beginning in the second quarter of 2014 are likely related to reduced dilution from cessation of water delivery to the northern wildlife ponds and more westerly flow induced by nitrate pumping. However, continued operation of the nitrate pumping system is expected to enhance the capture zone associated with the chloroform pumping system even though nitrate pumping may redistribute chloroform within the plume and cause changes in the plume boundaries. Furthermore, the addition of chloroform wells TW4-1, TW4-2, TW4-11, TW4-21 and TW4-37 to the chloroform pumping network in the first half of 2015 is expected to have a beneficial impact. Generally reduced concentrations at TW4-6 (since the first quarter of 2015) and TW4-16 (since the fourth quarter of 2014) after previous increases are likely the result of initiation of TW4-1, TW4-2, and TW4-11 pumping.

## 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 Stipulated Consent Order (the "SCO") dated December 12, 2012. Because wells TW4-22, TW4-24, and TW4-25 are chloroform program wells, they are included in this report and any chloroform removal realized as part of this pumping is calculated and included in the chloroform quarterly reports.

Beginning on January 14, 2015, EFRI began long term pumping of TW4-1, TW4-2, and TW4-11 and began long term pumping of TW4-21 and TW4-37 on June 9, 2015.

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, and from TW4-22, TW4-24, and TW4-25 on 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, TW4-20, and 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 for 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 TW4-1, TW4-2, TW4-11, TW4-21, TW4-22, TW4-24, TW4-25, TW4-37, and TWN-2 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, TW4-1, TW4-2, TW4-11, TW4-19, TW4-20, TW4-21, TW4-4, TW4-22, TW4-24, TW4-25, TW4-37, and TWN-2 and the monthly Depth to Water monitoring sheets for 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 C.

## 5.4 Pumping Rates and Volumes

Table G-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 TWN-2 is a nitrate program well and is sampled only for nitrate and chloride as required by the nitrate program. Because TWN-2 is not sampled or analyzed for chloroform, the mass of chloroform recovered is not calculated.

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 a holding tank. The water in the holding tank is used in the Mill processes. The pumping rates and volumes for each of the pumping wells are shown in Table G-3.

Unless specifically noted below, no operational problems were observed with the well or pumping equipment during the quarter.

## 5.5 Mass Removed and Plume Residual Mass

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 G-2, which shows the pounds of chloroform that have been removed to date. The mass of chloroform removed from the plume this quarter is approximately 24.7 lb., which is 37% less than the approximately 39.4 lb. removed last quarter. The lower rate of mass removal is attributable to lower chloroform concentrations in pumping wells, and reduced pumping rates this quarter compared to last quarter.

The residual mass of chloroform within the plume is estimated as 1,718 lb. using the methodology described in Appendix A of the GCAP ("Chloroform Plume Mass Calculation

Method"). This is approximately 543 lb. less than last quarter's estimate of 2,261 lb. and is attributable to lower average chloroform concentrations within the plume and slight contraction of the plume near TW4-16 and TW4-24. As per Part III.B.2 of the GCAP, electronic files used in calculating the mass estimate are provided with this report. Details of the procedure are provided in Tab L.

The residual mass is plotted in Figure L.1. Since the third quarter of 2015 the trend is upward, although the current quarter's estimate of 1,718 lb is about the same as the third quarter 2015 estimate of 1,712 lb. Subsequent residual plume mass estimates will be calculated quarterly, added to the graph, and the trendline updated as per Part III.B.3 of the GCAP.

As discussed in the CACME Report, the calculated chloroform mass has been generally increasing since the cessation of water delivery to the two northern wildlife ponds in the first quarter of 2012. These ponds are located immediately upgradient of the chloroform plume. The calculated mass has increased as the plume area and the average concentrations within the plume have increased. The increases in plume area and average concentrations are both attributable to reduced recharge and reduced dilution from chloroform-free wildlife pond seepage.

The decrease in the residual mass estimate this quarter suggests stabilization. In addition, the general increase in residual mass estimates since the first quarter of 2012 was accompanied by a general increase in the rate of mass removed per quarter by pumping, in particular since the addition of 5 new pumping wells in the first half of 2015. Furthermore, although the pumping system is not designed to hydraulically capture the entire plume, the proportion of the mass of the plume under capture has historically been large. The proportion of the mass of the plume under capture during the fourth quarters of 2012, 2013, 2014, and 2015 ranged from approximately 84% to 93%. The approximate proportion of the mass of the plume under capture this quarter is a relatively large 97%. The increase over last quarter's estimate of 91% is attributable primarily to the increase in apparent capture near TW4-22.

### 5.6 Inspections

All of the required inspections were completed and the inspection 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

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

## 7.0 CURRENT COMPLIANCE STATUS

### 7.1 Long Term Chloroform Plume Control

The chloroform plume is currently entirely within the Mill property boundary and is bounded on all sides by wells having chloroform concentrations that are either non-detect or less than 70 µg/L (Tab J). The plume is bounded to the north by TW4-25 (non-detect); to the west and southwest by MW-31 (non-detect), MW-32 (non-detect), TW4-23 (non-detect), TW4-24 (69.6 µg/L), and TW4-26 (approximately 8.2 µg/L); to the east by TW4-3 (non-detect), TW4-5 (approximately 14 µg/L), TW4-12 (non-detect), TW4-13 (non-detect), TW4-14 (approximately 6.2 µg/L), TW4-18 (approximately 60 µg/L), TW4-27 (approximately 3.2 µg/L), TW4-30 (approximately 7.4 µg/L), and TW4-36 (non-detect); to the south by TW4-34 (non-detect); and to the southeast by TW4-35 (non-detect).

Data collected to date indicate there are sufficient chloroform monitoring and pumping wells to effectively define, control, and monitor the plume.

### 7.2 Well Construction, Maintenance and Operation

Part II of the GCAP specifies that EFRI must construct, maintain and operate the chloroform wells in accordance with the specifications delineated therein. No new wells were installed during the quarter and all previously installed wells were installed in accordance with the GCAP requirements. The existing wells were maintained and operated as required. Additional details regarding any specific pumping well operations and maintenance issues noted during the quarter are discussed in Section 5.0 above.

### 7.3 Disposal of Extracted Groundwater

Part II of the GCAP requires that all extracted groundwater be disposed of in the tailings management system or fed in the Mill process. All extracted groundwater was handled as required by the GCAP.

### 7.4 Compliance Well Performance

Part II.G of the GCAP states that an exceedance of the compliance well performance standard is defined as the presence of chloroform in any compliance monitoring well in excess of 70 ug/L for two or more quarters.

The compliance well chloroform concentrations were below the 70 ug/L except for TW4-9. As noted above, an exceedance is defined as the presence of chloroform in any compliance monitoring well in excess of 70 ug/L for two or more quarters. An Exceedance Notice and Plan and Time Schedule for TW4-9 were submitted on August 18, 2016 and September 9, 2016 respectively. The Plan and Time Schedule was approved by DWMRC by letter dated September 19, 2016. Because this exceedance is being addressed no further Exceedance Notices or Plans are required.

## 7.5 Chloroform Plume Monitoring for Wells within 500 Feet of the Property Boundary

Currently there are no compliance wells within 500 feet of the property boundary.

# 8.0 CONCLUSIONS AND RECOMMENDATIONS

The residual mass of chloroform within the plume is estimated as 1,718 lb. using the methodology described in Appendix A of the GCAP ("Chloroform Plume Mass Calculation Method"). This is approximately 543 lb. less than last quarter's estimate of 2,261 lb. and is attributable to lower average chloroform concentrations within the plume and slight contraction of the plume near TW4-16 and TW4-24. The mass of chloroform removed from the plume this quarter is approximately 24.7 lb., which is 37% less than the approximately 39.4 lb. removed last quarter. The lower rate of mass removal is attributable to lower chloroform concentrations in pumping wells and reduced pumping rates this quarter compared to last quarter.

The chloroform plume is currently entirely within the Mill property boundary and is bounded on all sides by wells having chloroform concentrations that are either non-detect or less than 70 µg/L. The plume is bounded to the north by TW4-25; to the west and southwest by MW-31, MW-32, TW4-16, TW4-23, TW4-24, and TW4-26; to the east by TW4-3, TW4-5, TW4-12, TW4-13, TW4-14, TW4-18, TW4-27, TW4-30, and TW4-36; to the south by TW4-34; and to the southeast by TW4-35. Data collected to date indicate there are sufficient chloroform monitoring and pumping wells to effectively define, control, and monitor the plume.

The water level contour maps for the first quarter, 2016 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. Capture in the vicinity of MW-4 was enhanced by start-up of chloroform pumping wells TW4-1, TW4-2, and TW4-11 during the first quarter of 2015. Well-defined capture zones are not clearly evident at chloroform pumping well TW4-37 which began pumping during the second quarter of 2015, or at TW4-4. The capture zone associated with TW4-4 is likely obscured by the low water level at adjacent well TW4-14 and the two orders of magnitude decrease in permeability south of TW4-4. However, between the first quarter of 2010 and the second quarter of 2014, decreases in chloroform concentrations and the rate of water level rise at TW4-6 (located downgradient of TW4-4) likely resulted from TW4-4 pumping. Cones of depression associated with the nitrate pumping wells became evident as of the fourth quarter, 2013, and capture associated with the nitrate pumping is expected to continue to develop. The start-up of chloroform pumping wells TW4-21 and TW4-37 during the second quarter of 2015 is also expected to increase capture and chloroform removal rates. Overall capture this quarter is larger than last quarter, with the increase attributable to the larger drawdown and apparent increase in capture at TW4-22.

'Background' flow through the chloroform plume was calculated as approximately 3.4 gpm as presented in CACME Report (See HGC, March 31, 2016: Corrective Action Comprehensive Monitoring Evaluation Report, White Mesa Uranium Mill, Near Blanding, Utah). Pumping from wells within and immediately adjacent to the chloroform plume during the current quarter (from wells MW-4, MW-26, TW4-1, TW4-2, TW4-4, TW4-11, TW4-19, TW4-20, TW4-21, TW4-22, TW4-24, and TW4-37) is approximately 4.5 gpm, which exceeds the calculated background flow by 1.1 gpm or 32%, and is considered adequate at the present time.

Chloroform concentrations at many of the wells with detected chloroform were within 20% of the values reported during the previous quarter, suggesting that variations are within the range typical for sampling and analytical error. Changes in concentration greater than 20% occurred in wells MW-26, TW4-4, TW4-5, TW4-16, TW4-19, TW4-20, TW4-22, TW4-24, TW4-26, and TW4-33. Of these, MW-26, TW4-4, TW4-19 and TW4-20 are chloroform pumping wells; and TW4-22 and TW4-24 are nitrate pumping wells. TW4-5 is located just outside the plume margin and near chloroform pumping wells TW4-19 and TW4-20; and TW4-16 is located adjacent to chloroform pumping wells TW4-11 and MW-26. Fluctuations in concentrations at both chloroform and nitrate pumping wells and wells adjacent to pumping wells likely result in part from changes in pumping. In addition, changes in concentrations at chloroform wells are expected to result from continued operation of nitrate pumping wells as the capture associated with nitrate pumping expands and flow directions change locally.

TW4-26 is located immediately southwest of the plume boundary and TW4-33 is located just within the southeast boundary of the plume. Fluctuations in concentrations at these wells are expected based on their locations at the plume margins.

Chloroform pumping wells TW4-19, TW4-20 and TW4-37, and nitrate pumping well TW4-22, had the highest detected chloroform concentrations of 6,040, 23,600, 15,900, and 5,840 µg/L, respectively. Since last quarter, the chloroform concentration in TW4-19 decreased from 12,600 µg/L to 6,040 µg/L; TW4-20 decreased from 33,700 µg/L to 23,600 µg/L; TW4-37 decreased from 16,200 to 15,900 µg/L; and the concentration in nearby pumping well TW4-21 decreased from 545 to 456 µg/L. The chloroform concentration in nitrate pumping well TW4-22 decreased from 8,570 µg/L to 5,840 µg/L. The chloroform concentration in nitrate pumping well TW4-24 decreased from 69.6 to 17.8 µg/L and remains just outside the chloroform plume. Nitrate pumping well TW4-25 remained non-detect for chloroform. TW4-25, located north of TW4-21, bounds the chloroform plume to the north.

Chloroform at TW4-8 (which was non-detect from the first quarter of 2008 through the fourth quarter of 2013) decreased from 595 µg/L to 522 µg/L. TW4-8 is located immediately east of chloroform pumping well MW-4, where chloroform was detected at a concentration of 1,430 µg/L. From the first quarter of 2005 through the fourth quarter of 2013, the plume boundary remained between MW-4 and TW4-8. The occurrence of elevated chloroform at TW4-8 is likely related to its location along the eastern plume boundary immediately east of pumping well MW-4. Changes in the plume boundary near TW4-8 are expected to result from changes in pumping and reduced dilution resulting from cessation of water delivery to the northern wildlife ponds. Chloroform at TW4-8 is bounded to the north by TW4-3 (non-detect), to the northeast by TW4-13 (non-detect), to the east by TW4-36 (non-detect), and to the southeast by TW4-14 (5 µg/L).

Detectable chloroform concentrations at TW4-14 (since the fourth quarter of 2014) and TW4-27 (since the third quarter of 2015) are consistent with continued, but slow, downgradient migration of chloroform from the distal end of the plume (defined by TW4-29 and TW4-33) into the low permeability materials penetrated by TW4-14 and TW4-27.

Chloroform at relatively recently installed well TW4-29 (located at the southern tip of the plume, to the east of TW4-26 and to the south of TW4-27) increased from 366 µg/L to 401 µg/L. However, chloroform at TW4-30, located immediately downgradient of TW4-29, decreased from approximately 7.2 µg/L to approximately 6.8 µg/L, and chloroform at TW4-14 and TW4-27 decreased from approximately 6.2 µg/L to 5 µg/L, and from approximately 3.2 µg/L to approximately 2.8 µg/L, respectively. These decreases in concentration and the stabilization of water levels at these wells suggest that the ongoing, but slow, downgradient migration of chloroform at these locations may be slowing. Chloroform at TW4-29 is bounded to the north by TW4-27 (2.8 µg/L), to the east by TW4-30 (6.8 µg/L), to the southeast by TW4-35 (non-detect), to the south by TW4-34 (non-detect), and to the west by TW4-26 (4.4 µg/L).

Chloroform at relatively recently installed well TW4-33 (located between TW4-4 and TW4-29) showed an increase in concentration, from 96 µg/L to 121 µg/L. Chloroform at TW4-33 is bounded to the north by TW4-14 (5 µg/), to the east by TW4-27 (2.8 µg/L), to the west by TW4-23 (non-detect), and to the south and west by TW4-26 (4.4 µg/L). This chloroform distribution indicates that the plume southeast of TW4-4 is very narrow compared to more upgradient locations.

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, except for slight contractions near TW4-16 and TW4-24 (both outside the plume this quarter). The chloroform concentration at TW4-9 increased slightly from approximately 76 µg/L to 77 µg/L, and remains just within the plume. Except for the fourth quarter of 2014, TW4-9 was outside the plume prior to the first quarter of 2016. The plume boundary remains between TW4-9 and TW4-12 (which is non-detect for chloroform and cross-gradient of TW4-9). The increase at TW4-9 is attributable to reduced recharge (and dilution) from the northern wildlife ponds.

Nitrate pumping generally caused the western boundary of the northern portion of the chloroform plume to migrate to the west toward TW4-24. Since the first quarter of 2014, TW4-24 has been both inside and outside the plume and remains outside the plume this quarter, likely due to initiation of TW4-37 pumping in the second quarter of 2015 and reduced productivity at TW4-24 (since the third quarter of 2014). Since the second quarter of 2014, generally increased concentrations at TW4-6 and TW4-16 (both of which were within the chloroform plume in the past) indicate that the plume boundary migrated to the southwest and re-incorporated both wells. TW4-6 remains within the plume this quarter and TW4-16 (with a concentration decrease from approximately 93 µg/L to 49 µg/L) is again outside the plume. Increases at these wells beginning in the second quarter of 2014 are likely related to reduced dilution from cessation of water delivery to the northern wildlife ponds and more westerly flow induced by nitrate pumping. However, continued operation of the nitrate pumping system is expected to enhance the capture zone associated with the chloroform pumping system even though nitrate pumping may redistribute chloroform within the plume and cause changes in the plume boundaries. Furthermore, the addition of chloroform wells TW4-1, TW4-2, TW4-11, TW4-21 and TW4-37 to the chloroform pumping network in the first half of 2015 is expected to have a beneficial impact. Generally reduced concentrations at TW4-6 (since the first quarter of 2015) and TW4-16

(since the fourth quarter of 2014) after previous increases are likely the result of initiation of TW4-1, TW4-2, and TW4-11 pumping.

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, helps to reduce downgradient chloroform migration by removing chloroform mass and reducing hydraulic gradients, thereby allowing natural attenuation to be more effective. Continued operation of chloroform pumping well TW4-4 is recommended to improve capture of chloroform to the extent practical in the southern portion of the plume. The overall decrease in chloroform concentrations at TW4-6 from 1,000 µg/L in the first quarter of 2010 to 10.3 µg/L in the second quarter of 2014 is likely related to pumping at TW4-4. The decrease in the long-term rate of water level rise at TW4-6 once TW4-4 pumping began, which suggests that TW4-6 is within the hydraulic influence of TW4-4, is also consistent with the decrease in chloroform concentrations at TW4-6 between the first quarter of 2010 and the second quarter of 2014. The decreasing trend in water levels beginning in 2014 and the generally decreasing chloroform concentrations since the first quarter of 2015 at TW4-6 are also attributable in part to TW4-4 pumping. Continued operation of TW4-1, TW4-2, TW4-11, TW4-21, and TW4-37 is also recommended. Pumping these wells has increased overall capture and improved chloroform mass removal rates.

Furthermore, because of the influence of TW4-4 pumping, and by analogy with the concentration decreases at TW4-6 and TW4-26 that occurred after initiation of TW4-4 pumping, chloroform concentrations at TW4-29 and TW4-33 are expected to eventually trend downward. Since installation in 2013, however, concentrations at TW4-33 appear to be relatively stable, while, since the third quarter of 2014, concentrations at TW4-29 appear to be on an upward trend. The relatively stable chloroform at TW4-33 and recent increases in concentration at TW4-29 suggest that chloroform migration has been arrested at TW4-33 by TW4-4 pumping and that increasing chloroform at downgradient well TW4-29 results from a remnant of the plume that continues to migrate downgradient (toward TW4-30, which bounds to plume to the east). The influence of TW4-4 pumping at the distal end of the plume is consistent with decreasing water levels at both TW4-29 and TW4-33. Continued evaluation of trends at TW4-29 and TW4-33 will be provided in subsequent quarters.

EFRI and its consultants have raised the issues and potential effects associated with cessation of water delivery to the northern wildlife ponds in March, 2012 during discussions with DWMRC in March 2012 and May 2013. While past recharge from the ponds has helped limit many constituent concentrations within the chloroform and nitrate plumes by dilution, the associated groundwater mounding has increased hydraulic gradients and contributed to plume migration. Since use of the northern wildlife ponds ceased in March 2012, the reduction in recharge and decay of the associated groundwater mound are expected to increase constituent concentrations within the plumes while reducing hydraulic gradients and rates of plume migration. Recent increases in chloroform concentrations at TW4-6, TW4-8, TW4-9, and TW4-16 are likely related in part to reduced dilution.

The net impact of reduced wildlife pond recharge is expected to be beneficial even though it is also expected to result in higher concentrations that will persist until continued mass reduction

via pumping and natural attenuation ultimately reduce concentrations. Temporary increases in chloroform concentrations are judged less important than reduced chloroform migration rates. The actual impacts of reduced recharge on concentrations and migration rates will be defined by continued monitoring.

## 9.0 ELECTRONIC DATA FILES AND FORMAT

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

## 10.0 SIGNATURE AND CERTIFICATION

This document was prepared by Energy Fuels Resources (USA) Inc. on November 17, 2016

Energy Fuels Resources (USA) Inc.

By:

Scott A. Bakken
Senior Director Regulatory Affairs

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.

Scott A. Bakken
Senior Director Regulatory Affairs
Energy Fuels Resources (USA) Inc.

Tables

## Table 1: Summary of Well Sampling for the Period

| Well | Sample Date | Date of Lab Report |
|---|---|---|
| MW-04 | 7/25/2016 | 8/9/2016 |
| TW4-01 | 7/25/2016 | 8/9/2016 |
| TW4-02 | 7/25/2016 | 8/9/2016 |
| TW4-03 | 7/27/2016 | 8/9/2016 |
| TW4-03R | 7/26/2016 | 8/9/2016 |
| TW4-04 | 7/25/2016 | 8/9/2016 |
| TW4-05 | 8/2/2016 | 8/17/2016 |
| TW4-06 | 8/4/2016 | 8/17/2016 |
| TW4-07 | 8/4/2016 | 8/17/2016 |
| TW4-08 | 8/4/2016 | 8/17/2016 |
| TW4-09 | 8/3/2016 | 8/17/2016 |
| TW4-10 | 8/4/2016 | 8/17/2016 |
| TW4-11 | 7/25/2016 | 8/9/2016 |
| TW4-12 | 7/27/2016 | 8/9/2016 |
| TW4-13 | 7/28/2016 | 8/9/2016 |
| TW4-14 | 8/3/2016 | 8/17/2016 |
| MW-26 | 7/25/2016 | 8/9/2016 |
| TW4-16 | 8/3/2016 | 8/17/2016 |
| MW-32 | 8/17/2016 | 8/26/2016 |
| TW4-18 | 8/3/2016 | 8/17/2016 |
| TW4-19 | 7/25/2016 | 8/9/2016 |
| TW4-20 | 7/25/2016 | 8/9/2016 |
| TW4-21 | 7/25/2016 | 8/9/2016 |
| TW4-22 | 7/25/2016 | 8/9/2016 |
| TW4-23 | 8/3/2016 | 8/17/2016 |
| TW4-24 | 7/25/2016 | 8/9/2016 |
| TW4-25 | 7/25/2016 | 8/9/2016 |
| TW4-26 | 8/3/2016 | 8/17/2016 |
| TW4-27 | 8/3/2016 | 8/17/2016 |
| TW4-28 | 7/27/2016 | 8/9/2016 |
| TW4-29 | 8/4/2016 | 8/17/2016 |
| TW4-30 | 8/3/2016 | 8/17/2016 |
| TW4-31 | 7/28/2016 | 8/9/2016 |
| TW4-32 | 7/28/2016 | 8/9/2016 |
| TW4-33 | 8/4/2016 | 8/17/2016 |
| TW4-34 | 8/3/2016 | 8/17/2016 |
| TW4-34R | 8/2/2016 | 8/17/2016 |
| TW4-35 | 8/3/2016 | 8/17/2016 |
| TW4-36 | 7/28/2016 | 8/9/2016 |
| TW4-37 | 7/25/2016 | 8/9/2016 |
| TW4-60 | 7/25/2016 | 8/9/2016 |
| TW4-65 | 7/27/2016 | 8/9/2016 |
| TW4-70 | 8/3/2016 | 8/17/2016 |

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

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

TW4-60 is a DI Field Blank, TW4-65 is a duplicate of TW4-28, and TW4-70 is a duplicate of TW4-23.

Highlighted wells are continuously pumped.

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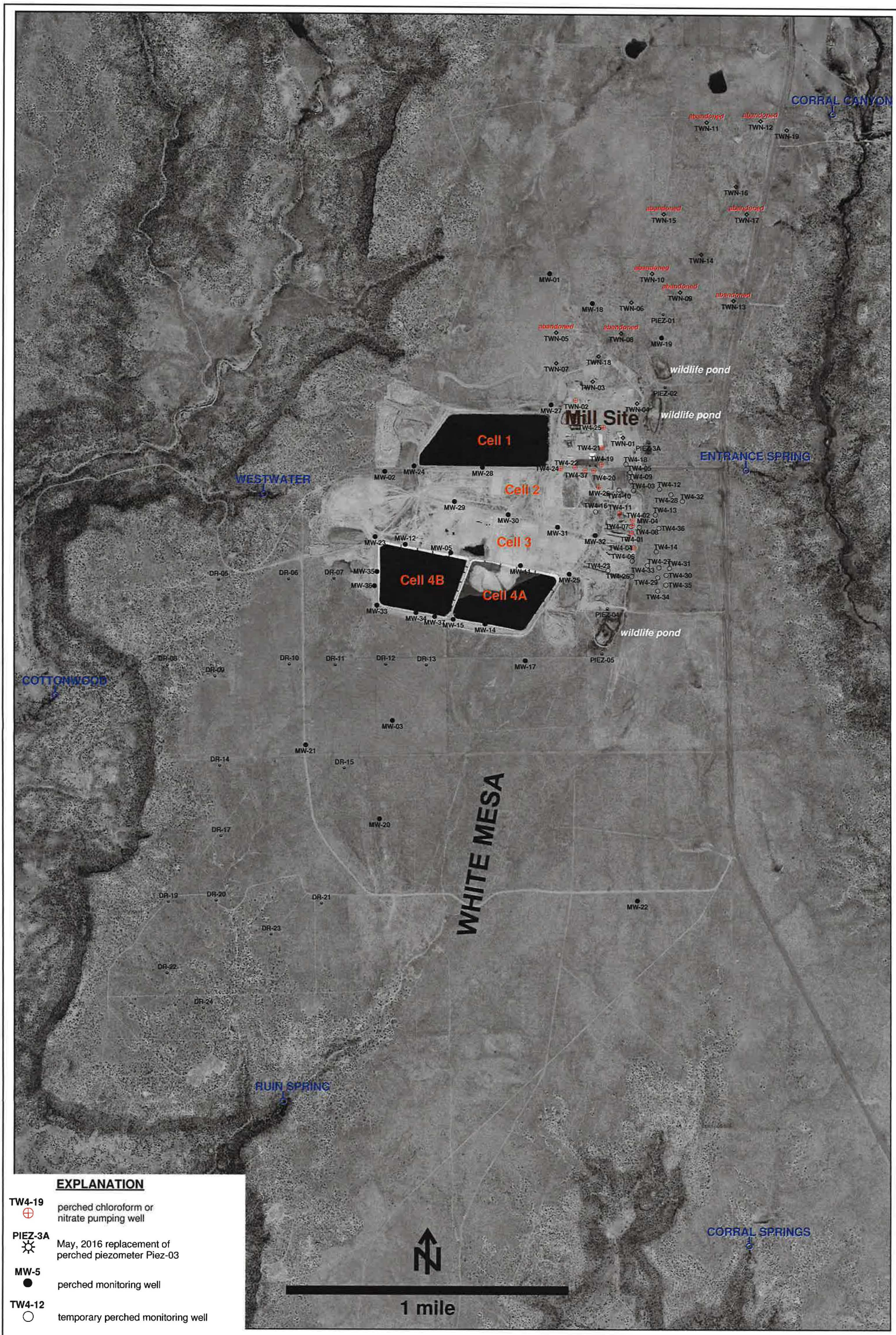
Tab A

Site Plan and Perched Well Locations White Mesa Site




## EXPLANATION

- **TW4-19** ⊕ — perched chloroform or nitrate pumping well
- **PIEZ-3A** ☼ — May, 2016 replacement of perched piezometer Piez-03
- **MW-5** ● — perched monitoring well
- **TW4-12** ○ — temporary perched monitoring well
- **TWN-7** ◇ — temporary perched nitrate monitoring well
- **PIEZ-1** ◒ — perched piezometer
- **RUIN SPRING** — seep or spring

HYDRO GEO CHEM, INC.

# WHITE MESA SITE PLAN SHOWING LOCATIONS OF PERCHED WELLS AND PIEZOMETERS

| APPROVED | DATE | REFERENCE | FIGURE |
|---|---|---|---|
| | | H:/718000/aug16/Uwelloc0616.srf | A-1 |

Tab B

Order of Sampling and Field Data Worksheets

Order of Contamination for 3rd Quarter 2016 Chloroform Purging Event

| Well | Sample time | Chloroform Levels | Rinsate date/time | Water level | Well Depth | |
|---|---|---|---|---|---|---|
| TW4-03 | 7/27/16 0754 | ND | | | 141 | |
| TW4-12 | 7/27/16 0813 | ND | | | 101.5 | |
| TW4-28 | 7/27/16 0820 | ND | | | 107 | |
| TW4-32 | 7/28/16 0800 | ND | | | 115.1 | |
| TW4-13 | 7/28/16 0807 | ND | | | 102.5 | |
| TW4-36 | 7/28/16 0812 | ND | | | 99 | |
| TW4-31 | 7/28/16 0819 | ND | | | 106 | TW4-34R_08022016 0725 |
| TW4-34 | 8/3/16 0807 | ND | | | 97.2 | |
| TW4-35 | 8/3/16 0814 | ND | | | 87.5 | |
| TW4-23 | 8/3/16 0823 | ND | | | 114 | |
| MW-32 | 8/17/16 1235 | ND | | | 132.5 | Bladder pump |
| TW4-25 | 7/25/16 1326 | ND | | | 134.8 | Cont. Pumping |
| TW4-27 | 8/3/16 0834 | 3.16 | | | 96 | |
| TW4-14 | 8/3/16 0840 | 6.15 | | | 93 | |
| TW4-30 | 8/3/16 0850 | 7.38 | | | 92.5 | |
| TW4-26 | 8/3/16 0900 | 8.23 | | | 86 | |
| TW4-05 | 8/3/16 0908 | 13.6 | | | 120 | |
| TW4-18 | 8/3/16 0917 | 60 | | | 137.5 | |
| TW4-24 | 7/25/16 1341 | 69.6 | | | 112.5 | Cont. Pumping |
| TW4-09 | 8/3/16 0926 | 76.2 | | | 120 | |
| TW4-16 | 8/3/16 0933 | 93.4 | | | 142 | |
| TW4-33 | 8/4/16 0758 | 96.1 | | | 87.9 | |
| TW4-29 | 8/4/16 0805 | 366 | | | 93.5 | |
| TW4-06 | 8/4/16 0813 | 486 | | | 97.5 | |
| TW4-21 | 7/25/16 1320 | 545 | | | 121 | |
| TW4-08 | 8/4/16 0819 | 595 | | | 125 | |
| TW4-07 | 8/4/16 0825 | 909 | | | 120 | |
| TW4-01 | 7/25/16 1437 | 1140 | | | 110 | |
| TW4-10 | 8/4/16 0831 | 1510 | | | 111 | |
| MW-04 | 7/25/16 1432 | 1580 | | | 124 | Cont. Pumping |
| TW4-04 | 7/25/16 1445 | 1780 | | | 112 | Cont. Pumping |
| TW4-02 | 7/25/16 1425 | 2070 | | | 120 | |
| MW-26 | 7/25/16 1412 | 2220 | | | 122.5 | Cont. Pumping |
| TW4-11 | 7/25/16 1419 | 3340 | | | 100 | |
| TW4-22 | 7/25/16 1350 | 8570 | | | 113.5 | Cont. Pumping |
| TW4-19 | 7/25/16 1500 | 12600 | | | 125 | Cont. Pumping |
| TW4-37 | 7/25/16 1356 | 16200 | | | 112 | Cont. Pumping |
| TW4-20 | 7/25/16 1404 | 33700 | | | 106 | Cont. Pumping |

TW4-60 D.I. Blank 7/25/16 1300

TW4-65 Duplicate of 28 7/27/16 0820

TW4-70 Duplicate _____

Comments:

Name: _____ Date: _____

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

See instruction

Description of Sampling Event: 3rd Quarter Chloroform 2016

Location (well name): MW-04

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: MW-04_07252016

Date and Time for Purging: 7/25/2016 and Sampling (if different): N/A

Well Purging Equip Used: ☒ pump or ☐ bailer

Well Pump (if other than Bennet): Continuous

Purging Method Used: ☒ 2 casings ☐ 3 casings

Sampling Event: Quarterly Chloroform

Prev. Well Sampled in Sampling Event: TW4-02

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 1000 µMHOS/ cm

Well Depth(0.01ft): 124.00

Depth to Water Before Purging: 81.00

Casing Volume (V) 4" Well: 0 (.653h)
3" Well: 0 · 15.78 (.367h)
15.78

Weather Cond.: Partly Cloudy

Ext'l Amb. Temp. °C (prior sampling event): 33°

| | | | |
|---|---|---|---|
| Time | 1431 | Gal. Purged | 0 |
| Conductance | 1895 | pH | 6.57 |
| Temp. °C | 16.01 | | |
| Redox Potential Eh (mV) | 326 | | |
| Turbidity (NTU) | 5.3 | | |

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

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

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

Volume of Water Purged: 0 gallon(s)

Pumping Rate Calculation

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

Time to evacuate two casing volumes (2V)
T = 2V/Q = 7.34

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

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

Name of Certified Analytical Laboratory if Other Than Energy Labs: 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 | ☒ | ☐ | 3x40 ml | ☐ | ☒ | HCL | ☑ | ☐ |
| Nutrients | ☒ | ☐ | 100 ml | ☐ | ☒ | H2SO4 | ☒ | ☐ |
| Heavy Metals | ☐ | ☐ | 250 ml | ☐ | ☐ | HNO3 | ☐ | ☐ |
| All Other Non Radiologics | ☐ | ☐ | 250 ml | ☐ | ☐ | No Preserv. | ☐ | ☐ |
| Gross Alpha | ☐ | ☐ | 1,000 ml | ☐ | ☐ | HNO3 | ☐ | ☐ |
| Other (specify) | ☒ | ☐ | Sample volume | ☐ | ☒ | | ☐ | ☐ |
| Chloride | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

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

Final Depth: 84.97 Sample Time: 1432

See instruction

Comment

Arrived on site at 1428 Tanner and Garrin present to collect samples
Samples collected at 1432 water was clear
Left site at 1433

MW-04 07-25-2016 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 3rd ~~Quarterly~~ Quarter Chloroform 2016

Location (well name): TW4-01

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-01_07252016

Date and Time for Purging: 7/25/2016 and Sampling (if different): N/A

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

Well Pump (if other than Bennet): Continuous

Purging Method Used: [X] 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: 1000 µMHOS/ cm

Well Depth(0.01ft): 110.00

Depth to Water Before Purging: 84.66

Casing Volume (V) 4" Well: 16.54 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Partly Cloudy

Ext'l Amb. Temp. °C (prior sampling event): 33°

| | | | |
|---|---|---|---|
| Time | 1436 | Gal. Purged | 0 |
| Conductance | 2481 | pH | 6.59 |
| Temp. °C | 16.14 | | |
| Redox Potential Eh (mV) | 346 | | |
| Turbidity (NTU) | 0 | | |

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

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

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

Volume of Water Purged: 0 gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = 16,0

Time to evacuate two casing volumes (2V)
T = 2V/Q = 2,06

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

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

Name of Certified Analytical Laboratory if Other Than Energy Labs: 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 | ☒ | ☐ | 3x40 ml | ☐ | ☒ | HCL | ☐ | ☐ |
| Nutrients | ☒ | ☐ | 100 ml | ☐ | ☒ | H2SO4 | ☒ | ☐ |
| Heavy Metals | ☐ | ☐ | 250 ml | ☐ | ☐ | HNO3 | ☐ | ☐ |
| All Other Non Radiologics | ☐ | ☐ | 250 ml | ☐ | ☐ | No Preserv. | ☐ | ☐ |
| Gross Alpha | ☐ | ☐ | 1,000 ml | ☐ | ☐ | HNO3 | ☐ | ☐ |
| Other (specify) | ☒ | ☐ | Sample volume | ☐ | ☒ | | ☐ | ☒ |
| Chloride | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

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

Final Depth: 104.43 Sample Time: 1437

See instruction

Comment

Arrived on site at 1433 Tanner and Garrin present to collect samples
Samples collected at 1437 water was mostly clear
Left site at 1439

TW4-01 07-25-2016 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 3rd Quarter Chloroform 2016

Location (well name): TW4-02

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-02_07252016

Date and Time for Purging: 7/25/2016 and Sampling (if different): N/A

Well Purging Equip Used: ☑ pump or ☐ bailer

Well Pump (if other than Bennet): Continuous

Purging Method Used: ☑ 2 casings ☐ 3 casings

Sampling Event: Quarterly Chloroform

Prev. Well Sampled in Sampling Event: TW4-11

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 1000 µMHOS/ cm

Well Depth(0.01ft): 120.00

Depth to Water Before Purging: 80.05

Casing Volume (V) 4" Well: 26.08 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Partly Cloudy

Ext'l Amb. Temp. °C (prior sampling event): 33°

| | | | |
|---|---|---|---|
| Time | 1424 | Gal. Purged | 0 |
| Conductance | 3422 | pH | 6.40 |
| Temp. °C | 15.43 | | |
| Redox Potential Eh (mV) | 329 | | |
| Turbidity (NTU) | 8.5 | | |

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

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

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

Volume of Water Purged [0] gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = [17.0]

Time to evacuate two casing volumes (2V)
T = 2V/Q = [3.06]

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

If well evacuated to dryness, number of gallons evacuated [0]

Name of Certified Analytical Laboratory if Other Than Energy Labs [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 | ☒ | ☐ | 3x40 ml | ☐ | ☒ | HCL | ☒ | ☐ |
| Nutrients | ☒ | ☐ | 100 ml | ☐ | ☒ | H2SO4 | ☒ | ☐ |
| Heavy Metals | ☐ | ☐ | 250 ml | ☐ | ☐ | HNO3 | ☐ | ☐ |
| All Other Non Radiologics | ☐ | ☐ | 250 ml | ☐ | ☐ | No Preserv. | ☐ | ☐ |
| Gross Alpha | ☐ | ☐ | 1,000 ml | ☐ | ☐ | HNO3 | ☐ | ☐ |
| Other (specify) | ☒ | ☐ | Sample volume | ☐ | ☒ | | ☐ | ☒ |
| Chloride | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

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

Final Depth [116.04] Sample Time [1425]

See instruction

Comment

Arrived on site at 1421 Tanner and Garrin present to collect samples.
Samples collected at 1425 Water was mostly clear
Left site at 1427

TW4-02 07-25-2016 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 3rd Quarter Chloroform 2016

Location (well name): TW4-03

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-03_07272016

Date and Time for Purging: 7/26/2016 and Sampling (if different): 7/27/2016

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

Well Pump (if other than Bennet): Grundfos

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

Sampling Event: Quarterly Chloroform

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

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 1000 µMHOS/ cm

Well Depth(0.01ft): 141.00

Depth to Water Before Purging: 57.40

Casing Volume (V) 4" Well: 54.59 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Partly Cloudy

Ext'l Amb. Temp. °C (prior sampling event): 29°

| | | | |
|---|---|---|---|
| Time | 1311 | Gal. Purged | 100 |
| Conductance | 1765 | pH | 6.40 |
| Temp. °C | 15.00 | | |
| Redox Potential Eh (mV) | 396 | | |
| Turbidity (NTU) | 20 | | |

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

| | | | |
|---|---|---|---|
| Time | 0754 | Gal. Purged | 0 |
| Conductance | 1715 | pH | 6.25 |
| Temp. °C | 16.50 | | |
| Redox Potential Eh (mV) | | | |
| Turbidity (NTU) | | | |

Before

| | | | |
|---|---|---|---|
| Time | 0755 | Gal. Purged | 0 |
| Conductance | 1724 | pH | 6.27 |
| Temp. °C | 16.43 | | |
| Redox Potential Eh (mV) | | | |
| Turbidity (NTU) | | | |

After

Volume of Water Purged: 100 gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = 10.0

Time to evacuate two casing volumes (2V)
T = 2V/Q = 10.91

Number of casing volumes evacuated (if other than two): 1.83 1.83

If well evacuated to dryness, number of gallons evacuated: 100

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 | ☒ | ☐ | 3x40 ml | ☐ | ☒ | HCL | ☒ | ☐ |
| Nutrients | ☒ | ☐ | 100 ml | ☐ | ☒ | H2SO4 | ☒ | ☐ |
| Heavy Metals | ☐ | ☐ | 250 ml | ☐ | ☐ | HNO3 | ☐ | ☐ |
| All Other Non Radiologics | ☐ | ☐ | 250 ml | ☐ | ☐ | No Preserv. | ☐ | ☐ |
| Gross Alpha | ☐ | ☐ | 1,000 ml | ☐ | ☐ | HNO3 | ☐ | ☐ |
| Other (specify) | ☒ | ☐ | Sample volume | ☐ | ☒ | | ☐ | ☒ |
| Chloride | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

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

Final Depth: 139.03 Sample Time: 0754

See instruction

Comment

Arrived on site at 1257 Tanner and Garrin present for purge. Purge began at 1301 Purged well for a total of 10 minutes. Purged well dry! Purge ended at 1311 water was mostly clear. Left site at 1314

Arrived on site at 0751 Tanner and Garrin present to collect samples. Depth to water was 57.72 samples bailed at 0754 Left site at 0756

TW4-03 07-26-2016 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 3rd Quarter Chloroform 2016

Location (well name): TW4-03R

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-03R_07262016

Date and Time for Purging: 7/26/2016 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: 1000 µMHOS/ cm

Well Depth(0.01ft): 0

Depth to Water Before Purging: 0

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

Weather Cond.: Cloudy

Ext'l Amb. Temp. °C (prior sampling event): 29°

| | | | |
|---|---|---|---|
| Time | 1237 | Gal. Purged | 120 |
| Conductance | 4.1 | pH | 7.56 |
| Temp. °C | 25.77 | | |
| Redox Potential Eh (mV) | 336 | | |
| Turbidity (NTU) | 0 | | |

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

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

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

Volume of Water Purged: 150 gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = 10,0

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

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

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

Name of Certified Analytical Laboratory if Other Than Energy Labs: 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 | ☒ | ☐ | 3x40 ml | ☐ | ☒ | HCL | ☒ | ☐ |
| Nutrients | ☒ | ☐ | 100 ml | ☐ | ☒ | H2SO4 | ☒ | ☐ |
| Heavy Metals | ☐ | ☐ | 250 ml | ☐ | ☐ | HNO3 | ☐ | ☐ |
| All Other Non Radiologics | ☐ | ☐ | 250 ml | ☐ | ☐ | No Preserv. | ☐ | ☐ |
| Gross Alpha | ☐ | ☐ | 1,000 ml | ☐ | ☐ | HNO3 | ☐ | ☐ |
| Other (specify) | ☒ | ☐ | Sample volume | ☐ | ☒ | | ☐ | ☒ |
| Chloride | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

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

Final Depth: 0 Sample Time: 1238

See instruction

Comment

Arrived on site at 1220 Tanner and Garrin present for rinsate. Rinsate began at 1225. Pumped 50 Gallons of Soap water and 100 Gallons of DI water. Samples collected at 1238. Left site at 1241

TW4-03R 07-26-2016 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 3rd Quarter Chloroform 2016

Location (well name): TW4-04

Sampler Name and initials: Tanner Holliday /TH

Field Sample ID: TW4-04_07252016

Date and Time for Purging: 7/25/2016 and Sampling (if different): N/A

Well Purging Equip Used: ☒ pump or ☐ bailer

Well Pump (if other than Bennet): Continuous

Purging Method Used: ☒ 2 casings ☐ 3 casings

Sampling Event: Quarterly Chloroform

Prev. Well Sampled in Sampling Event: TW4-01

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 1000 µMHOS/ cm

Well Depth(0.01ft): 112,00

Depth to Water Before Purging: 73,54

Casing Volume (V) 4" Well: 25.11 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Partly Cloudy

Ext'l Amb. Temp. °C (prior sampling event): 33°

| | | | |
|---|---|---|---|
| Time | 1444 | Gal. Purged | 0 |
| Conductance | 2400 | pH | 6.63 |
| Temp. °C | 16,34 | | |
| Redox Potential Eh (mV) | 363 | | |
| Turbidity (NTU) | 8,0 | | |

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

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

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

Volume of Water Purged: 0 gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = 11.0

Time to evacuate two casing volumes (2V)
T = 2V/Q = 4.56

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

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

Name of Certified Analytical Laboratory if Other Than Energy Labs: 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 | ☒ | ☐ | 3x40 ml | ☐ | ☒ | HCL | ☒ | ☐ |
| Nutrients | ☒ | ☐ | 100 ml | ☐ | ☒ | H2SO4 | ☒ | ☐ |
| Heavy Metals | ☐ | ☐ | 250 ml | ☐ | ☐ | HNO3 | ☐ | ☐ |
| All Other Non Radiologics | ☐ | ☐ | 250 ml | ☐ | ☐ | No Preserv. | ☐ | ☐ |
| Gross Alpha | ☐ | ☐ | 1,000 ml | ☐ | ☐ | HNO3 | ☐ | ☐ |
| Other (specify) | ☒ | ☐ | Sample volume | ☐ | ☒ | | ☐ | ☒ |
| Chloride | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

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

Final Depth: 81.45 Sample Time: 1445

See instruction

Comment

Arrived on site at 1441 Tanner and Garrin present to collect samples
Samples collected at 1445 water was mostly clear
Left site at 1448

TW4-04 07-25-2016 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 3rd Quarter Chloroform 2016

Location (well name): TW4-05

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-05_08032016

Date and Time for Purging: 8/2/2016 and Sampling (if different): 8/3/2016

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: 1000 µMHOS/ cm

Well Depth(0.01ft): 120.00

Depth to Water Before Purging: 65.09

Casing Volume (V) 4" Well: 35.85 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Partly Cloudy

Ext'l Amb. Temp. °C (prior sampling event): 31°

| | | | |
|---|---|---|---|
| Time | 1300 | Gal. Purged | 60 |
| Conductance | 1537 | pH | 6.30 |
| Temp. °C | 15.63 | | |
| Redox Potential Eh (mV) | 501 | | |
| Turbidity (NTU) | 13 | | |

| | | | |
|---|---|---|---|
| Time | 1301 | Gal. Purged | 70 |
| Conductance | 1531 | pH | 6.37 |
| Temp. °C | 15.62 | | |
| Redox Potential Eh (mV) | 501 | | |
| Turbidity (NTU) | 13 | | |

| | | | |
|---|---|---|---|
| Time | 1302 | Gal. Purged | 80 |
| Conductance | 1528 | pH | 6.36 |
| Temp. °C | 15.62 | | |
| Redox Potential Eh (mV) | 500 | | |
| Turbidity (NTU) | 14 | | |

| | | | |
|---|---|---|---|
| Time | 1303 | Gal. Purged | 90 |
| Conductance | 1518 | pH | 6.38 |
| Temp. °C | 15.60 | | |
| Redox Potential Eh (mV) | 500 | | |
| Turbidity (NTU) | 14 | | |

Volume of Water Purged: 90 gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = 10.0

Time to evacuate two casing volumes (2V)
T = 2V/Q = 7.17

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

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

Name of Certified Analytical Laboratory if Other Than Energy Labs: 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 | ☒ | ☐ | 3x40 ml | ☐ | ☒ | HCL | ☒ | ☐ |
| Nutrients | ☒ | ☐ | 100 ml | ☐ | ☒ | H2SO4 | ☒ | ☐ |
| Heavy Metals | ☐ | ☐ | 250 ml | ☐ | ☐ | HNO3 | ☐ | ☐ |
| All Other Non Radiologics | ☐ | ☐ | 250 ml | ☐ | ☐ | No Preserv. | ☐ | ☐ |
| Gross Alpha | ☐ | ☐ | 1,000 ml | ☐ | ☐ | HNO3 | ☐ | ☐ |
| Other (specify) | ☒ | ☐ | Sample volume | ☐ | ☒ | | ☐ | ☒ |
| Chloride | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

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

Final Depth: 66.90 Sample Time: 0908

See instruction

Comment

Arrived on site at 1251. Tanner and Garrin present for purge. Purge began at 1254
Purged well for a total of 9 minutes. Purge ended at ~~1254~~ 1303
water was clear. Left site at 1306
Arrived on site at 0905 Tanner and Garrin present to collect samples. Depth to water was 65.28 samples bailed at 0908 Left site at 0910

TW4-05 08-02-2016 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 3rd Quarter Chloroform 2016

Location (well name): TW4-06

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-06_08042016

Date and Time for Purging: 8/3/2016 and Sampling (if different): 8/4/2016

Well Purging Equip Used: ☒ pump or ☐ bailer

Well Pump (if other than Bennet): Grundfos

Purging Method Used: ☒ 2 casings ☐ 3 casings

Sampling Event: ~~Quarterly Ground~~ Chloroform

Prev. Well Sampled in Sampling Event: TW4-29

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 1000 µMHOS/ cm

Well Depth(0.01ft): 97.50

Depth to Water Before Purging: 72.82

Casing Volume (V) 4" Well: 16.11 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Partly ~~Partly~~ Cloudy

Ext'l Amb. Temp. °C (prior sampling event): 27°

| | | | |
|---|---|---|---|
| Time | 1257 | Gal. Purged | 30 |
| Conductance | 3866 | pH | 6.23 |
| Temp. °C | 15.78 | | |
| Redox Potential Eh (mV) | 547 | | |
| Turbidity (NTU) | 160 | | |

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

| | | | |
|---|---|---|---|
| Time | 0813 | Gal. Purged | 0 |
| Conductance | 3878 | pH | 6.46 |
| Temp. °C | 14.86 | | |
| Redox Potential Eh (mV) | | | |
| Turbidity (NTU) | | | |

Before

| | | | |
|---|---|---|---|
| Time | 0814 | Gal. Purged | 0 |
| Conductance | 3891 | pH | 6.45 |
| Temp. °C | 14.84 | | |
| Redox Potential Eh (mV) | | | |
| Turbidity (NTU) | | | |

After

Volume of Water Purged: 30 gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = 10.0

Time to evacuate two casing volumes (2V)
T = 2V/Q = 3.22

Number of casing volumes evacuated (if other than two): 1.86

If well evacuated to dryness, number of gallons evacuated: 30

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 | ☒ | ☐ | 3x40 ml | ☐ | ☒ | HCL | ☒ | ☐ |
| Nutrients | ☒ | ☐ | 100 ml | ☐ | ☒ | H2SO4 | ☒ | ☐ |
| Heavy Metals | ☐ | ☐ | 250 ml | ☐ | ☐ | HNO3 | ☐ | ☐ |
| All Other Non Radiologics | ☐ | ☐ | 250 ml | ☐ | ☐ | No Preserv. | ☐ | ☐ |
| Gross Alpha | ☐ | ☐ | 1,000 ml | ☐ | ☐ | HNO3 | ☐ | ☐ |
| Other (specify) | ☒ | ☐ | Sample volume | ☐ | ☒ | | ☐ | ☒ |
| Chloride | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

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

Final Depth: 94.13 Sample Time: 0813

See instruction

Comment

Arrived on site at 1251 Tanner and Garrin present for purge. Purge began at 1254 Purged well for a total of 3 minutes. Purged well dry. Purge ended at 1257 water was murky, Left site at 1300
Arrived on site at 0810 Tanner and Garrin present to collect samples. Depth to water was 73.27 samples bailed at 0813 Left site at 0815

TW4-06 08-03-2016 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 3rd Quarter Chloroform 2016

Location (well name): TW4-07

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-07_08042016

Date and Time for Purging: 8/3/2016 and Sampling (if different): 8/4/2016

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: 1000 µMHOS/ cm

Well Depth(0.01ft): 120.00

Depth to Water Before Purging: 76.30

Casing Volume (V) 4" Well: 28.53 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Partly Cloudy

Ext'l Amb. Temp. °C (prior sampling event): 31°

| | | | |
|---|---|---|---|
| Time | 1358 | Gal. Purged | 50 |
| Conductance | 1627 | pH | 6.54 |
| Temp. °C | 15.21 | | |
| Redox Potential Eh (mV) | 505 | | |
| Turbidity (NTU) | 54 | | |

| | | | |
|---|---|---|---|
| Time | 1359 | Gal. Purged | 60 |
| Conductance | 1633 | pH | 6.55 |
| Temp. °C | 15.21 | | |
| Redox Potential Eh (mV) | 504 | | |
| Turbidity (NTU) | 54 | | |

| | | | |
|---|---|---|---|
| Time | 1400 | Gal. Purged | 70 |
| Conductance | 1656 | pH | 6.55 |
| Temp. °C | 15.25 | | |
| Redox Potential Eh (mV) | 504 | | |
| Turbidity (NTU) | 53 | | |

| | | | |
|---|---|---|---|
| Time | 1401 | Gal. Purged | 80 |
| Conductance | 1698 | pH | 6.57 |
| Temp. °C | 15.23 | | |
| Redox Potential Eh (mV) | 504 | | |
| Turbidity (NTU) | 53 | | |

Volume of Water Purged: 80 gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = 10.0

Time to evacuate two casing volumes (2V)
T = 2V/Q = 5.70

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

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

Name of Certified Analytical Laboratory if Other Than Energy Labs: 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 | ☑ | ☐ | 3x40 ml | ☐ | ☑ | HCL | ☑ | ☐ |
| Nutrients | ☑ | ☐ | 100 ml | ☐ | ☑ | H2SO4 | ☑ | ☐ |
| Heavy Metals | ☐ | ☐ | 250 ml | ☐ | ☐ | HNO3 | ☐ | ☐ |
| All Other Non Radiologics | ☐ | ☐ | 250 ml | ☐ | ☐ | No Preserv. | ☐ | ☐ |
| Gross Alpha | ☐ | ☐ | 1,000 ml | ☐ | ☐ | HNO3 | ☐ | ☐ |
| Other (specify) | ☑ | ☐ | Sample volume | ☐ | ☑ | | ☐ | ☑ |
| Chloride | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

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

Final Depth: 116.02 Sample Time: 0825

See instruction

Comment

Arrived on site at 1351. Tanner and Garrin present for purge. Purge began at 1353 Purged well for a total of 8 minutes. Purge ended at 1401. water was mostly clear. Left site at 1403.

Arrived on site at 0822 Tanner and Garrin present to collect samples. Depth to water was 77.86 Samples bailed at 0825 Left site at 0827

TW4-07 08-03-2016 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 3rd Quarter Chloroform 2016

Location (well name): TW4-08

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-08_08042016

Date and Time for Purging: 8/3/2016 and Sampling (if different): 8/4/2016

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: 1000 µMHOS/ cm

Well Depth(0.01ft): 125.00

Depth to Water Before Purging: 79.36

Casing Volume (V) 4" Well: 29.80 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Partly Cloudy

Ext'l Amb. Temp. °C (prior sampling event): 30°

| | | | | | |
|---|---|---|---|---|---|
| Time | 1326 | Gal. Purged | 50 | | |
| Conductance | 5034 | pH | 6.16 | | |
| Temp. °C | 15.23 | | | | |
| Redox Potential Eh (mV) | 544 | | | | |
| Turbidity (NTU) | 11.3 | | | | |

| | | | | | |
|---|---|---|---|---|---|
| Time | 1327 | Gal. Purged | 60 | | |
| Conductance | 5030 | pH | 6.17 | | |
| Temp. °C | 15.21 | | | | |
| Redox Potential Eh (mV) | 544 | | | | |
| Turbidity (NTU) | 11.2 | | | | |

| | | | | | |
|---|---|---|---|---|---|
| Time | 1328 | Gal. Purged | 70 | | |
| Conductance | 5031 | pH | 6.18 | | |
| Temp. °C | 15.22 | | | | |
| Redox Potential Eh (mV) | 543 | | | | |
| Turbidity (NTU) | 11.2 | | | | |

| | | | | | |
|---|---|---|---|---|---|
| Time | 1329 | Gal. Purged | 80 | | |
| Conductance | 5025 | pH | 6.19 | | |
| Temp. °C | 15.21 | | | | |
| Redox Potential Eh (mV) | 543 | | | | |
| Turbidity (NTU) | 11.3 | | | | |

Volume of Water Purged: 80 gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = 10.0

Time to evacuate two casing volumes (2V)
T = 2V/Q = 5.96

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

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

Name of Certified Analytical Laboratory if Other Than Energy Labs: 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 | ☑ | ☐ | 3x40 ml | ☐ | ☑ | HCL | ☑ | ☐ |
| Nutrients | ☑ | ☐ | 100 ml | ☐ | ☑ | H2SO4 | ☑ | ☐ |
| Heavy Metals | ☐ | ☐ | 250 ml | ☐ | ☐ | HNO3 | ☐ | ☐ |
| All Other Non Radiologics | ☐ | ☐ | 250 ml | ☐ | ☐ | No Preserv. | ☐ | ☐ |
| Gross Alpha | ☐ | ☐ | 1,000 ml | ☐ | ☐ | HNO3 | ☐ | ☐ |
| Other (specify) | ☑ | ☐ | Sample volume | ☐ | ☑ | | ☐ | ☒ |
| Chloride | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

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

Final Depth: 85.00 Sample Time: 0819

See instruction

Comment

Arrived on site at 1318, Tanner and Garrin present for purge. Purge began at 1321 Purged well for a total of 8 minutes. Purge ended at 1329. water was mostly clear. Left site at 1331

Arrived on site at 0816 Tanner and Garrin present to collect samples. Depth to water was 79.57 samples bailed at 0819 Left site at 0821

TW4-08 08-03-2016 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 3rd Quarter Chloroform

Location (well name): TW4-09

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-09_08032016

Date and Time for Purging: 8/2/2016 and Sampling (if different): 8/3/2016

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: ~~1005~~ 1000 µMHOS/ cm Well Depth(0.01ft): 120.00

Depth to Water Before Purging: 52.98 Casing Volume (V) 4" Well: 43.76 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Partly Cloudy Ext'l Amb. Temp. °C (prior sampling event): 33°

| | | | |
|---|---|---|---|
| Time | 1409 | Gal. Purged | 70 |
| Conductance | 2505 | pH | 6.20 |
| Temp. °C | 15.32 | | |
| Redox Potential Eh (mV) | 487 | | |
| Turbidity (NTU) | 30 | | |

| | | | |
|---|---|---|---|
| Time | 1410 | Gal. Purged | 80 |
| Conductance | 2488 | pH | 6.23 |
| Temp. °C | 15.30 | | |
| Redox Potential Eh (mV) | 487 | | |
| Turbidity (NTU) | ~~35~~ 30 | | |

| | | | |
|---|---|---|---|
| Time | ~~1411~~ 1411 | Gal. Purged | 90 |
| Conductance | 2498 | pH | 6.23 |
| Temp. °C | 15.29 | | |
| Redox Potential Eh (mV) | 486 | | |
| Turbidity (NTU) | 30 | | |

| | | | |
|---|---|---|---|
| Time | 1412 | Gal. Purged | 100 |
| Conductance | 2494 | pH | 6.24 |
| Temp. °C | 15.29 | | |
| Redox Potential Eh (mV) | 486 | | |
| Turbidity (NTU) | 30 | | |

Volume of Water Purged: 100 gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = 10.0

Time to evacuate two casing volumes (2V)
T = 2V/Q = 8.75

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

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

Name of Certified Analytical Laboratory if Other Than Energy Labs: 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 | ☒ | ☐ | 3x40 ml | ☐ | ☒ | HCL | ☒ | ☐ |
| Nutrients | ☒ | ☐ | 100 ml | ☐ | ☒ | H2SO4 | ☒ | ☐ |
| Heavy Metals | ☐ | ☐ | 250 ml | ☐ | ☐ | HNO3 | ☐ | ☐ |
| All Other Non Radiologics | ☐ | ☐ | 250 ml | ☐ | ☐ | No Preserv. | ☐ | ☐ |
| Gross Alpha | ☐ | ☐ | 1,000 ml | ☐ | ☐ | HNO3 | ☐ | ☐ |
| Other (specify) | ☒ | ☐ | Sample volume | ☐ | ☒ | | ☐ | ☒ |
| Chloride | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

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

Final Depth: 75.50 Sample Time: 0926

See instruction

Comment

Arrived on site at 1400 Tanner and Garrin Present for purge. Purge began at 1402
Purged well for a total of 10 minutes. Purge ended at 1412
water was mostly clear. Left site at 1414
Arrived on site at 0923 Tanner and Garrin present to collect samples. Depth to water was 63.06 samples bailed at 0926 Left site at 0928

TW4-09 08-02-2016 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 3rd Quarter Chloroform 2016

Location (well name): TW4-10

Sampler Name and initials: Tanner Holliday/JJ

Field Sample ID: TW4-10_08042016

Date and Time for Purging: 8/3/2016 and Sampling (if different): 8/4/2016

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: TW4-07

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 1000 µMHOS/ cm

Well Depth(0.01ft): 111.00

Depth to Water Before Purging: 62.55

Casing Volume (V) 4" Well: 31.63 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Partly Cloudy

Ext'l Amb. Temp. °C (prior sampling event): 31°

| | | | | | |
|---|---|---|---|---|---|
| Time | 1430 | Gal. Purged | | | |
| Conductance | 3057 | pH | 5.74 | | |
| Temp. °C | 15.33 | | | | |
| Redox Potential Eh (mV) | 335 | 535 | | | |
| Turbidity (NTU) | 54 | | | | |

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

| | | | | | |
|---|---|---|---|---|---|
| Time | 0831 | Gal. Purged | 0 | | |
| Conductance | 3025 | pH | 6.33 | | |
| Temp. °C | 15.05 | | | | |
| Redox Potential Eh (mV) | | | | | |
| Turbidity (NTU) | | | | | |

Before

| | | | | | |
|---|---|---|---|---|---|
| Time | 0832 (6832) | Gal. Purged | 0 | | |
| Conductance | 3025 | pH | 6.29 | | |
| Temp. °C | 15.00 | | | | |
| Redox Potential Eh (mV) | | | | | |
| Turbidity (NTU) | | | | | |

After

Volume of Water Purged: 60.75 gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = 10.0

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

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

If well evacuated to dryness, number of gallons evacuated: 60.75

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 | ☒ | ☐ | 3x40 ml | ☐ | ☒ | HCL | ☒ | ☐ |
| Nutrients | ☒ | ☐ | 100 ml | ☐ | ☒ | H2SO4 | ☒ | ☐ |
| Heavy Metals | ☐ | ☐ | 250 ml | ☐ | ☐ | HNO3 | ☐ | ☐ |
| All Other Non Radiologics | ☐ | ☐ | 250 ml | ☐ | ☐ | No Preserv. | ☐ | ☐ |
| Gross Alpha | ☐ | ☐ | 1,000 ml | ☐ | ☐ | HNO3 | ☐ | ☐ |
| Other (specify) | ☒ | ☐ | Sample volume | ☐ | ☒ | | ☐ | ☒ |
| Chloride | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

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

Final Depth: 108.98 Sample Time: 0831

See instruction

Comment

Arrived on site at 1422 Tanner and Garrin present for purge. Purge began at 1424 Purged well for a total of 6 minutes 45 seconds. Purged well dry. Purge ended at 1430 water was a little murky

Arrived on site at 0828 Tanner and Garrin present to collect samples. Depth to water was 62.56 samples bailed at 0831 Left site at 0833

Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 3rd Quarter Chloroform 2016

Location (well name): TW4-11

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-11_07252016

Date and Time for Purging: 7/25/2016 and Sampling (if different): N/A

Well Purging Equip Used: ☒ pump or ☐ bailer

Well Pump (if other than Bennet): Continuous

Purging Method Used: ☒ 2 casings ☐ 3 casings

Sampling Event: Quarterly Chloroform

Prev. Well Sampled in Sampling Event: ~~MW-26~~ MW-26

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 1000 µMHOS/ cm

Well Depth(0.01ft): 100.00

Depth to Water Before Purging: 92.52

Casing Volume (V) 4" Well: 4.88 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Partly Cloudy

Ext'l Amb. Temp. °C (prior sampling event): 33°

| | | | |
|---|---|---|---|
| Time | 1418 | Gal. Purged | 0 |
| Conductance | 3778 | pH | 6.35 |
| Temp. °C | 18.17 | | |
| Redox Potential Eh (mV) | 293 | | |
| Turbidity (NTU) | 0 | | |

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

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

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

Volume of Water Purged: 0 gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = 16.0

Time to evacuate two casing volumes (2V)
T = 2V/Q = 0.61

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

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

Name of Certified Analytical Laboratory if Other Than Energy Labs: 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 | ☒ | ☐ | 3x40 ml | ☐ | ☒ | HCL | ☑ | ☐ |
| Nutrients | ☒ | ☐ | 100 ml | ☐ | ☒ | H2SO4 | ☑ | ☐ |
| Heavy Metals | ☐ | ☐ | 250 ml | ☐ | ☐ | HNO3 | ☐ | ☐ |
| All Other Non Radiologics | ☐ | ☐ | 250 ml | ☐ | ☐ | No Preserv. | ☐ | ☐ |
| Gross Alpha | ☐ | ☐ | 1,000 ml | ☐ | ☐ | HNO3 | ☐ | ☐ |
| Other (specify) | ☒ | ☐ | Sample volume | ☐ | ☒ | | ☐ | ☒ |
| Chloride | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

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

Final Depth: 98.39 Sample Time: 1419

See instruction

Comment

Arrived on site at 1415 Tanner and Garrin present to collect samples
Samples collected at 1419 water was clear
Left site at 1420

TW4-11 07-25-2016 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 3rd Quarter Chloroform 2016

Location (well name): TW4-12

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-12_07272016

Date and Time for Purging: 7/26/2016 and Sampling (if different): 7/27/2016

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: 1000 µMHOS/ cm

Well Depth(0.01ft): 101.50

Depth to Water Before Purging: 46.30

Casing Volume (V) 4" Well: 36.04 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Partly Cloudy

Ext'l Amb. Temp. °C (prior sampling event): 31°

| | | | |
|---|---|---|---|
| Time | 1345 | Gal. Purged | 70 |
| Conductance | 1548 | pH | 6.55 |
| Temp. °C | 15.16 | | |
| Redox Potential Eh (mV) | 417 | | |
| Turbidity (NTU) | 29 | | |

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

| | | | |
|---|---|---|---|
| Time | 0813 | Gal. Purged | 0 |
| Conductance | 1548 | pH | 6.57 |
| Temp. °C | 15.45 | | |
| Redox Potential Eh (mV) | | | |
| Turbidity (NTU) | | | |

Before

| | | | |
|---|---|---|---|
| Time | 0814 | Gal. Purged | 0 |
| Conductance | 1549 | pH | 6.59 |
| Temp. °C | 15.43 | | |
| Redox Potential Eh (mV) | | | |
| Turbidity (NTU) | | | |

After

Volume of Water Purged: 70 gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = 10.0

Time to evacuate two casing volumes (2V)
T = 2V/Q = 7.20

Number of casing volumes evacuated (if other than two): 1.94

If well evacuated to dryness, number of gallons evacuated: 70

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 | ☒ | ☐ | 3x40 ml | ☐ | ☒ | HCL | ☒ | ☐ |
| Nutrients | ☒ | ☐ | 100 ml | ☐ | ☒ | H2SO4 | ☒ | ☐ |
| Heavy Metals | ☐ | ☐ | 250 ml | ☐ | ☐ | HNO3 | ☐ | ☐ |
| All Other Non Radiologics | ☐ | ☐ | 250 ml | ☐ | ☐ | No Preserv. | ☐ | ☐ |
| Gross Alpha | ☐ | ☐ | 1,000 ml | ☐ | ☐ | HNO3 | ☐ | ☐ |
| Other (specify) | ☒ | ☐ | Sample volume | ☐ | ☒ | | ☐ | ☒ |
| Chloride | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

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

Final Depth: 99.74 Sample Time: 0813

See instruction

Comment

Arrived on site at 1335. Tanner and Garrin present for purge. Purge began at 1338
Purged well for a total of 7 minutes. Purged well dry! Purge ended at 1345
Water was mostly clear. Left site at 1348.
Arrived on site at 0809 Tanner and Garrin present to collect samples. Depth to water was 46.37 samples bailed at 0813 Left site at 0815

TW4-12 07-26-2016 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 3rd Quarter Chloroform 2016

Location (well name): TW4-13

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-13_07282016

Date and Time for Purging: 7/27/2016 and Sampling (if different): 7/28/2016

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: TW4-32

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 1000 µMHOS/ cm

Well Depth(0.01ft): 102.50

Depth to Water Before Purging: 62.51

Casing Volume (V) 4" Well: 26.11 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Sunny

Ext'l Amb. Temp. °C (prior sampling event): 28°

| | | | | | |
|---|---|---|---|---|---|
| Time | 1028 | Gal. Purged | 30 | | |
| Conductance | 2118 | pH | 6.61 | | |
| Temp. °C | 15.56 | | | | |
| Redox Potential Eh (mV) | 354 | | | | |
| Turbidity (NTU) | 15.0 | | | | |

| | | | | | |
|---|---|---|---|---|---|
| Time | 1029 | Gal. Purged | 40 | | |
| Conductance | 2129 | pH | 6.61 | | |
| Temp. °C | 15.34 | | | | |
| Redox Potential Eh (mV) | 355 | | | | |
| Turbidity (NTU) | 16.0 | | | | |

| | | | | | |
|---|---|---|---|---|---|
| Time | 1030 | Gal. Purged | 50 | | |
| Conductance | 2141 | pH | 6.61 | | |
| Temp. °C | 15.30 | | | | |
| Redox Potential Eh (mV) | 355 | | | | |
| Turbidity (NTU) | 16.0 | | | | |

| | | | | | |
|---|---|---|---|---|---|
| Time | 1031 | Gal. Purged | 60 | | |
| Conductance | 2152 | pH | 6.61 | | |
| Temp. °C | 15.27 | | | | |
| Redox Potential Eh (mV) | 356 | | | | |
| Turbidity (NTU) | 17.0 | | | | |

Volume of Water Purged: 60 gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = 10.0

Time to evacuate two casing volumes (2V)
T = 2V/Q = 5.22

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

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

Name of Certified Analytical Laboratory if Other Than Energy Labs: 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 | ☒ | ☐ | 3x40 ml | ☐ | ☒ | HCL | ☒ | ☐ |
| Nutrients | ☒ | ☐ | 100 ml | ☐ | ☒ | H2SO4 | ☒ | ☐ |
| Heavy Metals | ☐ | ☐ | 250 ml | ☐ | ☐ | HNO3 | ☐ | ☐ |
| All Other Non Radiologics | ☐ | ☐ | 250 ml | ☐ | ☐ | No Preserv. | ☐ | ☐ |
| Gross Alpha | ☐ | ☐ | 1,000 ml | ☐ | ☐ | HNO3 | ☐ | ☐ |
| Other (specify) | ☒ | ☐ | Sample volume | ☐ | ☒ | | ☐ | ☒ |
| Chloride | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

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

Final Depth: 98.11 Sample Time: 0807

See instruction

Comment

Arrived on site at 1023 Tanner and Garrin present for purge. Purge began at 1025 Purged well for a total of 6 minutes. Purge ended at 1031. Water was clear Left site at 1033

Arrived on site at 0804 Tanner and Garrin present to collect samples. Depth to water was 62.59 samples bailed at ~~0809~~ 0807 Left site at 0809

TW4-13 07-27-2016 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 3rd Quarter Chloroform 2016

Location (well name): TW4-14

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-14_08032016

Date and Time for Purging: 8/2/2016 and Sampling (if different): 8/3/2016

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: 1000 µMHOS/ cm

Well Depth(0.01ft): 93.00

Depth to Water Before Purging: 79.55

Casing Volume (V) 4" Well: 8.78 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Partly Cloudy

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

| | | | | | |
|---|---|---|---|---|---|
| Time | 0949 | Gal. Purged | 15 | Time | Gal. Purged |
| Conductance | 5314 | pH | 6.17 | Conductance | pH |
| Temp. °C | 16.52 | | | Temp. °C | |
| Redox Potential Eh (mV) | 499 | | | Redox Potential Eh (mV) | |
| Turbidity (NTU) | 100 | | | Turbidity (NTU) | |
| Time | 0840 | Gal. Purged | 0 | Time | 0841 Gal. Purged 0 |
| Conductance | 5344 | pH | 6.37 | Conductance | 5348 pH 6.38 |
| Temp. °C | 15.10 | | | Temp. °C | 15.09 |
| Redox Potential Eh (mV) | | | | Redox Potential Eh (mV) | |
| Turbidity (NTU) | | | | Turbidity (NTU) | |
| Before | | | | After | |

Volume of Water Purged: 15 gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = 10.0

Time to evacuate two casing volumes (2V)
T = 2V/Q = 1.75

Number of casing volumes evacuated (if other than two): 1.70

If well evacuated to dryness, number of gallons evacuated: 15

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 | ☒ | ☐ | 3x40 ml | ☐ | ☒ | HCL | ☒ | ☐ |
| Nutrients | ☒ | ☐ | 100 ml | ☐ | ☒ | H2SO4 | ☒ | ☐ |
| Heavy Metals | ☐ | ☐ | 250 ml | ☐ | ☐ | HNO3 | ☐ | ☐ |
| All Other Non Radiologics | ☐ | ☐ | 250 ml | ☐ | ☐ | No Preserv. | ☐ | ☐ |
| Gross Alpha | ☐ | ☐ | 1,000 ml | ☐ | ☐ | HNO3 | ☐ | ☐ |
| Other (specify) | ☒ | ☐ | Sample volume | ☐ | ☒ | | ☐ | ☒ |
| Chloride | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

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

Final Depth: 90.83 Sample Time: 0840

See instruction

Comment

Arrived on site at 0945 Tanner and Garrin present for purge. Purge began at 0948 Purged well for a total of 1 minute 30 seconds. Purged well dry! Purge ended at 0949. water was murky. Left site at 0951

Arrived on site at 0837 Tanner and Garrin present to collect samples. Depth to water was 79.66 Samples bailed at 0840 Left site at 0842

TW4-14 08-02-2016 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 3rd Quarter Chloroform 2016

Location (well name): MW-26

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: MW-26_07252016

Date and Time for Purging: 7/25/2016 and Sampling (if different): N/A

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

Well Pump (if other than Bennet): Continuous

Purging Method Used: [X] 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: 1000 µMHOS/ cm

Well Depth(0.01ft): 122.50

Depth to Water Before Purging: 64.70

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

Weather Cond.: Partly Cloudy

Ext'l Amb. Temp. °C (prior sampling event): 33°

| | | | |
|---|---|---|---|
| Time | 1411 | Gal. Purged | 0 |
| Conductance | 3512 | pH | 6.26 |
| Temp. °C | 16.49 | | |
| Redox Potential Eh (mV) | 251 | | |
| Turbidity (NTU) | 7.1 | | |

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

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

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

Volume of Water Purged: 0 gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = 7.6

Time to evacuate two casing volumes (2V)
T = 2V/Q = 9.93

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

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

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

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

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

Final Depth: 81.83 Sample Time: 1412

See instruction

Comment

Arrived on site at 1408 Tanner and Garrin present to collect samples.
Samples collected at 1412 water was clear
Left site at 1414

MW-26 07-25-2016 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 3rd Quarter Chloroform 2016

Location (well name): TW4 16

Sampler Name and initials: Tanner Holliday /TH

Field Sample ID: TW4-16_08032016

Date and Time for Purging: 8/2/2016 and Sampling (if different): 8/3/2016

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

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

Sampling Event: Quarterly Chloroform Prev. Well Sampled in Sampling Event: TW4-09

pH Buffer 7.0: 7.0 pH Buffer 4.0: 4.0

Specific Conductance: 1000 µMHOS/ cm Well Depth(0.01ft): 142.00

Depth to Water Before Purging: 64.09 Casing Volume (V) 4" Well: 50.87 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Partly Cloudy Ext'l Amb. Temp. °C (prior sampling event): 33°

| | | | |
|---|---|---|---|
| Time | 1441 | Gal. Purged | 80 |
| Conductance | 3925 | pH | 6.17 |
| Temp. °C | 15.18 | | |
| Redox Potential Eh (mV) | 497 | | |
| Turbidity (NTU) | 119 | | |

| | | | |
|---|---|---|---|
| Time | 1442 | Gal. Purged | 90 90 |
| Conductance | 3926 | pH | 6.19 |
| Temp. °C | 15.18 | | |
| Redox Potential Eh (mV) | 497 | | |
| Turbidity (NTU) | 16 | | 120 |

| | | | |
|---|---|---|---|
| Time | 1443 | Gal. Purged | 105 |
| Conductance | 3930 | pH | 6.19 |
| Temp. °C | 15.15 | | |
| Redox Potential Eh (mV) | 497 | | |
| Turbidity (NTU) | 121 | | |

| | | | |
|---|---|---|---|
| Time | 1444 1444 | Gal. Purged | 110 |
| Conductance | 3934 | pH | 6.20 |
| Temp. °C | 15.14 | | |
| Redox Potential Eh (mV) | 496 | | |
| Turbidity (NTU) | 123 | | |

Volume of Water Purged: 110 gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = 10.0

Time to evacuate two casing volumes (2V)
T = 2V/Q = 10.17

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

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

Name of Certified Analytical Laboratory if Other Than Energy Labs: 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 | ☒ | ☐ | 3x40 ml | ☐ | ☒ | HCL | ☒ | ☐ |
| Nutrients | ☒ | ☐ | 100 ml | ☐ | ☒ | H2SO4 | ☒ | ☐ |
| Heavy Metals | ☐ | ☐ | 250 ml | ☐ | ☐ | HNO3 | ☐ | ☐ |
| All Other Non Radiologics | ☐ | ☐ | 250 ml | ☐ | ☐ | No Preserv. | ☐ | ☐ |
| Gross Alpha | ☐ | ☐ | 1,000 ml | ☐ | ☐ | HNO3 | ☐ | ☐ |
| Other (specify) | ☒ | ☐ | Sample volume | ☐ | ☒ | | ☐ | ☒ |
| Chloride | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

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

Final Depth: 137.12 Sample Time: 0932

See instruction

Comment

Arrived on site at 1432 Tanner and Garrin present for purge. Purge began at 1433
Purged well for a total of 11 minutes. Purge ended at 1444
Water was a little orange, murky. Left site at 1447
Arrived on site at 0929. Tanner and Garrin present to collect samples. Depth to water was 64.24. samples bailed at 0932 Left site at 0934.

TW4-16 08-02-2016 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 3rd Quarter Chloroform 2016

Location (well name): MW-32

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: MW-32_08172016

Date and Time for Purging: 8/17/2016 and Sampling (if different): N/A

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

Well Pump (if other than Bennet): QED

Purging Method Used: [X] 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: 1000 µMHOS/ cm

Well Depth(0.01ft): 132.50

Depth to Water Before Purging: 77.71

Casing Volume (V) 4" Well: 35.77 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Partly Cloudy

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

| | | | | | |
|---|---|---|---|---|---|
| Time | 1232 | Gal. Purged | 70.95 | | |
| Conductance | 3947 | pH | 6.44 | | |
| Temp. °C | 15.46 | | | | |
| Redox Potential Eh (mV) | 501 | | | | |
| Turbidity (NTU) | 11.8 | | | | |

| | | | | | |
|---|---|---|---|---|---|
| Time | 1233 | Gal. Purged | 71.17 | | |
| Conductance | 3941 | pH | 6.33 | | |
| Temp. °C | 15.33 | | | | |
| Redox Potential Eh (mV) | 493 | | | | |
| Turbidity (NTU) | 12.6 | | | | |

| | | | | | |
|---|---|---|---|---|---|
| Time | 1234 | Gal. Purged | 71.39 | | |
| Conductance | 3921 | pH | 6.30 | | |
| Temp. °C | 15.27 | | | | |
| Redox Potential Eh (mV) | 483 | | | | |
| Turbidity (NTU) | 13.0 | | | | |

| | | | | | |
|---|---|---|---|---|---|
| Time | 1235 | Gal. Purged | 71.61 | | |
| Conductance | 3920 | pH | 6.29 | | |
| Temp. °C | 15.16 | | | | |
| Redox Potential Eh (mV) | 475 | | | | |
| Turbidity (NTU) | 13.0 | | | | |


capturx COMPATIBLE WITH Acrobat FUNCTIONALITY

Volume of Water Purged [71.61] gallon(s)

Pumping Rate Calculation

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

Time to evacuate two casing volumes (2V)
T = 2V/Q = [329.74]

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

If well evacuated to dryness, number of gallons evacuated [0]

Name of Certified Analytical Laboratory if Other Than Energy Labs [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 | ☒ | ☐ | 3x40 ml | ☐ | ☒ | HCL | ☒ | ☐ |
| Nutrients | ☒ | ☐ | 100 ml | ☐ | ☒ | H2SO4 | ☒ | ☐ |
| Heavy Metals | ☐ | ☐ | 250 ml | ☐ | ☐ | HNO3 | ☐ | ☐ |
| All Other Non Radiologics | ☐ | ☐ | 250 ml | ☐ | ☐ | No Preserv. | ☐ | ☐ |
| Gross Alpha | ☐ | ☐ | 1,000 ml | ☐ | ☐ | HNO3 | ☐ | ☐ |
| Other (specify) | ☒ | ☐ | Sample volume | ☐ | ☒ | | ☐ | ☒ |
| Chloride | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

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

Final Depth [83.01] Sample Time [1235]

See instruction

Comment

Arrived on site at 0701. Tanner and Garrin present for purge and sampling event. Purge began at 0705. Purged well for a total of 330 minutes. Purge ended and samples collected at 1235 Water was mostly clear Left site at 1244

[ ] Do not touch this cell (SheetName)


capturx COMPATIBLE WITH Acrobat FUNCTIONALITY

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

See instruction

Description of Sampling Event: 3rd Quarter Chloroform 2016

Location (well name): TW4-18

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-18_08032016

Date and Time for Purging: 8/2/2016 and Sampling (if different): 8/3/2016

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: 1000 µMHOS/ cm

Well Depth(0.01ft): 137.50

Depth to Water Before Purging: 66.00

Casing Volume (V) 4" Well: 46.68 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Partly Cloudy

Ext'l Amb. Temp. °C (prior sampling event): 33°

| | | | |
|---|---|---|---|
| Time | 1334 | Gal. Purged | 80 |
| Conductance | 1997 | pH | 5.93 |
| Temp. °C | 15.70 | | |
| Redox Potential Eh (mV) | 471 | | |
| Turbidity (NTU) | 38 | | |

| | | | |
|---|---|---|---|
| Time | 1335 | Gal. Purged | ~~98~~ 90 90 |
| Conductance | 1993 | pH | 5.95 |
| Temp. °C | 15.71 | | |
| Redox Potential Eh (mV) | 470 | | |
| Turbidity (NTU) | 37 | | |

| | | | |
|---|---|---|---|
| Time | 1336 | Gal. Purged | 100 |
| Conductance | 1970 | pH | 5.96 |
| Temp. °C | 15.72 | | |
| Redox Potential Eh (mV) | 469 | | |
| Turbidity (NTU) | 37 | | |

| | | | |
|---|---|---|---|
| Time | 1337 | Gal. Purged | 110 |
| Conductance | 1964 | pH | 5.96 |
| Temp. °C | 15.72 | | |
| Redox Potential Eh (mV) | 468 | | |
| Turbidity (NTU) | 37 | | |

Volume of Water Purged: 110 gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = 11.0

Time to evacuate two casing volumes (2V)
T = 2V/Q = 9.33

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

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

Name of Certified Analytical Laboratory if Other Than Energy Labs: 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 | ☒ | ☐ | 3x40 ml | ☐ | ☒ | HCL | ☒ | ☐ |
| Nutrients | ☒ | ☐ | 100 ml | ☐ | ☒ | H2SO4 | ☒ | ☐ |
| Heavy Metals | ☐ | ☐ | 250 ml | ☐ | ☐ | HNO3 | ☐ | ☐ |
| All Other Non Radiologics | ☐ | ☐ | 250 ml | ☐ | ☐ | No Preserv. | ☐ | ☐ |
| Gross Alpha | ☐ | ☐ | 1,000 ml | ☐ | ☐ | HNO3 | ☐ | ☐ |
| Other (specify) | ☒ | ☐ | Sample volume | ☐ | ☒ | | ☐ | ☒ |
| Chloride | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

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

Final Depth: 66.28 Sample Time: 0917

See instruction

Comment

Arrived on site at 1324, Tanner and Garrin present for purge. Purge began at 1326
Purged well for a total of 11 minutes, Purge ended at 1326 1337
Water was a little murky. Left site at 1340
Arrived on site at 0914 Tanner and Garrin present to collect samples. Depth to water was 66.05 samples bailed at 0917 Left site at 0919

TW4-18 08-02-2016 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 3rd Quarter Chloroform 2016

Location (well name): TW4-19

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-19_07252016

Date and Time for Purging: 7/25/2016 and Sampling (if different): N/A

Well Purging Equip Used: ☒ pump or ☐ bailer

Well Pump (if other than Bennet): Continuous

Purging Method Used: ☒ 2 casings ☐ 3 casings

Sampling Event: Quarterly Chloroform

Prev. Well Sampled in Sampling Event: TW4-04

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 1000 µMHOS/ cm

Well Depth(0.01ft): 125.00

Depth to Water Before Purging: 64.12

Casing Volume (V) 4" Well: 39.75 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Partly Cloudy

Ext'l Amb. Temp. °C (prior sampling event): 33°

| | | | |
|---|---|---|---|
| Time | 1459 | Gal. Purged | 0 |
| Conductance | 2902 | pH | 6.28 |
| Temp. °C | 17.15 | | |
| Redox Potential Eh (mV) | 408 | | |
| Turbidity (NTU) | 0 | | |

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

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

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

Volume of Water Purged: 0 gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = 18.0

Time to evacuate two casing volumes (2V)
T = 2V/Q = 4.41

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

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

Name of Certified Analytical Laboratory if Other Than Energy Labs: 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 | ☒ | ☐ | 3x40 ml | ☐ | ☒ | HCL | ☒ | ☐ |
| Nutrients | ☒ | ☐ | 100 ml | ☐ | ☒ | H2SO4 | ☒ | ☐ |
| Heavy Metals | ☐ | ☐ | 250 ml | ☐ | ☐ | HNO3 | ☐ | ☐ |
| All Other Non Radiologics | ☐ | ☐ | 250 ml | ☐ | ☐ | No Preserv. | ☐ | ☐ |
| Gross Alpha | ☐ | ☐ | 1,000 ml | ☐ | ☐ | HNO3 | ☐ | ☐ |
| Other (specify) | ☒ | ☐ | Sample volume | ☐ | ☒ | | ☐ | ☒ |
| Chloride | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

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

Final Depth: 68.46 Sample Time: 1500

See instruction

Comment

Arrived on site at 1456 Tanner and Garrin present to collect samples
Samples collected at 1500 water was mostly clear
Left site at 1504

TW4-19 07-25-2016 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 3rd ~~Quarterly~~ Quarter Chloroform 2016

Location (well name): TW4-20

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-20_07252016

Date and Time for Purging: 7/25/2016 and Sampling (if different): N/A

Well Purging Equip Used: ☒ pump or ☐ bailer

Well Pump (if other than Bennet): Continuous

Purging Method Used: ☒ 2 casings ☐ 3 casings

Sampling Event: Quarterly Chloroform

Prev. Well Sampled in Sampling Event: TW4-37

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 1000 µMHOS/ cm

Well Depth(0.01ft): 106.00

Depth to Water Before Purging: 63.80

Casing Volume (V) 4" Well: 27.55 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Partly Cloudy

Ext'l Amb. Temp. °C (prior sampling event): 33°

| | | | |
|---|---|---|---|
| Time | 1403 | Gal. Purged | 0 |
| Conductance | 4736 | pH | 6.31 |
| Temp. °C | 17.20 | | |
| Redox Potential Eh (mV) | 384 | | |
| Turbidity (NTU) | 1.8 | | |

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

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

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

Volume of Water Purged: 0 gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = 6.1

Time to evacuate two casing volumes (2V)
T = 2V/Q = 9.03

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

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

Name of Certified Analytical Laboratory if Other Than Energy Labs: 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 | ☒ | ☐ | 3x40 ml | ☐ | ☒ | HCL | ☒ | ☐ |
| Nutrients | ☒ | ☐ | 100 ml | ☐ | ☒ | H2SO4 | ☒ | ☐ |
| Heavy Metals | ☐ | ☐ | 250 ml | ☐ | ☐ | HNO3 | ☐ | ☐ |
| All Other Non Radiologics | ☐ | ☐ | 250 ml | ☐ | ☐ | No Preserv. | ☐ | ☐ |
| Gross Alpha | ☐ | ☐ | 1,000 ml | ☐ | ☐ | HNO3 | ☐ | ☐ |
| Other (specify) | ☒ | ☐ | Sample volume | ☐ | ☒ | | ☐ | ☒ |
| Chloride | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

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

Final Depth: 72.12 Sample Time: 1404

See instruction

Comment

Arrived on site at 1400 Tanner and Garrin present to collect samples.
Water was collected at 1404 water was mostly clear.
Left site at 1407

TW4-20 07-25-2016 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 3rd Quarter Chloroform 2016

Location (well name): TW4-21

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-21_072520f6

Date and Time for Purging: 7/25/2016 and Sampling (if different): N/A

Well Purging Equip Used: ☒ pump or ☐ bailer

Well Pump (if other than Bennet): Continuous

Purging Method Used: ☒ 2 casings ☐ 3 casings

Sampling Event: Quarterly Chloroform

Prev. Well Sampled in Sampling Event: TW4-60

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 1000 µMHOS/ cm

Well Depth(0.01ft): 121.00

Depth to Water Before Purging: 67.85

Casing Volume (V) 4" Well: 34.70 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Partly Cloudy

Ext'l Amb. Temp. °C (prior sampling event): 32°

| | | | |
|---|---|---|---|
| Time | 1319 | Gal. Purged | 0 |
| Conductance | 4628 | pH | 5.99 |
| Temp. °C | 17.15 | | |
| Redox Potential Eh (mV) | 541 | | |
| Turbidity (NTU) | 8.3 | | |

| | | | |
|---|---|---|---|
| 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: 6 gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = 16.0

Time to evacuate two casing volumes (2V)
T = 2V/Q = 4.33

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

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

Name of Certified Analytical Laboratory if Other Than Energy Labs: 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 | ☒ | ☐ | 3x40 ml | ☒ | ☒ | HCL | ☒ | ☐ |
| Nutrients | ☒ | ☐ | 100 ml | ☒ | ☒ | H2SO4 | ☒ | ☐ |
| Heavy Metals | ☐ | ☐ | 250 ml | ☐ | ☐ | HNO3 | ☐ | ☐ |
| All Other Non Radiologics | ☐ | ☐ | 250 ml | ☐ | ☐ | No Preserv. | ☐ | ☐ |
| Gross Alpha | ☐ | ☐ | 1,000 ml | ☐ | ☐ | HNO3 | ☐ | ☐ |
| Other (specify) | ☒ | ☐ | Sample volume | ☒ | ☒ | | ☐ | ☒ |
| Chloride | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

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

Final Depth: 74.35 Sample Time: 1320

See instruction

Comment

Arrived on site at 1316 Tanner and Garrin present to collect samples.
Samples collected at 1320 Water was mostly clear
Left site at 1322

Continuous Pumping Well

TW4-21 07-25-2016 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 3rd Quarter Chloroform 2016

Location (well name): TW4-22

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-22_07252016

Date and Time for Purging: 7/25/2016 and Sampling (if different): N/A

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

Well Pump (if other than Bennet): Continuous

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

Sampling Event: Quarterly Nitrate

Prev. Well Sampled in Sampling Event: TW4-24

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 1000 µMHOS/ cm

Well Depth(0.01ft): 113.50

Depth to Water Before Purging: 58.18

Casing Volume (V) 4" Well: 36.12 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Partly Cloudy

Ext'l Amb. Temp. °C (prior sampling event): 33°

| | | | |
|---|---|---|---|
| Time | 1349 | Gal. Purged | 0 |
| Conductance | 5712 | pH | 6.36 |
| Temp. °C | 16.21 | | |
| Redox Potential Eh (mV) | 422 | | |
| Turbidity (NTU) | 3.7 | | |

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

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

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

Volume of Water Purged: 0 gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = 18.0

Time to evacuate two casing volumes (2V)
T = 2V/Q = 4.01

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

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

Name of Certified Analytical Laboratory if Other Than Energy Labs: 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 | ☒ | ☐ | 3x40 ml | ☐ | ☒ | HCL | ☒ | ☐ |
| Nutrients | ☒ | ☐ | 100 ml | ☐ | ☒ | H2SO4 | ☒ | ☐ |
| Heavy Metals | ☐ | ☐ | 250 ml | ☐ | ☐ | HNO3 | ☐ | ☐ |
| All Other Non Radiologics | ☐ | ☐ | 250 ml | ☐ | ☐ | No Preserv. | ☐ | ☐ |
| Gross Alpha | ☐ | ☐ | 1,000 ml | ☐ | ☐ | HNO3 | ☐ | ☐ |
| Other (specify) | ☒ | ☐ | Sample volume | ☐ | ☒ | | ☐ | ☒ |
| Chloride | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

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

Final Depth: 98.35 Sample Time: 1350

See instruction

Comment

Arrived on site at 1346 Tanner and Garrin present to collect samples.
Samples collected at 1350 water was clear.
Left site at 1352

TW4-22 07-25-2016 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 3rd Quarter Chloroform 2016

Location (well name): TW4-23

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-23_08032016

Date and Time for Purging: ~~8/3~~ 8/2/2016 and Sampling (if different): 8/3/2016

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: TW4-35

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 1000 µMHOS/ cm

Well Depth(0.01ft): 114.00

Depth to Water Before Purging: 69.96

Casing Volume (V) 4" Well: 28.75 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Cloudy

Ext'l Amb. Temp. °C (prior sampling event): 21°

| | | | |
|---|---|---|---|
| Time | 0849 | Gal. Purged | 60 |
| Conductance | 3748 | pH | 6.26 |
| Temp. °C | 14.49 | | |
| Redox Potential Eh (mV) | 475 | | |
| Turbidity (NTU) | 43 | | |

| | | | |
|---|---|---|---|
| Time | 0850 | Gal. Purged | 70 |
| Conductance | 3747 | pH | 6.25 |
| Temp. °C | 14.46 | | |
| Redox Potential Eh (mV) | 472 | | |
| Turbidity (NTU) | 42 | | |

| | | | |
|---|---|---|---|
| Time | 0851 | Gal. Purged | 80 |
| Conductance | 3747 | pH | 6.25 |
| Temp. °C | 14.46 | | |
| Redox Potential Eh (mV) | 470 | | |
| Turbidity (NTU) | 42 | | |

| | | | |
|---|---|---|---|
| Time | 0852 | Gal. Purged | 90 |
| Conductance | 3747 | pH | 6.24 |
| Temp. °C | 14.48 | | |
| Redox Potential Eh (mV) | 467 | | |
| Turbidity (NTU) | 40 | | |

Volume of Water Purged: 90 gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = 10.0

Time to evacuate two casing volumes (2V)
T = 2V/Q = 5.75

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

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

Name of Certified Analytical Laboratory if Other Than Energy Labs: 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 | ☒ | ☐ | 3x40 ml | ☐ | ☒ | HCL | ☒ | ☐ |
| Nutrients | ☒ | ☐ | 100 ml | ☐ | ☒ | H2SO4 | ☒ | ☐ |
| Heavy Metals | ☐ | ☐ | 250 ml | ☐ | ☐ | HNO3 | ☐ | ☐ |
| All Other Non Radiologics | ☐ | ☐ | 250 ml | ☐ | ☐ | No Preserv. | ☐ | ☐ |
| Gross Alpha | ☐ | ☐ | 1,000 ml | ☐ | ☐ | HNO3 | ☐ | ☐ |
| Other (specify) | ☒ | ☐ | Sample volume | ☐ | ☒ | | ☐ | ☒ |
| Chloride | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

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

Final Depth: 86.40 Sample Time: 0823

See instruction

Comment

Arrived on site at 0840 Tanner and Garrin present for purge. Purge began at 0843 Purged well for a total of 9 minutes. Purge ended at ~~0854~~ 0852 water was an orange color, water slowly was clearing as purge went on. Left site at 0855

Arrived on site at 0820 Tanner and Garrin present to collect samples. Depth to water was 69.98. samples bailed at 0823 Left site at 0825

TW4-23 08-02-2016 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: ~~7/25/~~ 3rd Quarter Chloroform 2016

Location (well name): TW4-24

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-24_07252016

Date and Time for Purging: 7/25/2016 and Sampling (if different): N/A

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

Well Pump (if other than Bennet): Continuous

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

Sampling Event: Quarterly Chloroform

Prev. Well Sampled in Sampling Event: TW4-25

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 1000 µMHOS/ cm

Well Depth(0.01ft): 112.50

Depth to Water Before Purging: 61.85

Casing Volume (V) 4" Well: 33.07 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Partly Cloudy

Ext'l Amb. Temp. °C (prior sampling event): 32°

| | | | |
|---|---|---|---|
| Time | 1340 (1340) | Gal. Purged | 0 |
| Conductance | 8841 | pH | 6.19 |
| Temp. °C | 16.22 | | |
| Redox Potential Eh (mV) | 453 | | |
| Turbidity (NTU) | 25 | | |

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

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

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

Volume of Water Purged: 0 gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = 16,0

Time to evacuate two casing volumes (2V)
T = 2V/Q = 4,13

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

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

Name of Certified Analytical Laboratory if Other Than Energy Labs: 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 | ☒ | ☐ | 3x40 ml | ☐ | ☒ | HCL | ☒ | ☐ |
| Nutrients | ☒ | ☐ | 100 ml | ☐ | ☒ | H2SO4 | ☒ | ☐ |
| Heavy Metals | ☐ | ☐ | 250 ml | ☐ | ☐ | HNO3 | ☐ | ☐ |
| All Other Non Radiologics | ☐ | ☐ | 250 ml | ☐ | ☐ | No Preserv. | ☐ | ☐ |
| Gross Alpha | ☐ | ☐ | 1,000 ml | ☐ | ☐ | HNO3 | ☐ | ☐ |
| Other (specify) | ☒ | ☐ | Sample volume | ☐ | ☒ | | ☐ | ☒ |
| Chloride | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

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

Final Depth: 69,98 Sample Time: 1341

See instruction

Comment

Arrived on site at 1336 Tanner and Garrin present to collect samples.
Samples collected at 1341 water was mostly clear
Left site at 1345

TW4-24 07-25-2016 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 3rd Quarter Chloroform 2016

Location (well name): TW4-25

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-25_07252016

Date and Time for Purging: 7/25/2016 and Sampling (if different): N/A

Well Purging Equip Used: ☒ pump or ☐ bailer

Well Pump (if other than Bennet): Continuous

Purging Method Used: ☒ 2 casings ☐ 3 casings

Sampling Event: Quarterly Chloroform

Prev. Well Sampled in Sampling Event: TW4-21

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 1000 µMHOS/ cm

Well Depth(0.01ft): 134.80

Depth to Water Before Purging: 64.89

Casing Volume (V) 4" Well: 45.65 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Partly Cloudy

Ext'l Amb. Temp. °C (prior sampling event): 32°

| | | | |
|---|---|---|---|
| Time | 1325 | Gal. Purged | ~~135~~ 0 0 |
| Conductance | 2820 | pH | 6.42 |
| Temp. °C | 16.54 | | |
| Redox Potential Eh (mV) | 479 | | |
| Turbidity (NTU) | 5.3 | | |

| | | | |
|---|---|---|---|
| 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: 6 gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = 14.4

Time to evacuate two casing volumes (2V)
T = 2V/Q = 6.34

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

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

Name of Certified Analytical Laboratory if Other Than Energy Labs: 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 | ☒ | ☐ | 3x40 ml | ☐ | ☒ | HCL | ☒ | ☐ |
| Nutrients | ☒ | ☐ | 100 ml | ☐ | ☒ | H2SO4 | ☒ | ☐ |
| Heavy Metals | ☐ | ☐ | 250 ml | ☐ | ☐ | HNO3 | ☐ | ☐ |
| All Other Non Radiologics | ☐ | ☐ | 250 ml | ☐ | ☐ | No Preserv. | ☐ | ☐ |
| Gross Alpha | ☐ | ☐ | 1,000 ml | ☐ | ☐ | HNO3 | ☐ | ☐ |
| Other (specify) | ☒ | ☐ | Sample volume | ☐ | ☒ | | ☐ | ☒ |
| Chloride | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

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

Final Depth: 105.12 Sample Time: 1326

See instruction

Comment

Arrived on site at 1323 Tanner and Garrin present to collect samples
Samples collected at 1326 Water was clear
Left site at 1331

TW4-25 07-25-2016 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 3rd Quarter Chloroform 2016

Location (well name): TW4-26

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-26_08032016

Date and Time for Purging: 8/2/2016 and Sampling (if different): 8/3/2016

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: TW4-30

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 1000 µMHOS/ cm

Well Depth(0.01ft): 86.00

Depth to Water Before Purging: 67.23

Casing Volume (V) 4" Well: 12.25 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Cloudy

Ext'l Amb. Temp. °C (prior sampling event): 28°

| | | | | | |
|---|---|---|---|---|---|
| Time | 1229 | Gal. Purged | 20 | | |
| Conductance | 6428 | pH | 3.71 | | |
| Temp. °C | 16.41 | | | | |
| Redox Potential Eh (mV) | 612 | | | | |
| Turbidity (NTU) | 22 | | | | |

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

| | | | | | |
|---|---|---|---|---|---|
| Time | 0900 | Gal. Purged | 0 | | |
| Conductance | 6547 | pH | 4.11 | | |
| Temp. °C | 15.53 | | | | |
| Redox Potential Eh (mV) | | | | | |
| Turbidity (NTU) | | | | | |

Before

| | | | | | |
|---|---|---|---|---|---|
| Time | 0901 | Gal. Purged | 0 | | |
| Conductance | 6527 | pH | 4.08 | | |
| Temp. °C | 15.50 | | | | |
| Redox Potential Eh (mV) | | | | | |
| Turbidity (NTU) | | | | | |

After

Volume of Water Purged: 20 gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = 10.0

Time to evacuate two casing volumes (2V)
T = 2V/Q = 2.45

Number of casing volumes evacuated (if other than two): 1.63

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

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 | ☒ | ☐ | 3x40 ml | ☐ | ☒ | HCL | ☒ | ☐ |
| Nutrients | ☒ | ☐ | 100 ml | ☐ | ☒ | H2SO4 | ☒ | ☐ |
| Heavy Metals | ☐ | ☐ | 250 ml | ☐ | ☐ | HNO3 | ☐ | ☐ |
| All Other Non Radiologics | ☐ | ☐ | 250 ml | ☐ | ☐ | No Preserv. | ☐ | ☐ |
| Gross Alpha | ☐ | ☐ | 1,000 ml | ☐ | ☐ | HNO3 | ☐ | ☐ |
| Other (specify) | ☒ | ☐ | Sample volume | ☐ | ☒ | | ☐ | ☒ |
| Chloride | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

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

Final Depth: 83.57 Sample Time: 0900

See instruction

Comment

Arrived on site at 1224 Tanner and Garrin present for purge. Purge began at 1227 Purged well for a total of 2 minutes. Purged well dry. Purge ended at 1229 water was mostly clear. Left site at 1232

Arrived on site at 0856. Tanner and Garrin present to collect samples. Depth to water was 67.45. Samples bailed at 0900 Left site at 0902

TW4-26 08-02-2016 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 3rd Quarter Chloroform 2016

Location (well name): TW4-27

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-27_08032016

Date and Time for Purging: 8/2/2016 and Sampling (if different): 8/3/2016

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: 1000 µMHOS/ cm

Well Depth(0.01ft): 96.00

Depth to Water Before Purging: 79.57

Casing Volume (V) 4" Well: 10.72 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Cloudy

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

| | | | | | |
|---|---|---|---|---|---|
| Time | 0920 | Gal. Purged | 15 | | |
| Conductance | 5351 | pH | 6.21 | | |
| Temp. °C | 16.47 | | | | |
| Redox Potential Eh (mV) | 485 | | | | |
| Turbidity (NTU) | 42 | | | | |

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

| | | | | | |
|---|---|---|---|---|---|
| Time | 0834 | Gal. Purged | 0 | | |
| Conductance | 5285 | pH | 6.26 | | |
| Temp. °C | 15.27 | | | | |
| Redox Potential Eh (mV) | | | | | |
| Turbidity (NTU) | | | | | |

Before

| | | | | | |
|---|---|---|---|---|---|
| Time | 0835 | Gal. Purged | 0 | | |
| Conductance | 5296 | pH | 6.27 | | |
| Temp. °C | 15.25 | | | | |
| Redox Potential Eh (mV) | | | | | |
| Turbidity (NTU) | | | | | |

After

Volume of Water Purged: 15 gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = 10.0

Time to evacuate two casing volumes (2V)
T = 2V/Q = 2.14

Number of casing volumes evacuated (if other than two): 1.39

If well evacuated to dryness, number of gallons evacuated: 15

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 | ☒ | ☐ | 3x40 ml | ☐ | ☒ | HCL | ☒ | ☐ |
| Nutrients | ☒ | ☐ | 100 ml | ☐ | ☒ | H2SO4 | ☒ | ☐ |
| Heavy Metals | ☐ | ☐ | 250 ml | ☐ | ☐ | HNO3 | ☐ | ☐ |
| All Other Non Radiologics | ☐ | ☐ | 250 ml | ☐ | ☐ | No Preserv. | ☐ | ☐ |
| Gross Alpha | ☐ | ☐ | 1,000 ml | ☐ | ☐ | HNO3 | ☐ | ☐ |
| Other (specify) | ☒ | ☐ | Sample volume | ☐ | ☒ | | ☐ | ☒ |
| Chloride | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

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

Final Depth: 94.02 Sample Time: 0834

See instruction

Comment

Arrived on site at 0916. Tanner and Garrin present for purge. Purge began at 0919. Purged well for a total of 1 minute 30 seconds. Purged well dry. Purge ended at 0920. Water was a little murky. Left site at 0923.

Arrived on site at 0831 Tanner and Garrin present to collect samples. Depth to water was 79.91 samples bailed at 0834 Left site at 0836

TW4-27 08-02-2016 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 3rd Quarter Chloroform 2016

Location (well name): TW4-28

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-28_07272016

Date and Time for Purging: 7/26/2016 and Sampling (if different): 7/27/2016

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: TW4-17

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 1000 µMHOS/ cm

Well Depth(0.01ft): 107.00

Depth to Water Before Purging: 40.30

Casing Volume (V) 4" Well: 43.55 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Partly Cloudy

Ext'l Amb. Temp. °C (prior sampling event): 32°

| | | | |
|---|---|---|---|
| Time | 1421 | Gal. Purged | 60 |
| Conductance | 1458 | pH | 6.41 |
| Temp. °C | 15.10 | | |
| Redox Potential Eh (mV) | 439 | | |
| Turbidity (NTU) | 41 | | |

| | | | |
|---|---|---|---|
| Time | 1422 | Gal. Purged | 70 |
| Conductance | 1458 | pH | 6.47 |
| Temp. °C | 15.09 | | |
| Redox Potential Eh (mV) | 438 | | |
| Turbidity (NTU) | 39 | | |

| | | | |
|---|---|---|---|
| Time | 1423 | Gal. Purged | 80 |
| Conductance | 1457 | pH | 6.53 |
| Temp. °C | 15.09 | | |
| Redox Potential Eh (mV) | 437 | | |
| Turbidity (NTU) | 38 | | |

| | | | |
|---|---|---|---|
| Time | 1424 | Gal. Purged | 90 |
| Conductance | 1457 | pH | 6.57 |
| Temp. °C | 15.07 | | |
| Redox Potential Eh (mV) | 436 | | |
| Turbidity (NTU) | 36 | | |

Volume of Water Purged: 90 gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = 10.0

Time to evacuate two casing volumes (2V)
T = 2V/Q = 8.71

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

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

Name of Certified Analytical Laboratory if Other Than Energy Labs: 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 | ☒ | ☐ | 3x40 ml | ☐ | ☒ | HCL | ☒ | ☐ |
| Nutrients | ☒ | ☐ | 100 ml | ☐ | ☒ | H2SO4 | ☒ | ☐ |
| Heavy Metals | ☐ | ☐ | 250 ml | ☐ | ☐ | HNO3 | ☐ | ☐ |
| All Other Non Radiologics | ☐ | ☐ | 250 ml | ☐ | ☐ | No Preserv. | ☐ | ☐ |
| Gross Alpha | ☐ | ☐ | 1,000 ml | ☐ | ☐ | HNO3 | ☐ | ☐ |
| Other (specify) | ☒ | ☐ | Sample volume | ☐ | ☒ | | ☐ | ☒ |
| Chloride | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

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

Final Depth: 86.50 Sample Time: 0820

See instruction

Comment

Arrived on site at 1412. Tanner and Garrin present for purge. Purge began at 1415 Purged well for a total of 9 minutes. Purge ended at 1424. water was a little milky white but slowly cleared. Left site at 1428
Arrived on site at 0817 Tanner and Garrin present to collect samples. Depth to water was 40.38. Samplas bailed at 0820 Left site at 0824

TW4-28 07-26-2016 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 3rd Quarter Chloroform 2016

Location (well name): TW4-29

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-29_08042016

Date and Time for Purging: 8/3/2016 and Sampling (if different): 8/4/2016

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

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

Sampling Event: Quarterly Chloroform  Prev. Well Sampled in Sampling Event: TW4-33

pH Buffer 7.0: 7.0  pH Buffer 4.0: 4.0

Specific Conductance: 1000 µMHOS/ cm  Well Depth(0.01ft): 93.50

Depth to Water Before Purging: 74.14  Casing Volume (V) 4" Well: 12.64 (.653h)
3" Well: 0 (.367h)

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

| | | | |
|---|---|---|---|
| Time | 1218 | Gal. Purged | 20 |
| Conductance | 4302 | pH | 6.20 |
| Temp. °C | 16.32 | | |
| Redox Potential Eh (mV) | 562 | | |
| Turbidity (NTU) | 39 | | |

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

| | | | |
|---|---|---|---|
| Time | 0805 | Gal. Purged | 0 |
| Conductance | 4353 | pH | 6.33 |
| Temp. °C | 15.20 | | |
| Redox Potential Eh (mV) | | | |
| Turbidity (NTU) | | | |

Before

| | | | |
|---|---|---|---|
| Time | 0806 | Gal. Purged | 0 |
| Conductance | 4368 | pH | 6.34 |
| Temp. °C | 15.10 | | |
| Redox Potential Eh (mV) | | | |
| Turbidity (NTU) | | | |

After

Volume of Water Purged: 20 gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = 10.0

Time to evacuate two casing volumes (2V)
T = 2V/Q = 2.52

Number of casing volumes evacuated (if other than two): 1.58

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

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 | ☒ | ☐ | 3x40 ml | ☐ | ☒ | HCL | ☑ | ☐ |
| Nutrients | ☒ | ☐ | 100 ml | ☐ | ☒ | H2SO4 | ☑ | ☐ |
| Heavy Metals | ☐ | ☐ | 250 ml | ☐ | ☐ | HNO3 | ☐ | ☐ |
| All Other Non Radiologics | ☐ | ☐ | 250 ml | ☐ | ☐ | No Preserv. | ☐ | ☐ |
| Gross Alpha | ☐ | ☐ | 1,000 ml | ☐ | ☐ | HNO3 | ☐ | ☐ |
| Other (specify) | ☒ | ☐ | Sample volume | ☐ | ☒ | | ☐ | ☒ |
| Chloride | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

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

Final Depth: 91.32 Sample Time: 0805

See instruction

Comment

Arrived on site at 1214 Tanner and Garrin present for purge. Purge began at 1216 Purged well for a total of 2 minutes. Purged well dry! Purge ended at 1218. Water was a little murky. Left site at 1221

Arrived on site at 0802 Tanner and Garrin present to collect samples. Depth to Water was 74.10 Samples bailed at 0805 Left site at 0807

TW4-29 08-03-2016 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 3rd Quarter Chloroform 2016

Location (well name): TW4-30

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-30_08032016

Date and Time for Purging: 8/2/2016 and Sampling (if different): 8/3/2016

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

Well Pump (if other than Bennet): Grundfos

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

Sampling Event: Quarterly Chloroform

Prev. Well Sampled in Sampling Event: TW4-27

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 1000 µMHOS/ cm

Well Depth(0.01ft): 92.50

Depth to Water Before Purging: 75.75

Casing Volume (V) 4" Well: 10.93 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Partly Cloudy

Ext'l Amb. Temp. °C (prior sampling event): 26°

| | | | |
|---|---|---|---|
| Time | 1200 | Gal. Purged | 20 |
| Conductance | 3718 | pH | 5.11 |
| Temp. °C | 25.03 | | |
| Redox Potential Eh (mV) | 558 | | |
| Turbidity (NTU) | 55.0 | | |

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

| | | | |
|---|---|---|---|
| Time | 0850 | Gal. Purged | 0 |
| Conductance | 4437 | pH | 5.20 |
| Temp. °C | 15.48 | | |
| Redox Potential Eh (mV) | | | |
| Turbidity (NTU) | | | |

Before

| | | | |
|---|---|---|---|
| Time | 0851 | Gal. Purged | 3 |
| Conductance | 4449 | pH | 5.19 |
| Temp. °C | 15.31 | | |
| Redox Potential Eh (mV) | | | |
| Turbidity (NTU) | | | |

After

Volume of Water Purged: 20 gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = 10.0

Time to evacuate two casing volumes (2V)
T = 2V/Q = 2.18

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

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

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 | ☒ | ☐ | 3x40 ml | ☐ | ☒ | HCL | ☒ | ☐ |
| Nutrients | ☒ | ☐ | 100 ml | ☐ | ☒ | H2SO4 | ☒ | ☐ |
| Heavy Metals | ☐ | ☐ | 250 ml | ☐ | ☐ | HNO3 | ☐ | ☐ |
| All Other Non Radiologics | ☐ | ☐ | 250 ml | ☐ | ☐ | No Preserv. | ☐ | ☐ |
| Gross Alpha | ☐ | ☐ | 1,000 ml | ☐ | ☐ | HNO3 | ☐ | ☐ |
| Other (specify) | ☒ | ☐ | Sample volume | ☐ | ☒ | | ☐ | ☒ |
| Chloride | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

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

Final Depth: 90.15 Sample Time: 0850

See instruction

Comment

Arrived on site at 1155 Tanner and Garrin present for purge. Purge began at 1158 Purged well for a total of 2 minutes. Purged well dry! Purge ended at 1200. water was murky. Left site at 1203

Arrived on site at 0846 Tanner and Garrin present to collect samples. Depth to water was 75.81 samples bailed at 0850 Left site at 0852

TW4-30 08-02-2016 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 3rd Quarter Chloroform 2016

Location (well name): TW4-31

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-31_07282016

Date and Time for Purging: J 7/27/2016 and Sampling (if different): 7/28/2016

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

Well Pump (if other than Bennet): Grundfos

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

Sampling Event: Quarterly Chloroform

Prev. Well Sampled in Sampling Event: TW4-36

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 1000 µMHOS/ cm

Well Depth(0.01ft): 106.00

Depth to Water Before Purging: 79.15

Casing Volume (V) 4" Well: 17.53 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Sunny

Ext'l Amb. Temp. °C (prior sampling event): 32°

| | | | |
|---|---|---|---|
| Time | 1238 | Gal. Purged | 27.50 |
| Conductance | 4832 | pH | 6.16 |
| Temp. °C | 16.38 | | |
| Redox Potential Eh (mV) | 365 | | |
| Turbidity (NTU) | 240 | | |

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

| | | | |
|---|---|---|---|
| Time | 0819 | Gal. Purged | 0 |
| Conductance | 4879 | pH | 6.64 |
| Temp. °C | 15.34 | | |
| Redox Potential Eh (mV) | | | |
| Turbidity (NTU) | | | |

Before

| | | | |
|---|---|---|---|
| Time | 0820 | Gal. Purged | 0 |
| Conductance | 4868 | pH | 6.66 |
| Temp. °C | 15.30 | | |
| Redox Potential Eh (mV) | | | |
| Turbidity (NTU) | | | |

After

Volume of Water Purged: 27.50 gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = 10.0

Time to evacuate two casing volumes (2V)
T = 2V/Q = 3.50

Number of casing volumes evacuated (if other than two): 1.56

If well evacuated to dryness, number of gallons evacuated: 27.50

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

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

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

Final Depth: 103.91 Sample Time: 0819

See instruction

Comment

Arrived on site at 1232 Tanner and Garrin present for purge. Purge began at 1235 Purged well for a total of 2 minutes 45 seconds. Purged well dry! Purge ended at 1238. Water was murky. Left site at 1241

Arrived on site at 0816 Tanner and Garrin Present to collect samples. Depth to water was 79.19 Samples bailed at 0819 Left site at 0821

TW4-31 07-27-2016 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 3rd Quarter Chloroform 2016

Location (well name): TW4-32

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-32_07282016

Date and Time for Purging: 7/27/2016 and Sampling (if different): 7/28/2016

Well Purging Equip Used: ☒ pump or ☐ bailer

Well Pump (if other than Bennet): Grundfas

Purging Method Used: ☒ 2 casings ☐ 3 casings

Sampling Event: Quarterly Chloroform

Prev. Well Sampled in Sampling Event: TW4-28

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 1000 µMHOS/ cm

Well Depth(0.01ft): 115.10

Depth to Water Before Purging: 51.68

Casing Volume (V) 4" Well: 41.41 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Sunny

Ext'l Amb. Temp. °C (prior sampling event): 28°

| | | | |
|---|---|---|---|
| Time | 0947 | Gal. Purged | 60 |
| Conductance | 7132 | pH | 3.45 |
| Temp. °C | 14.94 | | |
| Redox Potential Eh (mV) | 618 | | |
| Turbidity (NTU) | 14.0 | | |

| | | | |
|---|---|---|---|
| Time | 0948 | Gal. Purged | 70 |
| Conductance | 6942 | pH | 3.45 |
| Temp. °C | 14.92 | | |
| Redox Potential Eh (mV) | 617 | | |
| Turbidity (NTU) | 15 | | |

| | | | |
|---|---|---|---|
| Time | 0949 | Gal. Purged | 80 |
| Conductance | 6960 | pH | 3.46 |
| Temp. °C | 14.93 | | |
| Redox Potential Eh (mV) | 616 | | |
| Turbidity (NTU) | 14 | | |

| | | | |
|---|---|---|---|
| Time | 0950 | Gal. Purged | 90 |
| Conductance | 6978 | pH | 3.47 |
| Temp. °C | 14.93 | | |
| Redox Potential Eh (mV) | 615 | | |
| Turbidity (NTU) | 15 | | |

Volume of Water Purged: 90 gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = 10.0

Time to evacuate two casing volumes (2V)
T = 2V/Q = 8.28

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

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

Name of Certified Analytical Laboratory if Other Than Energy Labs: 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 | ☒ | ☐ | 3x40 ml | ☐ | ☒ | HCL | ☒ | ☐ |
| Nutrients | ☒ | ☐ | 100 ml | ☐ | ☒ | H2SO4 | ☒ | ☐ |
| Heavy Metals | ☐ | ☐ | 250 ml | ☐ | ☐ | HNO3 | ☐ | ☐ |
| All Other Non Radiologics | ☐ | ☐ | 250 ml | ☐ | ☐ | No Preserv. | ☐ | ☐ |
| Gross Alpha | ☐ | ☐ | 1,000 ml | ☐ | ☐ | HNO3 | ☐ | ☐ |
| Other (specify) | ☒ | ☐ | Sample volume | ☐ | ☒ | | ☐ | ☒ |
| Chloride | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

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

Final Depth: 75.30 Sample Time: 0800

See instruction

Comment

Arrived on site at 0938 Tanner and Garrin present for purge. Purge began at 0941 Purged well for a total of 9 minutes. Purge ended at 0950. water was clear. When Pulling the pump there was white salt Like particles on the hose and pump. Left site at 0953. Arrived on site at 0757 Tanner and Garrin present to collect samples. Depth to water was 51.55 samples bailed at 0800 Left site at 0802

TW4-32 07-27-2016 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 3rd Quarter Chloroform 2016

Location (well name): TW4-33

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-33_08042016

Date and Time for Purging: 8/3/2016 and Sampling (if different): 8/4/2016

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

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

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

pH Buffer 7.0: 7.0  pH Buffer 4.0: 4.0

Specific Conductance: 1000 µMHOS/ cm  Well Depth(0.01ft): 87.90

Depth to Water Before Purging: 72.96  Casing Volume (V) 4" Well: 9.75 (.653h)
3" Well: 0 (.367h)

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

| | | | |
|---|---|---|---|
| Time | 1036 | Gal. Purged | ~~107~~ 13.33 |
| Conductance | 4547 | pH | 5.90 |
| Temp. °C | 16.30 | | |
| Redox Potential Eh (mV) | 569 | | |
| Turbidity (NTU) | 30 | | |

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

| | | | |
|---|---|---|---|
| Time | 0758 | Gal. Purged | 0 |
| Conductance | 4594 | pH | 5.60 |
| Temp. °C | 16.18 | | |
| Redox Potential Eh (mV) | | | |
| Turbidity (NTU) | | | |

Before

| | | | |
|---|---|---|---|
| Time | 0759 | Gal. Purged | 0 |
| Conductance | 4587 | pH | 5.66 |
| Temp. °C | 16.15 | | |
| Redox Potential Eh (mV) | | | |
| Turbidity (NTU) | | | |

After

Volume of Water Purged [13.33] gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = [10.0]

Time to evacuate two casing volumes (2V)
T = 2V/Q = [1.95]

Number of casing volumes evacuated (if other than two) [1.36]

If well evacuated to dryness, number of gallons evacuated [13.33]

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 | ☑ | ☐ | 3x40 ml | ☐ | ☑ | HCL | ☑ | ☐ |
| Nutrients | ☑ | ☐ | 100 ml | ☐ | ☑ | H2SO4 | ☑ | ☐ |
| Heavy Metals | ☐ | ☐ | 250 ml | ☐ | ☐ | HNO3 | ☐ | ☐ |
| All Other Non Radiologics | ☐ | ☐ | 250 ml | ☐ | ☐ | No Preserv. | ☐ | ☐ |
| Gross Alpha | ☐ | ☐ | 1,000 ml | ☐ | ☐ | HNO3 | ☐ | ☐ |
| Other (specify) | ☑ | ☐ | Sample volume | ☐ | ☑ | | ☐ | ☑ |
| Chloride | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

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

Final Depth [85.25] Sample Time [0758]

See instruction

Comment

Arrived on site at 1033. Tanner and Garrin present for purge. Purge began at 1035 Purged well for a total of 1 minute 20 seconds. Purged well dry! Purge ended at 1036 Water was a little murky. Left site at 1039

Arrived on site at 0755 Tanner and Garrin present to collect samples. Depth to water was 72.95 Samples bailed at 0758 Left site at 0800

TW4-33 08-03-2016 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 3rd Quarter Chloroform 2016

Location (well name): TW4-34

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-34_08032016

Date and Time for Purging: 8/2/2016 and Sampling (if different): 8/3/2016

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

Well Pump (if other than Bennet): Grundfos

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

Sampling Event: Quarterly Chloroform

Prev. Well Sampled in Sampling Event: TW4-34R

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 1000 µMHOS/ cm

Well Depth(0.01ft): 97.20

Depth to Water Before Purging: 72.20

Casing Volume (V) 4" Well: 16.32 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Partly Cloudy

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

| | | | |
|---|---|---|---|
| Time | 0742 | Gal. Purged | 33.33 |
| Conductance | 4064 | pH | 6.45 |
| Temp. °C | 15.20 | | |
| Redox Potential Eh (mV) | 514 | | |
| Turbidity (NTU) | 40 | | |

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

| | | | |
|---|---|---|---|
| Time | 0807 | Gal. Purged | 0 |
| Conductance | 3934 | pH | 6.35 |
| Temp. °C | 15.76 | | |
| Redox Potential Eh (mV) | | | |
| Turbidity (NTU) | | | |

Before

| | | | |
|---|---|---|---|
| Time | 0808 | Gal. Purged | 0 |
| Conductance | 3989 | pH | 6.37 |
| Temp. °C | 15.72 | | |
| Redox Potential Eh (mV) | | | |
| Turbidity (NTU) | | | |

After

Volume of Water Purged [33.33] gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = [10.0]

Time to evacuate two casing volumes (2V)
T = 2V/Q = [3.26]

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

If well evacuated to dryness, number of gallons evacuated [33.33]

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 | ☒ | ☐ | 3x40 ml | ☐ | ☒ | HCL | ☒ | ☐ |
| Nutrients | ☒ | ☐ | 100 ml | ☐ | ☒ | H2SO4 | ☒ | ☐ |
| Heavy Metals | ☐ | ☐ | 250 ml | ☐ | ☐ | HNO3 | ☐ | ☐ |
| All Other Non Radiologics | ☐ | ☐ | 250 ml | ☐ | ☐ | No Preserv. | ☐ | ☐ |
| Gross Alpha | ☐ | ☐ | 1,000 ml | ☐ | ☐ | HNO3 | ☐ | ☐ |
| Other (specify) | ☒ | ☐ | Sample volume | ☐ | ☒ | | ☐ | ☒ |
| Chloride | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

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

Final Depth [94.98] Sample Time [0807]

See instruction

Comment

Arrived on site at 0737 Tanner and Garrin present for purge. Purge began at 0739 Purged well for a total of 3 minutes 20 seconds. Purged well dry. Purge ended at 0742, Water was mostly clear. Left site at 0744

Arrived on site at 0804 Tanner and Garrin present to collect samples. Depth to water was 72.20, samples bailed at 0807 Left site at 0809

[TW4-34 08-02-2016] Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 3rd Quarter Chloroform 2016

Location (well name): TW4-34R

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-34R_08022016

Date and Time for Purging: 8/2/2016 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: TW4-31

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 1000 µMHOS/ cm

Well Depth(0.01ft): 0

Depth to Water Before Purging: 0

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

Weather Cond.: Partly Cloudy

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

| | | | |
|---|---|---|---|
| Time | 0724 | Gal. Purged | 0 |
| Conductance | 10.0 | pH | 7.89 |
| Temp. °C | 25.33 | | |
| Redox Potential Eh (mV) | 462 | | |
| Turbidity (NTU) | 0 | | |

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

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

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

Volume of Water Purged: 150 gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = 10.0

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

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

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

Name of Certified Analytical Laboratory if Other Than Energy Labs: 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 | ☒ | ☐ | 3x40 ml | ☐ | ☒ | HCL | ☒ | ☐ |
| Nutrients | ☒ | ☐ | 100 ml | ☐ | ☒ | H2SO4 | ☒ | ☐ |
| Heavy Metals | ☐ | ☐ | 250 ml | ☐ | ☐ | HNO3 | ☐ | ☐ |
| All Other Non Radiologics | ☐ | ☐ | 250 ml | ☐ | ☐ | No Preserv. | ☐ | ☐ |
| Gross Alpha | ☐ | ☐ | 1,000 ml | ☐ | ☐ | HNO3 | ☐ | ☐ |
| Other (specify) | ☒ | ☐ | Sample volume | ☐ | ☒ | | ☐ | ☒ |
| Chloride | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

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

Final Depth: 0 Sample Time: 0725

See instruction

Comment

Arrived on site at 0710 Tanner and Garrin present for rinsate Rinsate began at 0711 Pumped 50 Gallons of soap water and 100 Gallons of DI Water. Samples collected at 0725 Left site at 0727

TW4-34R 08-02-2016 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 3rd Quarter Chloroform 2016

Location (well name): TW4-35

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-35_08032016

Date and Time for Purging: 8/2/2016 and Sampling (if different): 8/3/2016

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: TW4-34

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 1000 µMHOS/ cm

Well Depth(0.01ft): 87.50

Depth to Water Before Purging: 74.15

Casing Volume (V) 4" Well: 8.71 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Cloudy

Ext'l Amb. Temp. °C (prior sampling event): 21°

| | | | | | |
|---|---|---|---|---|---|
| Time | 0813 | Gal. Purged | 10 | | |
| Conductance | 4540 | pH | 6.14 | | |
| Temp. °C | 16.13 | | | | |
| Redox Potential Eh (mV) | 529 | | | | |
| Turbidity (NTU) | 51 | | | | |

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

| | | | | | |
|---|---|---|---|---|---|
| Time | 0814 | Gal. Purged | 0 | | |
| Conductance | 4530 | pH | 6.43 | | |
| Temp. °C | 15.09 | | | | |
| Redox Potential Eh (mV) | | | | | |
| Turbidity (NTU) | | | | | |

Before

| | | | | | |
|---|---|---|---|---|---|
| Time | 0815 | Gal. Purged | 0 | | |
| Conductance | 4540 | pH | 6.41 | | |
| Temp. °C | 15.03 | | | | |
| Redox Potential Eh (mV) | | | | | |
| Turbidity (NTU) | | | | | |

After

Volume of Water Purged: 10 gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = 10.0

Time to evacuate two casing volumes (2V)
T = 2V/Q = 1.74

Number of casing volumes evacuated (if other than two): 1.14

If well evacuated to dryness, number of gallons evacuated: 10

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 | ☒ | ☐ | 3x40 ml | ☐ | ☒ | HCL | ☒ | ☐ |
| Nutrients | ☒ | ☐ | 100 ml | ☐ | ☒ | H2SO4 | ☒ | ☐ |
| Heavy Metals | ☐ | ☐ | 250 ml | ☐ | ☐ | HNO3 | ☐ | ☐ |
| All Other Non Radiologics | ☐ | ☐ | 250 ml | ☐ | ☐ | No Preserv. | ☐ | ☐ |
| Gross Alpha | ☐ | ☐ | 1,000 ml | ☐ | ☐ | HNO3 | ☐ | ☐ |
| Other (specify) | ☒ | ☐ | Sample volume | ☐ | ☒ | | ☐ | ☒ |
| Chloride | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

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

Final Depth: 84.87 Sample Time: 0814

See instruction

Comment

Arrived on site at 0810 Tanner and Garrin present for purge. Purge began at 0812 Purged well for a total of 1 minute. Purged well dry! Purge ended at 0813 water was a little murky. Left site at 0815

Arrived on site at 0811 Tanner and Garrin present to collect samples. Depth to water was 74.15 samples bailed at 0814 Left site at 0816

TW4-35 08-02-2016 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 3rd Quarter Chloroform 2016

Location (well name): TW4-36

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-36_07282016

Date and Time for Purging: 7/27/2016 and Sampling (if different): 7/28/2016

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: 1000 µMHOS/ cm

Well Depth(0.01ft): 99.00

Depth to Water Before Purging: 56.42

Casing Volume (V) 4" Well: 27.80 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Sunny

Ext'l Amb. Temp. °C (prior sampling event): 32°

| Time | 1200 | Gal. Purged | 45 |
|---|---|---|---|
| Conductance | 2559 | pH | 6.47 |
| Temp. °C | 16.25 | | |
| Redox Potential Eh (mV) | 242 | | |
| Turbidity (NTU) | 151 | | |

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

| Time | 0812 | Gal. Purged | 0 |
|---|---|---|---|
| Conductance | 2439 | pH | 6.85 |
| Temp. °C | 15.79 | | |
| Redox Potential Eh (mV) | | | |
| Turbidity (NTU) | | | |

Before

| Time | 0813 | Gal. Purged | 8 |
|---|---|---|---|
| Conductance | 2473 | pH | 6.84 |
| Temp. °C | 15.75 | | |
| Redox Potential Eh (mV) | | | |
| Turbidity (NTU) | | | |

After

Volume of Water Purged: 45 gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = 10.0

Time to evacuate two casing volumes (2V)
T = 2V/Q = 5.56

Number of casing volumes evacuated (if other than two): 1.61

If well evacuated to dryness, number of gallons evacuated: 45

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 | ☒ | ☐ | 3x40 ml | ☐ | ☒ | HCL | ☒ | ☐ |
| Nutrients | ☒ | ☐ | 100 ml | ☐ | ☒ | H2SO4 | ☒ | ☐ |
| Heavy Metals | ☐ | ☐ | 250 ml | ☐ | ☐ | HNO3 | ☐ | ☐ |
| All Other Non Radiologics | ☐ | ☐ | 250 ml | ☐ | ☐ | No Preserv. | ☐ | ☐ |
| Gross Alpha | ☐ | ☐ | 1,000 ml | ☐ | ☐ | HNO3 | ☐ | ☐ |
| Other (specify) | ☒ | ☐ | Sample volume | ☐ | ☒ | | ☐ | ☒ |
| Chloride | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

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

Final Depth: 96.49 Sample Time: 0812

See instruction

Comment

Arrived on site at 1154 Tanner and Garrin present for purge. Purge began at 1156 Purged well for a total of 4 minutes 30 seconds. Purged well dry! Purge ended at 1200 Water was murky with a brown tint. Left site at 1203
Arrived on site at 0809 Tanner and Garrin present to collect samples. Depth to water was 57.19 samples bailed at 0812 Left site at 0814

TW4-36 07-27-2016 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 3rd Quarter Chloroform 2016

Location (well name): TW4-37

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-37_07252016

Date and Time for Purging: 7/25/2016 and Sampling (if different): N/A

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

Well Pump (if other than Bennet): Continuous

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

Sampling Event: Quarterly Chloroform

Prev. Well Sampled in Sampling Event: TW4-22

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 1000 µMHOS/ cm

Well Depth(0.01ft): 112.00

Depth to Water Before Purging: 65.15

Casing Volume (V) 4" Well: 30.59 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Partly Cloudy

Ext'l Amb. Temp. °C (prior sampling event): 33°

| | | | |
|---|---|---|---|
| Time | 1355 | Gal. Purged | 0 |
| Conductance | 4201 | pH | 6.60 |
| Temp. °C | 16.48 | | |
| Redox Potential Eh (mV) | 411 | | |
| Turbidity (NTU) | 2.1 | | |

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

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

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



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Volume of Water Purged: 0 gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = 17.0

Time to evacuate two casing volumes (2V)
T = 2V/Q = 3.59

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

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

Name of Certified Analytical Laboratory if Other Than Energy Labs: 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 | ☒ | ☐ | 3x40 ml | ☐ | ☒ | HCL | ☒ | ☐ |
| Nutrients | ☒ | ☐ | 100 ml | ☐ | ☒ | H2SO4 | ☒ | ☐ |
| Heavy Metals | ☐ | ☐ | 250 ml | ☐ | ☐ | HNO3 | ☐ | ☐ |
| All Other Non Radiologics | ☐ | ☐ | 250 ml | ☐ | ☐ | No Preserv. | ☐ | ☐ |
| Gross Alpha | ☐ | ☐ | 1,000 ml | ☐ | ☐ | HNO3 | ☐ | ☐ |
| Other (specify) | ☒ | ☐ | Sample volume | ☐ | ☒ | | ☐ | ☒ |
| Chloride | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

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

Final Depth: 74.24 Sample Time: 1356

See instruction

Comment

Arrived on site at 1353. Tanner and Garrin present to collect samples
Samples collected at 1356 Water was Clear
Left site at 1359

Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 3rd Quarter Chloroform 2016

Location (well name): TW4-60

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-60_07252016

Date and Time for Purging: 7/25/2016 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: N/A

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 1000 µMHOS/ cm

Well Depth(0.01ft): 0

Depth to Water Before Purging: 0

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

Weather Cond.: Partly Cloudy

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

| | | | |
|---|---|---|---|
| Time | 1259 (1259) | Gal. Purged | 0 |
| Conductance | 0.4 | pH | 6.25 |
| Temp. °C | 25.67 | | |
| Redox Potential Eh (mV) | 525 | | |
| Turbidity (NTU) | 0 | | |

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

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

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

Volume of Water Purged [0] gallon(s)

Pumping Rate Calculation

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

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

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

If well evacuated to dryness, number of gallons evacuated [0]

Name of Certified Analytical Laboratory if Other Than Energy Labs [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 | ☒ | ☐ | 3x40 ml | ☐ | ☒ | HCL | ☒ | ☐ |
| Nutrients | ☒ | ☐ | 100 ml | ☐ | ☒ | H2SO4 | ☒ | ☐ |
| Heavy Metals | ☐ | ☐ | 250 ml | ☐ | ☐ | HNO3 | ☐ | ☐ |
| All Other Non Radiologics | ☐ | ☐ | 250 ml | ☐ | ☐ | No Preserv. | ☐ | ☐ |
| Gross Alpha | ☐ | ☐ | 1,000 ml | ☐ | ☐ | HNO3 | ☐ | ☐ |
| Other (specify) | ☒ | ☐ | Sample volume | ☐ | ☒ | | ☐ | ☒ |
| Chloride | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

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

Final Depth [0] Sample Time [1300]

See instruction

Comment

D.I. Blank

TW4-60 07-25-2016 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 3rd Quarter Chloroform 2016

Location (well name): TW4-65

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-65_07272016

Date and Time for Purging: 7/26/2016 and Sampling (if different): 7/27/2016

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

Well Pump (if other than Bennet): Grundfos

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

Sampling Event: Quarterly Chloroform

Prev. Well Sampled in Sampling Event: TW4-12

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 1000 µMHOS/ cm

Well Depth(0.01ft): 107.00

Depth to Water Before Purging: 40.30

Casing Volume (V) 4" Well: 43.55 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Partly Cloudy

Ext'l Amb. Temp. °C (prior sampling event): 32°

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

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

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

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

Volume of Water Purged [90] gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = [10.0]

Time to evacuate two casing volumes (2V)
T = 2V/Q = [8.71]

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

If well evacuated to dryness, number of gallons evacuated [0]

Name of Certified Analytical Laboratory if Other Than Energy Labs [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 | ☑ | ☐ | 3x40 ml | ☐ | ☐ | HCL | ☑ | ☐ |
| Nutrients | ☑ | ☐ | 100 ml | ☐ | ☐ | H2SO4 | ☑ | ☐ |
| Heavy Metals | ☐ | ☐ | 250 ml | ☐ | ☐ | HNO3 | ☐ | ☐ |
| All Other Non Radiologics | ☐ | ☐ | 250 ml | ☐ | ☐ | No Preserv. | ☐ | ☐ |
| Gross Alpha | ☐ | ☐ | 1,000 ml | ☐ | ☐ | HNO3 | ☐ | ☐ |
| Other (specify) | ☑ | ☐ | Sample volume | ☐ | ☑ | | ☐ | ☑ |
| Chloride | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

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

Final Depth [86.50] Sample Time [0820]

See instruction

Comment

Duplicate of TW4-28

TW4-65 07-26-2016 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 3rd Quarter Chloroform 2016

Location (well name): TW4-70

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-70_08032016

Date and Time for Purging: 8/2/2016 and Sampling (if different): 8/3/2016

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: TW4-35

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 1000 µMHOS/ cm

Well Depth(0.01ft): 114.00

Depth to Water Before Purging: 69.96

Casing Volume (V) 4" Well: 28.75 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Cloudy

Ext'l Amb. Temp. °C (prior sampling event): 21°

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

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

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

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

Volume of Water Purged [90] gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = [10.0]

Time to evacuate two casing volumes (2V)
T = 2V/Q = [5.75]

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

If well evacuated to dryness, number of gallons evacuated [0]

Name of Certified Analytical Laboratory if Other Than Energy Labs [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 | ☒ | ☐ | 3x40 ml | ☐ | ☒ | HCL | ☒ | ☐ |
| Nutrients | ☒ | ☐ | 100 ml | ☐ | ☒ | H2SO4 | ☒ | ☐ |
| Heavy Metals | ☐ | ☐ | 250 ml | ☐ | ☐ | HNO3 | ☐ | ☐ |
| All Other Non Radiologics | ☐ | ☐ | 250 ml | ☐ | ☐ | No Preserv. | ☐ | ☐ |
| Gross Alpha | ☐ | ☐ | 1,000 ml | ☐ | ☐ | HNO3 | ☐ | ☐ |
| Other (specify) | ☒ | ☐ | Sample volume | ☐ | ☒ | | ☐ | ☒ |
| Chloride | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

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

Final Depth [86.40] Sample Time [0823]

See instruction

Comment

Duplicate of TW4-23

TW4-70 08-02-2016 Do not touch this cell (SheetName)

Tab C

Weekly and Monthly Depth to Water Data

# Weekly Inspection Form

**Date** 7/6/16 **Name** Garrin Palmer, Tanner Holliday

| Time | Well | Depth* | Comments | | System Operational (If no note any problems/corrective actions) |
|---|---|---|---|---|---|
| 0803 | MW-4 | 81.47 | Flow | 4.4 | (Yes) No |
| | | | Meter | 1066328.40 | (Yes) No |
| 0756 | MW-26 | 64.71 | Flow | 7.6 | (Yes) No |
| | | | Meter | 96390.80 | (Yes) No |
| 0705 | TW4-19 | 63.97 | Flow | 18.0 | (Yes) No |
| | | | Meter | 503984.40 | (Yes) No |
| 0753 | TW4-20 | 63.90 | Flow | 7.8 | (Yes) No |
| | | | Meter | 143277.20 | (Yes) No |
| 0810 | TW4-4 | 74.81 | Flow | 10.2 | (Yes) No |
| | | | Meter | 371848.80 | (Yes) No |
| 0738 | TWN-2 | 35.51 | Flow | 18.4 | (Yes) No |
| | | | Meter | 660634.40 | (Yes) No |
| 0747 | TW4-22 | 58.13 | Flow | 17.0 | (Yes) No |
| | | | Meter | 334569.50 | (Yes) No |
| 0744 | TW4-24 | 69.97 | Flow | 16.0 | (Yes) No |
| | | | Meter | 155749.50 | (Yes) No |
| 0734 | TW4-25 | 64.44 | Flow | 15.0 | (Yes) No |
| | | | Meter | 1646070.80 | (Yes) No |
| 0806 | TW4-1 | 95.21 | Flow | 16.0 | (Yes) No |
| | | | Meter | 131819.20 | (Yes) No |
| 0800 | TW4-2 | 81.24 | Flow | 16.2 | (Yes) No |
| | | | Meter | 131111.90 | (Yes) No |
| 0757 | TW4-11 | 92.84 | Flow | 16.0 | (Yes) No |
| | | | Meter | 30273.30 | (Yes) No |
| 0730 | TW4-21 | 67.63 | Flow | 16.0 | (Yes) No |
| | | | Meter | 548567.97 | (Yes) No |
| | TW4-37 | 62.13 | Flow | 17.0 | (Yes) No |
| 0750 | | | Meter | 489839.60 | (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** 7/12/2016 **Name** Tanner Holliday

| Time | Well | Depth* | Comments | System Operational (If no note any problems/corrective actions) |
|---|---|---|---|---|
| 0827 | MW-4 | 81.28 | Flow 4.3 | (Yes) No |
| | | | Meter 1072101.61 | (Yes) No |
| 0814 | MW-26 | 65.49 | Flow 7.6 | (Yes) No |
| | | | Meter 97527.9 | (Yes) No |
| 0730 | TW4-19 | 63.15 | Flow 18.0 | (Yes) No |
| | | | Meter 511397.9 | (Yes) No |
| 0810 | TW4-20 | 63.98 | Flow 7.8 | (Yes) No |
| | | | Meter 144129.2 | (Yes) No |
| 0836 | TW4-4 | 73.92 | Flow 10.1 | (Yes) No |
| | | | Meter 375573.0 | (Yes) No |
| ~~0749~~ 0823 | TWN-2 | 34.61 | Flow 18.4 | (Yes) No |
| | | | Meter ~~1389514~~ 663677.7 | (Yes) No |
| 0801 | TW4-22 | 58.20 | Flow 17.0 | (Yes) No |
| | | | Meter 336183.0 | (Yes) No |
| 0755 | TW4-24 | 68.87 | Flow 16.0 | (Yes) No |
| | | | Meter 159654.22 | (Yes) No |
| 0744 | TW4-25 | 64.95 | Flow 15.0 | (Yes) No |
| | | | Meter 653200.2 | (Yes) No |
| 0831 | TW4-1 | 90.03 | Flow 16.0 | (Yes) No |
| | | | Meter 132962.8 | (Yes) No |
| ~~0823~~ | TW4-2 | 82.44 | Flow 16.2 | (Yes) No |
| 0749 | | | Meter ~~6686777.7~~ 132351.4 | (Yes) No |
| 0819 | TW4-11 | 92.31 | Flow 16.0 | (Yes) No |
| | | | Meter 30498.8 | (Yes) No |
| 0740 | TW4-21 | 67.74 | Flow 16.0 | (Yes) No |
| | | | Meter 556371.21 | (Yes) No |
| 0805 | TW4-37 | 62.21 | Flow 17.0 | (Yes) No |
| | | | Meter 497085.8 | (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** 7/18/16 **Name** Garrin Palmer

| Time | Well | Depth* | Comments | System Operational (If no note any problems/corrective actions) |
|---|---|---|---|---|
| 1333 | MW-4 | 74.99 | Flow 4.4 | (Yes) No |
| | | | Meter 1078088.22 | (Yes) No |
| 1341 | MW-26 | 65.49 | Flow 7.7 | (Yes) No |
| | | | Meter 98937.10 | (Yes) No |
| 1415 | TW4-19 | 63.74 | Flow 18.0 | (Yes) No |
| | | | Meter 519005.20 | (Yes) No |
| 1344 | TW4-20 | 64.64 | Flow 8.0 | (Yes) No |
| | | | Meter 145164.37 | (Yes) No |
| 1327 | TW4-4 | 72.91 | Flow 10.1 | (Yes) No |
| | | | Meter 379222.40 | (Yes) No |
| 1354 | TWN-2 | 33.44 | Flow 18.6 | (Yes) No |
| | | | Meter 666786.40 | (Yes) No |
| 1347 | TW4-22 | 59.49 | Flow 17.0 | (Yes) No |
| | | | Meter 337798.20 | (Yes) No |
| 1350 | TW4-24 | 70.14 | Flow 16.0 | (Yes) No |
| | | | Meter 163617.90 | (Yes) No |
| 1357 | TW4-25 | 65.08 | Flow 15.0 | (Yes) No |
| | | | Meter 1661438.70 | (Yes) No |
| 1330 | TW4-1 | 86.84 | Flow 16.0 | (Yes) No |
| | | | Meter 134131.40 | (Yes) No |
| 1336 | TW4-2 | 85.52 | Flow 16.2 | (Yes) No |
| | | | Meter 133636.50 | (Yes) No |
| 1338 | TW4-11 | 93.12 | Flow 16.0 | (Yes) No |
| | | | Meter 30713.70 | (Yes) No |
| 1400 | TW4-21 | 68.11 | Flow 16.0 | (Yes) No |
| | | | Meter 564687.02 | (Yes) No |
| 1346 | TW4-37 | 62.37 | Flow 17.0 | (Yes) No |
| | | | Meter 504209.10 | (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.

# Monthly Depth Check Form

**Date** 7/22/16 **Name** Garrin Palmer, Tanner Holliday

| Time | Well | Depth* | Time | Well | Depth* |
|---|---|---|---|---|---|
| 0813 | MW-4 | 75.11 | 0741 | TWN-1 | 63.00 |
| 0814 | TW4-1 | 86.41 | 0738 | TWN-2 | 34.13 |
| 0816 | TW4-2 | 85.40 | 0736 | TWN-3 | 40.74 |
| 0809 | TW4-3 | 57.58 | 0733 | TWN-4 | 55.91 |
| 0812 | TW4-4 | 71.95 | 0728 | TWN-7 | 88.24 |
| 0804 | TW4-5 | 65.22 | 0736 | TWN-18 | 60.73 |
| 0813 | TW4-6 | 73.00 | 0727 | MW-27 | 54.68 |
| 0815 | TW4-7 | 76.12 | 0750 | MW-30 | 75.49 |
| 0811 | TW4-8 | 79.53 | 0754 | MW-31 | 68.61 |
| 0806 | TW4-9 | 63.09 | | | |
| 0802 | TW4-10 | 62.70 | | | |
| 0818 | TW4-11 | 92.68 | | | |
| 0743 | TW4-12 | 46.35 | | | |
| 0750 | TW4-13 | 52.66 | 0745 | TW4-28 | 40.38 |
| 0754 | TW4-14 | 79.66 | 0758 | TW4-29 | 74.20 |
| 0819 | TW4-15 | 65.80 | 0805 | TW4-30 | 75.86 |
| 0759 | TW4-16 | 64.27 | 0807 | TW4-31 | 79.28 |
| 0757 | TW4-17 | 77.80 | 0739 | TW4-32 | ~~72.95~~ 51.38 |
| 0744 | TW4-18 | 66.11 | 0747 | TW4-33 | 72.95 |
| 0840 | TW4-19 | 64.42 | 0800 | TW4-34 | 72.20 |
| 0820 | TW4-20 | 64.60 | 0803 | TW4-35 | 74.20 |
| 0746 | TW4-21 | 68.04 | 0752 | TW4-36 | 56.50 |
| 0824 | TW4-22 | 62.34 | 0822 | TW4-37 | 62.19 |
| 0817 | TW4-23 | 70.05 | | | |
| 0824 | TW4-24 | 68.87 | | | |
| 0739 | TW4-25 | 65.93 | | | |
| 0811 | TW4-26 | 67.22 | | | |
| 0756 | TW4-27 | 79.67 | | | |

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

* Depth is measured to the nearest 0.01 feet

# Weekly Inspection Form

**Date** 7/25/16 **Name** Garrin Palmer, Tanner Holliday

| Time | Well | Depth* | Comments | System Operational (If no note any problems/corrective actions) |
|---|---|---|---|---|
| 1426 | MW-4 | 81.00 | Flow 4.4 | (Yes) No |
| | | | Meter 1084728.24 | (Yes) No |
| 1408 | MW-26 | 64.70 | Flow 7.6 | (Yes) No |
| | | | Meter 100351.90 | (Yes) No |
| 1457 | TW4-19 | 64.12 | Flow 18.0 | (Yes) No |
| | | | Meter 527794.30 | (Yes) No |
| 1400 | TW4-20 | 63.80 | Flow 6.1 | (Yes) No |
| | | | Meter 146178.90 | (Yes) No |
| 1437 | TW4-4 | 73.54 | Flow 11.0 | (Yes) No |
| | | | Meter 383405.20 | (Yes) No |
| 1530 | TWN-2 | 33.70 | Flow 18.5 | (Yes) No |
| | | | Meter 670246.50 | (Yes) No |
| 1346 | TW4-22 | 58.18 | Flow 18.0 | (Yes) No |
| | | | Meter 339651.26 | (Yes) No |
| 1338 | TW4-24 | 61.85 | Flow 16.0 | (Yes) No |
| | | | Meter 168053.48 | (Yes) No |
| 1322 | TW4-25 | 64.89 | Flow 14.4 | (Yes) No |
| | | | Meter 1670155.20 | (Yes) No |
| 1433 | TW4-1 | 84.66 | Flow 16.0 | (Yes) No |
| | | | Meter 135430.20 | (Yes) No |
| 1422 | TW4-2 | 80.05 | Flow 17.0 | (Yes) No |
| | | | Meter 135187.90 | (Yes) No |
| 1414 | TW4-11 | ~~16.0~~ | Flow 16.0 | (Yes) No |
| | | 92.52 | Meter 30956.60 | (Yes) No |
| 1315 | TW4-21 | 67.85 | Flow 16.0 | (Yes) No |
| | | | Meter 573897.65 | (Yes) No |
| 1353 | TW4-37 | 62.15 | Flow 17.0 | (Yes) No |
| | | | Meter 512407.10 | (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** 8/1/16 **Name** Garrin Palmer, Tanner Holliday

| Time | Well | Depth* | Comments | System Operational (If no note any problems/corrective actions) |
|---|---|---|---|---|
| 1238 | MW-4 | 79.70 | Flow 4.4 | (Yes) No |
| | | | Meter 1091285.11 | (Yes) No |
| 1231 | MW-26 | 62.94 | Flow 7.2 | (Yes) No |
| | | | Meter 101767.50 | (Yes) No |
| 1317 | TW4-19 | 64.86 | Flow 18.0 | (Yes) No |
| | | | Meter 536309.10 | (Yes) No |
| 1229 | TW4-20 | 64.05 | Flow 6.2 | (Yes) No |
| | | | Meter 147043.30 | (Yes) No |
| 1246 | TW4-4 | 78.96 | Flow 11.0 | (Yes) No |
| | | | Meter 387643.30 | (Yes) No |
| 1209 | TWN-2 | 69.45 | Flow 18.5 | (Yes) No |
| | | | Meter 6738002 | (Yes) No |
| 1224 | TW4-22 | 58.39 | Flow 17.5 | (Yes) No |
| | | | Meter 341408.60 | (Yes) No |
| 1220 | TW4-24 | 61.62 | Flow 16.0 | (Yes) No |
| | | | Meter 172576.59 | (Yes) No |
| 1205 | TW4-25 | 90.13 | Flow 14.0 | (Yes) No |
| | | | Meter 1678701.60 | (Yes) No |
| 1242 | TW4-1 | 85.24 | Flow 16.0 | (Yes) No |
| | | | Meter 136737.40 | (Yes) No |
| 1237 | TW4-2 | 114.70 | Flow 16.0 | (Yes) No |
| | | | Meter 136840.80 | (Yes) No |
| 1234 | TW4-11 | 92.66 | Flow 16.0 | (Yes) No |
| | | | Meter 31207.00 | (Yes) No |
| 1202 | TW4-21 | 68.38 | Flow 16.0 | (Yes) No |
| | | | Meter 583031.33 | (Yes) No |
| 1226 | TW4-37 | 62.63 | Flow 16.8 | (Yes) No |
| | | | Meter 520766.20 | (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** 8/8/16 **Name** Garrin Palmer

| Time | Well | Depth* | Comments | | System Operational (If no note any problems/corrective actions) |
|---|---|---|---|---|---|
| 1255 | MW-4 | 81.36 | Flow | 4.5 | (Yes) No |
| | | | Meter | 1097739.88 | (Yes) No |
| 1248 | MW-26 | 77.92 | Flow | 7.0 | (Yes) No |
| | | | Meter | 103190.70 | (Yes) No |
| 1328 | TW4-19 | 67.41 | Flow | 18.0 | (Yes) No |
| | | | Meter | 544916.80 | (Yes) No |
| 1246 | TW4-20 | 64.02 | Flow | 6.2 | (Yes) No |
| | | | Meter | 148022.30 | (Yes) No |
| 1301 | TW4-4 | 87.99 | Flow | 9.0 | (Yes) No |
| | | | Meter | 391728.70 | (Yes) No |
| 1234 | TWN-2 | 35.90 | Flow | 18.5 | (Yes) No |
| | | | Meter | 677393.40 | (Yes) No |
| 1240 | TW4-22 | 58.25 | Flow | 17.0 | (Yes) No |
| | | | Meter | 343362.40 | (Yes) No |
| 1237 | TW4-24 | 61.52 | Flow | 16.0 | (Yes) No |
| | | | Meter | 176977.08 | (Yes) No |
| 1230 | TW4-25 | 72.84 | Flow | 14.2 | (Yes) No |
| | | | Meter | 1687669.80 | (Yes) No |
| 1258 | TW4-1 | 104.88 | Flow | 16.0 | (Yes) No |
| | | | Meter | 138170.70 | (Yes) No |
| 1253 | TW4-2 | 100.20 | Flow | 16.0 | (Yes) No |
| | | | Meter | 138081.80 | (Yes) No |
| 1251 | TW4-11 | 92.35 | Flow | 16.0 | (Yes) No |
| | | | Meter | 31454.10 | (Yes) No |
| 1227 | TW4-21 | 68.05 | Flow | 16.0 | (Yes) No |
| | | | Meter | 592235.77 | (Yes) No |
| 1243 | TW4-37 | 62.47 | Flow | 17.0 | (Yes) No |
| | | | Meter | 528983.00 | (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** 8/15/16 **Name** Garrin Palmer, Tanner Holliday

| Time | Well | Depth* | Comments | System Operational (If no note any problems/corrective actions) |
|---|---|---|---|---|
| 1423 | MW-4 | 81.34 | Flow 4.4 | (Yes) No |
| | | | Meter 1104574.57 | (Yes) No |
| 1408 | MW-26 | 64.55 | Flow 7.0 | (Yes) No |
| | | | Meter 104503.70 | (Yes) No |
| 1442 | TW4-19 | 70.99 | Flow 18.1 | (Yes) No |
| | | | Meter 553516.60 | (Yes) No |
| 1405 | TW4-20 | 63.78 | Flow 6.2 | (Yes) No |
| | | | Meter 149017.84 | (Yes) No |
| 1420 | TW4-4 | 76.77 | Flow 9.0 | (Yes) No |
| | | | Meter 395931.80 | (Yes) No |
| 1353 | TWN-2 | 33.98 | Flow 18.5 | (Yes) No |
| | | | Meter 680899.10 | (Yes) No |
| 1359 | TW4-22 | 100.23 | Flow 17.0 | (Yes) No |
| | | | Meter 345259.40 | (Yes) No |
| 1356 | TW4-24 | 69.65 | Flow 16.0 | (Yes) No |
| | | | Meter 181310.67 | (Yes) No |
| 1350 | TW4-25 | 64.35 | Flow 14.4 | (Yes) No |
| | | | Meter 1696393.70 | (Yes) No |
| 1417 | TW4-1 | 94.55 | Flow 16.0 | (Yes) No |
| | | | Meter 139471.70 | (Yes) No |
| 1414 | TW4-2 | 80.96 | Flow 16.0 | (Yes) No |
| | | | Meter 139424.70 | (Yes) No |
| 1411 | TW4-11 | 92.05 | Flow 16.0 | (Yes) No |
| | | | Meter 31799.50 | (Yes) No |
| 1347 | TW4-21 | 67.80 | Flow 16.5 | (Yes) No |
| | | | Meter 601429.71 | (Yes) No |
| 1402 | TW4-37 | 62.20 | Flow 17.0 | (Yes) No |
| | | | Meter 537182.60 | (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** 8/22/16 **Name** Garrin Palmer, Tanner Holliday

| Time | Well | Depth* | Comments | | System Operational (If no note any problems/corrective actions) |
|---|---|---|---|---|---|
| 1229 | MW-4 | 81.60 | Flow | 4.5 | (Yes) No |
| | | | Meter | 1111168.21 | (Yes) No |
| 1220 | MW-26 | 63.37 | Flow | 7.1 | (Yes) No |
| | | | Meter | 105906.30 | (Yes) No |
| 1440 | TW4-19 | 65.22 | Flow | 18.0 | (Yes) No |
| | | | Meter | 562113.80 | (Yes) No |
| 1217 | TW4-20 | 64.25 | Flow | 6.4 | (Yes) No |
| | | | Meter | 150025.60 | (Yes) No |
| 1233 | TW4-4 | 72.14 | Flow | ~~9.0~~ 9.0 | (Yes) No |
| | | | Meter | 400010.98 | (Yes) No |
| 1206 | TWN-2 | 81.78 | Flow | 18.6 | (Yes) No |
| | | | Meter | 684318.40 | (Yes) No |
| 1212 | TW4-22 | 58.50 | Flow | 18.0 | (Yes) No |
| | | | Meter | 347970.60 | (Yes) No |
| 1209 | TW4-24 | 61.60 | Flow | 15.2 | (Yes) No |
| | | | Meter | 185539.19 | (Yes) No |
| 1203 | TW4-25 | 63.70 | Flow | 14.4 | (Yes) No |
| | | | Meter | 1704963.30 | (Yes) No |
| 1232 | TW4-1 | 86.30 | Flow | 14.6 | (Yes) No |
| | | | Meter | 140634.60 | (Yes) No |
| 1226 | TW4-2 | 79.60 | Flow | 16.0 | (Yes) No |
| | | | Meter | 140840.00 | (Yes) No |
| 1223 | TW4-11 | 92.84 | Flow | 16.0 | (Yes) No |
| | | | Meter | 31946.60 | (Yes) No |
| 1200 | TW4-21 | 68.51 | Flow | 16.0 | (Yes) No |
| | | | Meter | 610609.33 | (Yes) No |
| 1214 | TW4-37 | 62.81 | Flow | 17.0 | (Yes) No |
| | | | Meter | 545369.30 | (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.

# Monthly Depth Check Form

**Date** 8/23/16 **Name** Tanner Holliday, Garrin Palmer

| Time | Well | Depth* | Time | Well | Depth* |
|---|---|---|---|---|---|
| 0823 | MW-4 | 80.40 | 0927 | TWN-1 | 62.95 |
| 0824 | TW4-1 | 88.10 | 0940 | TWN-2 | 30.42 |
| 0822 | TW4-2 | 80.92 | 0939 | TWN-3 | 40.61 |
| 0835 | TW4-3 | 57.50 | 0933 | TWN-4 | 55.85 |
| 0826 | TW4-4 | 72.10 | 0945 | TWN-7 | 85.17 |
| 0832 | TW4-5 | 65.30 | 0937 | TWN-18 | 60.60 |
| 0839 | TW4-6 | 72.86 | 0942 | MW-27 | 54.54 |
| 0841 | TW4-7 | 76.46 | 0919 | MW-30 | 75.26 |
| 0837 | TW4-8 | 79.40 | 0916 | MW-31 | 68.40 |
| 0833 | TW4-9 | 63.02 | | | |
| 0830 | TW4-10 | 62.60 | | | |
| 0821 | TW4-11 | 91.68 | | | |
| 0905 | TW4-12 | 46.45 | | | |
| 0903 | TW4-13 | 52.56 | 0907 | TW4-28 | 40.44 |
| 0900 | TW4-14 | 79.43 | 0858 | TW4-29 | 74.16 |
| 0820 | TW4-15 | 64.62 | 0853 | TW4-30 | 75.66 |
| 0922 | TW4-16 | 64.05 | 0852 | TW4-31 | 79.05 |
| 0913 | TW4-17 | 77.76 | 0909 | TW4-32 | 51.70 |
| 0929 | TW4-18 | 66.04 | 0848 | TW4-33 | 72.99 |
| 0800 | TW4-19 | 65.40 | 0856 | TW4-34 | 72.18 |
| 0818 | TW4-20 | 64.36 | 0855 | TW4-35 | 74.08 |
| 0930 | TW4-21 | 70.87 | 0902 | TW4-36 | 56.34 |
| 0808 | TW4-22 | 59.55 | 0817 | TW4-37 | 63.49 |
| 0843 | TW4-23 | 69.95 | | | |
| 0816 | TW4-24 | 61.90 | | | |
| 0815 | TW4-25 | 63.75 | | | |
| 0845 | TW4-26 | 67.27 | | | |
| 0850 | TW4-27 | 79.48 | | | |

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

* Depth is measured to the nearest 0.01 feet

# Weekly Inspection Form

**Date** 9/2/2016 **Name** Tanner Holliday

| Time | Well | Depth* | Comments | System Operational (If no note any problems/corrective actions) |
|---|---|---|---|---|
| 1027 | MW-4 | 80.95 | Flow 4.3 | ~~Yes~~ No |
| | | | Meter 11215970.1 | Yes No |
| 1016 | MW-26 | 64.56 | Flow 7.0 | Yes No |
| | | | Meter 108130.9 | Yes No |
| 1042 | TW4-19 | 66.31 | Flow 18.0 | Yes No |
| | | | Meter 575454.8 | Yes No |
| 1012 | TW4-20 | 63.99 | Flow 6.5 | ~~Yes~~ No |
| | | | Meter 151687.52 | Yes No |
| 1033 | TW4-4 | 72.38 | Flow 9.0 | Yes No |
| | | | Meter 406515.2 | Yes No |
| 0958 | TWN-2 | 34.74 | Flow 18.6 | ~~Yes~~ No |
| | | | Meter 689800.5 | Yes No |
| 1006 | TW4-22 | 59.60 | Flow 18.0 | Yes No |
| | | | Meter 349833.8 | Yes No |
| 1003 | TW4-24 | 62.11 | Flow 16.0 | Yes No |
| | | | Meter 192156.78 | Yes No |
| 0954 | TW4-25 | 63.82 | Flow 14.5 | Yes No |
| | | | Meter 1718415.3 | Yes No |
| 1030 | TW4-1 | 87.61 | Flow 14.5 | Yes No |
| | | | Meter 142660.1 | Yes No |
| 1024 | TW4-2 | 80.33 | Flow ~~15.0~~ 16.0 | Yes No |
| | | | Meter ~~689820.5~~ 143135.8 | Yes No |
| 1021 | TW4-11 | 92.41 | Flow ~~22.9~~ 16.0 | Yes No |
| | | | Meter 32325.1 | Yes No |
| 0950 | TW4-21 | 68.54 | Flow 16.0 | Yes No |
| | | | Meter 624817.23 | Yes No |
| 1009 | TW4-37 | 62.59 | Flow 17.0 | ~~Yes~~ No |
| | | | Meter 557923.3 | 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** 9/7/16 **Name** Garrin Palmer

| Time | Well | Depth* | Comments | | System Operational (If no note any problems/corrective actions) |
|---|---|---|---|---|---|
| 1005 | MW-4 | 80.22 | Flow | 4.4 | (Yes) No |
| | | | Meter | 1126211.80 | (Yes) No |
| 0957 | MW-26 | 64.77 | Flow | 7.1 | (Yes) No |
| | | | Meter | ~~4081~~ 109135.60 | (Yes) No |
| 1040 | TW4-19 | 64.88 | Flow | 18.0 | (Yes) No |
| | | | Meter | 581687.70 | (Yes) No |
| 0954 | TW4-20 | 64.97 | Flow | 6.6 | (Yes) No |
| | | | Meter | 152300.70 | (Yes) No |
| 1011 | TW4-4 | 74.81 | Flow | 9.0 | (Yes) No |
| | | | Meter | 409573.00 | (Yes) No |
| 0944 | TWN-2 | 33.50 | Flow | 18.5 | (Yes) No |
| | | | Meter | 692312.90 | (Yes) No |
| 0949 | TW4-22 | 61.77 | Flow | 18.0 | (Yes) No |
| | | | Meter | 351251.90 | (Yes) No |
| 0947 | TW4-24 | 65.02 | Flow | 16.0 | (Yes) No |
| | | | Meter | 195119.90 | (Yes) No |
| 0941 | TW4-25 | 63.76 | Flow | 14.7 | (Yes) No |
| | | | Meter | 1724754.40 | (Yes) No |
| 1007 | TW4-1 | 88.44 | Flow | 15.0 | (Yes) No |
| | | | Meter | 143690.40 | (Yes) No |
| 1003 | TW4-2 | 80.20 | Flow | 16.0 | (Yes) No |
| | | | Meter | 144252.80 | (Yes) No |
| 1000 | TW4-11 | 92.99 | Flow | 16.0 | (Yes) No |
| | | | Meter | 32506.30 | (Yes) No |
| 0938 | TW4-21 | 68.70 | Flow | 16.5 | (Yes) No |
| | | | Meter | 631459.77 | (Yes) No |
| 0951 | TW4-37 | 64.11 | Flow | 17.0 | (Yes) No |
| | | | Meter | 563857.00 | (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

6

**Date** 9/12/16 **Name** Garrin Palmer, Tanner Holliday

| Time | Well | Depth* | Comments | | System Operational (If no note any problems/corrective actions) |
|---|---|---|---|---|---|
| 1353 | MW-4 | 80.10 | Flow 4.4 | | (Yes) No |
| | | | Meter 1131102.70 | | (Yes) No |
| 1347 | MW-26 | 65.15 | Flow 7.1 | | (Yes) No |
| | | | Meter 110268.70 | | (Yes) No |
| 1426 | TW4-19 | 63.76 | Flow 18.0 | | (Yes) No |
| | | | Meter @ 587970.60 | | (Yes) No |
| 1344 | TW4-20 | 63.81 | Flow 6.6 | | (Yes) No |
| | | | Meter 153038.30 | | (Yes) No |
| 1401 | TW4-4 | 73.96 | Flow 9.0 | | (Yes) No |
| | | | Meter 412502.90 | | (Yes) No |
| 1259 | TWN-2 | 34.62 | Flow 18.5 | | (Yes) No |
| | | | Meter 694854.90 | | (Yes) No |
| 1339 | TW4-22 | 58.07 | Flow 18.0 | | (Yes) No |
| | | | Meter 352500.90 | | (Yes) No |
| 1337 | TW4-24 | 61.40 | Flow 16.0 | | (Yes) No |
| | | | Meter 198204.28 | | (Yes) No |
| 1258 | TW4-25 | 66.55 | Flow ~~173132.60~~ | 14.5 | (Yes) No |
| | | | Meter 173132.60 | | (Yes) No |
| 1359 | TW4-1 | 90.26 | Flow 15.0 | | (Yes) No |
| | | | Meter 144528.00 | | (Yes) No |
| 1356 | TW4-2 | 83.47 | Flow 16.0 | | (Yes) No |
| | | | Meter 145292.30 | | (Yes) No |
| 1350 | TW4-11 | 92.45 | Flow 16.0 | | (Yes) No |
| | | | Meter 32777.60 | | (Yes) No |
| 1253 | TW4-21 | 67.95 | Flow 16.5 | | (Yes) No |
| | | | Meter 638168.53 | | (Yes) No |
| 1341 | TW4-37 | 62.15 | Flow 17.0 | | (Yes) No |
| | | | Meter 569701.70 | | (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** 9/19/16 **Name** Garrin Palmer, Tanner Halliday

| Time | Well | Depth* | Comments | | System Operational (If no note any problems/corrective actions) |
|---|---|---|---|---|---|
| 1240 | MW-4 | 79.84 | Flow | 4.5 | Yes No |
| | | | Meter | 1137606.27 | Yes No |
| 1228 | MW-26 | ~~64.32~~ | Flow | 7.2 | Yes No |
| | | 63.17 | Meter | ~~154158.20~~ 111695.70 | Yes No |
| 1355 | TW4-19 | 64.88 | Flow | 18.0 | Yes No |
| | | | Meter | 596554.30 | Yes No |
| 1231 | TW4-20 | 64.32 | Flow | 6.6 | Yes No |
| | | | Meter | 154158.20 | Yes No |
| 1245 | TW4-4 | 75.88 | Flow | 9.0 | Yes No |
| | | | Meter | 416671.80 | Yes No |
| 1218 | TWN-2 | 56.50 | Flow | 18.5 | Yes No |
| | | | Meter | 698456.40 | Yes No |
| 1223 | TW4-22 | 58.62 | Flow | 18.0 | Yes No |
| | | | Meter | 354444.70 | Yes No |
| 1221 | TW4-24 | 61.54 | Flow | 16.0 | Yes No |
| | | | Meter | 202379.60 | Yes No |
| 1215 | TW4-25 | 109.30 | Flow | 14.5 | Yes No |
| | | | Meter | 1739749.10 | Yes No |
| 1242 | TW4-1 | 86.49 | Flow | 15.2 | Yes No |
| | | | Meter | 145898.90 | Yes No |
| 1237 | TW4-2 | 107.60 | Flow | 16.0 | Yes No |
| | | | Meter | 146638.70 | Yes No |
| 1234 | TW4-11 | 92.98 | Flow | 16.0 | Yes No |
| | | | Meter | 32910.90 | Yes No |
| 1212 | TW4-21 | 68.55 | Flow | 16.5 | Yes No |
| | | | Meter | 647204.83 | Yes No |
| 1225 | TW4-37 | 62.80 | Flow | 17.0 | Yes No |
| | | | Meter | 577818.50 | 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** 9/28/16 **Name** Garmin Palmer, Tanner Holliday

| Time | Well | Depth* | Comments | System Operational (If no note any problems/corrective actions) |
|---|---|---|---|---|
| 1344 | MW-4 | 81.37 | Flow 4.5 | (Yes) No |
| | | | Meter 1146114.84 | (Yes) No |
| 1338 | MW-26 | 67.00 | Flow 7.1 | (Yes) No |
| | | | Meter 113540.30 | (Yes) No |
| 1459 | TW4-19 | 63.68 | Flow 18.0 | (Yes) No |
| | | | Meter 607593.40 | (Yes) No |
| 1328 | TW4-20 | 64.10 | Flow 6.5 | (Yes) No |
| | | | Meter 155463.80 | (Yes) No |
| 1350 | TW4-4 | 72.40 | Flow 9.0 | (Yes) No |
| | | | Meter 421953.00 | (Yes) No |
| 1319 | TWN-2 | 35.04 | Flow 18.6 | (Yes) No |
| | | | Meter 702964.00 | (Yes) No |
| 1325 | TW4-22 | 58.39 | Flow 18.0 | (Yes) No |
| | | | Meter 556713.60 | (Yes) No |
| 1322 | TW4-24 | 61.66 | Flow 16.0 | (Yes) No |
| | | | Meter 207515.30 | (Yes) No |
| 1316 | TW4-25 | 65.54 | Flow 14.5 | (Yes) No |
| | | | Meter 1751054.40 | (Yes) No |
| 1347 | TW4-1 | 98.14 | Flow 15.0 | (Yes) No |
| | | | Meter 147432.70 | (Yes) No |
| 1341 | TW4-2 | 86.15 | Flow 16.0 | (Yes) No |
| | | | Meter 148599.30 | (Yes) No |
| 1334 | TW4-11 | 92.30 | Flow 16.0 | (Yes) No |
| | | | Meter 33227.10 | (Yes) No |
| 1312 | TW4-21 | 68.16 | Flow 16.3 | (Yes) No |
| | | | Meter 658949.90 | (Yes) No |
| 1325 | TW4-37 | 62.47 | Flow 17.1 | (Yes) No |
| | | | Meter 588217.20 | (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.

Tab D

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

NAME: Garrin Palmer, Tanner Holliday

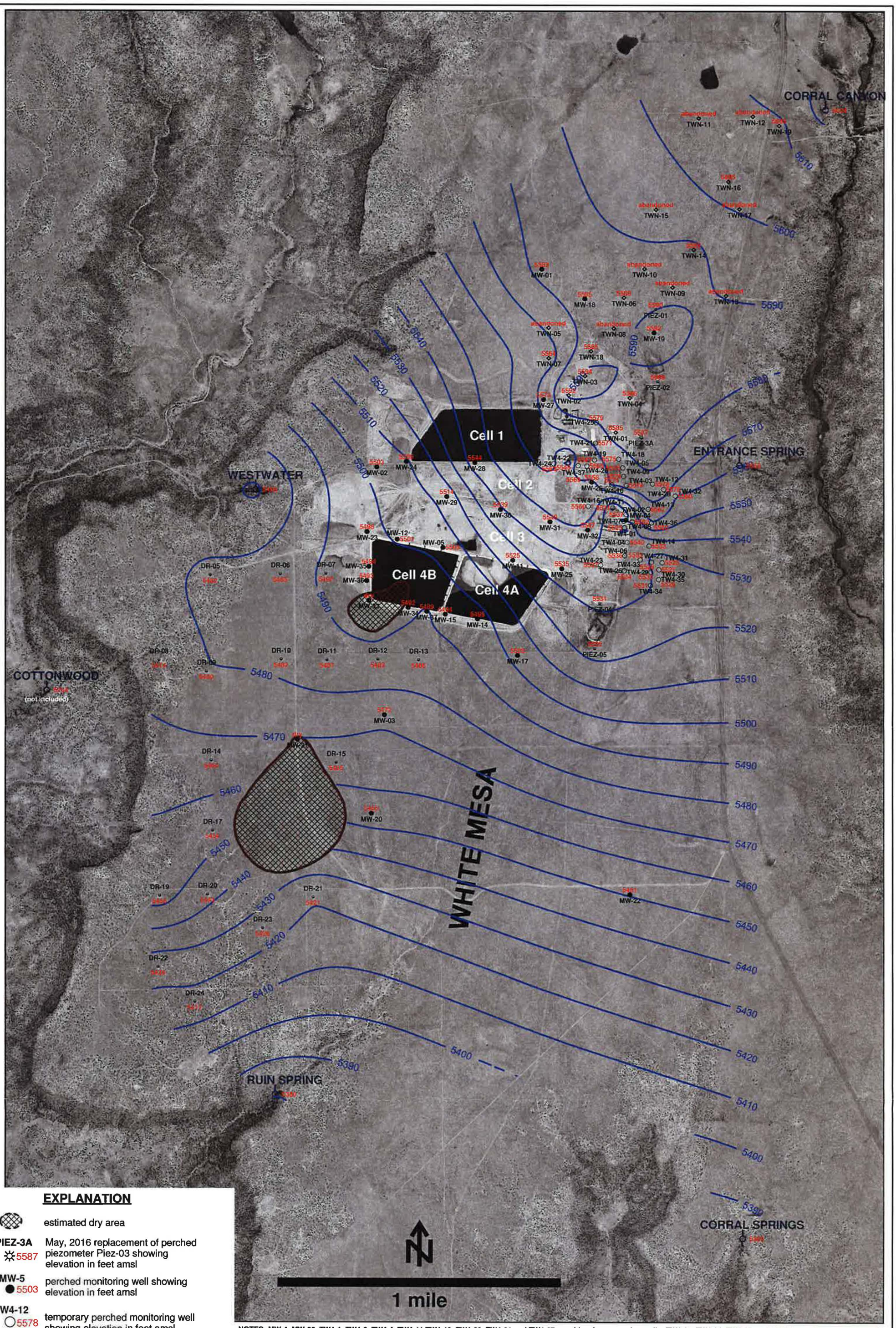
9/29/2016

| Time | Well | Depth to Water (ft.) |
|---|---|---|
| 1221 | MW-1 | 64.37 |
| 1400 | MW-2 | 109.80 |
| 1253 | MW-3 | 82.85 |
| 1253 | MW-3A | 84.76 |
| 1356 | MW-5 | 106.24 |
| 1409 | MW-11 | 86.07 |
| 1354 | MW-12 | 108.25 |
| 1332 | MW-14 | 103.09 |
| 1336 | MW-15 | 106.14 |
| 1238 | MW-17 | 72.02 |
| 1227 | MW-18 | 72.37 |
| 1215 | MW-19 | 62.51 |
| 711 | MW-20 | 85.40 |
| 759 | MW-22 | 66.95 |
| 1352 | MW-23 | 114.00 |
| 1440 | MW-24 | 112.87 |
| 1327 | MW-25 | 77.56 |
| 1436 | MW-26 | 67.46 |
| 1444 | MW-27 | 54.85 |
| 1437 | MW-28 | 75.31 |
| 1403 | MW-29 | 100.69 |
| 1405 | MW-30 | 75.45 |
| 1412 | MW-31 | 68.60 |
| 1416 | MW-32 | 77.95 |
| 1344 | MW-33 | DRY |
| 1340 | MW-34 | 107.80 |
| 1350 | MW-35 | 112.42 |
| 1348 | MW-36 | 110.55 |
| 1338 | MW-37 | 110.19 |

| Time | Well | Depth to Water (ft.) |
|---|---|---|
| 1423 | MW-4 | 81.37 |
| 1422 | TW4-1 | 94.10 |
| 1422 | TW4-2 | 88.02 |
| 1427 | TW4-3 | 57.86 |
| 1421 | TW4-4 | 73.10 |
| 1430 | TW4-5 | 65.58 |
| 1420 | TW4-6 | 73.24 |
| 1423 | TW4-7 | 76.46 |
| 1425 | TW4-8 | 79.70 |
| 1429 | TW4-9 | 63.33 |
| 1432 | TW4-10 | 62.97 |
| 1433 | TW4-11 | 92.98 |
| 1314 | TW4-12 | 46.69 |
| 1313 | TW4-13 | 52.95 |
| 1309 | TW4-14 | 79.53 |
| 1436 | TW4-15 | 67.46 |
| 1435 | TW4-16 | 64.30 |
| 1416 | TW4-17 | 77.95 |
| 1152 | TW4-18 | 66.26 |
| 1459 | TW4-19 | 64.01 |
| 901 | TW4-20 | 64.10 |
| 1455 | TW4-21 | 68.53 |
| 1449 | TW4-22 | 84.40 |
| 1419 | TW4-23 | 70.30 |
| 1448 | TW4-24 | 62.48 |
| 1453 | TW4-25 | 65.23 |
| 1420 | TW4-26 | 67.56 |
| 1300 | TW4-27 | 79.62 |
| 1316 | TW4-28 | 40.64 |
| 1308 | TW4-29 | 74.46 |
| 1303 | TW4-30 | 75.84 |
| 1301 | TW4-31 | 79.15 |
| 1317 | TW4-32 | 52.15 |
| 1258 | TW4-33 | 73.25 |
| 1306 | TW4-34 | 72.47 |
| 1304 | TW4-35 | 74.30 |
| 1311 | TW4-36 | 56.59 |
| 902 | TW4-37 | 62.45 |

| Time | Well | Depth to Water (ft.) |
|---|---|---|
| 1213 | PIEZ-1 | 65.55 |
| 1204 | PIEZ-2 | 40.10 |
| 1201 | PIEZ-3A | 50.90 |
| 1324 | PIEZ-4 | 60.00 |
| 1322 | PIEZ-5 | 59.66 |
| 1150 | TWN-1 | 63.14 |
| 1446 | TWN-2 | 35.02 |
| 1231 | TWN-3 | 40.71 |
| 1200 | TWN-4 | 56.15 |
| NA | TWN-5 | Abandonned |
| 1218 | TWN-6 | 78.78 |
| 1223 | TWN-7 | 85.05 |
| NA | TWN-8 | Abandonned |
| NA | TWN-9 | Abandonned |
| NA | TWN-10 | Abandonned |
| NA | TWN-11 | Abandonned |
| NA | TWN-12 | Abandonned |
| NA | TWN-13 | Abandonned |
| 1210 | TWN-14 | 61.17 |
| NA | TWN-15 | Abandonned |
| 1208 | TWN-16 | 47.70 |
| NA | TWN-17 | Abandonned |
| 1156 | TWN-18 | 60.76 |
| 838 | TWN-19 | 53.46 |

| Time | Well | Depth to Water (ft.) |
|---|---|---|
| NA | DR-1 | Abandonned |
| NA | DR-2 | Abandonned |
| 717 | DR-5 | 83.22 |
| 722 | DR-6 | 94.25 |
| 1345 | DR-7 | 92.14 |
| 731 | DR-8 | 51.25 |
| 727 | DR-9 | 86.66 |
| 724 | DR-10 | 78.40 |
| 1246 | DR-11 | 98.17 |
| 1244 | DR-12 | 91.09 |
| 1241 | DR-13 | 70.05 |
| 741 | DR-14 | 76.43 |
| 736 | DR-15 | 92.99 |
| NA | DR-16 | Abandonned |
| 745 | DR-17 | 65.02 |
| NA | DR-18 | Abandonned |
| 748 | DR-19 | 63.15 |
| 803 | DR-20 | 55.80 |
| 806 | DR-21 | 100.77 |
| 753 | DR-22 | 60.61 |
| 809 | DR-23 | 70.24 |
| 757 | DR-24 | 44.39 |
| NA | DR-25 | Abandonned |




## EXPLANATION

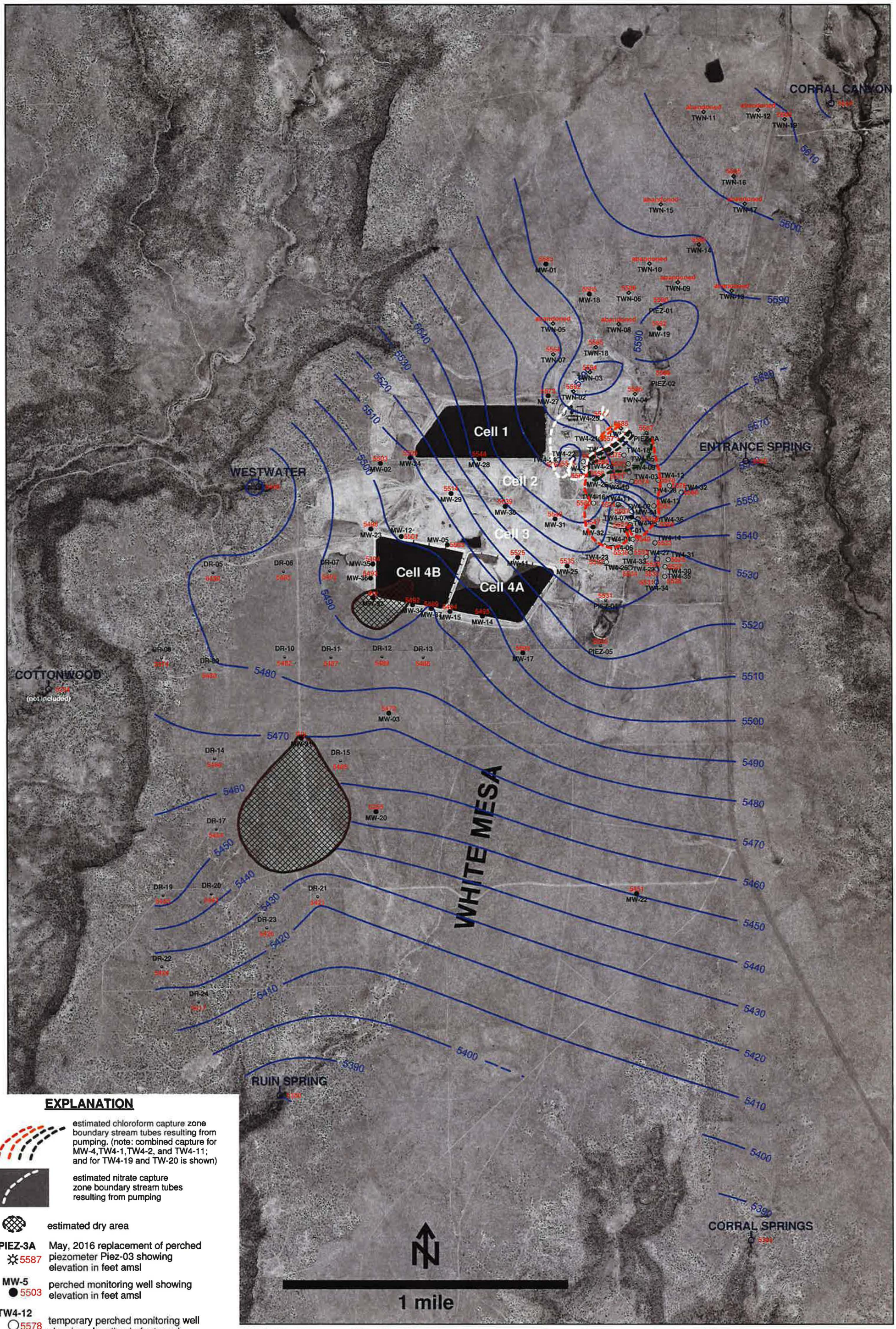
- estimated dry area
- **PIEZ-3A** ☼5587 — May, 2016 replacement of perched piezometer Piez-03 showing elevation in feet amsl
- **MW-5** ●5503 — perched monitoring well showing elevation in feet amsl
- **TW4-12** ○5578 — temporary perched monitoring well showing elevation in feet amsl
- **TWN-7** ◇5564 — temporary perched nitrate monitoring well showing elevation in feet amsl
- **PIEZ-1** ⌀5590 — perched piezometer showing elevation in feet amsl
- **RUIN SPRING** 5380 — seep or spring showing elevation in feet amsl

NOTES: MW-4, MW-26, TW4-1, TW4-2, TW4-4, TW4-11,TW4-19, TW4-20, TW4-21 and TW4-37 are chloroform pumping wells; TW4-22, TW4-24, TW4-25, and TWN-2 are nitrate pumping wells
TW4-11 water level is below the base of the Burro Canyon Formation

HYDRO GEO CHEM, INC.

# KRIGED 3rd QUARTER, 2016 WATER LEVELS WHITE MESA SITE

| APPROVED | DATE | REFERENCE | FIGURE |
|---|---|---|---|
| | | H:/718000/nov16/WL/Uwl0916_rev.srf | D-1 |




## EXPLANATION

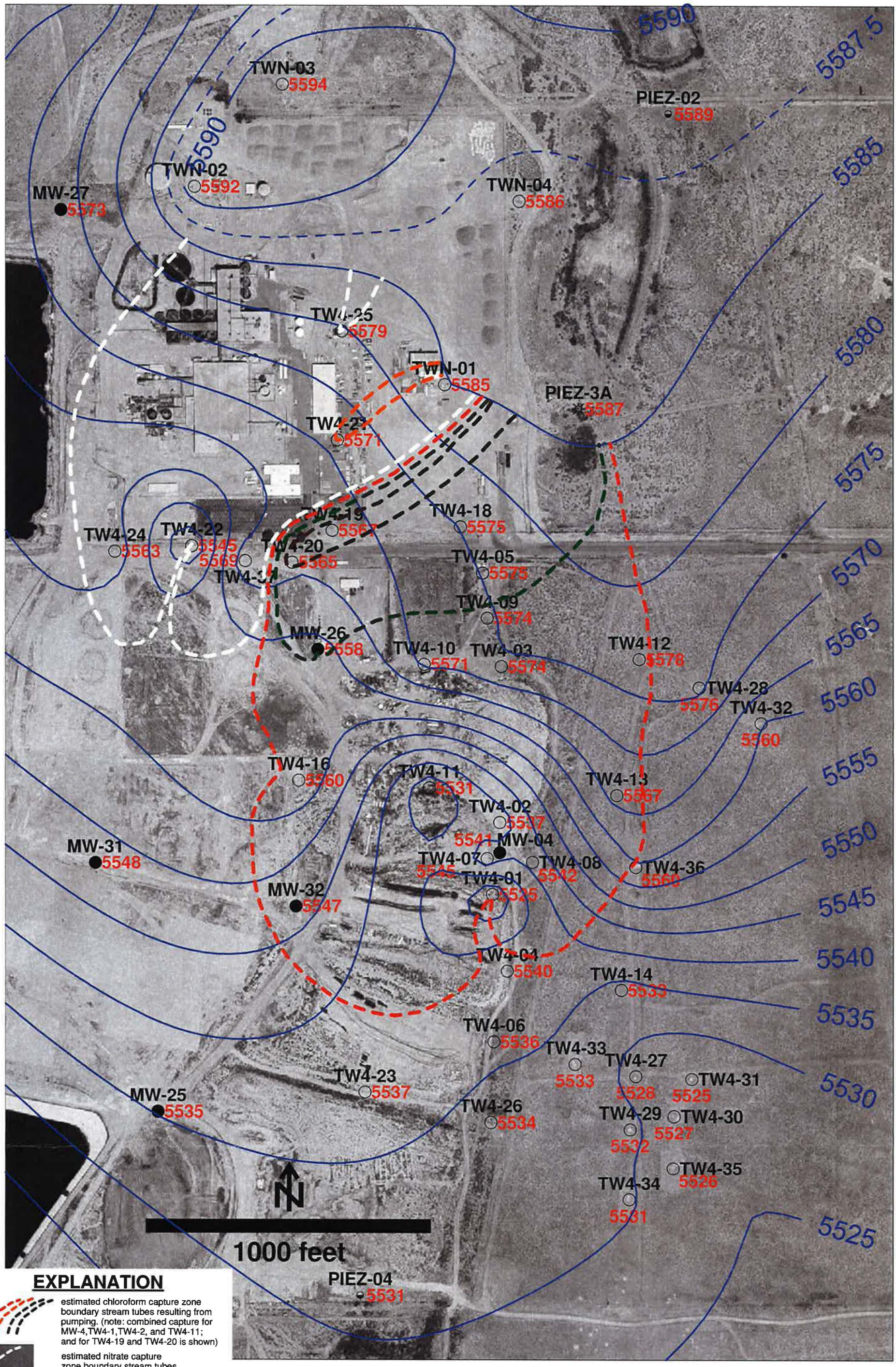
- estimated chloroform capture zone boundary stream tubes resulting from pumping. (note: combined capture for MW-4,TW4-1,TW4-2, and TW4-11; and for TW4-19 and TW-20 is shown)
- estimated nitrate capture zone boundary stream tubes resulting from pumping
- estimated dry area
- **PIEZ-3A** ☼5587 — May, 2016 replacement of perched piezometer Piez-03 showing elevation in feet amsl
- **MW-5** ●5503 — perched monitoring well showing elevation in feet amsl
- **TW4-12** ○5578 — temporary perched monitoring well showing elevation in feet amsl
- **TWN-7** ◇5564 — temporary perched nitrate monitoring well showing elevation in feet amsl
- **PIEZ-1** ⊖5590 — perched piezometer showing elevation in feet amsl
- **RUIN SPRING** 5380 — seep or spring showing elevation in feet amsl

NOTES: MW-4, MW-26, TW4-1, TW4-2, TW4-4, TW4-11,TW4-19, TW4-20, TW4-21 and TW4-37 are chloroform pumping wells; TW4-22, TW4-24, TW4-25, and TWN-2 are nitrate pumping wells
TW4-11 water level is below the base of the Burro Canyon Formation

HYDRO GEO CHEM, INC.

# KRIGED 3rd QUARTER, 2016 WATER LEVELS AND ESTIMATED CAPTURE ZONES WHITE MESA SITE

| APPROVED | DATE | REFERENCE | FIGURE |
|---|---|---|---|
| | | H:/718000/nov16/WL/Uwl0916cz2.srf | D-2 |




## EXPLANATION

- estimated chloroform capture zone boundary stream tubes resulting from pumping. (note: combined capture for MW-4,TW4-1,TW4-2, and TW4-11; and for TW4-19 and TW4-20 is shown)
- estimated nitrate capture zone boundary stream tubes resulting from pumping
- **PIEZ-3A** 5587 — May, 2016 replacement of perched piezometer Piez-03 showing elevation in feet amsl
- **MW-25** 5535 — perched monitoring well showing elevation in feet amsl
- **TW4-7** 5545 — temporary perched monitoring well showing elevation in feet amsl
- **PIEZ-2** 5589 — perched piezometer showing elevation in feet amsl

NOTES: MW-4, MW-26, TW4-1, TW4-2, TW4-4, TW4-11, TW4-19, TW4-20, TW4-21 and TW4-37 are chloroform pumping wells; TW4-22, TW4-24, TW4-25, and TWN-2 are nitrate pumping wells; TW4-11 water level is below the base of the Burro Canyon Formation

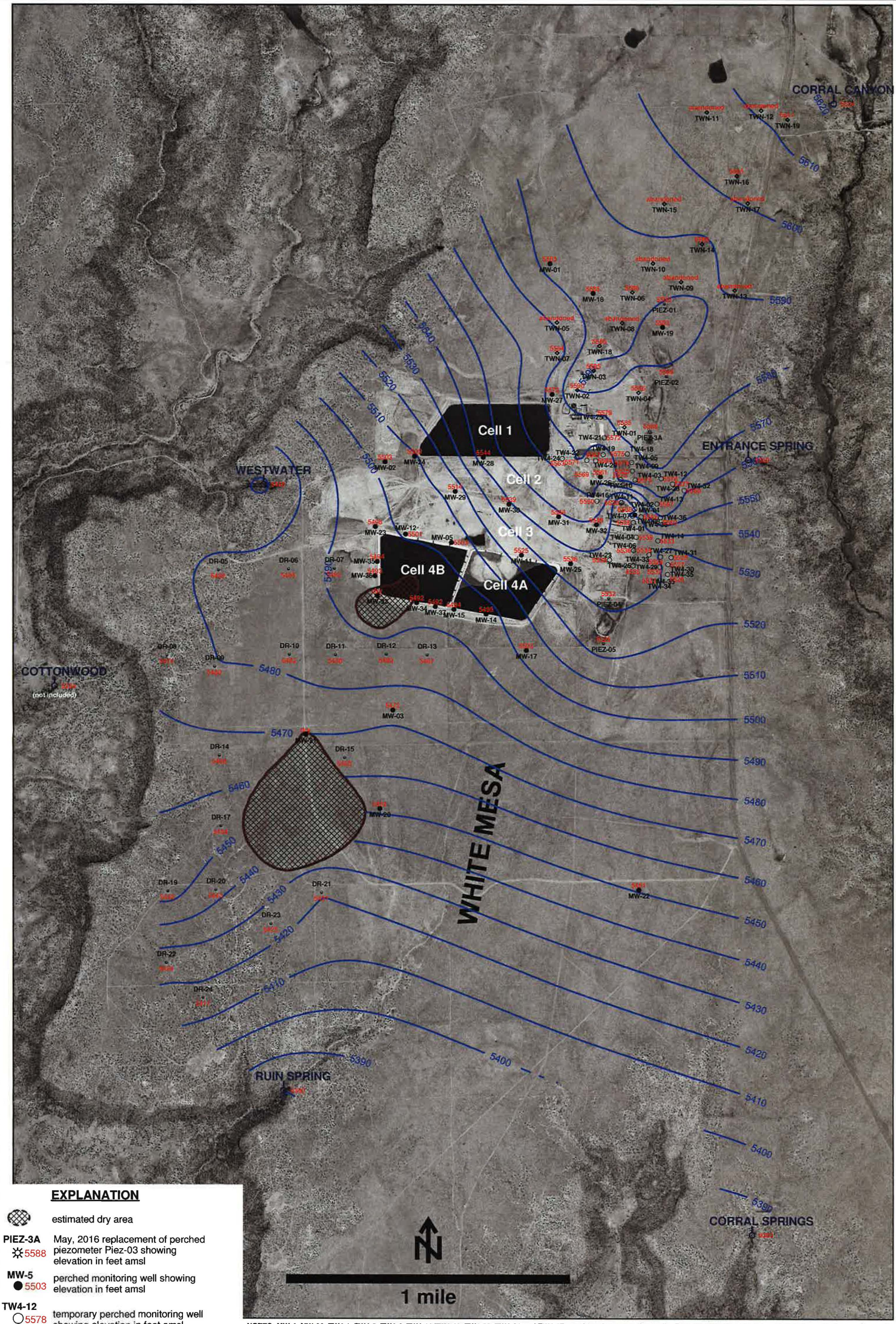
HYDRO GEO CHEM, INC.

**KRIGED 3rd QUARTER, 2016 WATER LEVELS AND ESTIMATED CAPTURE ZONES WHITE MESA SITE (detail map)**

| APPROVED | DATE | REFERENCE | FIGURE |
|---|---|---|---|
| | | H:/718000/nov16/WL/Uwl0916cz.srf | D-3 |

Tab E

Kriged Previous Quarter Groundwater Contour Map




## EXPLANATION

- estimated dry area
- **PIEZ-3A** ☼5588 — May, 2016 replacement of perched piezometer Piez-03 showing elevation in feet amsl
- **MW-5** ●5503 — perched monitoring well showing elevation in feet amsl
- **TW4-12** ○5578 — temporary perched monitoring well showing elevation in feet amsl
- **TWN-7** ◆5564 — temporary perched nitrate monitoring well showing elevation in feet amsl
- **PIEZ-1** ⊖5590 — perched piezometer showing elevation in feet amsl
- **RUIN SPRING** 5380 — seep or spring showing elevation in feet amsl

NOTES: MW-4, MW-26, TW4-1, TW4-2, TW4-4, TW4-11,TW4-19, TW4-20, TW4-21 and TW4-37 are chloroform pumping wells; TW4-22, TW4-24, TW4-25, and TWN-2 are nitrate pumping wells
TW4-11 water level is below the base of the Burro Canyon Formation

HYDRO GEO CHEM, INC.

# KRIGED 2nd QUARTER, 2016 WATER LEVELS WHITE MESA SITE

| APPROVED | DATE | REFERENCE | FIGURE |
|---|---|---|---|
| | | H:/718000/aug16/WL/Uwl0616.srf | E-1 |

Tab F

Depths to Groundwater and Elevations and Hydrographs of Groundwater Elevations Over Time for Chloroform Monitoring Wells

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

| Water Elevation (WL) | Land Surface (LSD) | Measuring Point Elevation (MP) | Length Of Riser (L) | Date Of Monitoring | Total or Measured Depth to Water (blw.MP) | Total Depth to Water (blw.LSD) | Total Depth Of Well |
|---|---|---|---|---|---|---|---|
| | 5,620.77 | 5,622.33 | 1.56 | | | | 123.6 |
| 5,527.63 | | | | 09/25/79 | 94.70 | 93.14 | |
| 5,527.63 | | | | 10/10/79 | 94.70 | 93.14 | |
| 5,528.43 | | | | 01/10/80 | 93.90 | 92.34 | |
| 5,529.93 | | | | 03/20/80 | 92.40 | 90.84 | |
| 5,528.03 | | | | 06/17/80 | 94.30 | 92.74 | |
| 5,528.03 | | | | 09/15/80 | 94.30 | 92.74 | |
| 5,527.93 | | | | 10/08/80 | 94.40 | 92.84 | |
| 5,527.93 | | | | 02/12/81 | 94.40 | 92.84 | |
| 5,525.93 | | | | 09/01/84 | 96.40 | 94.84 | |
| 5,528.33 | | | | 12/01/84 | 94.00 | 92.44 | |
| 5,528.13 | | | | 02/01/85 | 94.20 | 92.64 | |
| 5,528.33 | | | | 06/01/85 | 94.00 | 92.44 | |
| 5,528.93 | | | | 09/01/85 | 93.40 | 91.84 | |
| 5,528.93 | | | | 10/01/85 | 93.40 | 91.84 | |
| 5,528.93 | | | | 11/01/85 | 93.40 | 91.84 | |
| 5,528.83 | | | | 12/01/85 | 93.50 | 91.94 | |
| 5,512.33 | | | | 03/01/86 | 110.00 | 108.44 | |
| 5,528.91 | | | | 06/19/86 | 93.42 | 91.86 | |
| 5,528.83 | | | | 09/01/86 | 93.50 | 91.94 | |
| 5,529.16 | | | | 12/01/86 | 93.17 | 91.61 | |
| 5,526.66 | | | | 02/20/87 | 95.67 | 94.11 | |
| 5,529.16 | | | | 04/28/87 | 93.17 | 91.61 | |
| 5,529.08 | | | | 08/14/87 | 93.25 | 91.69 | |
| 5,529.00 | | | | 11/20/87 | 93.33 | 91.77 | |
| 5,528.75 | | | | 01/26/88 | 93.58 | 92.02 | |
| 5,528.91 | | | | 06/01/88 | 93.42 | 91.86 | |
| 5,528.25 | | | | 08/23/88 | 94.08 | 92.52 | |
| 5,529.00 | | | | 11/02/88 | 93.33 | 91.77 | |
| 5,528.33 | | | | 03/09/89 | 94.00 | 92.44 | |
| 5,529.10 | | | | 06/21/89 | 93.23 | 91.67 | |
| 5,529.06 | | | | 09/01/89 | 93.27 | 91.71 | |
| 5,529.21 | | | | 11/15/89 | 93.12 | 91.56 | |
| 5,529.22 | | | | 02/16/90 | 93.11 | 91.55 | |
| 5,529.43 | | | | 05/08/90 | 92.90 | 91.34 | |
| 5,529.40 | | | | 08/07/90 | 92.93 | 91.37 | |
| 5,529.53 | | | | 11/13/90 | 92.80 | 91.24 | |
| 5,529.86 | | | | 02/27/91 | 92.47 | 90.91 | |
| 5,529.91 | | | | 05/21/91 | 92.42 | 90.86 | |
| 5,529.77 | | | | 08/27/91 | 92.56 | 91.00 | |
| 5,529.79 | | | | 12/03/91 | 92.54 | 90.98 | |
| 5,530.13 | | | | 03/17/92 | 92.20 | 90.64 | |
| 5,529.85 | | | | 06/11/92 | 92.48 | 90.92 | |
| 5,529.90 | | | | 09/13/92 | 92.43 | 90.87 | |

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

| Water Elevation (WL) | Land Surface (LSD) | Measuring Point Elevation (MP) | Length Of Riser (L) | Date Of Monitoring | Total or Measured Depth to Water (blw.MP) | Total Depth to Water (blw.LSD) | Total Depth Of Well |
|---|---|---|---|---|---|---|---|
| | 5,620.77 | 5,622.33 | 1.56 | | | | 123.6 |
| 5,529.92 | | | | 12/09/92 | 92.41 | 90.85 | |
| 5,530.25 | | | | 03/24/93 | 92.08 | 90.52 | |
| 5,530.20 | | | | 06/08/93 | 92.13 | 90.57 | |
| 5,530.19 | | | | 09/22/93 | 92.14 | 90.58 | |
| 5,529.75 | | | | 12/14/93 | 92.58 | 91.02 | |
| 5,530.98 | | | | 03/24/94 | 91.35 | 89.79 | |
| 5,531.35 | | | | 06/15/94 | 90.98 | 89.42 | |
| 5,531.62 | | | | 08/18/94 | 90.71 | 89.15 | |
| 5,532.58 | | | | 12/13/94 | 89.75 | 88.19 | |
| 5,533.42 | | | | 03/16/95 | 88.91 | 87.35 | |
| 5,534.70 | | | | 06/27/95 | 87.63 | 86.07 | |
| 5,535.44 | | | | 09/20/95 | 86.89 | 85.33 | |
| 5,537.16 | | | | 12/11/95 | 85.17 | 83.61 | |
| 5,538.37 | | | | 03/28/96 | 83.96 | 82.40 | |
| 5,539.10 | | | | 06/07/96 | 83.23 | 81.67 | |
| 5,539.13 | | | | 09/16/96 | 83.20 | 81.64 | |
| 5,542.29 | | | | 03/20/97 | 80.04 | 78.48 | |
| 5,551.58 | | | | 04/07/99 | 70.75 | 69.19 | |
| 5,552.08 | | | | 05/11/99 | 70.25 | 68.69 | |
| 5,552.83 | | | | 07/06/99 | 69.50 | 67.94 | |
| 5,553.47 | | | | 09/28/99 | 68.86 | 67.30 | |
| 5,554.63 | | | | 01/03/00 | 67.70 | 66.14 | |
| 5,555.13 | | | | 04/04/00 | 67.20 | 65.64 | |
| 5,555.73 | | | | 05/02/00 | 66.60 | 65.04 | |
| 5,556.03 | | | | 05/11/00 | 66.30 | 64.74 | |
| 5,555.73 | | | | 05/15/00 | 66.60 | 65.04 | |
| 5,555.98 | | | | 05/25/00 | 66.35 | 64.79 | |
| 5,556.05 | | | | 06/09/00 | 66.28 | 64.72 | |
| 5,556.18 | | | | 06/16/00 | 66.15 | 64.59 | |
| 5,556.05 | | | | 06/26/00 | 66.28 | 64.72 | |
| 5,556.15 | | | | 07/06/00 | 66.18 | 64.62 | |
| 5,556.18 | | | | 07/13/00 | 66.15 | 64.59 | |
| 5,556.17 | | | | 07/18/00 | 66.16 | 64.60 | |
| 5,556.26 | | | | 07/25/00 | 66.07 | 64.51 | |
| 5,556.35 | | | | 08/02/00 | 65.98 | 64.42 | |
| 5,556.38 | | | | 08/09/00 | 65.95 | 64.39 | |
| 5,556.39 | | | | 08/15/00 | 65.94 | 64.38 | |
| 5,556.57 | | | | 08/31/00 | 65.76 | 64.20 | |
| 5,556.68 | | | | 09/08/00 | 65.65 | 64.09 | |
| 5,556.73 | | | | 09/13/00 | 65.60 | 64.04 | |
| 5,556.82 | | | | 09/20/00 | 65.51 | 63.95 | |
| 5,556.84 | | | | 09/29/00 | 65.49 | 63.93 | |
| 5,556.81 | | | | 10/05/00 | 65.52 | 63.96 | |

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

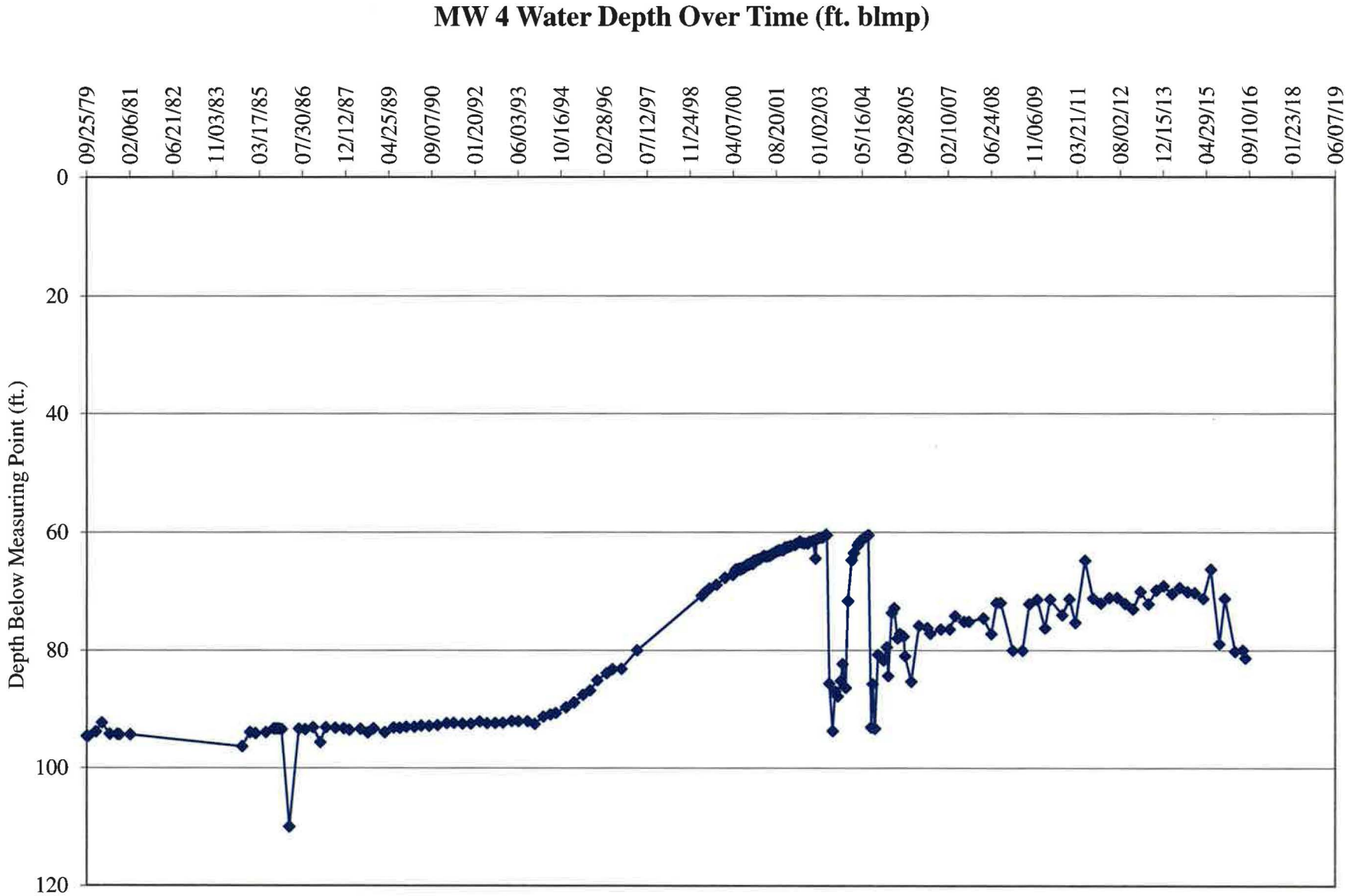
| Water Elevation (WL) | Land Surface (LSD) | Measuring Point Elevation (MP) | Length Of Riser (L) | Date Of Monitoring | Total or Measured Depth to Water (blw.MP) | Total Depth to Water (blw.LSD) | Total Depth Of Well |
|---|---|---|---|---|---|---|---|
| | 5,620.77 | 5,622.33 | 1.56 | | | | 123.6 |
| 5,556.89 | | | | 10/12/00 | 65.44 | 63.88 | |
| 5,556.98 | | | | 10/19/00 | 65.35 | 63.79 | |
| 5,557.01 | | | | 10/23/00 | 65.32 | 63.76 | |
| 5,557.14 | | | | 11/09/00 | 65.19 | 63.63 | |
| 5,557.17 | | | | 11/14/00 | 65.16 | 63.60 | |
| 5,556.95 | | | | 11/21/00 | 65.38 | 63.82 | |
| 5,557.08 | | | | 11/30/00 | 65.25 | 63.69 | |
| 5,557.55 | | | | 12/07/00 | 64.78 | 63.22 | |
| 5,557.66 | | | | 01/14/01 | 64.67 | 63.11 | |
| 5,557.78 | | | | 02/09/01 | 64.55 | 62.99 | |
| 5,558.28 | | | | 03/29/01 | 64.05 | 62.49 | |
| 5,558.23 | | | | 04/30/01 | 64.10 | 62.54 | |
| 5,558.31 | | | | 05/31/01 | 64.02 | 62.46 | |
| 5,558.49 | | | | 06/22/01 | 63.84 | 62.28 | |
| 5,558.66 | | | | 07/10/01 | 63.67 | 62.11 | |
| 5,559.01 | | | | 08/20/01 | 63.32 | 61.76 | |
| 5,559.24 | | | | 09/19/01 | 63.09 | 61.53 | |
| 5,559.26 | | | | 10/02/01 | 63.07 | 61.51 | |
| 5,559.27 | | | | 11/08/01 | 63.06 | 61.50 | |
| 5,559.77 | | | | 12/03/01 | 62.56 | 61.00 | |
| 5,559.78 | | | | 01/03/02 | 62.55 | 60.99 | |
| 5,559.96 | | | | 02/06/02 | 62.37 | 60.81 | |
| 5,560.16 | | | | 03/26/02 | 62.17 | 60.61 | |
| 5,560.28 | | | | 04/09/02 | 62.05 | 60.49 | |
| 5,560.76 | | | | 05/23/02 | 61.57 | 60.01 | |
| 5,560.58 | | | | 06/05/02 | 61.75 | 60.19 | |
| 5,560.43 | | | | 07/08/02 | 61.90 | 60.34 | |
| 5,560.44 | | | | 08/23/02 | 61.89 | 60.33 | |
| 5,560.71 | | | | 09/11/02 | 61.62 | 60.06 | |
| 5,560.89 | | | | 10/23/02 | 61.44 | 59.88 | |
| 5,557.86 | | | | 11/22/02 | 64.47 | 62.91 | |
| 5,561.10 | | | | 12/03/02 | 61.23 | 59.67 | |
| 5,561.39 | | | | 01/09/03 | 60.94 | 59.38 | |
| 5,561.41 | | | | 02/12/03 | 60.92 | 59.36 | |
| 5,561.93 | | | | 03/26/03 | 60.40 | 58.84 | |
| 5,561.85 | | | | 04/02/03 | 60.48 | 58.92 | |
| 5,536.62 | | | | 05/01/03 | 85.71 | 84.15 | |
| 5,528.56 | | | | 06/09/03 | 93.77 | 92.21 | |
| 5,535.28 | | | | 07/07/03 | 87.05 | 85.49 | |
| 5,534.44 | | | | 08/04/03 | 87.89 | 86.33 | |
| 5,537.10 | | | | 09/11/03 | 85.23 | 83.67 | |
| 5,539.96 | | | | 10/02/03 | 82.37 | 80.81 | |
| 5,535.91 | | | | 11/07/03 | 86.42 | 84.86 | |

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

| Water Elevation (WL) | Land Surface (LSD) | Measuring Point Elevation (MP) | Length Of Riser (L) | Date Of Monitoring | Total or Measured Depth to Water (blw.MP) | Total Depth to Water (blw.LSD) | Total Depth Of Well |
|---|---|---|---|---|---|---|---|
| | 5,620.77 | 5,622.33 | 1.56 | | | | 123.6 |
| 5,550.70 | | | | 12/03/03 | 71.63 | 70.07 | |
| 5,557.58 | | | | 01/15/04 | 64.75 | 63.19 | |
| 5,558.80 | | | | 02/10/04 | 63.53 | 61.97 | |
| 5,560.08 | | | | 03/28/04 | 62.25 | 60.69 | |
| 5,560.55 | | | | 04/12/04 | 61.78 | 60.22 | |
| 5,561.06 | | | | 05/13/04 | 61.27 | 59.71 | |
| 5,561.48 | | | | 06/18/04 | 60.85 | 59.29 | |
| 5,561.86 | | | | 07/28/04 | 60.47 | 58.91 | |
| 5,529.17 | | | | 08/30/04 | 93.16 | 91.60 | |
| 5,536.55 | | | | 09/16/04 | 85.78 | 84.22 | |
| 5,529.00 | | | | 10/11/04 | 93.33 | 91.77 | |
| 5,541.55 | | | | 11/16/04 | 80.78 | 79.22 | |
| 5,541.12 | | | | 12/22/04 | 81.21 | 79.65 | |
| 5,540.59 | | | | 01/18/05 | 81.74 | 80.18 | |
| 5,542.85 | | | | 02/28/05 | 79.48 | 77.92 | |
| 5,537.91 | | | | 03/15/05 | 84.42 | 82.86 | |
| 5,548.67 | | | | 04/26/05 | 73.66 | 72.10 | |
| 5,549.53 | | | | 05/24/05 | 72.80 | 71.24 | |
| 5,544.36 | | | | 06/30/05 | 77.97 | 76.41 | |
| 5,545.16 | | | | 07/29/05 | 77.17 | 75.61 | |
| 5,544.67 | | | | 09/12/05 | 77.66 | 76.10 | |
| 5,541.28 | | | | 09/27/05 | 81.05 | 79.49 | |
| 5,536.96 | | | | 12/07/05 | 85.37 | 83.81 | |
| 5,546.49 | | | | 03/08/06 | 75.84 | 74.28 | |
| 5,546.15 | | | | 06/13/06 | 76.18 | 74.62 | |
| 5,545.15 | | | | 07/18/06 | 77.18 | 75.62 | |
| 5,545.91 | | | | 11/17/06 | 76.42 | 74.86 | |
| 5,545.90 | | | | 02/27/07 | 76.43 | 74.87 | |
| 5,548.16 | | | | 05/02/07 | 74.17 | 72.61 | |
| 5,547.20 | | | | 08/13/07 | 75.13 | 73.57 | |
| 5,547.20 | | | | 10/10/07 | 75.13 | 73.57 | |
| 5,547.79 | | | | 03/26/08 | 74.54 | 72.98 | |
| 5,545.09 | | | | 06/25/08 | 77.24 | 75.68 | |
| 5,550.36 | | | | 08/26/08 | 71.97 | 70.41 | |
| 5,550.39 | | | | 10/14/08 | 71.94 | 70.38 | |
| 5,542.25 | | | | 03/03/09 | 80.08 | 78.52 | |
| 5,542.25 | | | | 06/24/09 | 80.08 | 78.52 | |
| 5,550.19 | | | | 09/10/09 | 72.14 | 70.58 | |
| 5,550.94 | | | | 12/11/09 | 71.39 | 69.83 | |
| 5,546.08 | | | | 03/11/10 | 76.25 | 74.69 | |
| 5,550.98 | | | | 05/11/10 | 71.35 | 69.79 | |
| 5,548.33 | | | | 09/29/10 | 74.00 | 72.44 | |
| 5,551.01 | | | | 12/21/10 | 71.32 | 69.76 | |

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

| Water Elevation (WL) | Land Surface (LSD) | Measuring Point Elevation (MP) | Length Of Riser (L) | Date Of Monitoring | Total or Measured Depth to Water (blw.MP) | Total Depth to Water (blw.LSD) | Total Depth Of Well |
|---|---|---|---|---|---|---|---|
| | 5,620.77 | 5,622.33 | 1.56 | | | | 123.6 |
| 5,547.00 | | | | 02/28/11 | 75.33 | 73.77 | |
| 5,557.54 | | | | 06/21/11 | 64.79 | 63.23 | |
| 5,551.14 | | | | 09/20/11 | 71.19 | 69.63 | |
| 5,550.32 | | | | 12/21/11 | 72.01 | 70.45 | |
| 5,551.22 | | | | 03/27/12 | 71.11 | 69.55 | |
| 5,551.29 | | | | 06/28/12 | 71.04 | 69.48 | |
| 5,550.29 | | | | 09/27/12 | 72.04 | 70.48 | |
| 5,549.31 | | | | 12/28/12 | 73.02 | 71.46 | |
| 5,552.30 | | | | 03/28/13 | 70.03 | 68.47 | |
| 5,550.18 | | | | 06/27/13 | 72.15 | 70.59 | |
| 5,552.55 | | | | 09/27/13 | 69.78 | 68.22 | |
| 5,553.23 | | | | 12/20/13 | 69.10 | 67.54 | |
| 5,551.91 | | | | 03/27/14 | 70.42 | 68.86 | |
| 5,552.93 | | | | 06/25/14 | 69.40 | 67.84 | |
| 5,552.23 | | | | 09/25/14 | 70.10 | 68.54 | |
| 5,552.08 | | | | 12/17/14 | 70.25 | 68.69 | |
| 5,551.13 | | | | 03/26/15 | 71.20 | 69.64 | |
| 5,556.02 | | | | 06/22/15 | 66.31 | 64.75 | |
| 5,543.38 | | | | 09/30/15 | 78.95 | 77.39 | |
| 5,551.13 | | | | 12/02/15 | 71.20 | 69.64 | |
| 5,542.10 | | | | 03/30/16 | 80.23 | 78.67 | |
| 5,542.31 | | | | 06/30/16 | 80.02 | 78.46 | |
| 5,540.96 | | | | 09/29/16 | 81.37 | 79.81 | |


MW 4 Water Depth Over Time (ft. blmp)
Depth Below Measuring Point (ft.)
0
20
40
60
80
100
120
09/25/79
02/06/81
06/21/82
11/03/83
03/17/85
07/30/86
12/12/87
04/25/89
09/07/90
01/20/92
06/03/93
10/16/94
02/28/96
07/12/97
11/24/98
04/07/00
08/20/01
01/02/03
05/16/04
09/28/05
02/10/07
06/24/08
11/06/09
03/21/11
08/02/12
12/15/13
04/29/15
09/10/16
01/23/18
06/07/19

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

| Water Elevation (WL) | Land Surface (LSD) | Measuring Point Elevation (MP) | Length Of Riser (L) | Date Of Monitoring | Total or Measured Depth to Water (blw.MP) | Total Depth to Water (blw.LSD) | Total Depth Of Well |
|---|---|---|---|---|---|---|---|
| z | 5,620.77 | 5,618.58 | 1.02 | | | | 111.04 |
| 5,537.23 | | | | 11/08/99 | 81.35 | 80.33 | |
| 5,537.38 | | | | 11/09/99 | 81.20 | 80.18 | |
| 5,537.48 | | | | 01/02/00 | 81.10 | 80.08 | |
| 5,537.48 | | | | 01/10/00 | 81.10 | 80.08 | |
| 5,537.23 | | | | 01/17/00 | 81.35 | 80.33 | |
| 5,537.28 | | | | 01/24/00 | 81.30 | 80.28 | |
| 5,537.28 | | | | 02/01/00 | 81.30 | 80.28 | |
| 5,537.18 | | | | 02/07/00 | 81.40 | 80.38 | |
| 5,537.48 | | | | 02/14/00 | 81.10 | 80.08 | |
| 5,537.48 | | | | 02/23/00 | 81.10 | 80.08 | |
| 5,537.58 | | | | 03/01/00 | 81.00 | 79.98 | |
| 5,537.68 | | | | 03/08/00 | 80.90 | 79.88 | |
| 5,537.98 | | | | 03/15/00 | 80.60 | 79.58 | |
| 5,537.68 | | | | 03/20/00 | 80.90 | 79.88 | |
| 5,537.68 | | | | 03/29/00 | 80.90 | 79.88 | |
| 5,537.43 | | | | 04/04/00 | 81.15 | 80.13 | |
| 5,537.18 | | | | 04/13/00 | 81.40 | 80.38 | |
| 5,537.48 | | | | 04/21/00 | 81.10 | 80.08 | |
| 5,537.68 | | | | 04/28/00 | 80.90 | 79.88 | |
| 5,537.58 | | | | 05/01/00 | 81.00 | 79.98 | |
| 5,537.88 | | | | 05/11/00 | 80.70 | 79.68 | |
| 5,537.58 | | | | 05/15/00 | 81.00 | 79.98 | |
| 5,537.88 | | | | 05/25/00 | 80.70 | 79.68 | |
| 5,537.88 | | | | 06/09/00 | 80.70 | 79.68 | |
| 5,537.90 | | | | 06/16/00 | 80.68 | 79.66 | |
| 5,537.88 | | | | 06/26/00 | 80.70 | 79.68 | |
| 5,538.10 | | | | 07/06/00 | 80.48 | 79.46 | |
| 5,538.04 | | | | 07/13/00 | 80.54 | 79.52 | |
| 5,538.16 | | | | 07/18/00 | 80.42 | 79.40 | |
| 5,538.42 | | | | 07/27/00 | 80.16 | 79.14 | |
| 5,538.56 | | | | 08/02/00 | 80.02 | 79.00 | |
| 5,538.68 | | | | 08/09/00 | 79.90 | 78.88 | |
| 5,538.66 | | | | 08/15/00 | 79.92 | 78.90 | |
| 5,538.33 | | | | 08/31/00 | 80.25 | 79.23 | |
| 5,539.18 | | | | 09/01/00 | 79.40 | 78.38 | |
| 5,539.12 | | | | 09/08/00 | 79.46 | 78.44 | |
| 5,539.34 | | | | 09/13/00 | 79.24 | 78.22 | |
| 5,539.50 | | | | 09/20/00 | 79.08 | 78.06 | |
| 5,539.69 | | | | 10/05/00 | 78.89 | 77.87 | |
| 5,540.33 | | | | 11/09/00 | 78.25 | 77.23 | |
| 5,540.74 | | | | 12/06/00 | 77.84 | 76.82 | |
| 5,542.39 | | | | 01/14/01 | 76.19 | 75.17 | |
| 5,543.69 | | | | 02/02/01 | 74.89 | 73.87 | |

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

| Water Elevation (WL) | Land Surface (LSD) | Measuring Point Elevation (MP) | Length Of Riser (L) | Date Of Monitoring | Total or Measured Depth to Water (blw.MP) | Total Depth to Water (blw.LSD) | Total Depth Of Well |
|---|---|---|---|---|---|---|---|
| z | 5,620.77 | 5,618.58 | 1.02 | | | | 111.04 |
| 5,544.96 | | | | 03/29/01 | 73.62 | 72.60 | |
| 5,545.45 | | | | 04/30/01 | 73.13 | 72.11 | |
| 5,545.89 | | | | 05/31/01 | 72.69 | 71.67 | |
| 5,546.19 | | | | 06/21/01 | 72.39 | 71.37 | |
| 5,546.50 | | | | 07/10/01 | 72.08 | 71.06 | |
| 5,547.18 | | | | 08/20/01 | 71.40 | 70.38 | |
| 5,547.59 | | | | 09/19/01 | 70.99 | 69.97 | |
| 5,547.84 | | | | 10/02/01 | 70.74 | 69.72 | |
| 5,548.12 | | | | 11/08/01 | 70.46 | 69.44 | |
| 5,548.65 | | | | 12/03/01 | 69.93 | 68.91 | |
| 5,548.87 | | | | 01/03/02 | 69.71 | 68.69 | |
| 5,549.37 | | | | 02/06/02 | 69.21 | 68.19 | |
| 5,550.00 | | | | 03/26/02 | 68.58 | 67.56 | |
| 5,550.22 | | | | 04/09/02 | 68.36 | 67.34 | |
| 5,550.81 | | | | 05/23/02 | 67.77 | 66.75 | |
| 5,550.79 | | | | 06/05/02 | 67.79 | 66.77 | |
| 5,551.08 | | | | 07/08/02 | 67.50 | 66.48 | |
| 5,551.54 | | | | 08/23/02 | 67.04 | 66.02 | |
| 5,551.79 | | | | 09/11/02 | 66.79 | 65.77 | |
| 5,552.19 | | | | 10/23/02 | 66.39 | 65.37 | |
| 5,552.27 | | | | 11/22/02 | 66.31 | 65.29 | |
| 5,552.48 | | | | 12/03/02 | 66.10 | 65.08 | |
| 5,552.74 | | | | 01/09/03 | 65.84 | 64.82 | |
| 5,552.92 | | | | 02/12/03 | 65.66 | 64.64 | |
| 5,553.40 | | | | 03/26/03 | 65.18 | 64.16 | |
| 5,553.48 | | | | 04/02/03 | 65.10 | 64.08 | |
| 5,552.32 | | | | 05/01/03 | 66.26 | 65.24 | |
| 5,550.53 | | | | 06/09/03 | 68.05 | 67.03 | |
| 5,550.09 | | | | 07/07/03 | 68.49 | 67.47 | |
| 5,549.64 | | | | 08/04/03 | 68.94 | 67.92 | |
| 5,549.31 | | | | 09/11/03 | 69.27 | 68.25 | |
| 5,549.58 | | | | 10/02/03 | 69.00 | 67.98 | |
| 5,549.50 | | | | 11/07/03 | 69.08 | 68.06 | |
| 5,550.07 | | | | 12/03/03 | 68.51 | 67.49 | |
| 5,551.86 | | | | 01/15/04 | 66.72 | 65.70 | |
| 5,552.57 | | | | 02/10/04 | 66.01 | 64.99 | |
| 5,553.63 | | | | 03/28/04 | 64.95 | 63.93 | |
| 5,554.04 | | | | 04/12/04 | 64.54 | 63.52 | |
| 5,554.60 | | | | 05/13/04 | 63.98 | 62.96 | |
| 5,556.28 | | | | 06/18/04 | 62.30 | 61.28 | |
| 5,556.61 | | | | 07/28/04 | 61.97 | 60.95 | |
| 5,554.21 | | | | 08/30/04 | 64.37 | 63.35 | |
| 5,553.49 | | | | 09/16/04 | 65.09 | 64.07 | |

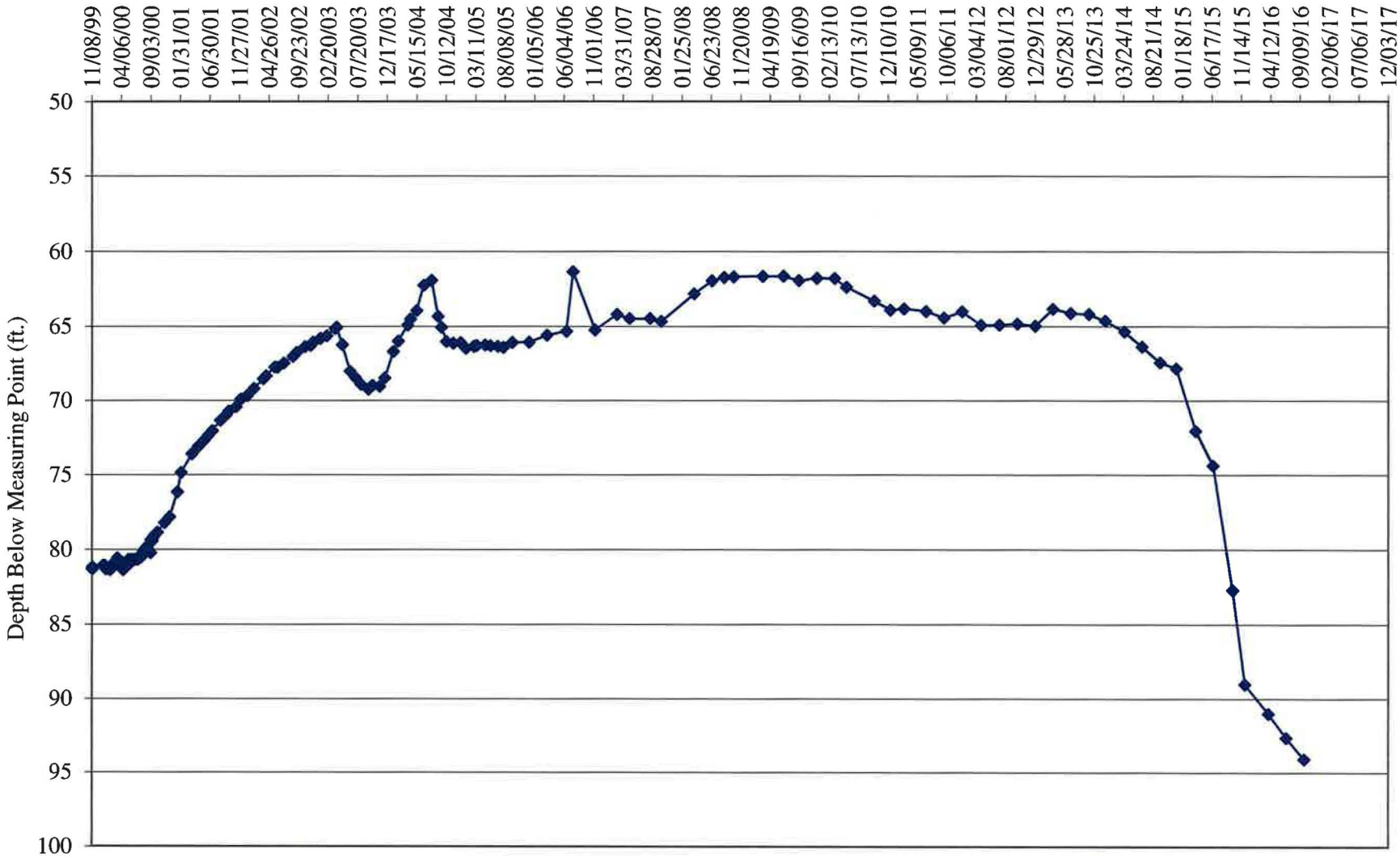
# Water Levels and Data over Time
# White Mesa Mill - Well TW4-1

| Water Elevation (WL) | Land Surface (LSD) | Measuring Point Elevation (MP) | Length Of Riser (L) | Date Of Monitoring | Total or Measured Depth to Water (blw.MP) | Total Depth to Water (blw.LSD) | Total Depth Of Well |
|---|---|---|---|---|---|---|---|
| z | 5,620.77 | 5,618.58 | 1.02 | | | | 111.04 |
| 5,552.53 | | | | 10/11/04 | 66.05 | 65.03 | |
| 5,552.42 | | | | 11/16/04 | 66.16 | 65.14 | |
| 5,552.46 | | | | 12/22/04 | 66.12 | 65.10 | |
| 5,552.07 | | | | 01/18/05 | 66.51 | 65.49 | |
| 5,552.21 | | | | 02/28/05 | 66.37 | 65.35 | |
| 5,552.26 | | | | 03/15/05 | 66.32 | 65.30 | |
| 5,552.30 | | | | 04/26/05 | 66.28 | 65.26 | |
| 5,552.25 | | | | 05/24/05 | 66.33 | 65.31 | |
| 5,552.22 | | | | 06/30/05 | 66.36 | 65.34 | |
| 5,552.15 | | | | 07/29/05 | 66.43 | 65.41 | |
| 5,552.47 | | | | 09/12/05 | 66.11 | 65.09 | |
| 5,552.50 | | | | 12/07/05 | 66.08 | 65.06 | |
| 5,552.96 | | | | 03/08/06 | 65.62 | 64.60 | |
| 5,553.23 | | | | 06/14/06 | 65.35 | 64.33 | |
| 5,557.20 | | | | 07/18/06 | 61.38 | 60.36 | |
| 5,553.32 | | | | 11/07/06 | 65.26 | 64.24 | |
| 5,554.35 | | | | 02/27/07 | 64.23 | 63.21 | |
| 5,554.07 | | | | 05/02/07 | 64.51 | 63.49 | |
| 5,554.07 | | | | 08/14/07 | 64.51 | 63.49 | |
| 5,553.88 | | | | 10/10/07 | 64.70 | 63.68 | |
| 5,555.73 | | | | 03/26/08 | 62.85 | 61.83 | |
| 5,556.60 | | | | 06/24/08 | 61.98 | 60.96 | |
| 5,556.83 | | | | 08/26/08 | 61.75 | 60.73 | |
| 5,556.87 | | | | 10/14/08 | 61.71 | 60.69 | |
| 5,556.90 | | | | 03/10/09 | 61.68 | 60.66 | |
| 5,556.91 | | | | 06/24/09 | 61.67 | 60.65 | |
| 5,556.61 | | | | 09/10/09 | 61.97 | 60.95 | |
| 5,556.78 | | | | 12/11/09 | 61.8 | 60.78 | |
| 5,556.75 | | | | 03/11/10 | 61.83 | 60.81 | |
| 5,556.19 | | | | 05/11/10 | 62.39 | 61.37 | |
| 5,555.26 | | | | 09/29/10 | 63.32 | 62.30 | |
| 5,554.66 | | | | 12/21/10 | 63.92 | 62.90 | |
| 5,554.74 | | | | 02/28/11 | 63.84 | 62.82 | |
| 5,554.57 | | | | 06/21/11 | 64.01 | 62.99 | |
| 5,554.13 | | | | 09/20/11 | 64.45 | 63.43 | |
| 5,554.54 | | | | 12/21/11 | 64.04 | 63.02 | |
| 5,553.64 | | | | 03/27/12 | 64.94 | 63.92 | |
| 5,553.66 | | | | 06/28/12 | 64.92 | 63.90 | |
| 5,553.73 | | | | 09/27/12 | 64.85 | 63.83 | |
| 5,553.59 | | | | 12/28/12 | 64.99 | 63.97 | |
| 5,554.73 | | | | 03/28/13 | 63.85 | 62.83 | |
| 5,554.44 | | | | 06/27/13 | 64.14 | 63.12 | |
| 5,554.37 | | | | 09/27/13 | 64.21 | 63.19 | |

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

| Water Elevation (WL) | Land Surface (LSD) | Measuring Point Elevation (MP) | Length Of Riser (L) | Date Of Monitoring | Total or Measured Depth to Water (blw.MP) | Total Depth to Water (blw.LSD) | Total Depth Of Well |
|---|---|---|---|---|---|---|---|
| z | 5,620.77 | 5,618.58 | 1.02 | | | | 111.04 |
| 5,553.92 | | | | 12/20/13 | 64.66 | 63.64 | |
| 5,553.20 | | | | 03/27/14 | 65.38 | 64.36 | |
| 5,552.20 | | | | 06/25/14 | 66.38 | 65.36 | |
| 5,551.13 | | | | 09/25/14 | 67.45 | 66.43 | |
| 5,550.72 | | | | 12/17/14 | 67.86 | 66.84 | |
| 5,546.50 | | | | 03/26/15 | 72.08 | 71.06 | |
| 5,544.18 | | | | 06/22/15 | 74.40 | 73.38 | |
| 5,535.85 | | | | 09/30/15 | 82.73 | 81.71 | |
| 5,529.54 | | | | 12/02/15 | 89.04 | 88.02 | |
| 5,527.55 | | | | 03/30/16 | 91.03 | 90.01 | |
| 5,525.92 | | | | 06/30/16 | 92.66 | 91.64 | |
| 5,524.48 | | | | 09/29/16 | 94.10 | 93.08 | |

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



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

| Water Elevation (z) | Land Surface (LSD) | Measuring Point Elevation (MP) | Length Of Riser (L) | Date Of Monitoring | Total or Measured Depth to Water (blw.MP) | Total Depth to Water (blw.LSD) | Total Depth Of Well |
|---|---|---|---|---|---|---|---|
| | 5,623.10 | 5,624.72 | 1.62 | | | | 121.125 |
| 5,548.57 | | | | 11/08/99 | 76.15 | 74.53 | |
| 5,548.57 | | | | 11/09/99 | 76.15 | 74.53 | |
| 5,548.32 | | | | 01/02/00 | 76.40 | 74.78 | |
| 5,548.52 | | | | 01/10/00 | 76.20 | 74.58 | |
| 5,548.32 | | | | 01/17/00 | 76.40 | 74.78 | |
| 5,548.72 | | | | 01/24/00 | 76.00 | 74.38 | |
| 5,548.62 | | | | 02/01/00 | 76.10 | 74.48 | |
| 5,548.62 | | | | 02/07/00 | 76.10 | 74.48 | |
| 5,549.02 | | | | 02/14/00 | 75.70 | 74.08 | |
| 5,549.12 | | | | 02/23/00 | 75.60 | 73.98 | |
| 5,549.22 | | | | 03/01/00 | 75.50 | 73.88 | |
| 5,549.32 | | | | 03/08/00 | 75.40 | 73.78 | |
| 5,549.22 | | | | 03/15/00 | 75.50 | 73.88 | |
| 5,549.92 | | | | 03/20/00 | 74.80 | 73.18 | |
| 5,549.72 | | | | 03/29/00 | 75.00 | 73.38 | |
| 5,549.42 | | | | 04/04/00 | 75.30 | 73.68 | |
| 5,549.52 | | | | 04/13/00 | 75.20 | 73.58 | |
| 5,549.72 | | | | 04/21/00 | 75.00 | 73.38 | |
| 5,549.82 | | | | 04/28/00 | 74.90 | 73.28 | |
| 5,549.82 | | | | 05/01/00 | 74.90 | 73.28 | |
| 5,550.12 | | | | 05/11/00 | 74.60 | 72.98 | |
| 5,549.82 | | | | 05/15/00 | 74.90 | 73.28 | |
| 5,550.12 | | | | 05/25/00 | 74.60 | 72.98 | |
| 5,550.12 | | | | 06/09/00 | 74.60 | 72.98 | |
| 5,550.22 | | | | 06/16/00 | 74.50 | 72.88 | |
| 5,550.07 | | | | 06/26/00 | 74.65 | 73.03 | |
| 5,550.17 | | | | 07/06/00 | 74.55 | 72.93 | |
| 5,550.17 | | | | 07/13/00 | 74.55 | 72.93 | |
| 5,550.18 | | | | 07/18/00 | 74.54 | 72.92 | |
| 5,550.33 | | | | 07/27/00 | 74.39 | 72.77 | |
| 5,550.38 | | | | 08/02/00 | 74.34 | 72.72 | |
| 5,550.40 | | | | 08/09/00 | 74.32 | 72.70 | |
| 5,550.42 | | | | 08/15/00 | 74.30 | 72.68 | |
| 5,550.54 | | | | 08/31/00 | 74.18 | 72.56 | |
| 5,550.87 | | | | 09/08/00 | 73.85 | 72.23 | |
| 5,550.97 | | | | 09/13/00 | 73.75 | 72.13 | |
| 5,551.04 | | | | 09/20/00 | 73.68 | 72.06 | |
| 5,545.83 | | | | 10/05/00 | 78.89 | 77.27 | |
| 5,546.47 | | | | 11/09/00 | 78.25 | 76.63 | |
| 5,546.88 | | | | 12/06/00 | 77.84 | 76.22 | |
| 5,552.18 | | | | 01/26/01 | 72.54 | 70.92 | |
| 5,552.20 | | | | 02/02/01 | 72.52 | 70.90 | |
| 5,551.10 | | | | 03/29/01 | 73.62 | 72.00 | |

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

| Water Elevation (z) | Land Surface (LSD) | Measuring Point Elevation (MP) | Length Of Riser (L) | Date Of Monitoring | Total or Measured Depth to Water (blw.MP) | Total Depth to Water (blw.LSD) | Total Depth Of Well |
|---|---|---|---|---|---|---|---|
| | 5,623.10 | 5,624.72 | 1.62 | | | | 121.125 |
| 5,551.59 | | | | 04/30/01 | 73.13 | 71.51 | |
| 5,552.03 | | | | 05/31/01 | 72.69 | 71.07 | |
| 5,552.33 | | | | 06/21/01 | 72.39 | 70.77 | |
| 5,552.64 | | | | 07/10/01 | 72.08 | 70.46 | |
| 5,553.32 | | | | 08/20/01 | 71.40 | 69.78 | |
| 5,553.73 | | | | 09/19/01 | 70.99 | 69.37 | |
| 5,553.98 | | | | 10/02/01 | 70.74 | 69.12 | |
| 5,554.14 | | | | 11/08/01 | 70.58 | 68.96 | |
| 5,554.79 | | | | 12/03/01 | 69.93 | 68.31 | |
| 5,554.74 | | | | 01/03/02 | 69.98 | 68.36 | |
| 5,554.91 | | | | 02/06/02 | 69.81 | 68.19 | |
| 5,555.15 | | | | 03/26/02 | 69.57 | 67.95 | |
| 5,555.39 | | | | 04/09/02 | 69.33 | 67.71 | |
| 5,555.73 | | | | 05/23/02 | 68.99 | 67.37 | |
| 5,555.79 | | | | 06/05/02 | 68.93 | 67.31 | |
| 5,555.91 | | | | 07/08/02 | 68.81 | 67.19 | |
| 5,556.04 | | | | 08/23/02 | 68.68 | 67.06 | |
| 5,556.25 | | | | 09/11/02 | 68.47 | 66.85 | |
| 5,556.72 | | | | 10/23/02 | 68.00 | 66.38 | |
| 5,556.42 | | | | 11/22/02 | 68.30 | 66.68 | |
| 5,557.01 | | | | 12/03/02 | 67.71 | 66.09 | |
| 5,557.20 | | | | 01/09/03 | 67.52 | 65.90 | |
| 5,557.35 | | | | 02/12/03 | 67.37 | 65.75 | |
| 5,557.83 | | | | 03/26/03 | 66.89 | 65.27 | |
| 5,557.87 | | | | 04/02/03 | 66.85 | 65.23 | |
| 5,553.71 | | | | 05/01/03 | 71.01 | 69.39 | |
| 5,548.98 | | | | 06/09/03 | 75.74 | 74.12 | |
| 5,548.14 | | | | 07/07/03 | 76.58 | 74.96 | |
| 5,547.75 | | | | 08/04/03 | 76.97 | 75.35 | |
| 5,547.22 | | | | 09/11/03 | 77.50 | 75.88 | |
| 5,547.68 | | | | 10/02/03 | 77.04 | 75.42 | |
| 5,547.52 | | | | 11/07/03 | 77.20 | 75.58 | |
| 5,548.29 | | | | 12/03/03 | 76.43 | 74.81 | |
| 5,554.00 | | | | 01/15/04 | 70.72 | 69.10 | |
| 5,555.46 | | | | 02/10/04 | 69.26 | 67.64 | |
| 5,556.90 | | | | 03/28/04 | 67.82 | 66.20 | |
| 5,557.49 | | | | 04/12/04 | 67.23 | 65.61 | |
| 5,558.07 | | | | 05/13/04 | 66.65 | 65.03 | |
| 5,558.19 | | | | 06/18/04 | 66.53 | 64.91 | |
| 5,559.00 | | | | 07/28/04 | 65.72 | 64.10 | |
| 5,554.26 | | | | 08/30/04 | 70.46 | 68.84 | |
| 5,551.97 | | | | 09/16/04 | 72.75 | 71.13 | |
| 5,549.65 | | | | 10/11/04 | 75.07 | 73.45 | |

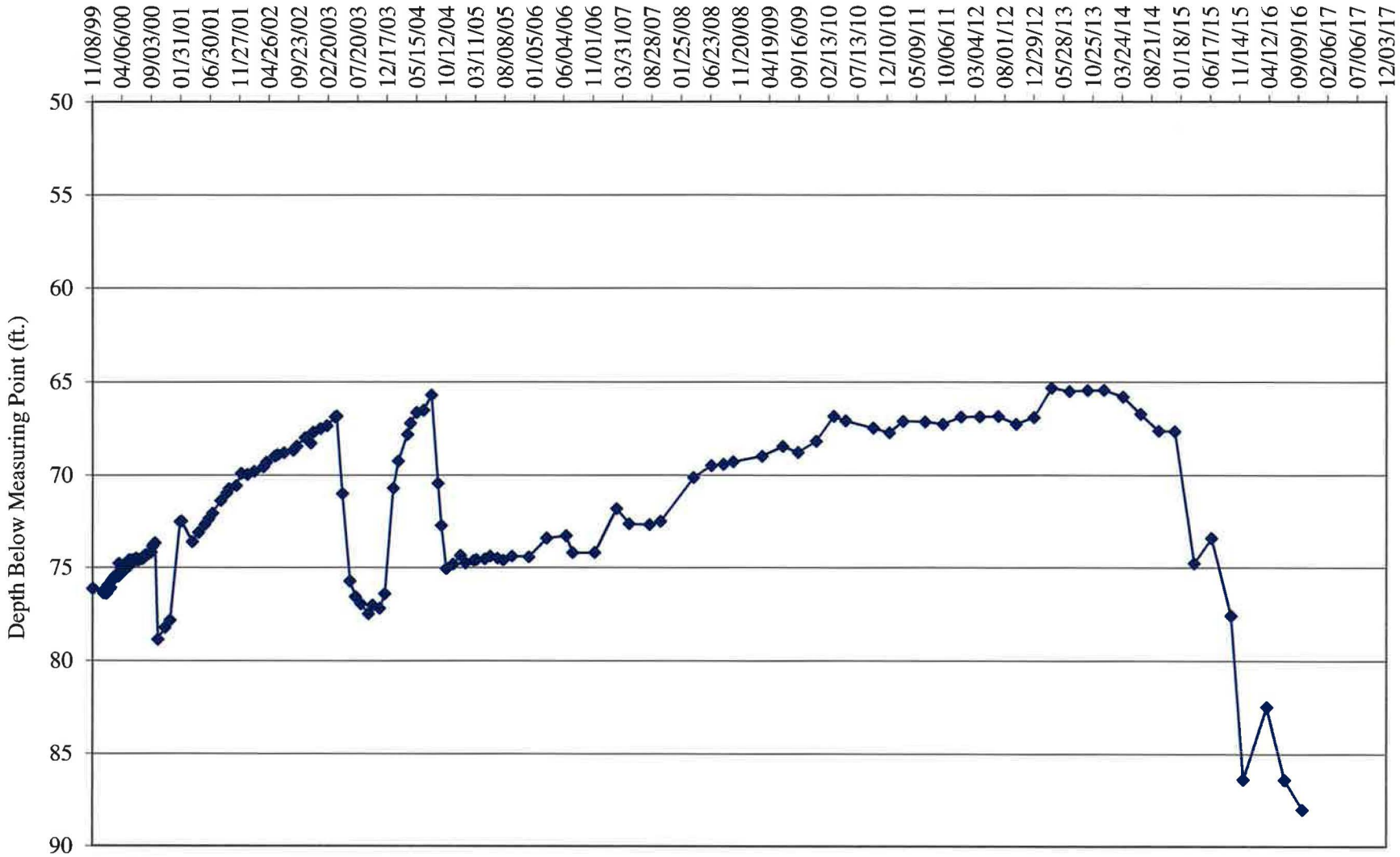
# Water Levels and Data over Time
# White Mesa Mill - Well TW4-2

| Water Elevation (z) | Land Surface (LSD) | Measuring Point Elevation (MP) | Length Of Riser (L) | Date Of Monitoring | Total or Measured Depth to Water (blw.MP) | Total Depth to Water (blw.LSD) | Total Depth Of Well |
|---|---|---|---|---|---|---|---|
| | 5,623.10 | 5,624.72 | 1.62 | | | | 121.125 |
| 5,549.89 | | | | 11/16/04 | 74.83 | 73.21 | |
| 5,550.37 | | | | 12/22/04 | 74.35 | 72.73 | |
| 5,549.95 | | | | 01/18/05 | 74.77 | 73.15 | |
| 5,550.09 | | | | 02/28/05 | 74.63 | 73.01 | |
| 5,550.13 | | | | 03/15/05 | 74.59 | 72.97 | |
| 5,550.18 | | | | 04/26/05 | 74.54 | 72.92 | |
| 5,550.32 | | | | 05/24/05 | 74.40 | 72.78 | |
| 5,550.21 | | | | 06/30/05 | 74.51 | 72.89 | |
| 5,550.11 | | | | 07/29/05 | 74.61 | 72.99 | |
| 5,550.33 | | | | 09/12/05 | 74.39 | 72.77 | |
| 5,550.29 | | | | 12/07/05 | 74.43 | 72.81 | |
| 5,551.30 | | | | 03/08/06 | 73.42 | 71.80 | |
| 5,551.42 | | | | 06/14/06 | 73.3 | 71.68 | |
| 5,550.52 | | | | 07/18/06 | 74.20 | 72.58 | |
| 5550.52 | | | | 11/07/06 | 74.20 | 72.58 | |
| 5552.89 | | | | 02/27/07 | 71.83 | 70.21 | |
| 5,552.06 | | | | 05/02/07 | 72.66 | 71.04 | |
| 5,552.02 | | | | 08/14/07 | 72.7 | 71.08 | |
| 5,552.20 | | | | 10/10/07 | 72.52 | 70.90 | |
| 5,554.58 | | | | 03/26/08 | 70.14 | 68.52 | |
| 5,555.23 | | | | 06/24/08 | 69.49 | 67.87 | |
| 5,555.29 | | | | 08/26/08 | 69.43 | 67.81 | |
| 5,555.43 | | | | 10/14/08 | 69.29 | 67.67 | |
| 5,555.73 | | | | 03/10/09 | 68.99 | 67.37 | |
| 5,556.25 | | | | 06/24/09 | 68.47 | 66.85 | |
| 5,555.94 | | | | 09/10/09 | 68.78 | 67.16 | |
| 5,556.53 | | | | 12/11/09 | 68.19 | 66.57 | |
| 5,557.87 | | | | 03/11/10 | 66.85 | 65.23 | |
| 5,557.63 | | | | 05/11/10 | 67.09 | 65.47 | |
| 5,557.24 | | | | 09/29/10 | 67.48 | 65.86 | |
| 5,557.00 | | | | 12/21/10 | 67.72 | 66.10 | |
| 5,557.61 | | | | 02/28/11 | 67.11 | 65.49 | |
| 5,557.58 | | | | 06/21/11 | 67.14 | 65.52 | |
| 5,557.46 | | | | 09/20/11 | 67.26 | 65.64 | |
| 5,557.84 | | | | 12/21/11 | 66.88 | 65.26 | |
| 5,557.86 | | | | 03/27/12 | 66.86 | 65.24 | |
| 5,557.87 | | | | 06/28/12 | 66.85 | 65.23 | |
| 5,557.46 | | | | 09/27/12 | 67.26 | 65.64 | |
| 5,557.82 | | | | 12/28/12 | 66.9 | 65.28 | |
| 5,559.39 | | | | 03/28/13 | 65.33 | 63.71 | |
| 5,559.21 | | | | 06/27/13 | 65.51 | 63.89 | |
| 5,559.26 | | | | 09/27/13 | 65.46 | 63.84 | |
| 5,559.27 | | | | 12/20/13 | 65.45 | 63.83 | |

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

| Water Elevation (z) | Land Surface (LSD) | Measuring Point Elevation (MP) | Length Of Riser (L) | Date Of Monitoring | Total or Measured Depth to Water (blw.MP) | Total Depth to Water (blw.LSD) | Total Depth Of Well |
|---|---|---|---|---|---|---|---|
| | 5,623.10 | 5,624.72 | 1.62 | | | | 121.125 |
| 5,558.92 | | | | 03/27/14 | 65.8 | 64.18 | |
| 5,557.99 | | | | 06/25/14 | 66.73 | 65.11 | |
| 5,557.09 | | | | 09/25/14 | 67.63 | 66.01 | |
| 5,557.07 | | | | 12/17/14 | 67.65 | 66.03 | |
| 5,549.93 | | | | 03/26/15 | 74.79 | 73.17 | |
| 5,551.30 | | | | 06/22/15 | 73.42 | 71.80 | |
| 5,547.12 | | | | 09/30/15 | 77.60 | 75.98 | |
| 5,538.34 | | | | 12/02/15 | 86.38 | 84.76 | |
| 5,542.22 | | | | 03/30/16 | 82.50 | 80.88 | |
| 5,538.31 | | | | 06/30/16 | 86.41 | 84.79 | |
| 5,536.70 | | | | 9/29/2016 | 88.02 | 86.40 | |

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



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

| Water Elevation (z) | Land Surface (LSD) | Measuring Point Elevation (MP) | Length Of Riser (L) | Date Of Monitoring | Total or Measured Depth to Water (blw.MP) | Total Depth to Water (blw.LSD) | Total Depth Of Well |
|---|---|---|---|---|---|---|---|
| | 5,631.21 | 5,632.23 | 1.02 | | | | 141 |
| 5,565.78 | | | | 11/29/99 | 66.45 | 65.43 | |
| 5,566.93 | | | | 01/02/00 | 65.30 | 64.28 | |
| 5,567.03 | | | | 01/10/00 | 65.20 | 64.18 | |
| 5,566.83 | | | | 01/17/00 | 65.40 | 64.38 | |
| 5,567.13 | | | | 01/24/00 | 65.10 | 64.08 | |
| 5,567.33 | | | | 02/01/00 | 64.90 | 63.88 | |
| 5,567.13 | | | | 02/07/00 | 65.10 | 64.08 | |
| 5,567.43 | | | | 02/14/00 | 64.80 | 63.78 | |
| 5,567.63 | | | | 02/23/00 | 64.60 | 63.58 | |
| 5,567.73 | | | | 03/01/00 | 64.50 | 63.48 | |
| 5,567.83 | | | | 03/08/00 | 64.40 | 63.38 | |
| 5,567.70 | | | | 03/15/00 | 64.53 | 63.51 | |
| 5,568.03 | | | | 03/20/00 | 64.20 | 63.18 | |
| 5,567.93 | | | | 03/29/00 | 64.30 | 63.28 | |
| 5,567.63 | | | | 04/04/00 | 64.60 | 63.58 | |
| 5,567.83 | | | | 04/13/00 | 64.40 | 63.38 | |
| 5,568.03 | | | | 04/21/00 | 64.20 | 63.18 | |
| 5,568.23 | | | | 04/28/00 | 64.00 | 62.98 | |
| 5,568.13 | | | | 05/01/00 | 64.10 | 63.08 | |
| 5,568.53 | | | | 05/11/00 | 63.70 | 62.68 | |
| 5,568.23 | | | | 05/15/00 | 64.00 | 62.98 | |
| 5,568.53 | | | | 05/25/00 | 63.70 | 62.68 | |
| 5,568.61 | | | | 06/09/00 | 63.62 | 62.60 | |
| 5,568.69 | | | | 06/16/00 | 63.54 | 62.52 | |
| 5,568.45 | | | | 06/26/00 | 63.78 | 62.76 | |
| 5,568.61 | | | | 07/06/00 | 63.62 | 62.60 | |
| 5,568.61 | | | | 07/06/00 | 63.62 | 62.60 | |
| 5,568.49 | | | | 07/13/00 | 63.74 | 62.72 | |
| 5,568.55 | | | | 07/18/00 | 63.68 | 62.66 | |
| 5,568.65 | | | | 07/27/00 | 63.58 | 62.56 | |
| 5,568.73 | | | | 08/02/00 | 63.50 | 62.48 | |
| 5,568.77 | | | | 08/09/00 | 63.46 | 62.44 | |
| 5,568.76 | | | | 08/16/00 | 63.47 | 62.45 | |
| 5,568.95 | | | | 08/31/00 | 63.28 | 62.26 | |
| 5,568.49 | | | | 09/08/00 | 63.74 | 62.72 | |
| 5,568.67 | | | | 09/13/00 | 63.56 | 62.54 | |
| 5,568.96 | | | | 09/20/00 | 63.27 | 62.25 | |
| 5,568.93 | | | | 10/05/00 | 63.3 | 62.28 | |
| 5,569.34 | | | | 11/09/00 | 62.89 | 61.87 | |
| 5,568.79 | | | | 12/06/00 | 63.44 | 62.42 | |
| 5,569.11 | | | | 01/03/01 | 63.12 | 62.10 | |
| 5,569.75 | | | | 02/09/01 | 62.48 | 61.46 | |
| 5,570.34 | | | | 03/28/01 | 61.89 | 60.87 | |

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

| Water Elevation (z) | Land Surface (LSD) | Measuring Point Elevation (MP) | Length Of Riser (L) | Date Of Monitoring | Total or Measured Depth to Water (blw.MP) | Total Depth to Water (blw.LSD) | Total Depth Of Well |
|---|---|---|---|---|---|---|---|
| | 5,631.21 | 5,632.23 | 1.02 | | | | 141 |
| 5,570.61 | | | | 04/30/01 | 61.62 | 60.60 | |
| 5,570.70 | | | | 05/31/01 | 61.53 | 60.51 | |
| 5,570.88 | | | | 06/21/01 | 61.35 | 60.33 | |
| 5,571.02 | | | | 07/10/01 | 61.21 | 60.19 | |
| 5,571.70 | | | | 08/20/01 | 60.53 | 59.51 | |
| 5,572.12 | | | | 09/19/01 | 60.11 | 59.09 | |
| 5,572.08 | | | | 10/02/01 | 60.15 | 59.13 | |
| 5,572.78 | | | | 11/08/01 | 59.45 | 58.43 | |
| 5,573.27 | | | | 12/03/01 | 58.96 | 57.94 | |
| 5,573.47 | | | | 01/03/02 | 58.76 | 57.74 | |
| 5,573.93 | | | | 02/06/02 | 58.30 | 57.28 | |
| 5,574.75 | | | | 03/26/02 | 57.48 | 56.46 | |
| 5,574.26 | | | | 04/09/02 | 57.97 | 56.95 | |
| 5,575.39 | | | | 05/23/02 | 56.84 | 55.82 | |
| 5,574.84 | | | | 06/05/02 | 57.39 | 56.37 | |
| 5,575.33 | | | | 07/08/02 | 56.90 | 55.88 | |
| 5,575.79 | | | | 08/23/02 | 56.44 | 55.42 | |
| 5,576.08 | | | | 09/11/02 | 56.15 | 55.13 | |
| 5,576.30 | | | | 10/23/02 | 55.93 | 54.91 | |
| 5,576.35 | | | | 11/22/02 | 55.88 | 54.86 | |
| 5,576.54 | | | | 12/03/02 | 55.69 | 54.67 | |
| 5,576.96 | | | | 01/09/03 | 55.27 | 54.25 | |
| 5,577.11 | | | | 02/12/03 | 55.12 | 54.10 | |
| 5,577.61 | | | | 03/26/03 | 54.62 | 53.60 | |
| 5,572.80 | | | | 04/02/03 | 59.43 | 58.41 | |
| 5,577.89 | | | | 05/01/03 | 54.34 | 53.32 | |
| 5,577.91 | | | | 06/09/03 | 54.32 | 53.30 | |
| 5,577.53 | | | | 07/07/03 | 54.70 | 53.68 | |
| 5,577.50 | | | | 08/04/03 | 54.73 | 53.71 | |
| 5,577.71 | | | | 09/11/03 | 54.52 | 53.50 | |
| 5,577.31 | | | | 10/02/03 | 54.92 | 53.90 | |
| 5,577.33 | | | | 11/07/03 | 54.90 | 53.88 | |
| 5,577.34 | | | | 12/03/03 | 54.89 | 53.87 | |
| 5,578.24 | | | | 01/15/04 | 53.99 | 52.97 | |
| 5,578.38 | | | | 02/10/04 | 53.85 | 52.83 | |
| 5,578.69 | | | | 03/28/04 | 53.54 | 52.52 | |
| 5,579.15 | | | | 04/12/04 | 53.08 | 52.06 | |
| 5,579.47 | | | | 05/13/04 | 52.76 | 51.74 | |
| 5,579.53 | | | | 06/18/04 | 52.70 | 51.68 | |
| 5,580.17 | | | | 07/28/04 | 52.06 | 51.04 | |
| 5,580.20 | | | | 08/30/04 | 52.03 | 51.01 | |
| 5,580.26 | | | | 09/16/04 | 51.97 | 50.95 | |
| 5,580.12 | | | | 10/11/04 | 52.11 | 51.09 | |

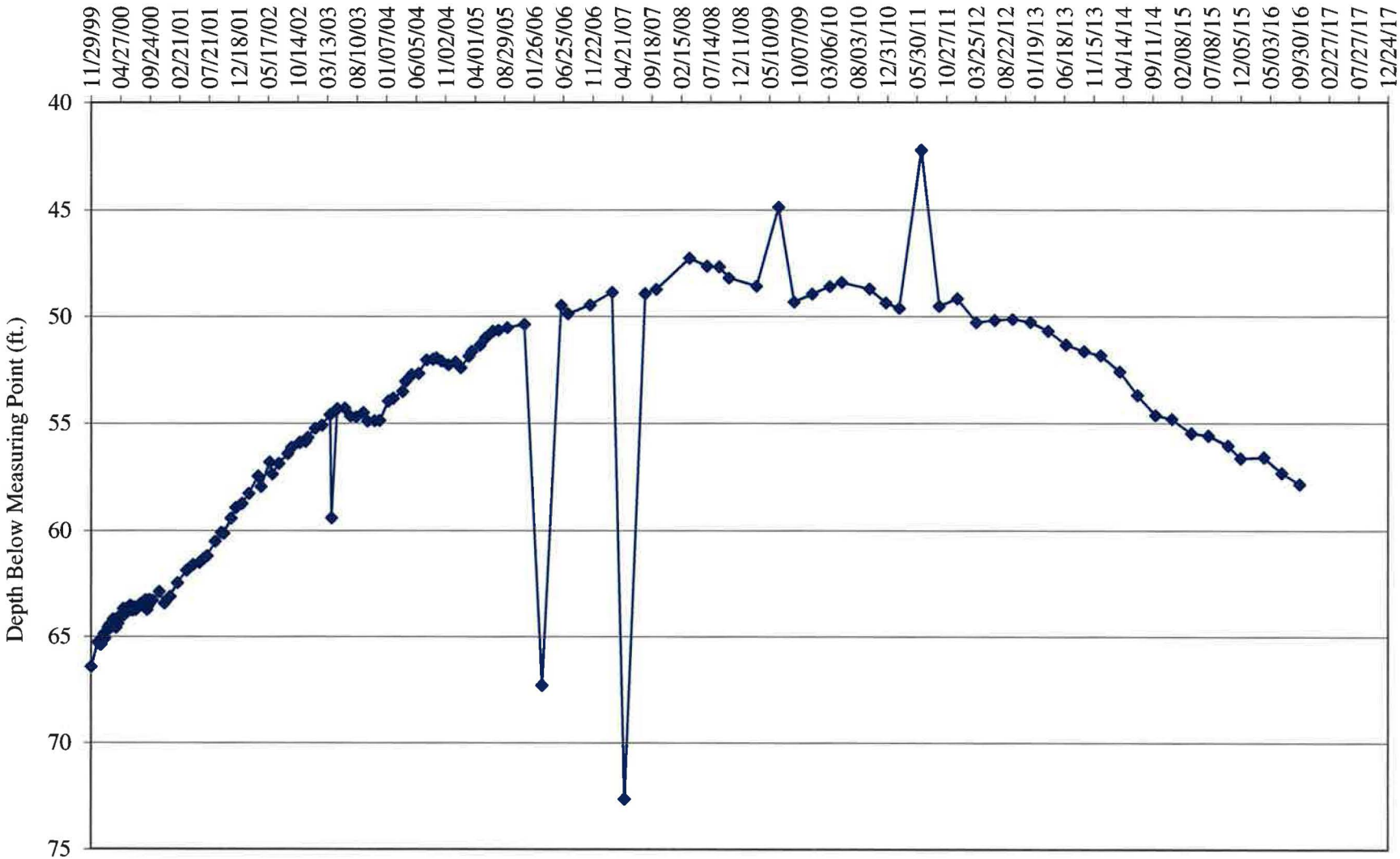
# Water Levels and Data over Time
# White Mesa Mill - Well TW4-3

| Water Elevation (z) | Land Surface (LSD) | Measuring Point Elevation (MP) | Length Of Riser (L) | Date Of Monitoring | Total or Measured Depth to Water (blw.MP) | Total Depth to Water (blw.LSD) | Total Depth Of Well |
|---|---|---|---|---|---|---|---|
| | 5,631.21 | 5,632.23 | 1.02 | | | | 141 |
| 5,579.93 | | | | 11/16/04 | 52.30 | 51.28 | |
| 5,580.07 | | | | 12/22/04 | 52.16 | 51.14 | |
| 5,579.80 | | | | 01/18/05 | 52.43 | 51.41 | |
| 5,580.35 | | | | 02/28/05 | 51.88 | 50.86 | |
| 5,580.57 | | | | 03/15/05 | 51.66 | 50.64 | |
| 5,580.86 | | | | 04/26/05 | 51.37 | 50.35 | |
| 5,581.20 | | | | 05/24/05 | 51.03 | 50.01 | |
| 5,581.51 | | | | 06/30/05 | 50.72 | 49.70 | |
| 5,581.55 | | | | 07/29/05 | 50.68 | 49.66 | |
| 5,581.68 | | | | 09/12/05 | 50.55 | 49.53 | |
| 5,581.83 | | | | 12/07/05 | 50.4 | 49.38 | |
| 5,564.92 | | | | 03/08/06 | 67.31 | 66.29 | |
| 5,582.73 | | | | 06/13/06 | 49.50 | 48.48 | |
| 5,582.33 | | | | 07/18/06 | 49.90 | 48.88 | |
| 5,582.75 | | | | 11/07/06 | 49.48 | 48.46 | |
| 5583.35 | | | | 02/27/07 | 48.88 | 47.86 | |
| 5,559.57 | | | | 05/02/07 | 72.66 | 71.64 | |
| 5,583.29 | | | | 08/14/07 | 48.94 | 47.92 | |
| 5,583.49 | | | | 10/10/07 | 48.74 | 47.72 | |
| 5,584.95 | | | | 03/26/08 | 47.28 | 46.26 | |
| 5,584.59 | | | | 06/24/08 | 47.64 | 46.62 | |
| 5,584.55 | | | | 08/26/08 | 47.68 | 46.66 | |
| 5,584.03 | | | | 10/14/08 | 48.2 | 47.18 | |
| 5,583.64 | | | | 03/03/09 | 48.59 | 47.57 | |
| 5,587.34 | | | | 06/24/09 | 44.89 | 43.87 | |
| 5,582.90 | | | | 09/10/09 | 49.33 | 48.31 | |
| 5,583.27 | | | | 12/11/09 | 48.96 | 47.94 | |
| 5,583.63 | | | | 03/11/10 | 48.6 | 47.58 | |
| 5,583.82 | | | | 05/11/10 | 48.41 | 47.39 | |
| 5,583.51 | | | | 09/29/10 | 48.72 | 47.70 | |
| 5,582.86 | | | | 12/21/10 | 49.37 | 48.35 | |
| 5,582.60 | | | | 02/28/11 | 49.63 | 48.61 | |
| 5,590.00 | | | | 06/21/11 | 42.23 | 41.21 | |
| 5,582.70 | | | | 09/20/11 | 49.53 | 48.51 | |
| 5,583.05 | | | | 12/21/11 | 49.18 | 48.16 | |
| 5,581.93 | | | | 03/27/12 | 50.30 | 49.28 | |
| 5,582.03 | | | | 06/28/12 | 50.20 | 49.18 | |
| 5,582.08 | | | | 09/27/12 | 50.15 | 49.13 | |
| 5,581.94 | | | | 12/28/12 | 50.29 | 49.27 | |
| 5,581.52 | | | | 03/28/13 | 50.71 | 49.69 | |
| 5,580.88 | | | | 06/27/13 | 51.35 | 50.33 | |
| 5,580.58 | | | | 09/27/13 | 51.65 | 50.63 | |
| 5,580.38 | | | | 12/20/13 | 51.85 | 50.83 | |

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

| Water Elevation (z) | Land Surface (LSD) | Measuring Point Elevation (MP) | Length Of Riser (L) | Date Of Monitoring | Total or Measured Depth to Water (blw.MP) | Total Depth to Water (blw.LSD) | Total Depth Of Well |
|---|---|---|---|---|---|---|---|
| | 5,631.21 | 5,632.23 | 1.02 | | | | 141 |
| 5,579.62 | | | | 03/27/14 | 52.61 | 51.59 | |
| 5,578.52 | | | | 06/25/14 | 53.71 | 52.69 | |
| 5,577.59 | | | | 09/25/14 | 54.64 | 53.62 | |
| 5,577.40 | | | | 12/17/14 | 54.83 | 53.81 | |
| 5,576.73 | | | | 03/26/15 | 55.50 | 54.48 | |
| 5,576.62 | | | | 06/22/15 | 55.61 | 54.59 | |
| 5,576.16 | | | | 09/30/15 | 56.07 | 55.05 | |
| 5,575.57 | | | | 12/02/15 | 56.66 | 55.64 | |
| 5,575.62 | | | | 03/30/16 | 56.61 | 55.59 | |
| 5,574.89 | | | | 06/30/16 | 57.34 | 56.32 | |
| 5,574.37 | | | | 9/29/2016 | 57.86 | 56.84 | |

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



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

| Water Elevation (z) | Land Surface (LSD) | Measuring Point Elevation (MP) | Length Of Riser (L) | Date Of Monitoring | Total or Measured Depth to Water (blw.MP) | Total Depth to Water (blw.LSD) | Total Depth Of Well |
|---|---|---|---|---|---|---|---|
| | 5,612.301 | 5,613.485 | 1.184 | | | | 114.5 |
| 5,512.145 | | | | 05/25/00 | 101.34 | 100.16 | |
| 5,518.985 | | | | 06/09/00 | 94.50 | 93.32 | |
| 5,512.145 | | | | 06/16/00 | 101.34 | 100.16 | |
| 5,517.465 | | | | 06/26/00 | 96.02 | 94.84 | |
| 5,520.145 | | | | 07/06/00 | 93.34 | 92.16 | |
| 5,521.435 | | | | 07/13/00 | 92.05 | 90.87 | |
| 5,522.005 | | | | 07/18/00 | 91.48 | 90.30 | |
| 5,522.945 | | | | 07/27/00 | 90.54 | 89.36 | |
| 5,523.485 | | | | 08/02/00 | 90.00 | 88.82 | |
| 5,523.845 | | | | 08/09/00 | 89.64 | 88.46 | |
| 5,523.885 | | | | 08/15/00 | 89.60 | 88.42 | |
| 5,524.555 | | | | 09/01/00 | 88.93 | 87.75 | |
| 5,513.235 | | | | 09/08/00 | 100.25 | 99.07 | |
| 5,516.665 | | | | 09/13/00 | 96.82 | 95.64 | |
| 5,519.085 | | | | 09/20/00 | 94.40 | 93.22 | |
| 5,522.165 | | | | 10/05/00 | 91.32 | 90.14 | |
| 5,524.665 | | | | 11/09/00 | 88.82 | 87.64 | |
| 5,518.545 | | | | 12/06/00 | 94.94 | 93.76 | |
| 5,527.695 | | | | 01/03/01 | 85.79 | 84.61 | |
| 5,529.085 | | | | 02/09/01 | 84.40 | 83.22 | |
| 5,529.535 | | | | 03/27/01 | 83.95 | 82.77 | |
| 5,530.235 | | | | 04/30/01 | 83.25 | 82.07 | |
| 5,530.265 | | | | 05/31/01 | 83.22 | 82.04 | |
| 5,534.405 | | | | 06/22/01 | 79.08 | 77.90 | |
| 5,533.145 | | | | 07/10/01 | 80.34 | 79.16 | |
| 5,534.035 | | | | 08/20/01 | 79.45 | 78.27 | |
| 5,534.465 | | | | 09/19/01 | 79.02 | 77.84 | |
| 5,533.285 | | | | 10/02/01 | 80.20 | 79.02 | |
| 5,533.865 | | | | 11/08/01 | 79.62 | 78.44 | |
| 5,534.275 | | | | 12/03/01 | 79.21 | 78.03 | |
| 5,534.715 | | | | 01/03/02 | 78.77 | 77.59 | |
| 5,535.435 | | | | 02/06/02 | 78.05 | 76.87 | |
| 5,536.445 | | | | 03/26/02 | 77.04 | 75.86 | |
| 5,536.405 | | | | 04/09/02 | 77.08 | 75.90 | |
| 5,537.335 | | | | 05/23/02 | 76.15 | 74.97 | |
| 5,537.325 | | | | 06/05/02 | 76.16 | 74.98 | |
| 5,537.975 | | | | 07/08/02 | 75.51 | 74.33 | |
| 5,538.825 | | | | 08/23/02 | 74.66 | 73.48 | |
| 5,539.275 | | | | 09/11/02 | 74.21 | 73.03 | |
| 5,539.765 | | | | 10/23/02 | 73.72 | 72.54 | |
| 5,540.205 | | | | 11/22/02 | 73.28 | 72.10 | |
| 5,540.295 | | | | 12/03/02 | 73.19 | 72.01 | |
| 5,540.795 | | | | 01/09/03 | 72.69 | 71.51 | |

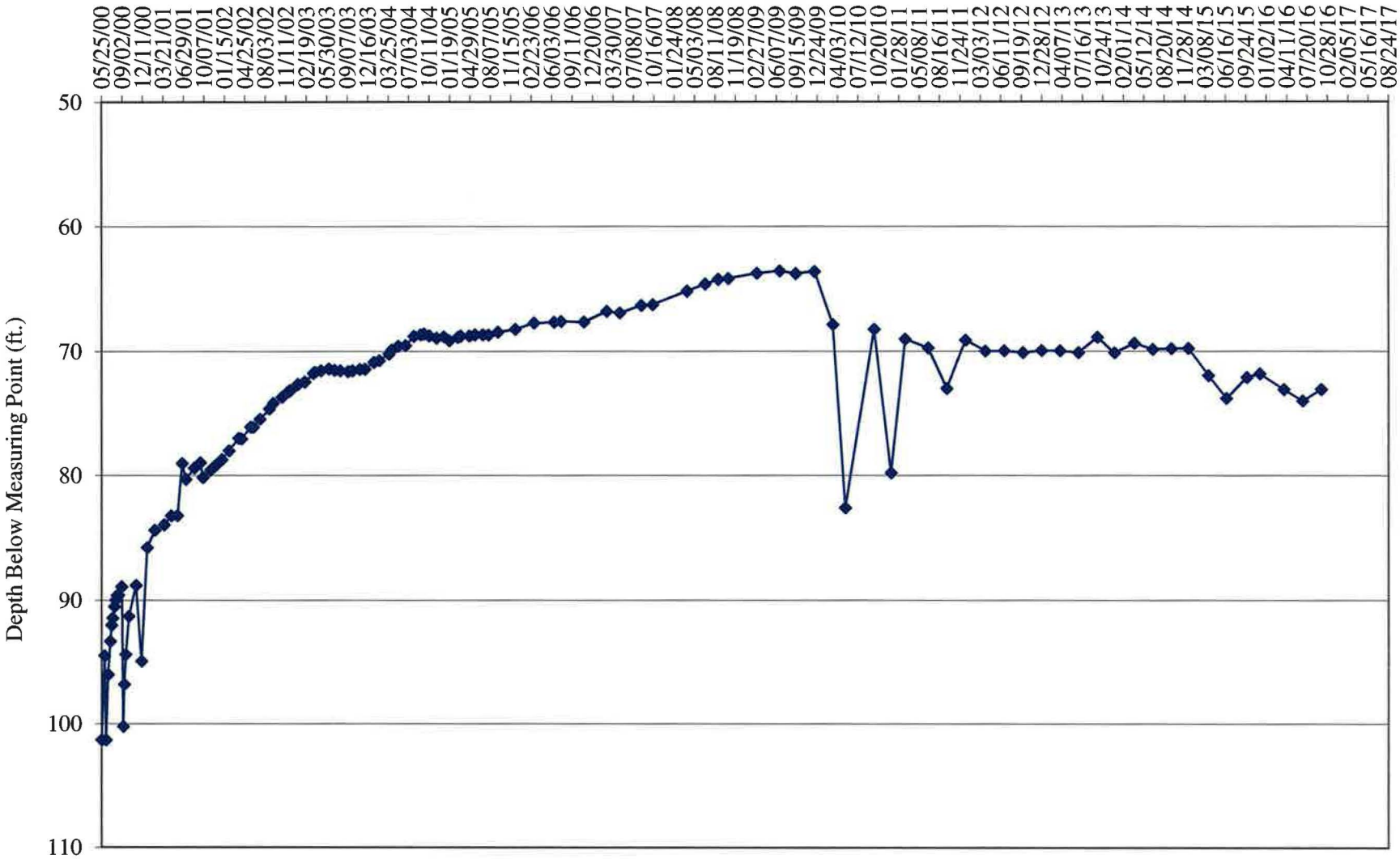
# Water Levels and Data over Time
# White Mesa Mill - Well TW4-4

| Water Elevation (z) | Land Surface (LSD) | Measuring Point Elevation (MP) | Length Of Riser (L) | Date Of Monitoring | Total or Measured Depth to Water (blw.MP) | Total Depth to Water (blw.LSD) | Total Depth Of Well |
|---|---|---|---|---|---|---|---|
| | 5,612.301 | 5,613.485 | 1.184 | | | | 114.5 |
| 5,540.985 | | | | 02/12/03 | 72.50 | 71.32 | |
| 5,541.675 | | | | 03/26/03 | 71.81 | 70.63 | |
| 5,541.765 | | | | 04/02/03 | 71.72 | 70.54 | |
| 5,541.885 | | | | 05/01/03 | 71.60 | 70.42 | |
| 5,542.025 | | | | 06/09/03 | 71.46 | 70.28 | |
| 5,541.925 | | | | 07/07/03 | 71.56 | 70.38 | |
| 5,541.885 | | | | 08/04/03 | 71.60 | 70.42 | |
| 5,541.825 | | | | 09/11/03 | 71.66 | 70.48 | |
| 5,541.885 | | | | 10/02/03 | 71.60 | 70.42 | |
| 5,541.995 | | | | 11/07/03 | 71.49 | 70.31 | |
| 5,542.005 | | | | 12/03/03 | 71.48 | 70.30 | |
| 5,542.555 | | | | 01/15/04 | 70.93 | 69.75 | |
| 5,542.705 | | | | 02/10/04 | 70.78 | 69.60 | |
| 5,543.225 | | | | 03/28/04 | 70.26 | 69.08 | |
| 5,543.555 | | | | 04/12/04 | 69.93 | 68.75 | |
| 5,543.865 | | | | 05/13/04 | 69.62 | 68.44 | |
| 5,543.915 | | | | 06/18/04 | 69.57 | 68.39 | |
| 5,544.655 | | | | 07/28/04 | 68.83 | 67.65 | |
| 5,544.795 | | | | 08/30/04 | 68.69 | 67.51 | |
| 5,544.845 | | | | 09/16/04 | 68.64 | 67.46 | |
| 5,544.705 | | | | 10/11/04 | 68.78 | 67.60 | |
| 5,544.525 | | | | 11/16/04 | 68.96 | 67.78 | |
| 5,544.625 | | | | 12/22/04 | 68.86 | 67.68 | |
| 5,544.305 | | | | 01/18/05 | 69.18 | 68.00 | |
| 5,544.585 | | | | 02/28/05 | 68.90 | 67.72 | |
| 5,544.685 | | | | 03/15/05 | 68.80 | 67.62 | |
| 5,544.675 | | | | 04/26/05 | 68.81 | 67.63 | |
| 5,544.785 | | | | 05/24/05 | 68.70 | 67.52 | |
| 5,544.795 | | | | 06/30/05 | 68.69 | 67.51 | |
| 5,544.775 | | | | 07/29/05 | 68.71 | 67.53 | |
| 5,545.005 | | | | 09/12/05 | 68.48 | 67.30 | |
| 5,545.225 | | | | 12/07/05 | 68.26 | 67.08 | |
| 5,545.735 | | | | 03/08/06 | 67.75 | 66.57 | |
| 5,545.785 | | | | 06/14/06 | 67.70 | 66.52 | |
| 5,545.855 | | | | 07/18/06 | 67.63 | 66.45 | |
| 5,545.805 | | | | 11/07/06 | 67.68 | 66.50 | |
| 5546.675 | | | | 02/27/07 | 66.81 | 65.63 | |
| 5,546.535 | | | | 05/02/07 | 66.95 | 65.77 | |
| 5,547.155 | | | | 08/15/07 | 66.33 | 65.15 | |
| 5,547.215 | | | | 10/10/07 | 66.27 | 65.09 | |
| 5,548.305 | | | | 03/26/08 | 65.18 | 64.00 | |
| 5,548.865 | | | | 06/24/08 | 64.62 | 63.44 | |
| 5,549.235 | | | | 08/26/08 | 64.25 | 63.07 | |

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

| Water Elevation (z) | Land Surface (LSD) | Measuring Point Elevation (MP) | Length Of Riser (L) | Date Of Monitoring | Total or Measured Depth to Water (blw.MP) | Total Depth to Water (blw.LSD) | Total Depth Of Well |
|---|---|---|---|---|---|---|---|
| | 5,612.301 | 5,613.485 | 1.184 | | | | 114.5 |
| 5,549.305 | | | | 10/14/08 | 64.18 | 63.00 | |
| 5,549.725 | | | | 03/03/09 | 63.76 | 62.58 | |
| 5,549.905 | | | | 06/24/09 | 63.58 | 62.40 | |
| 5,549.695 | | | | 09/10/09 | 63.79 | 62.61 | |
| 5,549.865 | | | | 12/11/09 | 63.62 | 62.44 | |
| 5,545.60 | | | | 03/11/10 | 67.89 | 66.71 | |
| 5,530.88 | | | | 05/11/10 | 82.61 | 81.43 | |
| 5,545.24 | | | | 09/29/10 | 68.25 | 67.07 | |
| 5,533.66 | | | | 12/21/10 | 79.83 | 78.65 | |
| 5,544.44 | | | | 02/28/11 | 69.05 | 67.87 | |
| 5,543.73 | | | | 06/21/11 | 69.76 | 68.58 | |
| 5,540.48 | | | | 09/20/11 | 73.01 | 71.83 | |
| 5,544.36 | | | | 12/21/11 | 69.13 | 67.95 | |
| 5,543.48 | | | | 03/27/12 | 70.01 | 68.83 | |
| 5,543.49 | | | | 06/28/12 | 70.00 | 68.82 | |
| 5,543.36 | | | | 09/27/12 | 70.13 | 68.95 | |
| 5,543.51 | | | | 12/28/12 | 69.98 | 68.80 | |
| 5,543.49 | | | | 03/28/13 | 70.00 | 68.82 | |
| 5,543.36 | | | | 06/27/13 | 70.13 | 68.95 | |
| 5,544.59 | | | | 09/27/13 | 68.90 | 67.72 | |
| 5,543.33 | | | | 12/20/13 | 70.16 | 68.98 | |
| 5,544.11 | | | | 03/27/14 | 69.38 | 68.20 | |
| 5,543.61 | | | | 06/25/14 | 69.88 | 68.70 | |
| 5,543.67 | | | | 09/25/14 | 69.82 | 68.64 | |
| 5,543.69 | | | | 12/17/14 | 69.80 | 68.62 | |
| 5,541.49 | | | | 03/26/15 | 72.00 | 70.82 | |
| 5,539.67 | | | | 06/22/15 | 73.82 | 72.64 | |
| 5,541.35 | | | | 09/30/15 | 72.14 | 70.96 | |
| 5,541.63 | | | | 12/02/15 | 71.86 | 70.68 | |
| 5,540.38 | | | | 03/30/16 | 73.11 | 71.93 | |
| 5,539.46 | | | | 06/30/16 | 74.03 | 72.85 | |
| 5,540.39 | | | | 09/29/16 | 73.10 | 71.92 | |

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



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

| Water Elevation (z) | Land Surface (LSD) | Measuring Point Elevation (MP) | Length Of Riser (L) | Date Of Monitoring | Total or Measured Depth to Water (blw.MP) | Total Depth to Water (blw.LSD) | Total Depth Of Well |
|---|---|---|---|---|---|---|---|
| | 5,638.75 | 5,640.70 | 1.95 | | | | 121.75 |
| 5,579.30 | | | | 01/02/00 | 61.40 | 59.45 | |
| 5,579.60 | | | | 01/10/00 | 61.10 | 59.15 | |
| 5,579.35 | | | | 01/17/00 | 61.35 | 59.40 | |
| 5,579.60 | | | | 01/24/00 | 61.10 | 59.15 | |
| 5,579.50 | | | | 02/01/00 | 61.20 | 59.25 | |
| 5,579.50 | | | | 02/07/00 | 61.20 | 59.25 | |
| 5,579.90 | | | | 02/14/00 | 60.80 | 58.85 | |
| 5,579.90 | | | | 02/23/00 | 60.80 | 58.85 | |
| 5,580.20 | | | | 03/01/00 | 60.50 | 58.55 | |
| 5,580.00 | | | | 03/08/00 | 60.70 | 58.75 | |
| 5,580.04 | | | | 03/15/00 | 60.66 | 58.71 | |
| 5,580.70 | | | | 03/20/00 | 60.00 | 58.05 | |
| 5,580.30 | | | | 03/29/00 | 60.40 | 58.45 | |
| 5,580.00 | | | | 04/04/00 | 60.70 | 58.75 | |
| 5,580.20 | | | | 04/13/00 | 60.50 | 58.55 | |
| 5,580.40 | | | | 04/21/00 | 60.30 | 58.35 | |
| 5,580.50 | | | | 04/28/00 | 60.20 | 58.25 | |
| 5,580.50 | | | | 05/01/00 | 60.20 | 58.25 | |
| 5,580.90 | | | | 05/11/00 | 59.80 | 57.85 | |
| 5,580.50 | | | | 05/15/00 | 60.20 | 58.25 | |
| 5,580.75 | | | | 05/25/00 | 59.95 | 58.00 | |
| 5,580.80 | | | | 06/09/00 | 59.90 | 57.95 | |
| 5,580.92 | | | | 06/16/00 | 59.78 | 57.83 | |
| 5,580.80 | | | | 06/26/00 | 59.90 | 57.95 | |
| 5,580.90 | | | | 07/06/00 | 59.80 | 57.85 | |
| 5,581.05 | | | | 07/13/00 | 59.65 | 57.70 | |
| 5,580.90 | | | | 07/18/00 | 59.80 | 57.85 | |
| 5,581.05 | | | | 07/27/00 | 59.65 | 57.70 | |
| 5,581.06 | | | | 08/02/00 | 59.64 | 57.69 | |
| 5,581.08 | | | | 08/09/00 | 59.62 | 57.67 | |
| 5,581.07 | | | | 08/16/00 | 59.63 | 57.68 | |
| 5,581.25 | | | | 08/31/00 | 59.45 | 57.50 | |
| 5,581.32 | | | | 09/08/00 | 59.38 | 57.43 | |
| 5,581.34 | | | | 09/13/00 | 59.36 | 57.41 | |
| 5,581.41 | | | | 09/20/00 | 59.29 | 57.34 | |
| 5,581.37 | | | | 10/05/00 | 59.33 | 57.38 | |
| 5,581.66 | | | | 11/09/00 | 59.04 | 57.09 | |
| 5,581.63 | | | | 12/06/00 | 59.07 | 57.12 | |
| 5,581.92 | | | | 01/03/01 | 58.78 | 56.83 | |
| 5,582.20 | | | | 02/09/01 | 58.50 | 56.55 | |
| 5,582.54 | | | | 03/28/01 | 58.16 | 56.21 | |
| 5,582.72 | | | | 04/30/01 | 57.98 | 56.03 | |
| 5,582.72 | | | | 05/31/01 | 57.98 | 56.03 | |

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

| Water Elevation (z) | Land Surface (LSD) | Measuring Point Elevation (MP) | Length Of Riser (L) | Date Of Monitoring | Total or Measured Depth to Water (blw.MP) | Total Depth to Water (blw.LSD) | Total Depth Of Well |
|---|---|---|---|---|---|---|---|
| | 5,638.75 | 5,640.70 | 1.95 | | | | 121.75 |
| 5,582.81 | | | | 06/22/01 | 57.89 | 55.94 | |
| 5,582.92 | | | | 07/10/01 | 57.78 | 55.83 | |
| 5,583.17 | | | | 08/20/01 | 57.53 | 55.58 | |
| 5,583.28 | | | | 09/19/01 | 57.42 | 55.47 | |
| 5,583.36 | | | | 10/02/01 | 57.34 | 55.39 | |
| 5,583.49 | | | | 11/08/01 | 57.21 | 55.26 | |
| 5,583.84 | | | | 12/03/01 | 56.86 | 54.91 | |
| 5,583.79 | | | | 01/03/02 | 56.91 | 54.96 | |
| 5,583.96 | | | | 02/06/02 | 56.74 | 54.79 | |
| 5,584.39 | | | | 03/26/02 | 56.31 | 54.36 | |
| 5,584.12 | | | | 04/09/02 | 56.58 | 54.63 | |
| 5,584.55 | | | | 05/23/02 | 56.15 | 54.20 | |
| 5,584.42 | | | | 06/05/02 | 56.28 | 54.33 | |
| 5,583.65 | | | | 07/08/02 | 57.05 | 55.10 | |
| 5,584.90 | | | | 08/23/02 | 55.80 | 53.85 | |
| 5,585.02 | | | | 09/11/02 | 55.68 | 53.73 | |
| 5,585.20 | | | | 10/23/02 | 55.50 | 53.55 | |
| 5,585.15 | | | | 11/22/02 | 55.55 | 53.60 | |
| 5,585.42 | | | | 12/03/02 | 55.28 | 53.33 | |
| 5,585.65 | | | | 01/09/03 | 55.05 | 53.10 | |
| 5,585.65 | | | | 02/12/03 | 55.05 | 53.10 | |
| 5,585.92 | | | | 03/26/03 | 54.78 | 52.83 | |
| 5,586.22 | | | | 04/02/03 | 54.48 | 52.53 | |
| 5,586.01 | | | | 05/01/03 | 54.69 | 52.74 | |
| 5,584.81 | | | | 06/09/03 | 55.89 | 53.94 | |
| 5,584.34 | | | | 07/07/03 | 56.36 | 54.41 | |
| 5,584.40 | | | | 08/04/03 | 56.30 | 54.35 | |
| 5,583.88 | | | | 09/11/03 | 56.82 | 54.87 | |
| 5,583.57 | | | | 10/02/03 | 57.13 | 55.18 | |
| 5,583.39 | | | | 11/07/03 | 57.31 | 55.36 | |
| 5,583.97 | | | | 12/03/03 | 56.73 | 54.78 | |
| 5,585.28 | | | | 01/15/04 | 55.42 | 53.47 | |
| 5,585.50 | | | | 02/10/04 | 55.20 | 53.25 | |
| 5,585.87 | | | | 03/28/04 | 54.83 | 52.88 | |
| 5,586.20 | | | | 04/12/04 | 54.50 | 52.55 | |
| 5,586.45 | | | | 05/13/04 | 54.25 | 52.30 | |
| 5,586.50 | | | | 06/18/04 | 54.20 | 52.25 | |
| 5,587.13 | | | | 07/28/04 | 53.57 | 51.62 | |
| 5,586.22 | | | | 08/30/04 | 54.48 | 52.53 | |
| 5,585.69 | | | | 09/16/04 | 55.01 | 53.06 | |
| 5,585.17 | | | | 10/11/04 | 55.53 | 53.58 | |
| 5,584.64 | | | | 11/16/04 | 56.06 | 54.11 | |
| 5,584.77 | | | | 12/22/04 | 55.93 | 53.98 | |

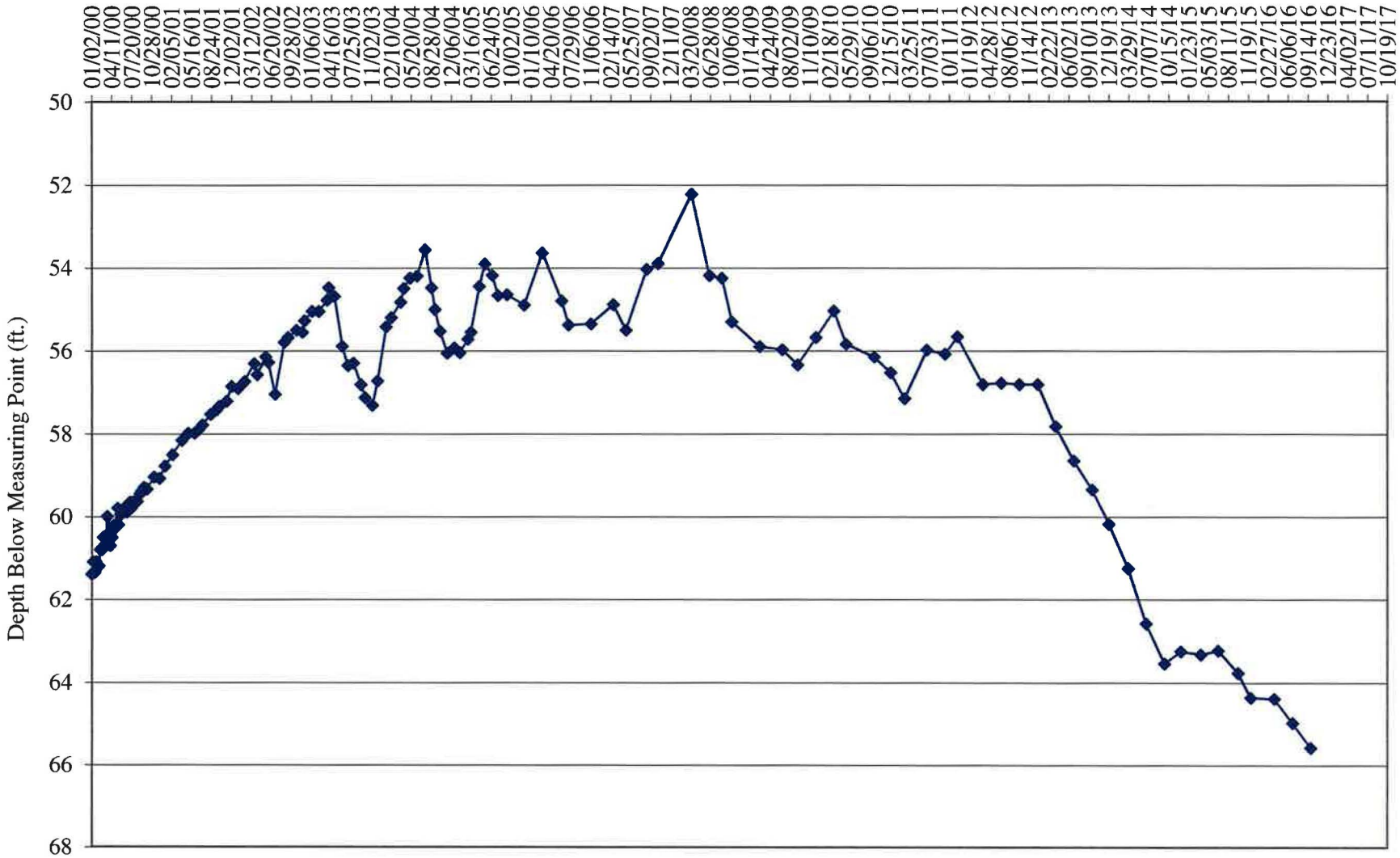
# Water Levels and Data over Time
# White Mesa Mill - Well TW4-5

| Water Elevation (z) | Land Surface (LSD) | Measuring Point Elevation (MP) | Length Of Riser (L) | Date Of Monitoring | Total or Measured Depth to Water (blw.MP) | Total Depth to Water (blw.LSD) | Total Depth Of Well |
|---|---|---|---|---|---|---|---|
| | 5,638.75 | 5,640.70 | 1.95 | | | | 121.75 |
| 5,584.65 | | | | 01/18/05 | 56.05 | 54.10 | |
| 5,584.98 | | | | 02/28/05 | 55.72 | 53.77 | |
| 5,585.15 | | | | 03/15/05 | 55.55 | 53.60 | |
| 5,586.25 | | | | 04/26/05 | 54.45 | 52.50 | |
| 5,586.79 | | | | 05/24/05 | 53.91 | 51.96 | |
| 5,586.52 | | | | 06/30/05 | 54.18 | 52.23 | |
| 5,586.03 | | | | 07/29/05 | 54.67 | 52.72 | |
| 5,586.05 | | | | 09/12/05 | 54.65 | 52.70 | |
| 5,585.80 | | | | 12/07/05 | 54.90 | 52.95 | |
| 5,587.06 | | | | 03/08/06 | 53.64 | 51.69 | |
| 5,585.90 | | | | 06/13/06 | 54.80 | 52.85 | |
| 5,585.32 | | | | 07/18/06 | 55.38 | 53.43 | |
| 5,585.35 | | | | 11/07/06 | 55.35 | 53.40 | |
| 5585.81 | | | | 02/27/07 | 54.89 | 52.94 | |
| 5,585.20 | | | | 05/02/07 | 55.50 | 53.55 | |
| 5,586.66 | | | | 08/14/07 | 54.04 | 52.09 | |
| 5,586.80 | | | | 10/10/07 | 53.90 | 51.95 | |
| 5,588.48 | | | | 03/26/08 | 52.22 | 50.27 | |
| 5,586.51 | | | | 06/24/08 | 54.19 | 52.24 | |
| 5,586.45 | | | | 08/26/08 | 54.25 | 52.30 | |
| 5,585.40 | | | | 10/14/08 | 55.3 | 53.35 | |
| 5,584.80 | | | | 03/03/09 | 55.9 | 53.95 | |
| 5,584.73 | | | | 06/24/09 | 55.97 | 54.02 | |
| 5,584.36 | | | | 09/10/09 | 56.34 | 54.39 | |
| 5,585.02 | | | | 12/11/09 | 55.68 | 53.73 | |
| 5,585.66 | | | | 03/11/10 | 55.04 | 53.09 | |
| 5,584.86 | | | | 05/11/10 | 55.84 | 53.89 | |
| 5,584.55 | | | | 09/29/10 | 56.15 | 54.20 | |
| 5,584.17 | | | | 12/21/10 | 56.53 | 54.58 | |
| 5,583.55 | | | | 02/28/11 | 57.15 | 55.20 | |
| 5,584.72 | | | | 06/21/11 | 55.98 | 54.03 | |
| 5,584.62 | | | | 09/20/11 | 56.08 | 54.13 | |
| 5,585.04 | | | | 11/21/11 | 55.66 | 53.71 | |
| 5,583.89 | | | | 03/27/12 | 56.81 | 54.86 | |
| 5,583.92 | | | | 06/28/12 | 56.78 | 54.83 | |
| 5,583.89 | | | | 09/27/12 | 56.81 | 54.86 | |
| 5,583.89 | | | | 12/28/12 | 56.81 | 54.86 | |
| 5,582.88 | | | | 03/28/13 | 57.82 | 55.87 | |
| 5,582.05 | | | | 06/27/13 | 58.65 | 56.70 | |
| 5,581.35 | | | | 09/27/13 | 59.35 | 57.40 | |
| 5,580.52 | | | | 12/20/13 | 60.18 | 58.23 | |
| 5,579.44 | | | | 03/27/14 | 61.26 | 59.31 | |
| 5,578.11 | | | | 06/25/14 | 62.59 | 60.64 | |

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

| Water Elevation (z) | Land Surface (LSD) | Measuring Point Elevation (MP) | Length Of Riser (L) | Date Of Monitoring | Total or Measured Depth to Water (blw.MP) | Total Depth to Water (blw.LSD) | Total Depth Of Well |
|---|---|---|---|---|---|---|---|
| | 5,638.75 | 5,640.70 | 1.95 | | | | 121.75 |
| 5,577.15 | | | | 09/25/14 | 63.55 | 61.60 | |
| 5,577.44 | | | | 12/17/14 | 63.26 | 61.31 | |
| 5,577.37 | | | | 03/26/15 | 63.33 | 61.38 | |
| 5,577.46 | | | | 06/22/15 | 63.24 | 61.29 | |
| 5,576.92 | | | | 09/30/15 | 63.78 | 61.83 | |
| 5,576.33 | | | | 12/02/15 | 64.37 | 62.42 | |
| 5,576.30 | | | | 03/30/16 | 64.40 | 62.45 | |
| 5,575.72 | | | | 06/30/16 | 64.98 | 63.03 | |
| 5,575.12 | | | | 09/29/16 | 65.58 | 63.63 | |

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



# Water Levels and Data over Time
# White Mesa Mill - Well TW4-6

| Water Elevation (z) | Land Surface (LSD) | Measuring Point Elevation (MP) | Length Of Riser (L) | Date Of Monitoring | Total or Measured Depth to Water (blw.MP) | Total Depth to Water (blw.LSD) | Total Depth Of Well (blw.LSD) |
|---|---|---|---|---|---|---|---|
| | 5,607.33 | 5,608.78 | 1.450 | | | | 98.55 |
| 5,522.28 | | | | 05/25/00 | 86.50 | 85.05 | |
| 5,521.51 | | | | 06/09/00 | 87.27 | 85.82 | |
| 5,522.35 | | | | 06/16/00 | 86.43 | 84.98 | |
| 5,522.14 | | | | 06/26/00 | 86.64 | 85.19 | |
| 5,522.25 | | | | 07/06/00 | 86.53 | 85.08 | |
| 5,522.13 | | | | 07/13/00 | 86.65 | 85.20 | |
| 5,522.17 | | | | 07/18/00 | 86.61 | 85.16 | |
| 5,522.26 | | | | 07/25/00 | 86.52 | 85.07 | |
| 5,522.31 | | | | 08/02/00 | 86.47 | 85.02 | |
| 5,522.33 | | | | 08/09/00 | 86.45 | 85.00 | |
| 5,522.35 | | | | 08/15/00 | 86.43 | 84.98 | |
| 5,522.40 | | | | 08/31/00 | 86.38 | 84.93 | |
| 5,522.40 | | | | 09/08/00 | 86.38 | 84.93 | |
| 5,522.45 | | | | 09/13/00 | 86.33 | 84.88 | |
| 5,522.53 | | | | 09/20/00 | 86.25 | 84.80 | |
| 5,522.39 | | | | 10/05/00 | 86.39 | 84.94 | |
| 5,522.42 | | | | 11/09/00 | 86.36 | 84.91 | |
| 5,522.29 | | | | 12/06/00 | 86.49 | 85.04 | |
| 5,522.63 | | | | 01/03/01 | 86.15 | 84.70 | |
| 5,522.72 | | | | 02/09/01 | 86.06 | 84.61 | |
| 5,522.90 | | | | 03/26/01 | 85.88 | 84.43 | |
| 5,522.70 | | | | 04/30/01 | 86.08 | 84.63 | |
| 5,522.89 | | | | 05/31/01 | 85.89 | 84.44 | |
| 5,522.88 | | | | 06/20/01 | 85.90 | 84.45 | |
| 5,522.96 | | | | 07/10/01 | 85.82 | 84.37 | |
| 5,523.10 | | | | 08/20/01 | 85.68 | 84.23 | |
| 5,523.23 | | | | 09/19/01 | 85.55 | 84.10 | |
| 5,523.21 | | | | 10/02/01 | 85.57 | 84.12 | |
| 5,523.25 | | | | 11/08/01 | 85.53 | 84.08 | |
| 5,523.46 | | | | 12/03/01 | 85.32 | 83.87 | |
| 5,523.36 | | | | 01/03/02 | 85.42 | 83.97 | |
| 5,523.50 | | | | 02/06/02 | 85.28 | 83.83 | |
| 5,523.94 | | | | 03/26/02 | 84.84 | 83.39 | |
| 5,523.75 | | | | 04/09/02 | 85.03 | 83.58 | |
| 5,524.23 | | | | 05/23/02 | 84.55 | 83.10 | |
| 5,523.98 | | | | 06/05/02 | 84.80 | 83.35 | |
| 5,524.31 | | | | 07/08/02 | 84.47 | 83.02 | |
| 5,524.36 | | | | 08/23/02 | 84.42 | 82.97 | |
| 5,524.49 | | | | 09/11/02 | 84.29 | 82.84 | |
| 5,524.71 | | | | 10/23/02 | 84.07 | 82.62 | |
| 5,524.60 | | | | 11/22/02 | 84.18 | 82.73 | |
| 5,524.94 | | | | 12/03/02 | 83.84 | 82.39 | |
| 5,525.10 | | | | 01/09/03 | 83.68 | 82.23 | |

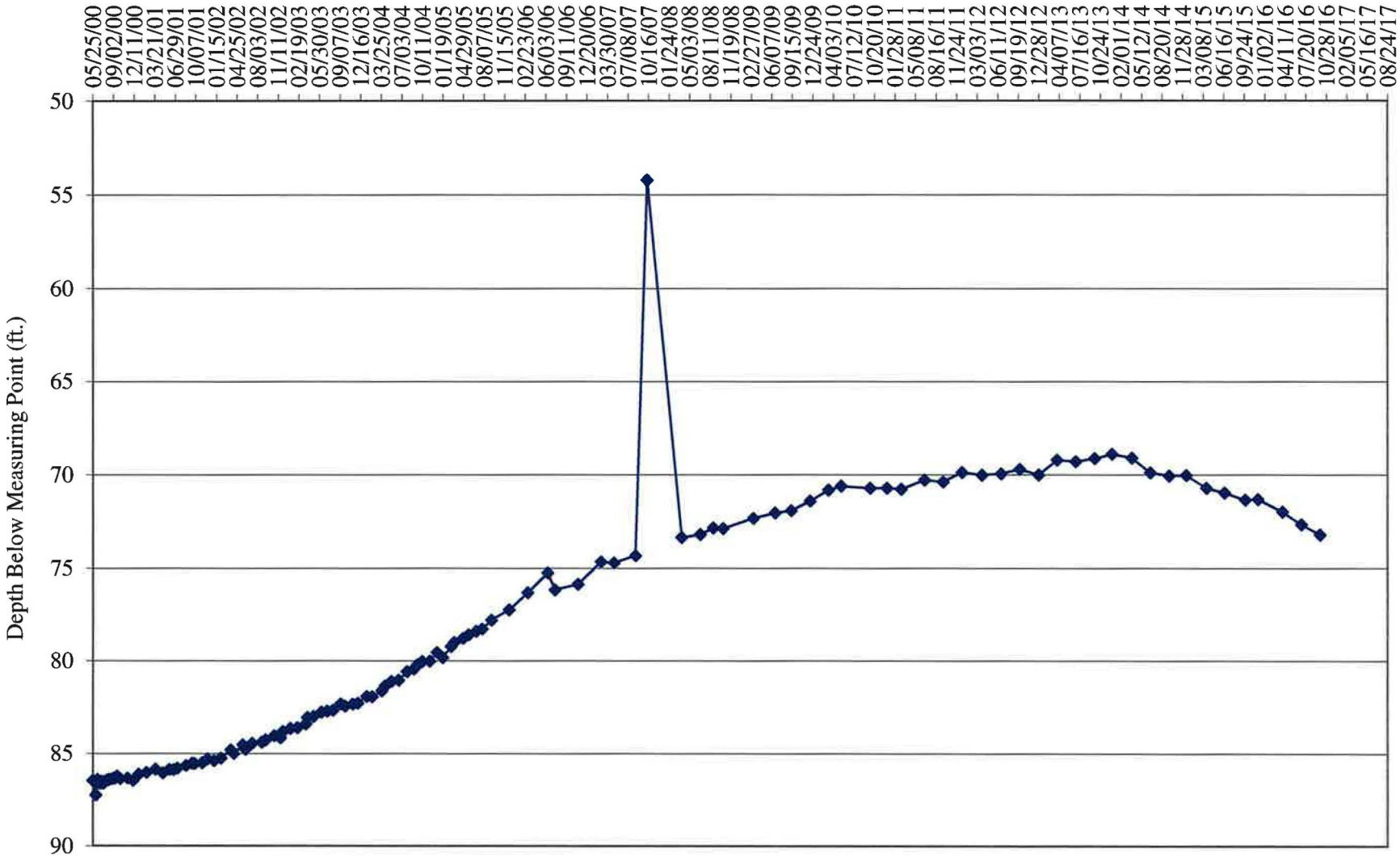
## Water Levels and Data over Time
## White Mesa Mill - Well TW4-6

| Water Elevation (z) | Land Surface (LSD) | Measuring Point Elevation (MP) | Length Of Riser (L) | Date Of Monitoring | Total or Measured Depth to Water (blw.MP) | Total Depth to Water (blw.LSD) | Total Depth Of Well (blw.LSD) |
|---|---|---|---|---|---|---|---|
| | 5,607.33 | 5,608.78 | 1.450 | | | | 98.55 |
| 5,525.15 | | | | 02/12/03 | 83.63 | 82.18 | |
| 5,525.35 | | | | 03/26/03 | 83.43 | 81.98 | |
| 5,525.68 | | | | 04/02/03 | 83.10 | 81.65 | |
| 5,525.74 | | | | 05/01/03 | 83.04 | 81.59 | |
| 5,525.98 | | | | 06/09/03 | 82.80 | 81.35 | |
| 5,526.04 | | | | 07/07/03 | 82.74 | 81.29 | |
| 5,526.07 | | | | 08/04/03 | 82.71 | 81.26 | |
| 5,526.42 | | | | 09/11/03 | 82.36 | 80.91 | |
| 5,526.30 | | | | 10/02/03 | 82.48 | 81.03 | |
| 5,526.41 | | | | 11/07/03 | 82.37 | 80.92 | |
| 5,526.46 | | | | 12/03/03 | 82.32 | 80.87 | |
| 5,526.83 | | | | 01/15/04 | 81.95 | 80.50 | |
| 5,526.81 | | | | 02/10/04 | 81.97 | 80.52 | |
| 5,527.14 | | | | 03/28/04 | 81.64 | 80.19 | |
| 5,527.39 | | | | 04/12/04 | 81.39 | 79.94 | |
| 5,527.64 | | | | 05/13/04 | 81.14 | 79.69 | |
| 5,527.70 | | | | 06/18/04 | 81.08 | 79.63 | |
| 5,528.16 | | | | 07/28/04 | 80.62 | 79.17 | |
| 5,528.30 | | | | 08/30/04 | 80.48 | 79.03 | |
| 5,528.52 | | | | 09/16/04 | 80.26 | 78.81 | |
| 5,528.71 | | | | 10/11/04 | 80.07 | 78.62 | |
| 5,528.74 | | | | 11/16/04 | 80.04 | 78.59 | |
| 5,529.20 | | | | 12/22/04 | 79.58 | 78.13 | |
| 5,528.92 | | | | 01/18/05 | 79.86 | 78.41 | |
| 5,529.51 | | | | 02/28/05 | 79.27 | 77.82 | |
| 5,529.74 | | | | 03/15/05 | 79.04 | 77.59 | |
| 5,529.96 | | | | 04/26/05 | 78.82 | 77.37 | |
| 5,530.15 | | | | 05/24/05 | 78.63 | 77.18 | |
| 5,530.35 | | | | 06/30/05 | 78.43 | 76.98 | |
| 5,530.47 | | | | 07/29/05 | 78.31 | 76.86 | |
| 5,530.95 | | | | 09/12/05 | 77.83 | 76.38 | |
| 5,531.50 | | | | 12/07/05 | 77.28 | 75.83 | |
| 5,532.43 | | | | 03/08/06 | 76.35 | 74.90 | |
| 5,533.49 | | | | 06/13/06 | 75.29 | 73.84 | |
| 5,532.58 | | | | 07/18/06 | 76.20 | 74.75 | |
| 5,532.88 | | | | 11/07/06 | 75.90 | 74.45 | |
| 5534.09 | | | | 02/27/07 | 74.69 | 73.24 | |
| 5,534.04 | | | | 05/02/07 | 74.74 | 73.29 | |
| 5,534.43 | | | | 08/14/07 | 74.35 | 72.90 | |
| 5,554.54 | | | | 10/10/07 | 54.24 | 52.79 | |
| 5,535.40 | | | | 03/26/08 | 73.38 | 71.93 | |
| 5,535.55 | | | | 06/24/08 | 73.23 | 71.78 | |
| 5,535.90 | | | | 08/26/08 | 72.88 | 71.43 | |

## Water Levels and Data over Time
## White Mesa Mill - Well TW4-6

| Water Elevation (z) | Land Surface (LSD) | Measuring Point Elevation (MP) | Length Of Riser (L) | Date Of Monitoring | Total or Measured Depth to Water (blw.MP) | Total Depth to Water (blw.LSD) | Total Depth Of Well (blw.LSD) |
|---|---|---|---|---|---|---|---|
| | 5,607.33 | 5,608.78 | 1.450 | | | | 98.55 |
| 5,535.87 | | | | 10/14/08 | 72.91 | 71.46 | |
| 5,536.42 | | | | 03/10/09 | 72.36 | 70.91 | |
| 5,536.71 | | | | 06/24/09 | 72.07 | 70.62 | |
| 5,536.83 | | | | 09/10/09 | 71.95 | 70.50 | |
| 5,537.35 | | | | 12/11/09 | 71.43 | 69.98 | |
| 5,537.93 | | | | 03/11/10 | 70.85 | 69.40 | |
| 5,538.14 | | | | 05/11/10 | 70.64 | 69.19 | |
| 5,538.03 | | | | 09/29/10 | 70.75 | 69.30 | |
| 5,538.04 | | | | 12/21/10 | 70.74 | 69.29 | |
| 5,537.98 | | | | 02/28/11 | 70.8 | 69.35 | |
| 5,538.46 | | | | 06/21/11 | 70.32 | 68.87 | |
| 5,538.37 | | | | 09/20/11 | 70.41 | 68.96 | |
| 5,538.87 | | | | 12/21/11 | 69.91 | 68.46 | |
| 5,538.73 | | | | 03/27/12 | 70.05 | 68.60 | |
| 5,538.80 | | | | 06/28/12 | 69.98 | 68.53 | |
| 5,539.04 | | | | 09/27/12 | 69.74 | 68.29 | |
| 5,538.74 | | | | 12/28/12 | 70.04 | 68.59 | |
| 5,539.53 | | | | 03/28/13 | 69.25 | 67.80 | |
| 5,539.46 | | | | 06/27/13 | 69.32 | 67.87 | |
| 5,539.62 | | | | 09/27/13 | 69.16 | 67.71 | |
| 5,539.85 | | | | 12/20/13 | 68.93 | 67.48 | |
| 5,539.65 | | | | 03/27/14 | 69.13 | 67.68 | |
| 5,538.85 | | | | 06/25/14 | 69.93 | 68.48 | |
| 5,538.69 | | | | 09/25/14 | 70.09 | 68.64 | |
| 5,538.71 | | | | 12/17/14 | 70.07 | 68.62 | |
| 5,538.03 | | | | 03/26/15 | 70.75 | 69.30 | |
| 5,537.78 | | | | 06/22/15 | 71.00 | 69.55 | |
| 5,537.40 | | | | 09/30/15 | 71.38 | 69.93 | |
| 5,537.44 | | | | 12/02/15 | 71.34 | 69.89 | |
| 5,536.76 | | | | 03/30/16 | 72.02 | 70.57 | |
| 5,536.08 | | | | 06/30/16 | 72.70 | 71.25 | |
| 5,535.54 | | | | 09/29/16 | 73.24 | 71.79 | |

# TW4-6 Water Depth Over Time (ft. blmp)



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

| Water Elevation (WL) | Land Surface (LSD) | Measuring Point Elevation (MP) | Length Of Riser (L) | Date Of Monitoring | Total or Measured Depth to Water (blw.MP) | Total Depth to Water (blw.LSD) | Total Depth Of Well (blw.LSD) |
|---|---|---|---|---|---|---|---|
| | 5,619.87 | 5,621.07 | 1.20 | | | | 119.8 |
| 5,552.37 | | | | 11/29/99 | 68.70 | 67.50 | |
| 5,553.57 | | | | 01/02/00 | 67.50 | 66.30 | |
| 5,553.87 | | | | 01/10/00 | 67.20 | 66.00 | |
| 5,553.72 | | | | 01/17/00 | 67.35 | 66.15 | |
| 5,553.97 | | | | 01/24/00 | 67.10 | 65.90 | |
| 5,553.87 | | | | 02/01/00 | 67.20 | 66.00 | |
| 5,553.87 | | | | 02/07/00 | 67.20 | 66.00 | |
| 5,554.17 | | | | 02/14/00 | 66.90 | 65.70 | |
| 5,554.27 | | | | 02/23/00 | 66.80 | 65.60 | |
| 5,554.37 | | | | 03/01/00 | 66.70 | 65.50 | |
| 5,554.37 | | | | 03/08/00 | 66.70 | 65.50 | |
| 5,554.27 | | | | 03/15/00 | 66.80 | 65.60 | |
| 5,554.77 | | | | 03/20/00 | 66.30 | 65.10 | |
| 5,554.57 | | | | 03/29/00 | 66.50 | 65.30 | |
| 5,554.27 | | | | 04/04/00 | 66.80 | 65.60 | |
| 5,554.57 | | | | 04/13/00 | 66.50 | 65.30 | |
| 5,554.77 | | | | 04/21/00 | 66.30 | 65.10 | |
| 5,554.87 | | | | 04/28/00 | 66.20 | 65.00 | |
| 5,554.87 | | | | 05/01/00 | 66.20 | 65.00 | |
| 5,555.27 | | | | 05/11/00 | 65.80 | 64.60 | |
| 5,554.97 | | | | 05/15/00 | 66.10 | 64.90 | |
| 5,555.27 | | | | 05/25/00 | 65.80 | 64.60 | |
| 5,555.33 | | | | 06/09/00 | 65.74 | 64.54 | |
| 5,555.45 | | | | 06/16/00 | 65.62 | 64.42 | |
| 5,555.22 | | | | 06/26/00 | 65.85 | 64.65 | |
| 5,555.45 | | | | 07/06/00 | 65.62 | 64.42 | |
| 5,555.40 | | | | 07/13/00 | 65.67 | 64.47 | |
| 5,555.45 | | | | 07/18/00 | 65.62 | 64.42 | |
| 5,555.59 | | | | 07/27/00 | 65.48 | 64.28 | |
| 5,555.65 | | | | 08/02/00 | 65.42 | 64.22 | |
| 5,555.70 | | | | 08/09/00 | 65.37 | 64.17 | |
| 5,555.74 | | | | 08/16/00 | 65.33 | 64.13 | |
| 5,555.96 | | | | 08/31/00 | 65.11 | 63.91 | |
| 5,555.87 | | | | 09/08/00 | 65.20 | 64.00 | |
| 5,555.95 | | | | 09/13/00 | 65.12 | 63.92 | |
| 5,556.05 | | | | 09/20/00 | 65.02 | 63.82 | |
| 5,556.06 | | | | 10/05/00 | 65.01 | 63.81 | |
| 5,556.17 | | | | 10/12/00 | 64.90 | 63.70 | |
| 5,556.20 | | | | 10/19/00 | 64.87 | 63.67 | |
| 5,556.22 | | | | 10/23/00 | 64.85 | 63.65 | |
| 5,556.36 | | | | 11/09/00 | 64.71 | 63.51 | |
| 5,556.42 | | | | 11/14/00 | 64.65 | 63.45 | |
| 5,556.45 | | | | 11/30/00 | 64.62 | 63.42 | |

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

| Water Elevation (WL) | Land Surface (LSD) | Measuring Point Elevation (MP) | Length Of Riser (L) | Date Of Monitoring | Total or Measured Depth to Water (blw.MP) | Total Depth to Water (blw.LSD) | Total Depth Of Well (blw.LSD) |
|---|---|---|---|---|---|---|---|
| | 5,619.87 | 5,621.07 | 1.20 | | | | 119.8 |
| 5,556.15 | | | | 12/06/00 | 64.92 | 63.72 | |
| 5,556.89 | | | | 01/14/01 | 64.18 | 62.98 | |
| 5,557.07 | | | | 02/09/01 | 64.00 | 62.80 | |
| 5,557.62 | | | | 03/29/01 | 63.45 | 62.25 | |
| 5,557.51 | | | | 04/30/01 | 63.56 | 62.36 | |
| 5,557.77 | | | | 05/31/01 | 63.30 | 62.10 | |
| 5,557.84 | | | | 06/21/01 | 63.23 | 62.03 | |
| 5,557.98 | | | | 07/10/01 | 63.09 | 61.89 | |
| 5,558.33 | | | | 08/20/01 | 62.74 | 61.54 | |
| 5,558.57 | | | | 09/19/01 | 62.50 | 61.30 | |
| 5,558.53 | | | | 10/02/01 | 62.54 | 61.34 | |
| 5,558.62 | | | | 11/08/01 | 62.45 | 61.25 | |
| 5,559.03 | | | | 12/03/01 | 62.04 | 60.84 | |
| 5,559.08 | | | | 01/03/02 | 61.99 | 60.79 | |
| 5,559.32 | | | | 02/06/02 | 61.75 | 60.55 | |
| 5,559.63 | | | | 03/26/02 | 61.44 | 60.24 | |
| 5,559.55 | | | | 04/09/02 | 61.52 | 60.32 | |
| 5,560.06 | | | | 05/23/02 | 61.01 | 59.81 | |
| 5,559.91 | | | | 06/05/02 | 61.16 | 59.96 | |
| 5,560.09 | | | | 07/08/02 | 60.98 | 59.78 | |
| 5,560.01 | | | | 08/23/02 | 61.06 | 59.86 | |
| 5,560.23 | | | | 09/11/02 | 60.84 | 59.64 | |
| 5,560.43 | | | | 10/23/02 | 60.64 | 59.44 | |
| 5,560.39 | | | | 11/22/02 | 60.68 | 59.48 | |
| 5,560.61 | | | | 12/03/02 | 60.46 | 59.26 | |
| 5,560.89 | | | | 01/09/03 | 60.18 | 58.98 | |
| 5,560.94 | | | | 02/12/03 | 60.13 | 58.93 | |
| 5,561.28 | | | | 03/26/03 | 59.79 | 58.59 | |
| 5,561.35 | | | | 04/02/03 | 59.72 | 58.52 | |
| 5,546.20 | | | | 05/01/03 | 74.87 | 73.67 | |
| 5,539.47 | | | | 06/09/03 | 81.60 | 80.40 | |
| 5,541.87 | | | | 07/07/03 | 79.20 | 78.00 | |
| 5,542.12 | | | | 08/04/03 | 78.95 | 77.75 | |
| 5,541.91 | | | | 09/11/03 | 79.16 | 77.96 | |
| 5,544.62 | | | | 10/02/03 | 76.45 | 75.25 | |
| 5,542.67 | | | | 11/07/03 | 78.40 | 77.20 | |
| 5,549.96 | | | | 12/03/03 | 71.11 | 69.91 | |
| 5,557.17 | | | | 01/15/04 | 63.90 | 62.70 | |
| 5,558.65 | | | | 02/10/04 | 62.42 | 61.22 | |
| 5,559.90 | | | | 03/28/04 | 61.17 | 59.97 | |
| 5,560.36 | | | | 04/12/04 | 60.71 | 59.51 | |
| 5,560.87 | | | | 05/13/04 | 60.20 | 59.00 | |
| 5,560.95 | | | | 06/18/04 | 60.12 | 58.92 | |

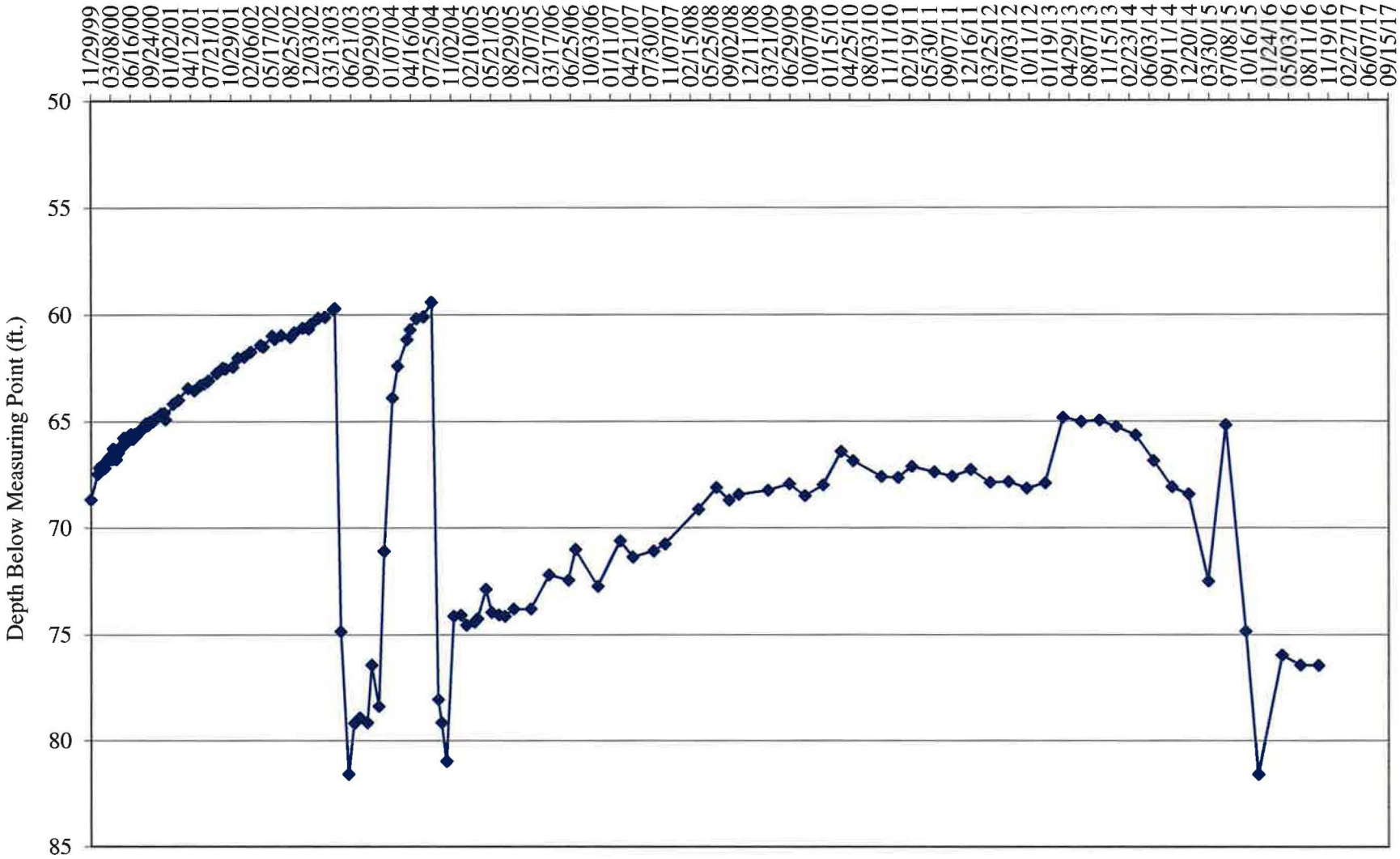
# Water Levels and Data over Time
# White Mesa Mill - Well TW4-7

| Water Elevation (WL) | Land Surface (LSD) | Measuring Point Elevation (MP) | Length Of Riser (L) | Date Of Monitoring | Total or Measured Depth to Water (blw.MP) | Total Depth to Water (blw.LSD) | Total Depth Of Well (blw.LSD) |
|---|---|---|---|---|---|---|---|
| | 5,619.87 | 5,621.07 | 1.20 | | | | 119.8 |
| 5,561.64 | | | | 07/28/04 | 59.43 | 58.23 | |
| 5,543.00 | | | | 08/30/04 | 78.07 | 76.87 | |
| 5,541.91 | | | | 09/16/04 | 79.16 | 77.96 | |
| 5,540.08 | | | | 10/11/04 | 80.99 | 79.79 | |
| 5,546.92 | | | | 11/16/04 | 74.15 | 72.95 | |
| 5,546.97 | | | | 12/22/04 | 74.10 | 72.90 | |
| 5,546.51 | | | | 01/18/05 | 74.56 | 73.36 | |
| 5,546.66 | | | | 02/28/05 | 74.41 | 73.21 | |
| 5,546.81 | | | | 03/15/05 | 74.26 | 73.06 | |
| 5,548.19 | | | | 04/26/05 | 72.88 | 71.68 | |
| 5,547.11 | | | | 05/24/05 | 73.96 | 72.76 | |
| 5,546.98 | | | | 06/30/05 | 74.09 | 72.89 | |
| 5,546.92 | | | | 07/29/05 | 74.15 | 72.95 | |
| 5,547.26 | | | | 09/12/05 | 73.81 | 72.61 | |
| 5,547.26 | | | | 12/07/05 | 73.81 | 72.61 | |
| 5,548.86 | | | | 03/08/06 | 72.21 | 71.01 | |
| 5,548.62 | | | | 06/13/06 | 72.45 | 71.25 | |
| 5,550.04 | | | | 07/18/06 | 71.03 | 69.83 | |
| 5,548.32 | | | | 11/07/06 | 72.75 | 71.55 | |
| 5,550.44 | | | | 02/27/07 | 70.63 | 69.43 | |
| 5,549.69 | | | | 05/02/07 | 71.38 | 70.18 | |
| 5,549.97 | | | | 08/14/07 | 71.10 | 69.90 | |
| 5,550.30 | | | | 10/10/07 | 70.77 | 69.57 | |
| 5,551.92 | | | | 03/26/08 | 69.15 | 67.95 | |
| 5,552.94 | | | | 06/24/08 | 68.13 | 66.93 | |
| 5,552.34 | | | | 08/26/08 | 68.73 | 67.53 | |
| 5,552.61 | | | | 10/14/08 | 68.46 | 67.26 | |
| 5,552.81 | | | | 03/10/09 | 68.26 | 67.06 | |
| 5,553.11 | | | | 06/24/09 | 67.96 | 66.76 | |
| 5,552.55 | | | | 09/10/09 | 68.52 | 67.32 | |
| 5,553.06 | | | | 12/11/09 | 68.01 | 66.81 | |
| 5,554.64 | | | | 03/11/10 | 66.43 | 65.23 | |
| 5,554.20 | | | | 05/11/10 | 66.87 | 65.67 | |
| 5,553.45 | | | | 09/29/10 | 67.62 | 66.42 | |
| 5,553.40 | | | | 12/21/10 | 67.67 | 66.47 | |
| 5,553.93 | | | | 02/28/11 | 67.14 | 65.94 | |
| 5,553.67 | | | | 06/21/11 | 67.4 | 66.20 | |
| 5,553.46 | | | | 09/20/11 | 67.61 | 66.41 | |
| 5,553.78 | | | | 12/21/11 | 67.29 | 66.09 | |
| 5,553.17 | | | | 03/27/12 | 67.90 | 66.70 | |
| 5,553.21 | | | | 06/28/12 | 67.86 | 66.66 | |
| 5,552.90 | | | | 09/27/12 | 68.17 | 66.97 | |
| 5,553.15 | | | | 12/28/12 | 67.92 | 66.72 | |

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

| Water Elevation (WL) | Land Surface (LSD) | Measuring Point Elevation (MP) | Length Of Riser (L) | Date Of Monitoring | Total or Measured Depth to Water (blw.MP) | Total Depth to Water (blw.LSD) | Total Depth Of Well (blw.LSD) |
|---|---|---|---|---|---|---|---|
| | 5,619.87 | 5,621.07 | 1.20 | | | | 119.8 |
| 5,556.23 | | | | 03/28/13 | 64.84 | 63.64 | |
| 5,556.04 | | | | 06/27/13 | 65.03 | 63.83 | |
| 5,556.09 | | | | 09/27/13 | 64.98 | 63.78 | |
| 5,555.80 | | | | 12/20/13 | 65.27 | 64.07 | |
| 5,555.40 | | | | 03/27/14 | 65.67 | 64.47 | |
| 5,554.20 | | | | 06/25/14 | 66.87 | 65.67 | |
| 5,552.96 | | | | 09/25/14 | 68.11 | 66.91 | |
| 5,552.62 | | | | 12/17/14 | 68.45 | 67.25 | |
| 5,548.57 | | | | 03/26/15 | 72.50 | 71.30 | |
| 5,555.88 | | | | 06/22/15 | 65.19 | 63.99 | |
| 5,546.22 | | | | 09/30/15 | 74.85 | 73.65 | |
| 5,539.47 | | | | 12/02/15 | 81.60 | 80.40 | |
| 5,545.08 | | | | 03/30/16 | 75.99 | 74.79 | |
| 5,544.62 | | | | 06/30/16 | 76.45 | 75.25 | |
| 5,544.61 | | | | 09/29/16 | 76.46 | 75.26 | |

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



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

| Water Elevation (WL) | Land Surface (LSD) | Measuring Point Elevation (MP) | Length Of Riser (L) | Date Of Monitoring | Total or Measured Depth to Water (blw.MP) | Total Depth to Water (blw.LSD) | Total Depth Of Well |
|---|---|---|---|---|---|---|---|
| | 5,616.80 | 5,621.40 | 4.60 | | | | 126.00 |
| 5,546.40 | | | | 11/29/99 | 75.00 | 70.40 | |
| 5,546.20 | | | | 01/02/00 | 75.20 | 70.60 | |
| 5,546.50 | | | | 01/10/00 | 74.90 | 70.30 | |
| 5,546.30 | | | | 01/17/00 | 75.10 | 70.50 | |
| 5,546.60 | | | | 01/24/00 | 74.80 | 70.20 | |
| 5,546.50 | | | | 02/01/00 | 74.90 | 70.30 | |
| 5,546.50 | | | | 02/07/00 | 74.90 | 70.30 | |
| 5,546.90 | | | | 02/14/00 | 74.50 | 69.90 | |
| 5,546.95 | | | | 02/23/00 | 74.45 | 69.85 | |
| 5,547.05 | | | | 03/01/00 | 74.35 | 69.75 | |
| 5,547.05 | | | | 03/08/00 | 74.35 | 69.75 | |
| 5,547.10 | | | | 03/15/00 | 74.30 | 69.70 | |
| 5,547.50 | | | | 03/20/00 | 73.90 | 69.30 | |
| 5,547.40 | | | | 03/29/00 | 74.00 | 69.40 | |
| 5,547.20 | | | | 04/04/00 | 74.20 | 69.60 | |
| 5,547.40 | | | | 04/13/00 | 74.00 | 69.40 | |
| 5,547.60 | | | | 04/21/00 | 73.80 | 69.20 | |
| 5,547.70 | | | | 04/28/00 | 73.70 | 69.10 | |
| 5,547.70 | | | | 05/01/00 | 73.70 | 69.10 | |
| 5,548.00 | | | | 05/11/00 | 73.40 | 68.80 | |
| 5,547.70 | | | | 05/15/00 | 73.70 | 69.10 | |
| 5,547.90 | | | | 05/25/00 | 73.50 | 68.90 | |
| 5,547.90 | | | | 06/09/00 | 73.50 | 68.90 | |
| 5,548.00 | | | | 06/16/00 | 73.40 | 68.80 | |
| 5,547.87 | | | | 06/26/00 | 73.53 | 68.93 | |
| 5,547.95 | | | | 07/06/00 | 73.45 | 68.85 | |
| 5,547.96 | | | | 07/13/00 | 73.44 | 68.84 | |
| 5,547.95 | | | | 07/18/00 | 73.45 | 68.85 | |
| 5,548.11 | | | | 07/27/00 | 73.29 | 68.69 | |
| 5,548.15 | | | | 08/02/00 | 73.25 | 68.65 | |
| 5,548.17 | | | | 08/09/00 | 73.23 | 68.63 | |
| 5,548.16 | | | | 08/15/00 | 73.24 | 68.64 | |
| 5,548.40 | | | | 08/31/00 | 73.00 | 68.40 | |
| 5,548.50 | | | | 09/08/00 | 72.90 | 68.30 | |
| 5,548.62 | | | | 09/13/00 | 72.78 | 68.18 | |
| 5,548.75 | | | | 09/20/00 | 72.65 | 68.05 | |
| 5,548.76 | | | | 10/05/00 | 72.64 | 68.04 | |
| 5,549.00 | | | | 11/09/00 | 72.40 | 67.80 | |
| 5,548.85 | | | | 12/06/00 | 72.55 | 67.95 | |
| 5,549.47 | | | | 01/03/01 | 71.93 | 67.33 | |
| 5,549.89 | | | | 02/09/01 | 71.51 | 66.91 | |
| 5,550.37 | | | | 03/27/01 | 71.03 | 66.43 | |
| 5,550.50 | | | | 04/30/01 | 70.90 | 66.30 | |

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

| Water Elevation (WL) | Land Surface (LSD) | Measuring Point Elevation (MP) | Length Of Riser (L) | Date Of Monitoring | Total or Measured Depth to Water (blw.MP) | Total Depth to Water (blw.LSD) | Total Depth Of Well |
|---|---|---|---|---|---|---|---|
| | 5,616.80 | 5,621.40 | 4.60 | | | | 126.00 |
| 5,550.68 | | | | 05/31/01 | 70.72 | 66.12 | |
| 5,550.68 | | | | 06/20/01 | 70.72 | 66.12 | |
| 5,551.02 | | | | 07/10/01 | 70.38 | 65.78 | |
| 5,551.32 | | | | 08/20/01 | 70.08 | 65.48 | |
| 5,551.49 | | | | 09/19/01 | 69.91 | 65.31 | |
| 5,551.64 | | | | 10/02/01 | 69.76 | 65.16 | |
| 5,551.81 | | | | 11/08/01 | 69.59 | 64.99 | |
| 5,552.22 | | | | 12/03/01 | 69.18 | 64.58 | |
| 5,552.16 | | | | 01/03/02 | 69.24 | 64.64 | |
| 5,552.38 | | | | 02/06/02 | 69.02 | 64.42 | |
| 5,552.85 | | | | 03/26/02 | 68.55 | 63.95 | |
| 5,552.83 | | | | 04/09/02 | 68.57 | 63.97 | |
| 5,553.20 | | | | 05/23/02 | 68.20 | 63.60 | |
| 5,553.16 | | | | 06/05/02 | 68.24 | 63.64 | |
| 5,553.32 | | | | 07/08/02 | 68.08 | 63.48 | |
| 5,553.49 | | | | 08/23/02 | 67.91 | 63.31 | |
| 5,553.69 | | | | 09/11/02 | 67.71 | 63.11 | |
| 5,554.09 | | | | 10/23/02 | 67.31 | 62.71 | |
| 5,554.02 | | | | 11/22/02 | 67.38 | 62.78 | |
| 5,554.23 | | | | 12/03/02 | 67.17 | 62.57 | |
| 5,554.43 | | | | 01/09/03 | 66.97 | 62.37 | |
| 5,554.42 | | | | 02/12/03 | 66.98 | 62.38 | |
| 5,554.71 | | | | 03/26/03 | 66.69 | 62.09 | |
| 5,554.83 | | | | 04/02/03 | 66.57 | 61.97 | |
| 5,552.21 | | | | 05/01/03 | 69.19 | 64.59 | |
| 5,547.93 | | | | 06/09/03 | 73.47 | 68.87 | |
| 5,546.97 | | | | 07/07/03 | 74.43 | 69.83 | |
| 5,546.58 | | | | 08/04/03 | 74.82 | 70.22 | |
| 5,546.24 | | | | 09/11/03 | 75.16 | 70.56 | |
| 5,546.38 | | | | 10/02/03 | 75.02 | 70.42 | |
| 5,546.40 | | | | 11/07/03 | 75.00 | 70.40 | |
| 5,546.59 | | | | 12/03/03 | 74.81 | 70.21 | |
| 5,551.29 | | | | 01/15/04 | 70.11 | 65.51 | |
| 5,552.69 | | | | 02/10/04 | 68.71 | 64.11 | |
| 5,554.06 | | | | 03/28/04 | 67.34 | 62.74 | |
| 5,554.52 | | | | 04/12/04 | 66.88 | 62.28 | |
| 5,555.06 | | | | 05/13/04 | 66.34 | 61.74 | |
| 5,555.11 | | | | 06/18/04 | 66.29 | 61.69 | |
| 5,555.88 | | | | 07/28/04 | 65.52 | 60.92 | |
| 5,552.97 | | | | 08/30/04 | 68.43 | 63.83 | |
| 5,550.65 | | | | 09/16/04 | 70.75 | 66.15 | |
| 5,548.40 | | | | 10/11/04 | 73.00 | 68.40 | |
| 5,548.28 | | | | 11/16/04 | 73.12 | 68.52 | |

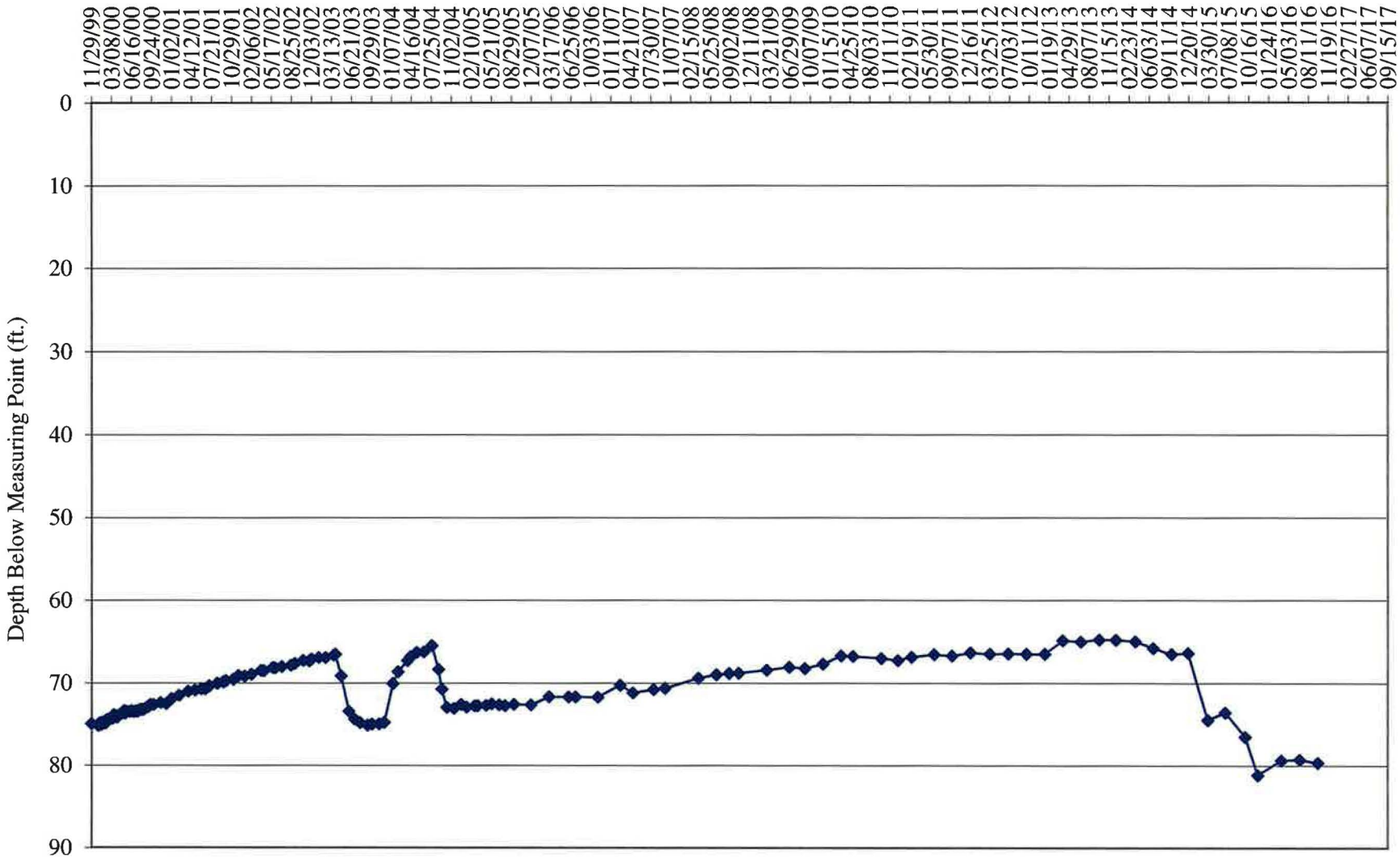
# Water Levels and Data over Time
# White Mesa Mill - Well TW4-8

| Water Elevation (WL) | Land Surface (LSD) | Measuring Point Elevation (MP) | Length Of Riser (L) | Date Of Monitoring | Total or Measured Depth to Water (blw.MP) | Total Depth to Water (blw.LSD) | Total Depth Of Well |
|---|---|---|---|---|---|---|---|
| | 5,616.80 | 5,621.40 | 4.60 | | | | 126.00 |
| 5,548.80 | | | | 12/22/04 | 72.60 | 68.00 | |
| 5,548.43 | | | | 01/18/05 | 72.97 | 68.37 | |
| 5,548.61 | | | | 02/28/05 | 72.79 | 68.19 | |
| 5,548.64 | | | | 03/15/05 | 72.76 | 68.16 | |
| 5,548.65 | | | | 04/26/05 | 72.75 | 68.15 | |
| 5,548.85 | | | | 05/24/05 | 72.55 | 67.95 | |
| 5,548.73 | | | | 06/30/05 | 72.67 | 68.07 | |
| 5,548.62 | | | | 07/29/05 | 72.78 | 68.18 | |
| 5,548.80 | | | | 09/12/05 | 72.60 | 68.00 | |
| 5,548.71 | | | | 12/07/05 | 72.69 | 68.09 | |
| 5,549.72 | | | | 03/08/06 | 71.68 | 67.08 | |
| 5,549.70 | | | | 06/13/06 | 71.70 | 67.10 | |
| 5,549.70 | | | | 07/18/06 | 71.70 | 67.10 | |
| 5,549.65 | | | | 11/07/06 | 71.75 | 67.15 | |
| 5,551.11 | | | | 02/27/07 | 70.29 | 65.69 | |
| 5,550.20 | | | | 05/02/07 | 71.20 | 66.60 | |
| 5,550.59 | | | | 08/14/07 | 70.81 | 66.21 | |
| 5,550.76 | | | | 10/10/07 | 70.64 | 66.04 | |
| 5,551.95 | | | | 03/26/08 | 69.45 | 64.85 | |
| 5,552.36 | | | | 06/24/08 | 69.04 | 64.44 | |
| 5,552.50 | | | | 08/26/08 | 68.90 | 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 | 66.90 | 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 | |
| 5,556.35 | | | | 06/27/13 | 65.05 | 60.45 | |
| 5,556.60 | | | | 09/27/13 | 64.80 | 60.20 | |
| 5,556.56 | | | | 12/20/13 | 64.84 | 60.24 | |
| 5,556.38 | | | | 03/27/14 | 65.02 | 60.42 | |

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

| Water Elevation (WL) | Land Surface (LSD) | Measuring Point Elevation (MP) | Length Of Riser (L) | Date Of Monitoring | Total or Measured Depth to Water (blw.MP) | Total Depth to Water (blw.LSD) | Total Depth Of Well |
|---|---|---|---|---|---|---|---|
| | 5,616.80 | 5,621.40 | 4.60 | | | | 126.00 |
| 5,555.56 | | | | 06/25/14 | 65.84 | 61.24 | |
| 5,554.82 | | | | 09/25/14 | 66.58 | 61.98 | |
| 5,554.95 | | | | 12/17/14 | 66.45 | 61.85 | |
| 5,546.89 | | | | 03/26/15 | 74.51 | 69.91 | |
| 5,547.80 | | | | 06/22/15 | 73.60 | 69.00 | |
| 5,544.84 | | | | 09/30/15 | 76.56 | 71.96 | |
| 5,540.22 | | | | 12/02/15 | 81.18 | 76.58 | |
| 5,542.00 | | | | 03/30/16 | 79.40 | 74.80 | |
| 5,542.10 | | | | 06/30/16 | 79.30 | 74.70 | |
| 5,541.70 | | | | 09/29/16 | 79.70 | 75.10 | |

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



## Water Levels and Data over Time
## White Mesa Mill - Well TW4-9

| Water Elevation (WL) | Land Surface (LSD) | Measuring Point Elevation (MP) | Length Of Riser (L) | Date Of Monitoring | Total or Measured Depth to Water (blw.MP) | Total Depth to Water (blw.LSD) | Total Depth Of Well |
|---|---|---|---|---|---|---|---|
| | 5,636.11 | 5,637.59 | 1.48 | | | | 121.33 |
| 5,577.09 | | | | 12/20/99 | 60.50 | 59.02 | |
| 5,577.09 | | | | 01/02/00 | 60.50 | 59.02 | |
| 5,577.29 | | | | 01/10/00 | 60.30 | 58.82 | |
| 5,577.09 | | | | 01/17/00 | 60.50 | 59.02 | |
| 5,577.39 | | | | 01/24/00 | 60.20 | 58.72 | |
| 5,577.29 | | | | 02/01/00 | 60.30 | 58.82 | |
| 5,577.19 | | | | 02/07/00 | 60.40 | 58.92 | |
| 5,577.69 | | | | 02/14/00 | 59.90 | 58.42 | |
| 5,577.69 | | | | 02/23/00 | 59.90 | 58.42 | |
| 5,577.79 | | | | 03/01/00 | 59.80 | 58.32 | |
| 5,577.79 | | | | 03/08/00 | 59.80 | 58.32 | |
| 5,577.89 | | | | 03/15/00 | 59.70 | 58.22 | |
| 5,568.49 | | | | 03/20/00 | 69.10 | 67.62 | |
| 5,578.14 | | | | 03/29/00 | 59.45 | 57.97 | |
| 5,577.84 | | | | 04/04/00 | 59.75 | 58.27 | |
| 5,578.04 | | | | 04/13/00 | 59.55 | 58.07 | |
| 5,578.24 | | | | 04/21/00 | 59.35 | 57.87 | |
| 5,578.39 | | | | 04/28/00 | 59.20 | 57.72 | |
| 5,578.39 | | | | 05/01/00 | 59.20 | 57.72 | |
| 5,578.79 | | | | 05/11/00 | 58.80 | 57.32 | |
| 5,578.39 | | | | 05/15/00 | 59.20 | 57.72 | |
| 5,578.79 | | | | 05/25/00 | 58.80 | 57.32 | |
| 5,578.81 | | | | 06/09/00 | 58.78 | 57.30 | |
| 5,578.89 | | | | 06/16/00 | 58.70 | 57.22 | |
| 5,578.74 | | | | 06/26/00 | 58.85 | 57.37 | |
| 5,578.86 | | | | 07/06/00 | 58.73 | 57.25 | |
| 5,578.87 | | | | 07/13/00 | 58.72 | 57.24 | |
| 5,578.84 | | | | 07/18/00 | 58.75 | 57.27 | |
| 5,579.03 | | | | 07/27/00 | 58.56 | 57.08 | |
| 5,579.03 | | | | 08/02/00 | 58.56 | 57.08 | |
| 5,579.05 | | | | 08/09/00 | 58.54 | 57.06 | |
| 5,579.04 | | | | 08/15/00 | 58.55 | 57.07 | |
| 5,579.25 | | | | 08/31/00 | 58.34 | 56.86 | |
| 5,579.35 | | | | 09/08/00 | 58.24 | 56.76 | |
| 5,579.40 | | | | 09/13/00 | 58.19 | 56.71 | |
| 5,579.46 | | | | 09/20/00 | 58.13 | 56.65 | |
| 5,579.44 | | | | 10/05/00 | 58.15 | 56.67 | |
| 5,579.79 | | | | 11/09/00 | 57.80 | 56.32 | |
| 5,579.73 | | | | 12/06/00 | 57.86 | 56.38 | |
| 5,580.01 | | | | 01/03/01 | 57.58 | 56.10 | |
| 5,580.30 | | | | 02/09/01 | 57.29 | 55.81 | |
| 5,580.66 | | | | 03/27/01 | 56.93 | 55.45 | |
| 5,580.75 | | | | 04/30/01 | 56.84 | 55.36 | |

## Water Levels and Data over Time
## White Mesa Mill - Well TW4-9

| Water Elevation (WL) | Land Surface (LSD) | Measuring Point Elevation (MP) | Length Of Riser (L) | Date Of Monitoring | Total or Measured Depth to Water (blw.MP) | Total Depth to Water (blw.LSD) | Total Depth Of Well |
|---|---|---|---|---|---|---|---|
| | 5,636.11 | 5,637.59 | 1.48 | | | | 121.33 |
| 5,581.04 | | | | 05/31/01 | 56.55 | 55.07 | |
| 5,581.12 | | | | 06/21/01 | 56.47 | 54.99 | |
| 5,581.15 | | | | 07/10/01 | 56.44 | 54.96 | |
| 5,581.51 | | | | 08/20/01 | 56.08 | 54.60 | |
| 5,581.70 | | | | 09/19/01 | 55.89 | 54.41 | |
| 5,581.61 | | | | 10/02/01 | 55.98 | 54.50 | |
| 5,581.83 | | | | 11/08/01 | 55.76 | 54.28 | |
| 5,582.17 | | | | 12/03/01 | 55.42 | 53.94 | |
| 5,582.21 | | | | 01/03/02 | 55.38 | 53.90 | |
| 5,582.57 | | | | 02/06/02 | 55.02 | 53.54 | |
| 5,583.12 | | | | 03/26/02 | 54.47 | 52.99 | |
| 5,582.77 | | | | 04/09/02 | 54.82 | 53.34 | |
| 5,583.21 | | | | 05/23/02 | 54.38 | 52.90 | |
| 5,582.94 | | | | 06/05/02 | 54.65 | 53.17 | |
| 5,582.71 | | | | 07/08/02 | 54.88 | 53.40 | |
| 5,583.67 | | | | 08/23/02 | 53.92 | 52.44 | |
| 5,583.82 | | | | 09/11/02 | 53.77 | 52.29 | |
| 5,584.01 | | | | 10/23/02 | 53.58 | 52.10 | |
| 5,583.88 | | | | 11/22/02 | 53.71 | 52.23 | |
| 5,583.81 | | | | 12/03/02 | 53.78 | 52.30 | |
| 5,584.28 | | | | 01/09/03 | 53.31 | 51.83 | |
| 5,584.41 | | | | 02/12/03 | 53.18 | 51.70 | |
| 5,584.68 | | | | 03/26/03 | 52.91 | 51.43 | |
| 5,584.49 | | | | 04/02/03 | 53.10 | 51.62 | |
| 5,584.51 | | | | 05/01/03 | 53.08 | 51.60 | |
| 5,583.59 | | | | 06/09/03 | 54.00 | 52.52 | |
| 5,582.96 | | | | 07/07/03 | 54.63 | 53.15 | |
| 5,582.98 | | | | 08/04/03 | 54.61 | 53.13 | |
| 5,582.57 | | | | 09/11/03 | 55.02 | 53.54 | |
| 5,582.25 | | | | 10/02/03 | 55.34 | 53.86 | |
| 5,582.09 | | | | 11/07/03 | 55.50 | 54.02 | |
| 5,582.48 | | | | 12/03/03 | 55.11 | 53.63 | |
| 5,583.69 | | | | 01/15/04 | 53.90 | 52.42 | |
| 5,583.89 | | | | 02/10/04 | 53.70 | 52.22 | |
| 5,584.30 | | | | 03/28/04 | 53.29 | 51.81 | |
| 5,584.59 | | | | 04/12/04 | 53.00 | 51.52 | |
| 5,584.87 | | | | 05/13/04 | 52.72 | 51.24 | |
| 5,584.96 | | | | 06/18/04 | 52.63 | 51.15 | |
| 5,585.50 | | | | 07/28/04 | 52.09 | 50.61 | |
| 5,584.81 | | | | 08/30/04 | 52.78 | 51.30 | |
| 5,584.40 | | | | 09/16/04 | 53.19 | 51.71 | |
| 5,583.91 | | | | 10/11/04 | 53.68 | 52.20 | |
| 5,583.39 | | | | 11/16/04 | 54.20 | 52.72 | |

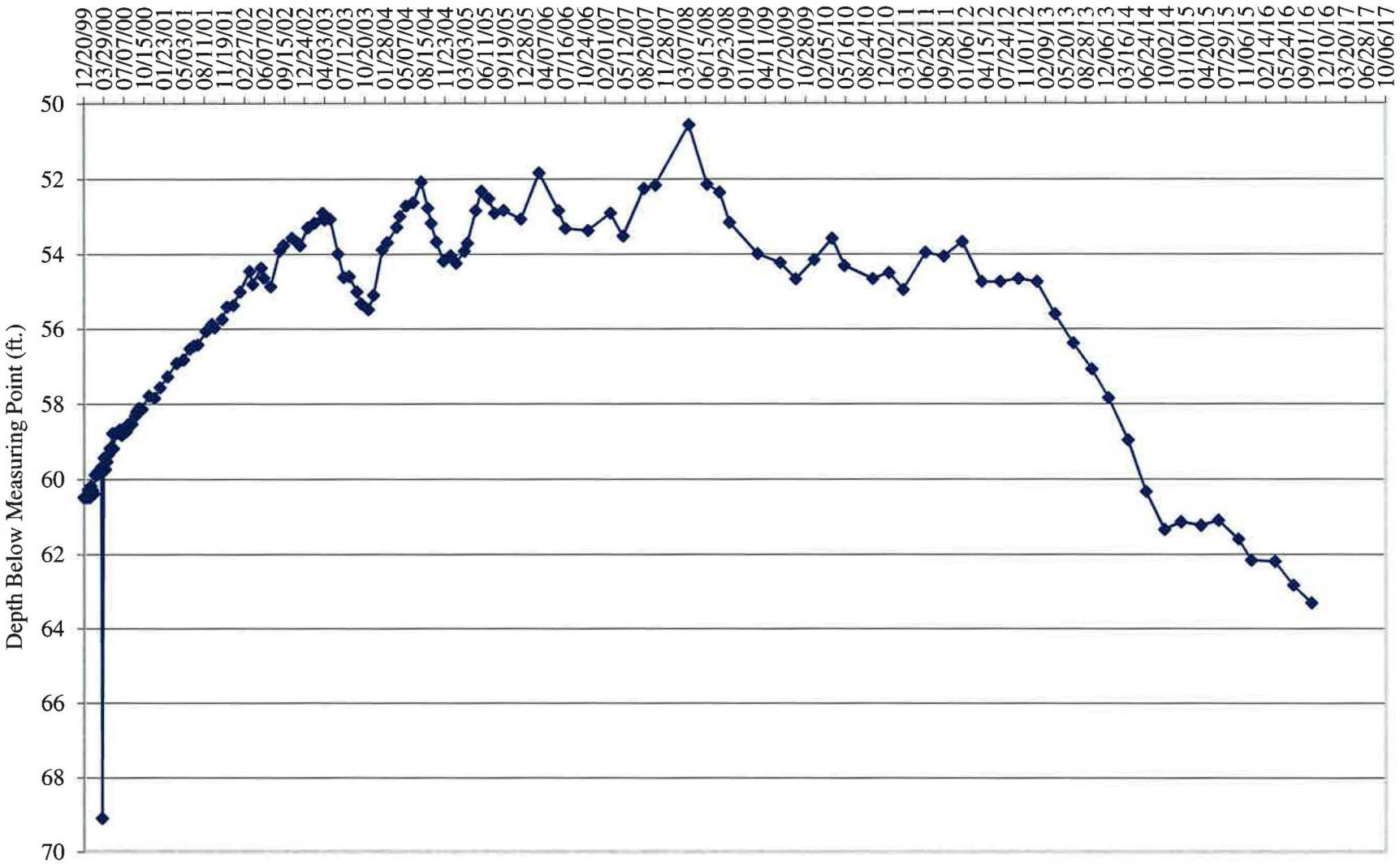
## Water Levels and Data over Time
## White Mesa Mill - Well TW4-9

| Water Elevation (WL) | Land Surface (LSD) | Measuring Point Elevation (MP) | Length Of Riser (L) | Date Of Monitoring | Total or Measured Depth to Water (blw.MP) | Total Depth to Water (blw.LSD) | Total Depth Of Well |
|---|---|---|---|---|---|---|---|
| | 5,636.11 | 5,637.59 | 1.48 | | | | 121.33 |
| 5,583.54 | | | | 12/22/04 | 54.05 | 52.57 | |
| 5,583.34 | | | | 01/18/05 | 54.25 | 52.77 | |
| 5,583.66 | | | | 02/28/05 | 53.93 | 52.45 | |
| 5,583.87 | | | | 03/15/05 | 53.72 | 52.24 | |
| 5,584.74 | | | | 04/26/05 | 52.85 | 51.37 | |
| 5,585.26 | | | | 05/24/05 | 52.33 | 50.85 | |
| 5,585.06 | | | | 06/30/05 | 52.53 | 51.05 | |
| 5,584.67 | | | | 07/29/05 | 52.92 | 51.44 | |
| 5,584.75 | | | | 09/12/05 | 52.84 | 51.36 | |
| 5,584.51 | | | | 12/07/05 | 53.08 | 51.60 | |
| 5,585.74 | | | | 03/08/06 | 51.85 | 50.37 | |
| 5,584.74 | | | | 06/13/06 | 52.85 | 51.37 | |
| 5,584.26 | | | | 07/18/06 | 53.33 | 51.85 | |
| 5,584.21 | | | | 11/07/06 | 53.38 | 51.90 | |
| 5,584.67 | | | | 02/27/07 | 52.92 | 51.44 | |
| 5,584.06 | | | | 05/02/07 | 53.53 | 52.05 | |
| 5,585.33 | | | | 08/14/07 | 52.26 | 50.78 | |
| 5,585.42 | | | | 10/10/07 | 52.17 | 50.69 | |
| 5,587.01 | | | | 03/26/08 | 50.58 | 49.10 | |
| 5,585.44 | | | | 06/24/08 | 52.15 | 50.67 | |
| 5,585.23 | | | | 08/26/08 | 52.36 | 50.88 | |
| 5,584.42 | | | | 10/14/08 | 53.17 | 51.69 | |
| 5,583.59 | | | | 03/03/09 | 54.00 | 52.52 | |
| 5,583.35 | | | | 06/24/09 | 54.24 | 52.76 | |
| 5,582.91 | | | | 09/10/09 | 54.68 | 53.20 | |
| 5,583.43 | | | | 12/11/09 | 54.16 | 52.68 | |
| 5,584.00 | | | | 03/11/10 | 53.59 | 52.11 | |
| 5,583.27 | | | | 05/11/10 | 54.32 | 52.84 | |
| 5,582.92 | | | | 09/29/10 | 54.67 | 53.19 | |
| 5,583.08 | | | | 12/21/10 | 54.51 | 53.03 | |
| 5,582.63 | | | | 02/28/11 | 54.96 | 53.48 | |
| 5,583.62 | | | | 06/21/11 | 53.97 | 52.49 | |
| 5,583.52 | | | | 09/20/11 | 54.07 | 52.59 | |
| 5,583.91 | | | | 12/21/11 | 53.68 | 52.20 | |
| 5,582.84 | | | | 03/27/12 | 54.75 | 53.27 | |
| 5,582.84 | | | | 06/28/12 | 54.75 | 53.27 | |
| 5,582.92 | | | | 09/27/12 | 54.67 | 53.19 | |
| 5,582.84 | | | | 12/28/12 | 54.75 | 53.27 | |
| 5,581.97 | | | | 03/28/13 | 55.62 | 54.14 | |
| 5,581.19 | | | | 06/27/13 | 56.40 | 54.92 | |
| 5,580.50 | | | | 09/27/13 | 57.09 | 55.61 | |
| 5,579.73 | | | | 12/20/13 | 57.86 | 56.38 | |
| 5,578.61 | | | | 03/27/14 | 58.98 | 57.50 | |

## Water Levels and Data over Time
## White Mesa Mill - Well TW4-9

| Water Elevation (WL) | Land Surface (LSD) | Measuring Point Elevation (MP) | Length Of Riser (L) | Date Of Monitoring | Total or Measured Depth to Water (blw.MP) | Total Depth to Water (blw.LSD) | Total Depth Of Well |
|---|---|---|---|---|---|---|---|
| | 5,636.11 | 5,637.59 | 1.48 | | | | 121.33 |
| 5,577.24 | | | | 06/25/14 | 60.35 | 58.87 | |
| 5,576.24 | | | | 09/25/14 | 61.35 | 59.87 | |
| 5,576.44 | | | | 12/17/14 | 61.15 | 59.67 | |
| 5,576.35 | | | | 03/26/15 | 61.24 | 59.76 | |
| 5,576.48 | | | | 06/22/15 | 61.11 | 59.63 | |
| 5,575.98 | | | | 09/30/15 | 61.61 | 60.13 | |
| 5,575.41 | | | | 12/02/15 | 62.18 | 60.70 | |
| 5,575.38 | | | | 03/30/16 | 62.21 | 60.73 | |
| 5,574.74 | | | | 06/30/16 | 62.85 | 61.37 | |
| 5,574.26 | | | | 09/29/16 | 63.33 | 61.85 | |

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



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

| Water Elevation (WL) | Land Surface (LSD) | Measuring Point Elevation (MP) | Length Of Riser (L) | Date Of Monitoring | Total or Measured Depth to Water (blw.MP) | Total Depth to Water (blw.LSD) | Total Depth Of Well |
|---|---|---|---|---|---|---|---|
| | 5,631.99 | 5,634.24 | 2.25 | | | | 111 |
| 5,576.75 | | | | 01/03/02 | 57.49 | 55.24 | |
| 5,576.92 | | | | 02/06/02 | 57.32 | 55.07 | |
| 5,577.43 | | | | 03/26/02 | 56.81 | 54.56 | |
| 5,577.22 | | | | 04/09/02 | 57.02 | 54.77 | |
| 5,577.80 | | | | 05/23/02 | 56.44 | 54.19 | |
| 5,577.47 | | | | 06/05/02 | 56.77 | 54.52 | |
| 5,577.55 | | | | 07/08/02 | 56.69 | 54.44 | |
| 5,578.10 | | | | 08/23/02 | 56.14 | 53.89 | |
| 5,578.24 | | | | 09/11/02 | 56.00 | 53.75 | |
| 5,578.49 | | | | 10/23/02 | 55.75 | 53.50 | |
| 5,578.43 | | | | 11/22/02 | 55.81 | 53.56 | |
| 5,578.43 | | | | 12/03/02 | 55.81 | 53.56 | |
| 5,578.66 | | | | 01/09/03 | 55.58 | 53.33 | |
| 5,578.66 | | | | 02/12/03 | 55.58 | 53.33 | |
| 5,578.78 | | | | 03/26/03 | 55.46 | 53.21 | |
| 5,578.90 | | | | 04/02/03 | 55.34 | 53.09 | |
| 5,578.83 | | | | 05/01/03 | 55.41 | 53.16 | |
| 5,578.05 | | | | 06/09/03 | 56.19 | 53.94 | |
| 5,577.38 | | | | 07/07/03 | 56.86 | 54.61 | |
| 5,577.15 | | | | 08/04/03 | 57.09 | 54.84 | |
| 5,576.76 | | | | 09/11/03 | 57.48 | 55.23 | |
| 5,576.36 | | | | 10/02/03 | 57.88 | 55.63 | |
| 5,576.05 | | | | 11/07/03 | 58.19 | 55.94 | |
| 5,576.20 | | | | 12/03/03 | 58.04 | 55.79 | |
| 5,577.43 | | | | 01/15/04 | 56.81 | 54.56 | |
| 5,577.81 | | | | 02/10/04 | 56.43 | 54.18 | |
| 5,578.47 | | | | 03/28/04 | 55.77 | 53.52 | |
| 5,578.69 | | | | 04/12/04 | 55.55 | 53.30 | |
| 5,578.93 | | | | 05/13/04 | 55.31 | 53.06 | |
| 5,578.99 | | | | 06/18/04 | 55.25 | 53.00 | |
| 5,579.18 | | | | 07/28/04 | 55.06 | 52.81 | |
| 5,579.06 | | | | 08/30/04 | 55.18 | 52.93 | |
| 5,578.78 | | | | 09/16/04 | 55.46 | 53.21 | |
| 5,577.80 | | | | 10/11/04 | 56.44 | 54.19 | |
| 5,577.13 | | | | 11/16/04 | 57.11 | 54.86 | |
| 5,576.96 | | | | 12/22/04 | 57.28 | 55.03 | |
| 5,576.63 | | | | 01/18/05 | 57.61 | 55.36 | |
| 5,576.82 | | | | 02/28/05 | 57.42 | 55.17 | |
| 5,576.86 | | | | 03/15/05 | 57.38 | 55.13 | |
| 5,577.52 | | | | 04/26/05 | 56.72 | 54.47 | |
| 5,578.01 | | | | 05/24/05 | 56.23 | 53.98 | |
| 5,578.15 | | | | 06/30/05 | 56.09 | 53.84 | |
| 5,577.90 | | | | 07/29/05 | 56.34 | 54.09 | |

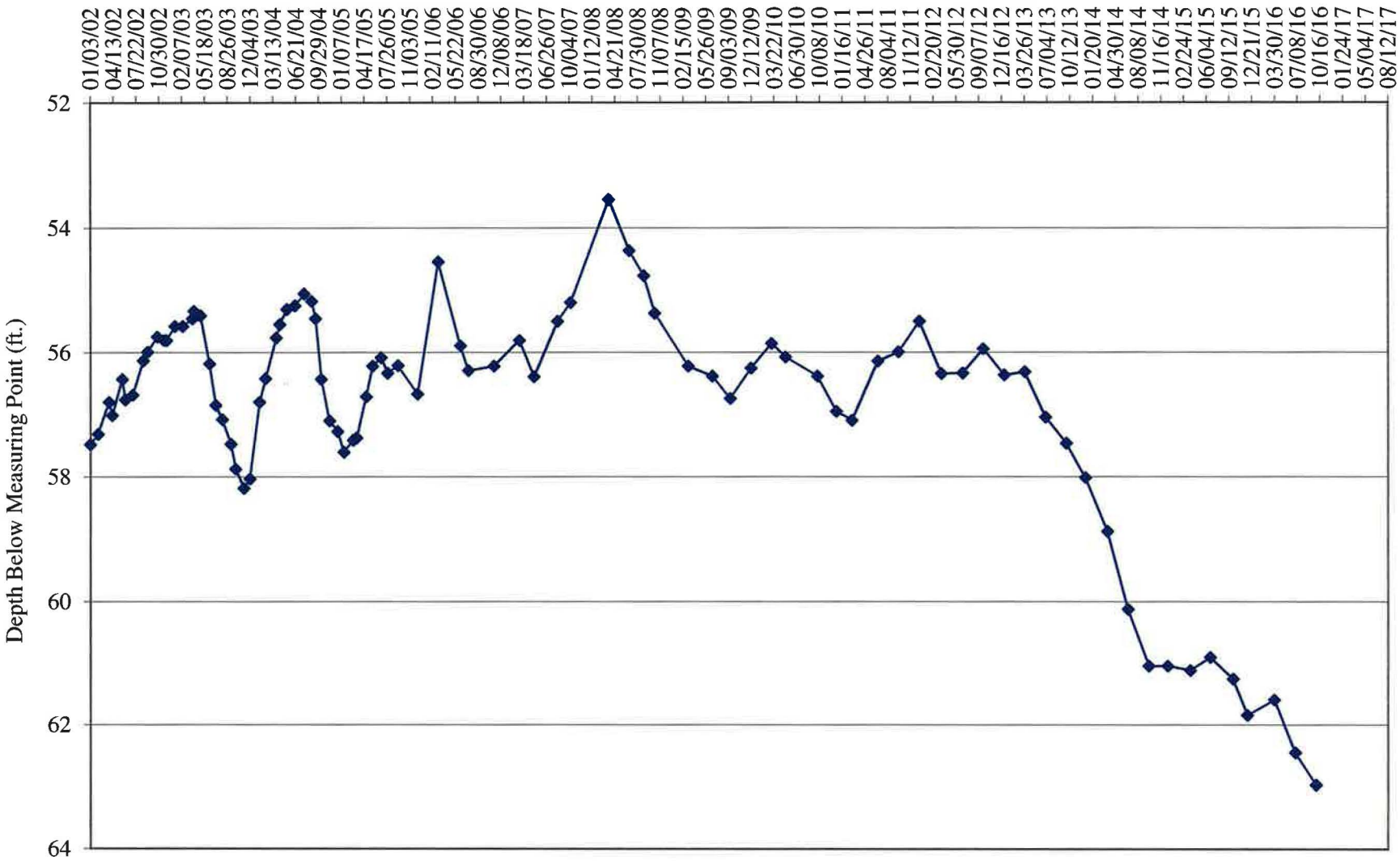
# Water Levels and Data over Time
# White Mesa Mill - Well TW4-10

| Water Elevation (WL) | Land Surface (LSD) | Measuring Point Elevation (MP) | Length Of Riser (L) | Date Of Monitoring | Total or Measured Depth to Water (blw.MP) | Total Depth to Water (blw.LSD) | Total Depth Of Well |
|---|---|---|---|---|---|---|---|
| | 5,631.99 | 5,634.24 | 2.25 | | | | 111 |
| 5,578.02 | | | | 09/12/05 | 56.22 | 53.97 | |
| 5,577.56 | | | | 12/07/05 | 56.68 | 54.43 | |
| 5,579.69 | | | | 03/08/06 | 54.55 | 52.30 | |
| 5,578.34 | | | | 06/13/06 | 55.90 | 53.65 | |
| 5,577.94 | | | | 07/18/06 | 56.30 | 54.05 | |
| 5,578.01 | | | | 11/07/06 | 56.23 | 53.98 | |
| 5578.43 | | | | 02/27/07 | 55.81 | 53.56 | |
| 5,577.84 | | | | 05/02/07 | 56.40 | 54.15 | |
| 5,578.74 | | | | 08/14/07 | 55.50 | 53.25 | |
| 5,579.04 | | | | 10/10/07 | 55.20 | 52.95 | |
| 5,580.69 | | | | 03/26/08 | 53.55 | 51.30 | |
| 5,579.87 | | | | 06/24/08 | 54.37 | 52.12 | |
| 5,579.47 | | | | 08/26/08 | 54.77 | 52.52 | |
| 5,578.87 | | | | 10/14/08 | 55.37 | 53.12 | |
| 5,578.01 | | | | 03/10/09 | 56.23 | 53.98 | |
| 5,577.85 | | | | 06/24/09 | 56.39 | 54.14 | |
| 5,577.49 | | | | 09/10/09 | 56.75 | 54.50 | |
| 5,577.98 | | | | 12/11/09 | 56.26 | 54.01 | |
| 5,578.38 | | | | 03/11/10 | 55.86 | 53.61 | |
| 5,578.16 | | | | 05/11/10 | 56.08 | 53.83 | |
| 5,577.85 | | | | 09/29/10 | 56.39 | 54.14 | |
| 5,577.28 | | | | 12/21/10 | 56.96 | 54.71 | |
| 5,577.14 | | | | 02/28/11 | 57.10 | 54.85 | |
| 5,578.09 | | | | 06/21/11 | 56.15 | 53.90 | |
| 5,578.24 | | | | 09/20/11 | 56.00 | 53.75 | |
| 5,578.74 | | | | 12/21/11 | 55.50 | 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 | |
| 5,577.19 | | | | 06/27/13 | 57.05 | 54.80 | |
| 5,576.77 | | | | 09/27/13 | 57.47 | 55.22 | |
| 5,576.22 | | | | 12/20/13 | 58.02 | 55.77 | |
| 5,575.36 | | | | 03/27/14 | 58.88 | 56.63 | |
| 5,574.11 | | | | 06/25/14 | 60.13 | 57.88 | |
| 5,573.19 | | | | 09/25/14 | 61.05 | 58.80 | |
| 5,573.19 | | | | 12/17/14 | 61.05 | 58.80 | |
| 5,573.12 | | | | 03/26/15 | 61.12 | 58.87 | |
| 5,573.33 | | | | 06/22/15 | 60.91 | 58.66 | |
| 5,572.98 | | | | 09/30/15 | 61.26 | 59.01 | |
| 5,572.39 | | | | 12/02/15 | 61.85 | 59.60 | |
| 5,572.64 | | | | 03/30/16 | 61.60 | 59.35 | |

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

| Water Elevation (WL) | Land Surface (LSD) | Measuring Point Elevation (MP) | Length Of Riser (L) | Date Of Monitoring | Total or Measured Depth to Water (blw.MP) | Total Depth to Water (blw.LSD) | Total Depth Of Well |
|---|---|---|---|---|---|---|---|
| | 5,631.99 | 5,634.24 | 2.25 | | | | 111 |
| 5,571.79 | | | | 06/30/16 | 62.45 | 60.20 | |
| 5,571.27 | | | | 09/29/16 | 62.97 | 60.72 | |

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



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

| Water Elevation (WL) | Land Surface (LSD) | Measuring Point Elevation (MP) | Length Of Riser (L) | Date Of Monitoring | Total or Measured Depth to Water (blw.MP) | Total Depth to Water (blw.LSD) | Total Depth Of Well |
|---|---|---|---|---|---|---|---|
| | 5,621.92 | 5,623.62 | 1.70 | | | | 100 |
| 5,548.32 | | | | 01/03/02 | 75.30 | 73.60 | |
| 5,548.73 | | | | 02/06/02 | 74.89 | 73.19 | |
| 5,549.03 | | | | 03/26/02 | 74.59 | 72.89 | |
| 5,548.84 | | | | 04/09/02 | 74.78 | 73.08 | |
| 5,549.30 | | | | 05/23/02 | 74.32 | 72.62 | |
| 5,549.01 | | | | 06/05/02 | 74.61 | 72.91 | |
| 5,549.22 | | | | 07/08/02 | 74.40 | 72.70 | |
| 5,549.44 | | | | 08/23/02 | 74.18 | 72.48 | |
| 5,549.57 | | | | 09/11/02 | 74.05 | 72.35 | |
| 5,549.64 | | | | 10/23/02 | 73.98 | 72.28 | |
| 5,549.58 | | | | 11/22/02 | 74.04 | 72.34 | |
| 5,549.62 | | | | 12/03/02 | 74.00 | 72.30 | |
| 5,549.85 | | | | 01/09/03 | 73.77 | 72.07 | |
| 5,549.91 | | | | 02/12/03 | 73.71 | 72.01 | |
| 5,550.15 | | | | 03/26/03 | 73.47 | 71.77 | |
| 5,550.01 | | | | 04/02/03 | 73.61 | 71.91 | |
| 5,550.31 | | | | 05/01/03 | 73.31 | 71.61 | |
| 5,550.44 | | | | 06/09/03 | 73.18 | 71.48 | |
| 5,550.33 | | | | 07/07/03 | 73.29 | 71.59 | |
| 5,550.35 | | | | 08/04/03 | 73.27 | 71.57 | |
| 5,550.44 | | | | 09/11/03 | 73.18 | 71.48 | |
| 5,550.47 | | | | 10/02/03 | 73.15 | 71.45 | |
| 5,550.60 | | | | 11/07/03 | 73.02 | 71.32 | |
| 5,550.60 | | | | 12/03/03 | 73.02 | 71.32 | |
| 5,550.94 | | | | 01/15/04 | 72.68 | 70.98 | |
| 5,551.00 | | | | 02/10/04 | 72.62 | 70.92 | |
| 5,550.34 | | | | 03/28/04 | 73.28 | 71.58 | |
| 5,551.54 | | | | 04/12/04 | 72.08 | 70.38 | |
| 5,551.89 | | | | 05/13/04 | 71.73 | 70.03 | |
| 5,551.94 | | | | 06/18/04 | 71.68 | 69.98 | |
| 5,552.49 | | | | 07/28/04 | 71.13 | 69.43 | |
| 5,552.74 | | | | 08/30/04 | 70.88 | 69.18 | |
| 5,553.01 | | | | 09/16/04 | 70.61 | 68.91 | |
| 5,553.11 | | | | 10/11/04 | 70.51 | 68.81 | |
| 5,553.19 | | | | 11/16/04 | 70.43 | 68.73 | |
| 5,553.53 | | | | 12/22/04 | 70.09 | 68.39 | |
| 5,553.31 | | | | 01/18/05 | 70.31 | 68.61 | |
| 5,553.84 | | | | 02/28/05 | 69.78 | 68.08 | |
| 5,554.04 | | | | 03/15/05 | 69.58 | 67.88 | |
| 5,554.23 | | | | 04/26/05 | 69.39 | 67.69 | |
| 5,553.87 | | | | 05/24/05 | 69.75 | 68.05 | |
| 5,554.46 | | | | 06/30/05 | 69.16 | 67.46 | |
| 5,554.57 | | | | 07/29/05 | 69.05 | 67.35 | |

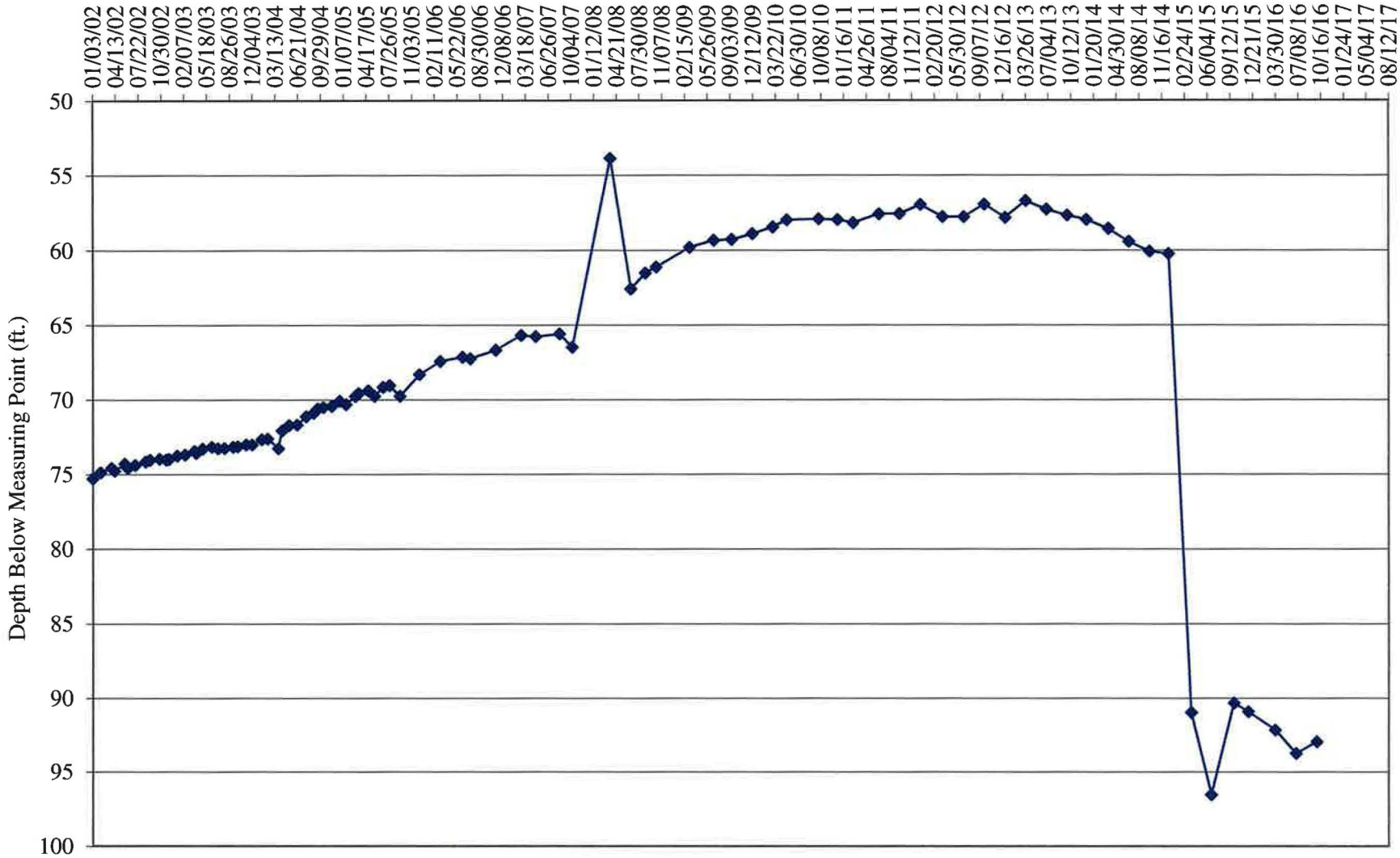
# Water Levels and Data over Time
# White Mesa Mill - Well TW4-11

| Water Elevation (WL) | Land Surface (LSD) | Measuring Point Elevation (MP) | Length Of Riser (L) | Date Of Monitoring | Total or Measured Depth to Water (blw.MP) | Total Depth to Water (blw.LSD) | Total Depth Of Well |
|---|---|---|---|---|---|---|---|
| | 5,621.92 | 5,623.62 | 1.70 | | | | 100 |
| 5,553.86 | | | | 09/12/05 | 69.76 | 68.06 | |
| 5,555.30 | | | | 12/07/05 | 68.32 | 66.62 | |
| 5,556.20 | | | | 03/08/06 | 67.42 | 65.72 | |
| 5,556.48 | | | | 06/14/06 | 67.14 | 65.44 | |
| 5,556.37 | | | | 07/18/06 | 67.25 | 65.55 | |
| 5,556.94 | | | | 11/07/06 | 66.68 | 64.98 | |
| 5557.92 | | | | 02/27/07 | 65.70 | 64 | |
| 5,557.84 | | | | 05/02/07 | 65.78 | 64.08 | |
| 5,558.02 | | | | 08/15/07 | 65.60 | 63.90 | |
| 5,557.13 | | | | 10/10/07 | 66.49 | 64.79 | |
| 5,569.74 | | | | 03/26/08 | 53.88 | 52.18 | |
| 5,561.01 | | | | 06/24/08 | 62.61 | 60.91 | |
| 5,562.07 | | | | 08/26/08 | 61.55 | 59.85 | |
| 5,562.47 | | | | 10/14/08 | 61.15 | 59.45 | |
| 5,563.80 | | | | 03/10/09 | 59.82 | 58.12 | |
| 5,564.27 | | | | 06/24/09 | 59.35 | 57.65 | |
| 5,564.32 | | | | 09/10/09 | 59.30 | 57.60 | |
| 5,564.70 | | | | 12/11/09 | 58.92 | 57.22 | |
| 5,565.14 | | | | 03/11/10 | 58.48 | 56.78 | |
| 5,565.61 | | | | 05/11/10 | 58.01 | 56.31 | |
| 5,565.67 | | | | 09/29/10 | 57.95 | 56.25 | |
| 5,565.62 | | | | 12/21/10 | 58.00 | 56.30 | |
| 5,565.42 | | | | 02/28/11 | 58.20 | 56.50 | |
| 5,566.01 | | | | 06/21/11 | 57.61 | 55.91 | |
| 5,566.03 | | | | 09/20/11 | 57.59 | 55.89 | |
| 5,566.63 | | | | 12/21/11 | 56.99 | 55.29 | |
| 5,565.81 | | | | 03/27/12 | 57.81 | 56.11 | |
| 5,565.82 | | | | 06/28/12 | 57.80 | 56.10 | |
| 5,566.66 | | | | 09/27/12 | 56.96 | 55.26 | |
| 5,565.77 | | | | 12/28/12 | 57.85 | 56.15 | |
| 5,566.89 | | | | 03/28/13 | 56.73 | 55.03 | |
| 5,566.32 | | | | 06/27/13 | 57.30 | 55.60 | |
| 5,565.92 | | | | 09/27/13 | 57.70 | 56.00 | |
| 5,565.63 | | | | 12/20/13 | 57.99 | 56.29 | |
| 5,565.03 | | | | 03/27/14 | 58.59 | 56.89 | |
| 5,564.18 | | | | 06/25/14 | 59.44 | 57.74 | |
| 5,563.52 | | | | 09/25/14 | 60.10 | 58.40 | |
| 5,563.37 | | | | 12/17/14 | 60.25 | 58.55 | |
| 5,532.62 | | | | 03/26/15 | 91.00 | 89.30 | |
| 5,527.07 | | | | 06/22/15 | 96.55 | 94.85 | |
| 5,533.27 | | | | 09/30/15 | 90.35 | 88.65 | |
| 5,532.67 | | | | 12/02/15 | 90.95 | 89.25 | |
| 5,531.44 | | | | 03/30/16 | 92.18 | 90.48 | |

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

| Water Elevation (WL) | Land Surface (LSD) | Measuring Point Elevation (MP) | Length Of Riser (L) | Date Of Monitoring | Total or Measured Depth to Water (blw.MP) | Total Depth to Water (blw.LSD) | Total Depth Of Well |
|---|---|---|---|---|---|---|---|
| | 5,621.92 | 5,623.62 | 1.70 | | | | 100 |
| 5,529.85 | | | | 06/30/16 | 93.77 | 92.07 | |
| 5,530.64 | | | | 09/29/16 | 92.98 | 91.28 | |

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



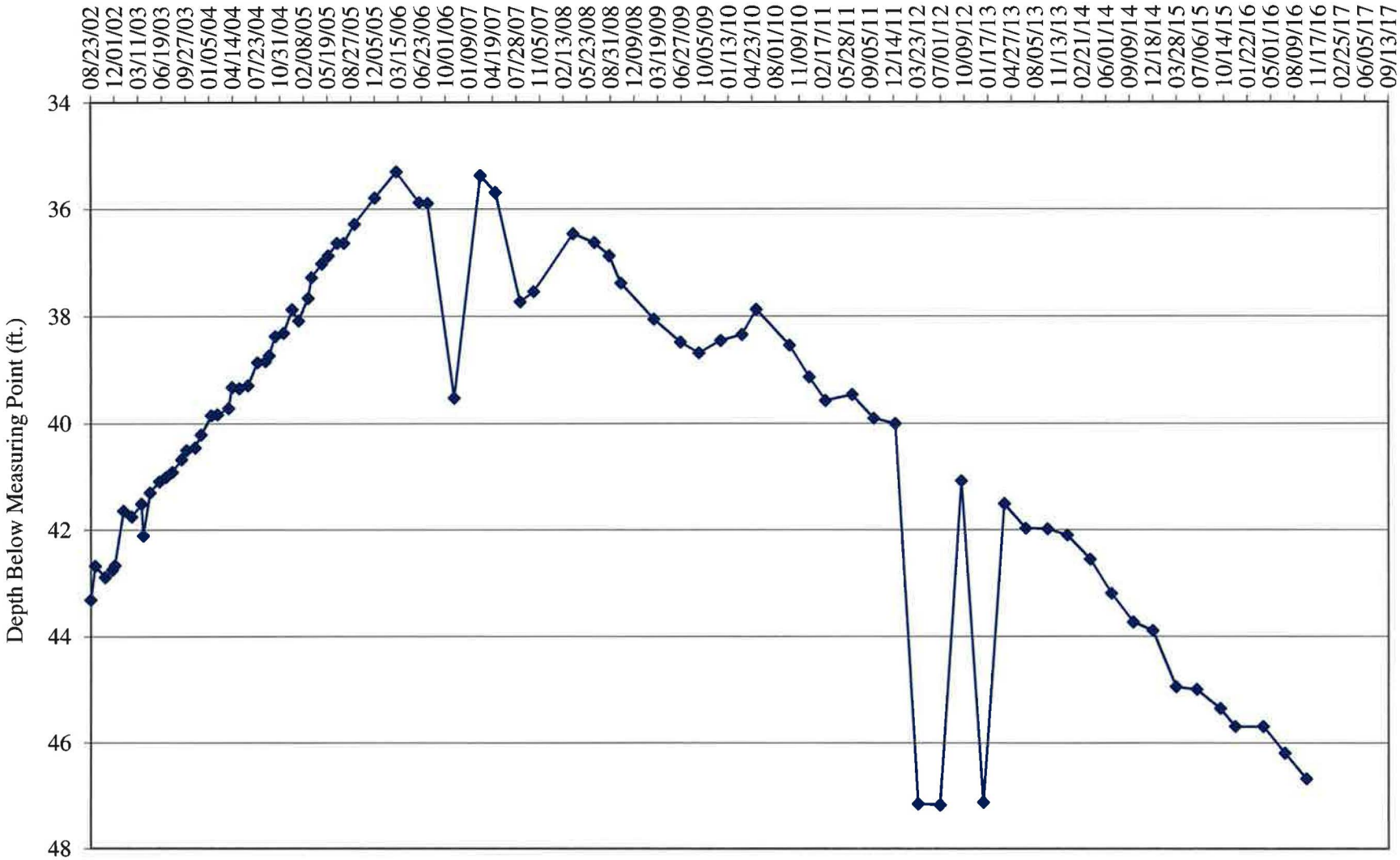
## Water Levels and Data over Time
## White Mesa Mill - Well TW4-12

| Water Elevation (WL) | Land Surface (LSD) | Measuring Point Elevation (MP) | Length Of Riser (L) | Date Of Monitoring | Total or Measured Depth to Water (blw.MP) | Total Depth to Water (blw.LSD) | Total Depth Of Well |
|---|---|---|---|---|---|---|---|
| | 5,622.38 | 5,624.23 | 1.85 | | | | 101.5 |
| 5,580.91 | | | | 08/23/02 | 43.32 | 41.47 | |
| 5,581.54 | | | | 09/11/02 | 42.69 | 40.84 | |
| 5,581.33 | | | | 10/23/02 | 42.90 | 41.05 | |
| 5,581.47 | | | | 11/22/02 | 42.76 | 40.91 | |
| 5,581.55 | | | | 12/03/02 | 42.68 | 40.83 | |
| 5,582.58 | | | | 01/09/03 | 41.65 | 39.80 | |
| 5,582.47 | | | | 02/12/03 | 41.76 | 39.91 | |
| 5,582.71 | | | | 03/26/03 | 41.52 | 39.67 | |
| 5,582.11 | | | | 04/02/03 | 42.12 | 40.27 | |
| 5,582.92 | | | | 05/01/03 | 41.31 | 39.46 | |
| 5,583.13 | | | | 06/09/03 | 41.10 | 39.25 | |
| 5,583.21 | | | | 07/07/03 | 41.02 | 39.17 | |
| 5,583.31 | | | | 08/04/03 | 40.92 | 39.07 | |
| 5,583.55 | | | | 09/11/03 | 40.68 | 38.83 | |
| 5,583.72 | | | | 10/02/03 | 40.51 | 38.66 | |
| 5,583.77 | | | | 11/07/03 | 40.46 | 38.61 | |
| 5,584.01 | | | | 12/03/03 | 40.22 | 38.37 | |
| 5,584.37 | | | | 01/15/04 | 39.86 | 38.01 | |
| 5,584.39 | | | | 02/10/04 | 39.84 | 37.99 | |
| 5,584.51 | | | | 03/28/04 | 39.72 | 37.87 | |
| 5,584.90 | | | | 04/12/04 | 39.33 | 37.48 | |
| 5,584.88 | | | | 05/13/04 | 39.35 | 37.50 | |
| 5,584.93 | | | | 06/18/04 | 39.30 | 37.45 | |
| 5,585.36 | | | | 07/28/04 | 38.87 | 37.02 | |
| 5,585.38 | | | | 08/30/04 | 38.85 | 37.00 | |
| 5,585.49 | | | | 09/16/04 | 38.74 | 36.89 | |
| 5,585.85 | | | | 10/11/04 | 38.38 | 36.53 | |
| 5,585.91 | | | | 11/16/04 | 38.32 | 36.47 | |
| 5,586.35 | | | | 12/22/04 | 37.88 | 36.03 | |
| 5,586.14 | | | | 01/18/05 | 38.09 | 36.24 | |
| 5,586.56 | | | | 02/28/05 | 37.67 | 35.82 | |
| 5,586.95 | | | | 03/15/05 | 37.28 | 35.43 | |
| 5,587.20 | | | | 04/26/05 | 37.03 | 35.18 | |
| 5,587.35 | | | | 05/24/05 | 36.88 | 35.03 | |
| 5,587.58 | | | | 06/30/05 | 36.65 | 34.80 | |
| 5,587.58 | | | | 07/29/05 | 36.65 | 34.80 | |
| 5,587.94 | | | | 09/12/05 | 36.29 | 34.44 | |
| 5,588.43 | | | | 12/07/05 | 35.80 | 33.95 | |
| 5,588.92 | | | | 03/08/06 | 35.31 | 33.46 | |
| 5,588.34 | | | | 06/13/06 | 35.89 | 34.04 | |
| 5,588.33 | | | | 07/18/06 | 35.90 | 34.05 | |
| 5,584.70 | | | | 11/07/06 | 39.53 | 37.68 | |
| 5588.85 | | | | 02/27/07 | 35.38 | 33.53 | |

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

| Water Elevation (WL) | Land Surface (LSD) | Measuring Point Elevation (MP) | Length Of Riser (L) | Date Of Monitoring | Total or Measured Depth to Water (blw.MP) | Total Depth to Water (blw.LSD) | Total Depth Of Well |
|---|---|---|---|---|---|---|---|
| | 5,622.38 | 5,624.23 | 1.85 | | | | 101.5 |
| 5,588.53 | | | | 05/02/07 | 35.70 | 33.85 | |
| 5,586.49 | | | | 08/14/07 | 37.74 | 35.89 | |
| 5,586.68 | | | | 10/10/07 | 37.55 | 35.70 | |
| 5,587.76 | | | | 03/26/08 | 36.47 | 34.62 | |
| 5,587.59 | | | | 06/24/08 | 36.64 | 34.79 | |
| 5,587.35 | | | | 08/26/08 | 36.88 | 35.03 | |
| 5,586.84 | | | | 10/14/08 | 37.39 | 35.54 | |
| 5,586.17 | | | | 03/03/09 | 38.06 | 36.21 | |
| 5,585.74 | | | | 06/24/09 | 38.49 | 36.64 | |
| 5,585.54 | | | | 09/10/09 | 38.69 | 36.84 | |
| 5,585.77 | | | | 12/11/09 | 38.46 | 36.61 | |
| 5,585.88 | | | | 03/11/10 | 38.35 | 36.50 | |
| 5,586.35 | | | | 05/11/10 | 37.88 | 36.03 | |
| 5,585.68 | | | | 09/29/10 | 38.55 | 36.70 | |
| 5,585.09 | | | | 12/21/10 | 39.14 | 37.29 | |
| 5,584.65 | | | | 02/28/11 | 39.58 | 37.73 | |
| 5,584.76 | | | | 06/21/11 | 39.47 | 37.62 | |
| 5,584.32 | | | | 09/20/11 | 39.91 | 38.06 | |
| 5,584.22 | | | | 12/21/11 | 40.01 | 38.16 | |
| 5,577.07 | | | | 03/27/12 | 47.16 | 45.31 | |
| 5,577.05 | | | | 06/28/12 | 47.18 | 45.33 | |
| 5,583.14 | | | | 09/27/12 | 41.09 | 39.24 | |
| 5,577.10 | | | | 12/28/12 | 47.13 | 45.28 | |
| 5,582.71 | | | | 03/28/13 | 41.52 | 39.67 | |
| 5,582.25 | | | | 06/27/13 | 41.98 | 40.13 | |
| 5,582.24 | | | | 09/27/13 | 41.99 | 40.14 | |
| 5,582.12 | | | | 12/20/13 | 42.11 | 40.26 | |
| 5,581.67 | | | | 03/27/14 | 42.56 | 40.71 | |
| 5,581.03 | | | | 06/25/14 | 43.20 | 41.35 | |
| 5,580.49 | | | | 09/25/14 | 43.74 | 41.89 | |
| 5,580.33 | | | | 12/17/14 | 43.90 | 42.05 | |
| 5,579.28 | | | | 03/26/15 | 44.95 | 43.10 | |
| 5,579.23 | | | | 06/22/15 | 45.00 | 43.15 | |
| 5,578.87 | | | | 09/30/15 | 45.36 | 43.51 | |
| 5,578.53 | | | | 12/02/15 | 45.70 | 43.85 | |
| 5,578.53 | | | | 03/30/16 | 45.70 | 43.85 | |
| 5,578.03 | | | | 06/30/16 | 46.20 | 44.35 | |
| 5,577.54 | | | | 09/29/16 | 46.69 | 44.84 | |

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



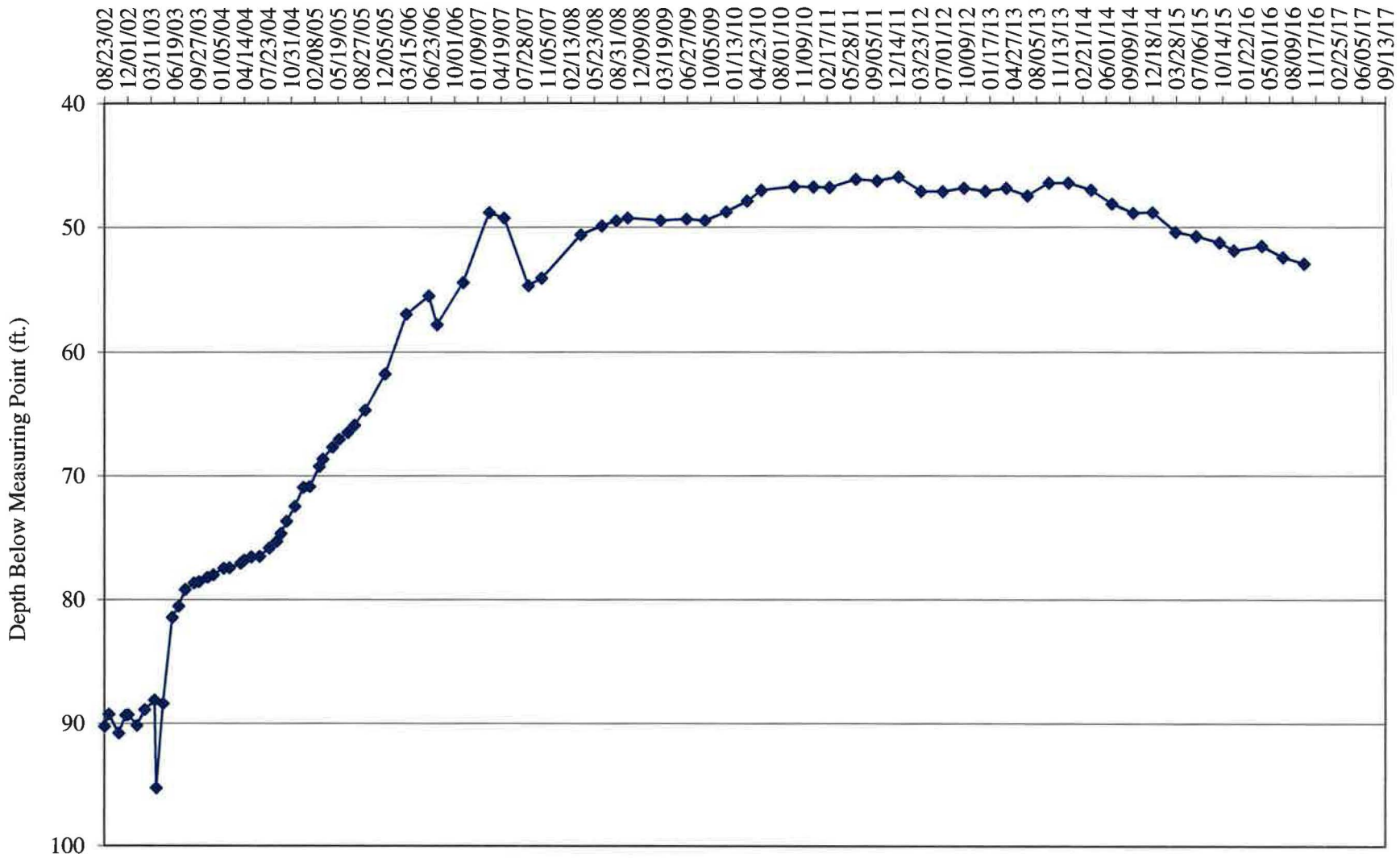
# Water Levels and Data over Time
# White Mesa Mill - Well TW4-13

| Water Elevation (WL) | Land Surface (LSD) | Measuring Point Elevation (MP) | Length Of Riser (L) | Date Of Monitoring | Total or Measured Depth to Water (blw.MP) | Total Depth to Water (blw.LSD) | Total Depth Of Well |
|---|---|---|---|---|---|---|---|
| | 5,618.09 | 5,619.94 | 1.85 | | | | 102.5 |
| 5,529.66 | | | | 08/23/02 | 90.28 | 88.43 | |
| 5,530.66 | | | | 09/11/02 | 89.28 | 87.43 | |
| 5,529.10 | | | | 10/23/02 | 90.84 | 88.99 | |
| 5,530.58 | | | | 11/22/02 | 89.36 | 87.51 | |
| 5,530.61 | | | | 12/03/02 | 89.33 | 87.48 | |
| 5,529.74 | | | | 01/09/03 | 90.20 | 88.35 | |
| 5,531.03 | | | | 02/12/03 | 88.91 | 87.06 | |
| 5,531.82 | | | | 03/26/03 | 88.12 | 86.27 | |
| 5,524.63 | | | | 04/02/03 | 95.31 | 93.46 | |
| 5,531.54 | | | | 05/01/03 | 88.40 | 86.55 | |
| 5,538.46 | | | | 06/09/03 | 81.48 | 79.63 | |
| 5,539.38 | | | | 07/07/03 | 80.56 | 78.71 | |
| 5,540.72 | | | | 08/04/03 | 79.22 | 77.37 | |
| 5,541.25 | | | | 09/11/03 | 78.69 | 76.84 | |
| 5,541.34 | | | | 10/02/03 | 78.60 | 76.75 | |
| 5,541.69 | | | | 11/07/03 | 78.25 | 76.40 | |
| 5,541.91 | | | | 12/03/03 | 78.03 | 76.18 | |
| 5,542.44 | | | | 01/15/04 | 77.50 | 75.65 | |
| 5,542.47 | | | | 02/10/04 | 77.47 | 75.62 | |
| 5,542.84 | | | | 03/28/04 | 77.10 | 75.25 | |
| 5,543.08 | | | | 04/12/04 | 76.86 | 75.01 | |
| 5,543.34 | | | | 05/13/04 | 76.60 | 74.75 | |
| 5,543.40 | | | | 06/18/04 | 76.54 | 74.69 | |
| 5,544.06 | | | | 07/28/04 | 75.88 | 74.03 | |
| 5,544.61 | | | | 08/30/04 | 75.33 | 73.48 | |
| 5,545.23 | | | | 09/16/04 | 74.71 | 72.86 | |
| 5,546.20 | | | | 10/11/04 | 73.74 | 71.89 | |
| 5,547.43 | | | | 11/16/04 | 72.51 | 70.66 | |
| 5,548.96 | | | | 12/22/04 | 70.98 | 69.13 | |
| 5,549.02 | | | | 01/18/05 | 70.92 | 69.07 | |
| 5,550.66 | | | | 02/28/05 | 69.28 | 67.43 | |
| 5,551.26 | | | | 03/15/05 | 68.68 | 66.83 | |
| 5,552.23 | | | | 04/26/05 | 67.71 | 65.86 | |
| 5,552.87 | | | | 05/24/05 | 67.07 | 65.22 | |
| 5,553.42 | | | | 06/30/05 | 66.52 | 64.67 | |
| 5,554.00 | | | | 07/29/05 | 65.94 | 64.09 | |
| 5,555.21 | | | | 09/12/05 | 64.73 | 62.88 | |
| 5,558.13 | | | | 12/07/05 | 61.81 | 59.96 | |
| 5,562.93 | | | | 03/08/06 | 57.01 | 55.16 | |
| 5,564.39 | | | | 06/13/06 | 55.55 | 53.70 | |
| 5,562.09 | | | | 07/18/06 | 57.85 | 56.00 | |
| 5,565.49 | | | | 11/07/06 | 54.45 | 52.60 | |
| 5571.08 | | | | 02/27/07 | 48.86 | 47.01 | |

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

| Water Elevation (WL) | Land Surface (LSD) | Measuring Point Elevation (MP) | Length Of Riser (L) | Date Of Monitoring | Total or Measured Depth to Water (blw.MP) | Total Depth to Water (blw.LSD) | Total Depth Of Well |
|---|---|---|---|---|---|---|---|
| | 5,618.09 | 5,619.94 | 1.85 | | | | 102.5 |
| 5,570.63 | | | | 05/02/07 | 49.31 | 47.46 | |
| 5,565.24 | | | | 08/14/07 | 54.70 | 52.85 | |
| 5,565.83 | | | | 10/10/07 | 54.11 | 52.26 | |
| 5,569.29 | | | | 03/26/08 | 50.65 | 48.80 | |
| 5,570.00 | | | | 06/24/08 | 49.94 | 48.09 | |
| 5,570.41 | | | | 08/26/08 | 49.53 | 47.68 | |
| 5,570.64 | | | | 10/14/08 | 49.30 | 47.45 | |
| 5,570.43 | | | | 03/03/09 | 49.51 | 47.66 | |
| 5,570.56 | | | | 06/24/09 | 49.38 | 47.53 | |
| 5,570.42 | | | | 09/10/09 | 49.52 | 47.67 | |
| 5,571.15 | | | | 12/11/09 | 48.79 | 46.94 | |
| 5,572.01 | | | | 03/11/10 | 47.93 | 46.08 | |
| 5,572.88 | | | | 05/11/10 | 47.06 | 45.21 | |
| 5,573.17 | | | | 09/29/10 | 46.77 | 44.92 | |
| 5,573.14 | | | | 12/21/10 | 46.80 | 44.95 | |
| 5,573.10 | | | | 02/28/11 | 46.84 | 44.99 | |
| 5,573.75 | | | | 06/21/11 | 46.19 | 44.34 | |
| 5,573.63 | | | | 09/20/11 | 46.31 | 44.46 | |
| 5,573.94 | | | | 12/21/11 | 46.00 | 44.15 | |
| 5,572.79 | | | | 03/27/12 | 47.15 | 45.30 | |
| 5,572.77 | | | | 06/28/12 | 47.17 | 45.32 | |
| 5,573.04 | | | | 09/27/12 | 46.90 | 45.05 | |
| 5,572.79 | | | | 12/28/12 | 47.15 | 45.30 | |
| 5,573.03 | | | | 03/28/13 | 46.91 | 45.06 | |
| 5,572.44 | | | | 06/27/13 | 47.50 | 45.65 | |
| 5,573.46 | | | | 09/27/13 | 46.48 | 44.63 | |
| 5,573.46 | | | | 12/20/13 | 46.48 | 44.63 | |
| 5,572.90 | | | | 03/27/14 | 47.04 | 45.19 | |
| 5,571.79 | | | | 06/25/14 | 48.15 | 46.30 | |
| 5,571.04 | | | | 09/25/14 | 48.90 | 47.05 | |
| 5,571.08 | | | | 12/17/14 | 48.86 | 47.01 | |
| 5,569.50 | | | | 03/26/15 | 50.44 | 48.59 | |
| 5,569.16 | | | | 06/22/15 | 50.78 | 48.93 | |
| 5,568.66 | | | | 09/30/15 | 51.28 | 49.43 | |
| 5,568.02 | | | | 12/02/15 | 51.92 | 50.07 | |
| 5,568.39 | | | | 03/30/16 | 51.55 | 49.70 | |
| 5,567.49 | | | | 06/30/16 | 52.45 | 50.60 | |
| 5,566.99 | | | | 09/29/16 | 52.95 | 51.10 | |

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



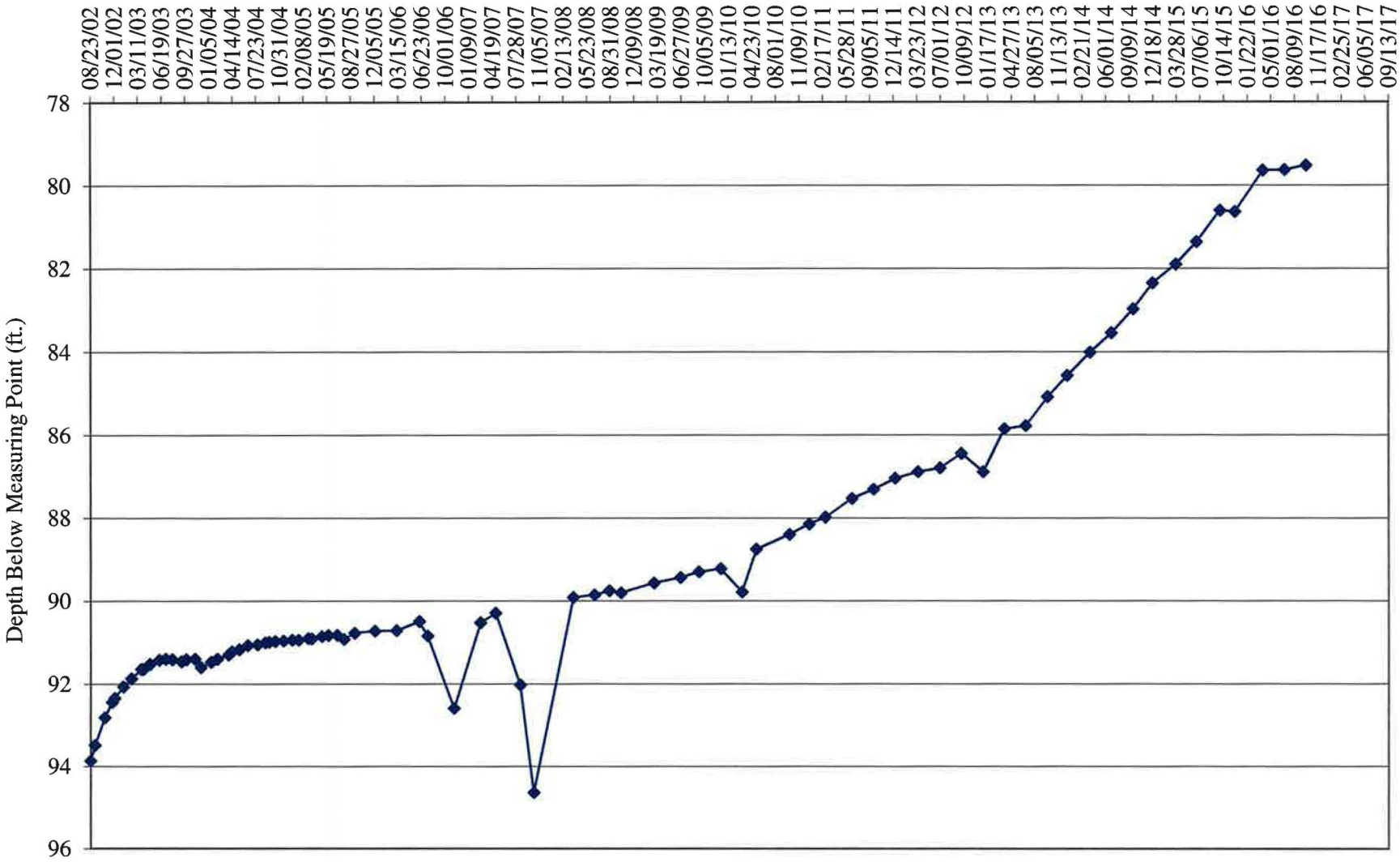
# Water Levels and Data over Time
# White Mesa Mill - Well TW4-14

| Water Elevation (WL) | Land Surface (LSD) | Measuring Point Elevation (MP) | Length Of Riser (L) | Date Of Monitoring | Total or Measured Depth to Water (blw.MP) | Total Depth to Water (blw.LSD) | Total Depth Of Well |
|---|---|---|---|---|---|---|---|
| | 5,610.92 | 5,612.77 | 1.85 | | | | 93 |
| 5,518.90 | | | | 08/23/02 | 93.87 | 92.02 | |
| 5,519.28 | | | | 09/11/02 | 93.49 | 91.64 | |
| 5,519.95 | | | | 10/23/02 | 92.82 | 90.97 | |
| 5,520.32 | | | | 11/22/02 | 92.45 | 90.60 | |
| 5,520.42 | | | | 12/03/02 | 92.35 | 90.50 | |
| 5,520.70 | | | | 01/09/03 | 92.07 | 90.22 | |
| 5,520.89 | | | | 02/12/03 | 91.88 | 90.03 | |
| 5,521.12 | | | | 03/26/03 | 91.65 | 89.80 | |
| 5,521.12 | | | | 04/02/03 | 91.65 | 89.80 | |
| 5,521.24 | | | | 05/01/03 | 91.53 | 89.68 | |
| 5,521.34 | | | | 06/09/03 | 91.43 | 89.58 | |
| 5,521.36 | | | | 07/07/03 | 91.41 | 89.56 | |
| 5,521.35 | | | | 08/04/03 | 91.42 | 89.57 | |
| 5,521.30 | | | | 09/11/03 | 91.47 | 89.62 | |
| 5,521.35 | | | | 10/02/03 | 91.42 | 89.57 | |
| 5,521.36 | | | | 11/07/03 | 91.41 | 89.56 | |
| 5,521.16 | | | | 12/03/03 | 91.61 | 89.76 | |
| 5,521.29 | | | | 01/15/04 | 91.48 | 89.63 | |
| 5,521.36 | | | | 02/10/04 | 91.41 | 89.56 | |
| 5,521.46 | | | | 03/28/04 | 91.31 | 89.46 | |
| 5,521.54 | | | | 04/12/04 | 91.23 | 89.38 | |
| 5,521.59 | | | | 05/13/04 | 91.18 | 89.33 | |
| 5,521.69 | | | | 06/18/04 | 91.08 | 89.23 | |
| 5,521.71 | | | | 07/28/04 | 91.06 | 89.21 | |
| 5,521.76 | | | | 08/30/04 | 91.01 | 89.16 | |
| 5,521.77 | | | | 09/16/04 | 91.00 | 89.15 | |
| 5,521.79 | | | | 10/11/04 | 90.98 | 89.13 | |
| 5,521.80 | | | | 11/16/04 | 90.97 | 89.12 | |
| 5,521.82 | | | | 12/22/04 | 90.95 | 89.10 | |
| 5,521.82 | | | | 01/18/05 | 90.95 | 89.10 | |
| 5,521.86 | | | | 02/28/05 | 90.91 | 89.06 | |
| 5,521.85 | | | | 03/15/05 | 90.92 | 89.07 | |
| 5,521.91 | | | | 04/26/05 | 90.86 | 89.01 | |
| 5,521.93 | | | | 05/24/05 | 90.84 | 88.99 | |
| 5,521.94 | | | | 06/30/05 | 90.83 | 88.98 | |
| 5,521.84 | | | | 07/29/05 | 90.93 | 89.08 | |
| 5,521.99 | | | | 09/12/05 | 90.78 | 88.93 | |
| 5,522.04 | | | | 12/07/05 | 90.73 | 88.88 | |
| 5,522.05 | | | | 03/08/06 | 90.72 | 88.87 | |
| 5,522.27 | | | | 06/13/06 | 90.50 | 88.65 | |
| 5,521.92 | | | | 07/18/06 | 90.85 | 89.00 | |
| 5,520.17 | | | | 11/07/06 | 92.60 | 90.75 | |
| 5522.24 | | | | 02/27/07 | 90.53 | 88.68 | |

## Water Levels and Data over Time
## White Mesa Mill - Well TW4-14

| Water Elevation (WL) | Land Surface (LSD) | Measuring Point Elevation (MP) | Length Of Riser (L) | Date Of Monitoring | Total or Measured Depth to Water (blw.MP) | Total Depth to Water (blw.LSD) | Total Depth Of Well |
|---|---|---|---|---|---|---|---|
| | 5,610.92 | 5,612.77 | 1.85 | | | | 93 |
| 5,522.47 | | | | 05/02/07 | 90.30 | 88.45 | |
| 5,520.74 | | | | 08/14/07 | 92.03 | 90.18 | |
| 5,518.13 | | | | 10/10/07 | 94.64 | 92.79 | |
| 5,522.85 | | | | 03/26/08 | 89.92 | 88.07 | |
| 5,522.91 | | | | 06/24/08 | 89.86 | 88.01 | |
| 5,523.01 | | | | 08/26/08 | 89.76 | 87.91 | |
| 5,522.96 | | | | 10/14/08 | 89.81 | 87.96 | |
| 5,523.20 | | | | 03/03/09 | 89.57 | 87.72 | |
| 5,523.33 | | | | 06/24/09 | 89.44 | 87.59 | |
| 5,523.47 | | | | 09/10/09 | 89.30 | 87.45 | |
| 5,523.54 | | | | 12/11/09 | 89.23 | 87.38 | |
| 5,522.98 | | | | 03/11/10 | 89.79 | 87.94 | |
| 5,524.01 | | | | 05/11/10 | 88.76 | 86.91 | |
| 5,524.37 | | | | 09/29/10 | 88.40 | 86.55 | |
| 5,524.62 | | | | 12/21/10 | 88.15 | 86.30 | |
| 5,524.78 | | | | 02/28/11 | 87.99 | 86.14 | |
| 5,525.23 | | | | 06/21/11 | 87.54 | 85.69 | |
| 5,525.45 | | | | 09/20/11 | 87.32 | 85.47 | |
| 5,525.72 | | | | 12/21/11 | 87.05 | 85.20 | |
| 5,525.88 | | | | 03/27/12 | 86.89 | 85.04 | |
| 5,525.97 | | | | 06/28/12 | 86.80 | 84.95 | |
| 5,526.32 | | | | 09/27/12 | 86.45 | 84.60 | |
| 5,525.88 | | | | 12/28/12 | 86.89 | 85.04 | |
| 5,526.91 | | | | 03/28/13 | 85.86 | 84.01 | |
| 5,526.99 | | | | 06/27/13 | 85.78 | 83.93 | |
| 5,527.68 | | | | 09/27/13 | 85.09 | 83.24 | |
| 5,528.19 | | | | 12/20/13 | 84.58 | 82.73 | |
| 5,528.75 | | | | 03/27/14 | 84.02 | 82.17 | |
| 5,529.21 | | | | 06/25/14 | 83.56 | 81.71 | |
| 5,529.78 | | | | 09/25/14 | 82.99 | 81.14 | |
| 5,530.41 | | | | 12/17/14 | 82.36 | 80.51 | |
| 5,530.86 | | | | 03/26/15 | 81.91 | 80.06 | |
| 5,531.40 | | | | 06/22/15 | 81.37 | 79.52 | |
| 5,532.15 | | | | 09/30/15 | 80.62 | 78.77 | |
| 5,532.12 | | | | 12/02/15 | 80.65 | 78.80 | |
| 5,533.12 | | | | 03/30/16 | 79.65 | 77.80 | |
| 5,533.13 | | | | 06/30/16 | 79.64 | 77.79 | |
| 5,533.24 | | | | 09/29/16 | 79.53 | 77.68 | |

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



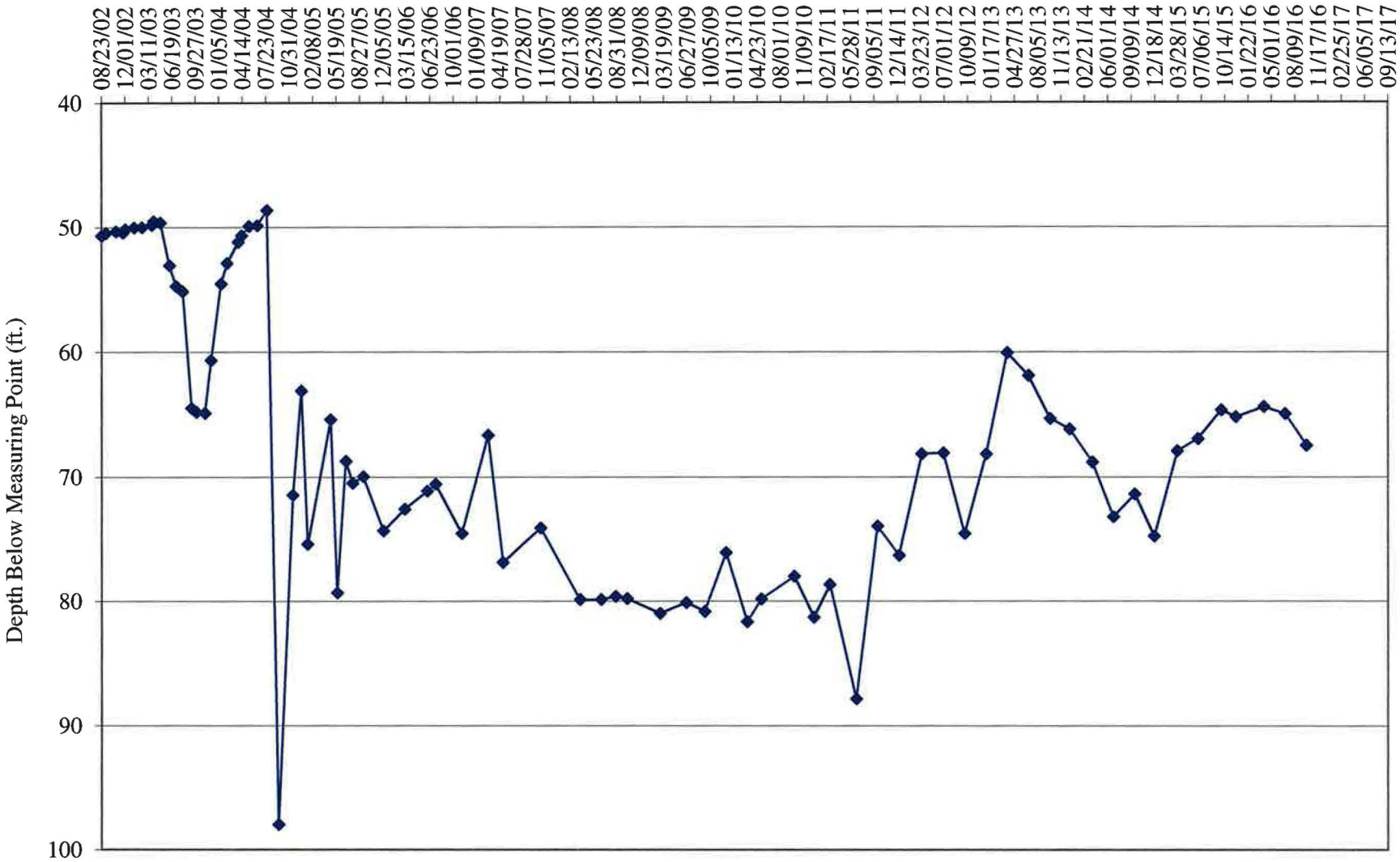
# Water Levels and Data over Time
# White Mesa Mill - Well MW-26

| Water Elevation (WL) | Land Surface (LSD) | Measuring Point Elevation (MP) | Length Of Riser (L) | Date Of Monitoring | Total or Measured Depth to Water (blw.MP) | Total Depth to Water (blw.LSD) | Total Depth Of Well |
|---|---|---|---|---|---|---|---|
| | 5,624.15 | 5,625.45 | 1.30 | | | | 121.33 |
| 5,574.75 | | | | 08/23/02 | 50.70 | 49.40 | |
| 5,574.97 | | | | 09/11/02 | 50.48 | 49.18 | |
| 5,575.10 | | | | 10/23/02 | 50.35 | 49.05 | |
| 5,574.99 | | | | 11/22/02 | 50.46 | 49.16 | |
| 5,575.28 | | | | 12/03/02 | 50.17 | 48.87 | |
| 5,575.41 | | | | 01/09/03 | 50.04 | 48.74 | |
| 5,575.43 | | | | 02/12/03 | 50.02 | 48.72 | |
| 5,575.63 | | | | 03/26/03 | 49.82 | 48.52 | |
| 5,575.91 | | | | 04/02/03 | 49.54 | 48.24 | |
| 5,575.81 | | | | 05/01/03 | 49.64 | 48.34 | |
| 5,572.36 | | | | 06/09/03 | 53.09 | 51.79 | |
| 5,570.70 | | | | 07/07/03 | 54.75 | 53.45 | |
| 5,570.29 | | | | 08/04/03 | 55.16 | 53.86 | |
| 5,560.94 | | | | 09/11/03 | 64.51 | 63.21 | |
| 5,560.63 | | | | 10/02/03 | 64.82 | 63.52 | |
| 5,560.56 | | | | 11/07/03 | 64.89 | 63.59 | |
| 5,564.77 | | | | 12/03/03 | 60.68 | 59.38 | |
| 5,570.89 | | | | 01/15/04 | 54.56 | 53.26 | |
| 5,572.55 | | | | 02/10/04 | 52.90 | 51.60 | |
| 5,574.25 | | | | 03/28/04 | 51.20 | 49.90 | |
| 5,574.77 | | | | 04/12/04 | 50.68 | 49.38 | |
| 5,575.53 | | | | 05/13/04 | 49.92 | 48.62 | |
| 5,575.59 | | | | 06/18/04 | 49.86 | 48.56 | |
| 5,576.82 | | | | 07/28/04 | 48.63 | 47.33 | |
| 5,527.47 | | | | 09/16/04 | 97.98 | 96.68 | |
| 5,553.97 | | | | 11/16/04 | 71.48 | 70.18 | |
| 5,562.33 | | | | 12/22/04 | 63.12 | 61.82 | |
| 5,550.00 | | | | 01/18/05 | 75.45 | 74.15 | |
| 5,560.02 | | | | 04/26/05 | 65.43 | 64.13 | |
| 5,546.11 | | | | 05/24/05 | 79.34 | 78.04 | |
| 5,556.71 | | | | 06/30/05 | 68.74 | 67.44 | |
| 5,554.95 | | | | 07/29/05 | 70.50 | 69.20 | |
| 5,555.48 | | | | 09/12/05 | 69.97 | 68.67 | |
| 5,551.09 | | | | 12/07/05 | 74.36 | 73.06 | |
| 5,552.85 | | | | 03/08/06 | 72.60 | 71.30 | |
| 5,554.30 | | | | 06/13/06 | 71.15 | 69.85 | |
| 5,554.87 | | | | 07/18/06 | 70.58 | 69.28 | |
| 5,550.88 | | | | 11/07/06 | 74.57 | 73.27 | |
| 5558.77 | | | | 02/27/07 | 66.68 | 65.38 | |
| 5,548.54 | | | | 05/02/07 | 76.91 | 75.61 | |
| 5,551.33 | | | | 10/10/07 | 74.12 | 72.82 | |
| 5,545.56 | | | | 03/26/08 | 79.89 | 78.59 | |
| 5,545.56 | | | | 06/25/08 | 79.89 | 78.59 | |

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

| Water Elevation (WL) | Land Surface (LSD) | Measuring Point Elevation (MP) | Length Of Riser (L) | Date Of Monitoring | Total or Measured Depth to Water (blw.MP) | Total Depth to Water (blw.LSD) | Total Depth Of Well |
|---|---|---|---|---|---|---|---|
| | 5,624.15 | 5,625.45 | 1.30 | | | | 121.33 |
| 5,545.82 | | | | 08/26/08 | 79.63 | 78.33 | |
| 5,545.64 | | | | 10/14/08 | 79.81 | 78.51 | |
| 5,544.45 | | | | 03/03/09 | 81.00 | 79.70 | |
| 5,545.32 | | | | 06/24/09 | 80.13 | 78.83 | |
| 5,544.61 | | | | 09/10/09 | 80.84 | 79.54 | |
| 5,549.33 | | | | 12/11/09 | 76.12 | 74.82 | |
| 5,543.78 | | | | 03/11/10 | 81.67 | 80.37 | |
| 5,545.61 | | | | 05/11/10 | 79.84 | 78.54 | |
| 5,547.43 | | | | 09/29/10 | 78.02 | 76.72 | |
| 5,544.14 | | | | 12/21/10 | 81.31 | 80.01 | |
| 5,546.77 | | | | 02/28/11 | 78.68 | 77.38 | |
| 5,537.60 | | | | 06/21/11 | 87.85 | 86.55 | |
| 5,551.46 | | | | 09/20/11 | 73.99 | 72.69 | |
| 5,549.12 | | | | 12/21/11 | 76.33 | 75.03 | |
| 5,557.30 | | | | 03/27/12 | 68.15 | 66.85 | |
| 5,557.38 | | | | 06/28/12 | 68.07 | 66.77 | |
| 5,550.86 | | | | 09/27/12 | 74.59 | 73.29 | |
| 5,557.30 | | | | 12/28/12 | 68.15 | 66.85 | |
| 5,565.37 | | | | 03/28/13 | 60.08 | 58.78 | |
| 5,563.55 | | | | 06/27/13 | 61.90 | 60.60 | |
| 5,560.12 | | | | 09/27/13 | 65.33 | 64.03 | |
| 5,559.27 | | | | 12/20/13 | 66.18 | 64.88 | |
| 5,556.65 | | | | 03/27/14 | 68.80 | 67.50 | |
| 5,552.23 | | | | 06/25/14 | 73.22 | 71.92 | |
| 5,554.05 | | | | 09/25/14 | 71.40 | 70.10 | |
| 5,550.65 | | | | 12/17/14 | 74.80 | 73.50 | |
| 5,557.55 | | | | 03/26/15 | 67.90 | 66.60 | |
| 5,558.51 | | | | 06/22/15 | 66.94 | 65.64 | |
| 5,560.81 | | | | 09/30/15 | 64.64 | 63.34 | |
| 5,560.25 | | | | 12/02/15 | 65.20 | 63.90 | |
| 5,561.07 | | | | 03/30/16 | 64.38 | 63.08 | |
| 5,560.51 | | | | 06/30/16 | 64.94 | 63.64 | |
| 5,557.99 | | | | 09/29/16 | 67.46 | 66.16 | |

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



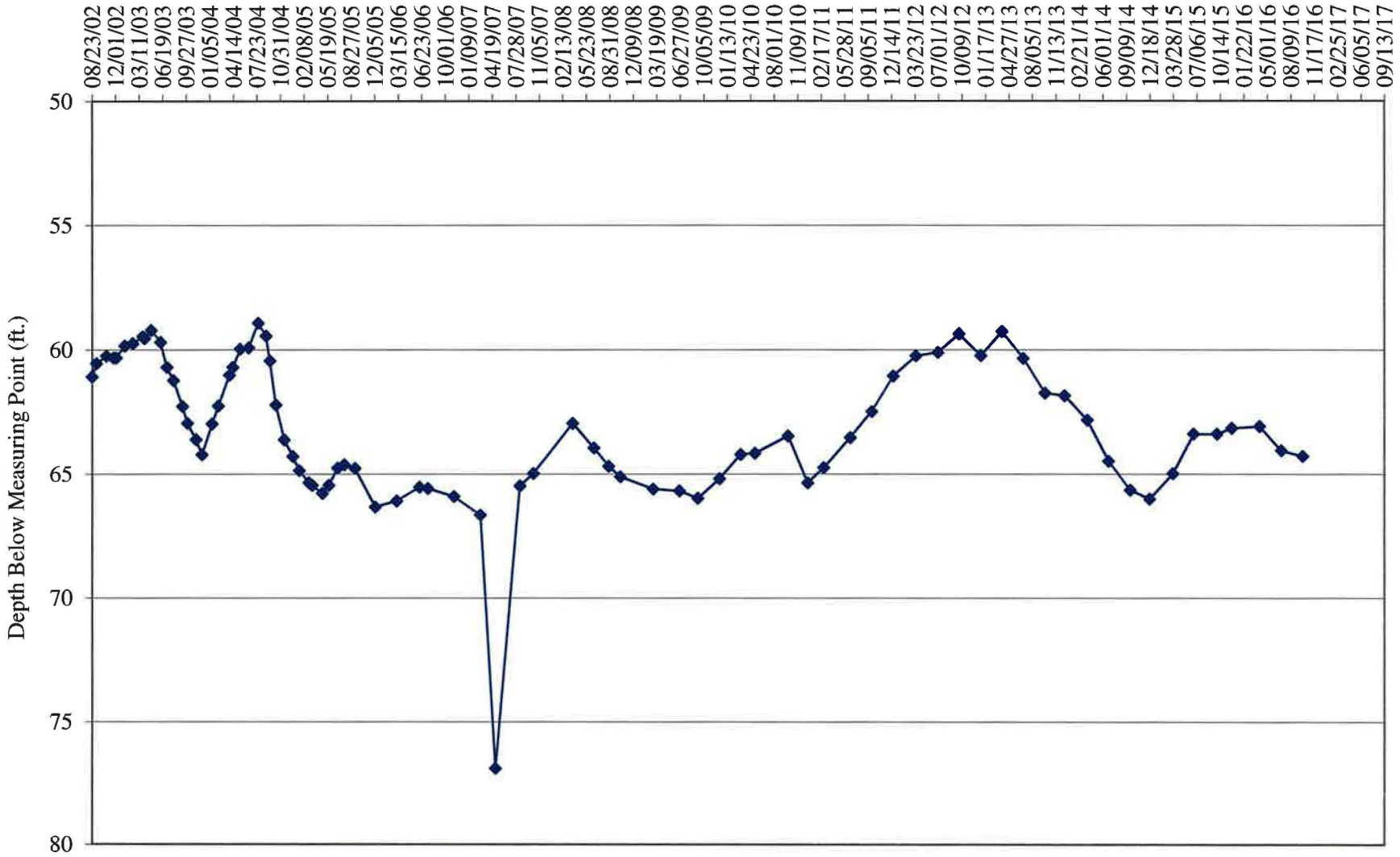
## Water Levels and Data over Time
## White Mesa Mill - Well TW4-16

| Water Elevation (WL) | Land Surface (LSD) | Measuring Point Elevation (MP) | Length Of Riser (L) | Date Of Monitoring | Total or Measured Depth to Water (blw.MP) | Total Depth to Water (blw.LSD) | Total Depth Of Well |
|---|---|---|---|---|---|---|---|
| | 5,622.19 | 5,624.02 | 1.83 | | | | 142 |
| 5,562.91 | | | | 08/23/02 | 61.11 | 59.28 | |
| 5,563.45 | | | | 09/11/02 | 60.57 | 58.74 | |
| 5,563.75 | | | | 10/23/02 | 60.27 | 58.44 | |
| 5,563.68 | | | | 11/22/02 | 60.34 | 58.51 | |
| 5,563.68 | | | | 12/03/02 | 60.34 | 58.51 | |
| 5,564.16 | | | | 01/09/03 | 59.86 | 58.03 | |
| 5,564.25 | | | | 02/12/03 | 59.77 | 57.94 | |
| 5,564.53 | | | | 03/26/03 | 59.49 | 57.66 | |
| 5,564.46 | | | | 04/02/03 | 59.56 | 57.73 | |
| 5,564.79 | | | | 05/01/03 | 59.23 | 57.40 | |
| 5,564.31 | | | | 06/09/03 | 59.71 | 57.88 | |
| 5,563.29 | | | | 07/07/03 | 60.73 | 58.90 | |
| 5,562.76 | | | | 08/04/03 | 61.26 | 59.43 | |
| 5,561.73 | | | | 09/11/03 | 62.29 | 60.46 | |
| 5,561.04 | | | | 10/02/03 | 62.98 | 61.15 | |
| 5,560.39 | | | | 11/07/03 | 63.63 | 61.80 | |
| 5,559.79 | | | | 12/03/03 | 64.23 | 62.40 | |
| 5,561.02 | | | | 01/15/04 | 63.00 | 61.17 | |
| 5,561.75 | | | | 02/10/04 | 62.27 | 60.44 | |
| 5,562.98 | | | | 03/28/04 | 61.04 | 59.21 | |
| 5,563.29 | | | | 04/12/04 | 60.73 | 58.90 | |
| 5,564.03 | | | | 05/13/04 | 59.99 | 58.16 | |
| 5,564.09 | | | | 06/18/04 | 59.93 | 58.10 | |
| 5,565.08 | | | | 07/28/04 | 58.94 | 57.11 | |
| 5,564.56 | | | | 08/30/04 | 59.46 | 57.63 | |
| 5,563.55 | | | | 09/16/04 | 60.47 | 58.64 | |
| 5,561.79 | | | | 10/11/04 | 62.23 | 60.40 | |
| 5,560.38 | | | | 11/16/04 | 63.64 | 61.81 | |
| 5,559.71 | | | | 12/22/04 | 64.31 | 62.48 | |
| 5,559.14 | | | | 01/18/05 | 64.88 | 63.05 | |
| 5,558.65 | | | | 02/28/05 | 65.37 | 63.54 | |
| 5,558.54 | | | | 03/15/05 | 65.48 | 63.65 | |
| 5,558.22 | | | | 04/26/05 | 65.80 | 63.97 | |
| 5,558.54 | | | | 05/24/05 | 65.48 | 63.65 | |
| 5,559.24 | | | | 06/30/05 | 64.78 | 62.95 | |
| 5,559.38 | | | | 07/29/05 | 64.64 | 62.81 | |
| 5,559.23 | | | | 09/12/05 | 64.79 | 62.96 | |
| 5,557.67 | | | | 12/07/05 | 66.35 | 64.52 | |
| 5,557.92 | | | | 03/08/06 | 66.10 | 64.27 | |
| 5,558.47 | | | | 06/13/06 | 65.55 | 63.72 | |
| 5,558.42 | | | | 07/18/06 | 65.60 | 63.77 | |
| 5,558.09 | | | | 11/07/06 | 65.93 | 64.10 | |
| 5557.34 | | | | 02/27/07 | 66.68 | 64.85 | |

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

| Water Elevation (WL) | Land Surface (LSD) | Measuring Point Elevation (MP) | Length Of Riser (L) | Date Of Monitoring | Total or Measured Depth to Water (blw.MP) | Total Depth to Water (blw.LSD) | Total Depth Of Well |
|---|---|---|---|---|---|---|---|
| | 5,622.19 | 5,624.02 | 1.83 | | | | 142 |
| 5,547.11 | | | | 05/02/07 | 76.91 | 75.08 | |
| 5,558.52 | | | | 08/14/07 | 65.50 | 63.67 | |
| 5,559.02 | | | | 10/10/07 | 65.00 | 63.17 | |
| 5,561.04 | | | | 03/26/08 | 62.98 | 61.15 | |
| 5,560.06 | | | | 06/24/08 | 63.96 | 62.13 | |
| 5,559.32 | | | | 08/26/08 | 64.70 | 62.87 | |
| 5,558.89 | | | | 10/14/08 | 65.13 | 63.30 | |
| 5,558.40 | | | | 03/03/09 | 65.62 | 63.79 | |
| 5,558.32 | | | | 06/24/09 | 65.70 | 63.87 | |
| 5,558.03 | | | | 09/10/09 | 65.99 | 64.16 | |
| 5,558.81 | | | | 12/11/09 | 65.21 | 63.38 | |
| 5,559.80 | | | | 03/11/10 | 64.22 | 62.39 | |
| 5,559.85 | | | | 05/11/10 | 64.17 | 62.34 | |
| 5,560.54 | | | | 09/29/10 | 63.48 | 61.65 | |
| 5,558.65 | | | | 12/21/10 | 65.37 | 63.54 | |
| 5,559.26 | | | | 02/28/11 | 64.76 | 62.93 | |
| 5,560.48 | | | | 06/21/11 | 63.54 | 61.71 | |
| 5,561.52 | | | | 09/20/11 | 62.50 | 60.67 | |
| 5,562.95 | | | | 12/21/11 | 61.07 | 59.24 | |
| 5,563.76 | | | | 03/27/12 | 60.26 | 58.43 | |
| 5,563.90 | | | | 06/28/12 | 60.12 | 58.29 | |
| 5,564.65 | | | | 09/27/12 | 59.37 | 57.54 | |
| 5,563.77 | | | | 12/28/12 | 60.25 | 58.42 | |
| 5,564.74 | | | | 03/28/13 | 59.28 | 57.45 | |
| 5,563.66 | | | | 06/27/13 | 60.36 | 58.53 | |
| 5,562.27 | | | | 09/27/13 | 61.75 | 59.92 | |
| 5,562.17 | | | | 12/20/13 | 61.85 | 60.02 | |
| 5,561.17 | | | | 03/27/14 | 62.85 | 61.02 | |
| 5,559.53 | | | | 06/25/14 | 64.49 | 62.66 | |
| 5,558.36 | | | | 09/25/14 | 65.66 | 63.83 | |
| 5,558.00 | | | | 12/17/14 | 66.02 | 64.19 | |
| 5,559.02 | | | | 03/26/15 | 65.00 | 63.17 | |
| 5,560.62 | | | | 06/22/15 | 63.40 | 61.57 | |
| 5,560.62 | | | | 09/30/15 | 63.40 | 61.57 | |
| 5,560.85 | | | | 12/02/15 | 63.17 | 61.34 | |
| 5,560.92 | | | | 03/30/16 | 63.10 | 61.27 | |
| 5,559.95 | | | | 06/30/16 | 64.07 | 62.24 | |
| 5,559.72 | | | | 09/29/16 | 64.30 | 62.47 | |

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



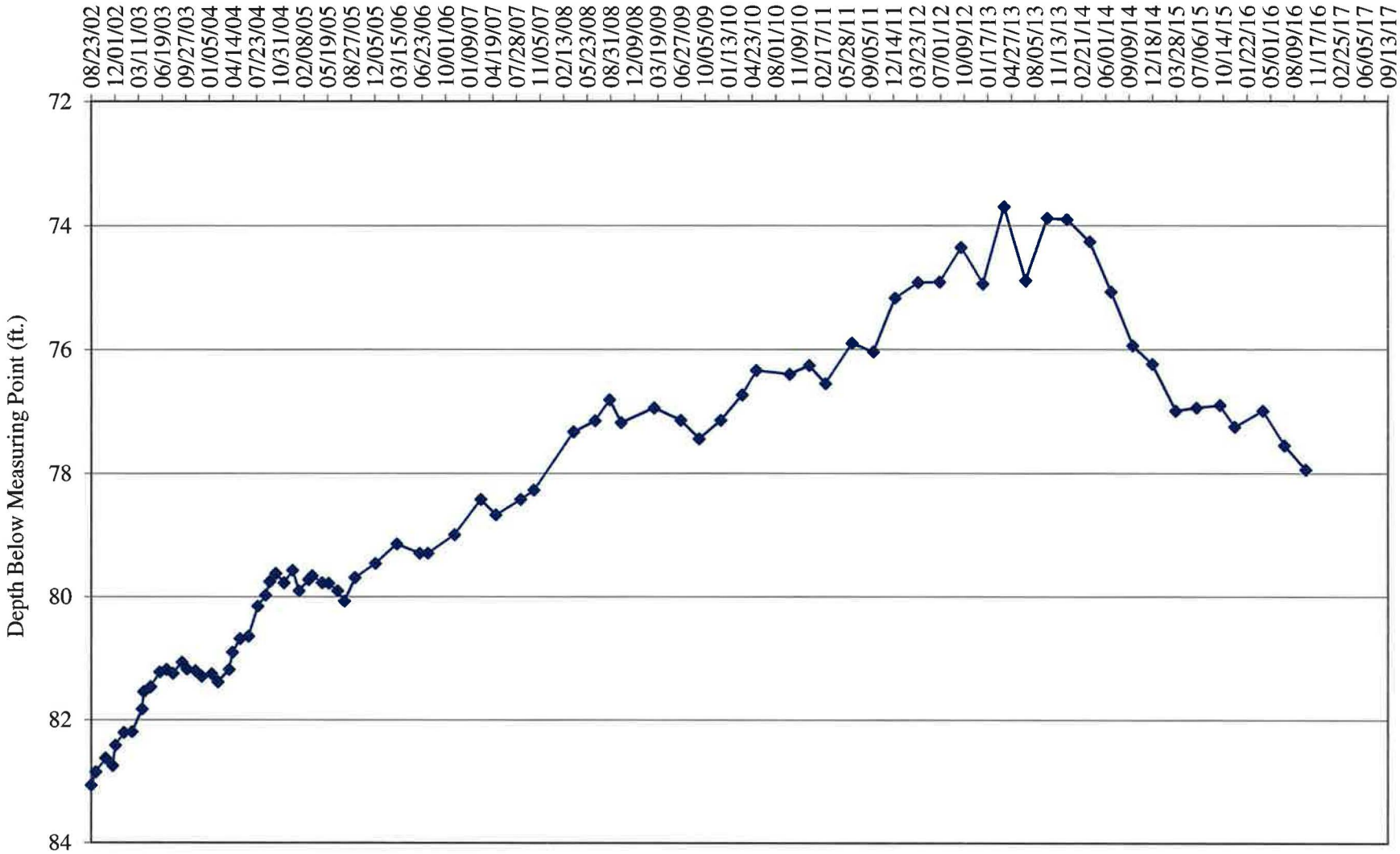
## Water Levels and Data over Time
## White Mesa Mill - Well MW-32

| Water Elevation (WL) | Land Surface (LSD) | Measuring Point Elevation (MP) | Length Of Riser (L) | Date Of Monitoring | Total or Measured Depth to Water (blw.MP) | Total Depth to Water (blw.LSD) | Total Depth Of Well |
|---|---|---|---|---|---|---|---|
| | 5,623.41 | 5,625.24 | 1.83 | | | | 130.6 |
| 5,542.17 | | | | 08/23/02 | 83.07 | 81.24 | |
| 5,542.39 | | | | 09/11/02 | 82.85 | 81.02 | |
| 5,542.61 | | | | 10/23/02 | 82.63 | 80.80 | |
| 5,542.49 | | | | 11/22/02 | 82.75 | 80.92 | |
| 5,542.82 | | | | 12/03/02 | 82.42 | 80.59 | |
| 5,543.03 | | | | 01/09/03 | 82.21 | 80.38 | |
| 5,543.04 | | | | 02/12/03 | 82.20 | 80.37 | |
| 5,543.41 | | | | 03/26/03 | 81.83 | 80.00 | |
| 5,543.69 | | | | 04/02/03 | 81.55 | 79.72 | |
| 5,543.77 | | | | 05/01/03 | 81.47 | 79.64 | |
| 5,544.01 | | | | 06/09/03 | 81.23 | 79.40 | |
| 5,544.05 | | | | 07/07/03 | 81.19 | 79.36 | |
| 5,543.99 | | | | 08/04/03 | 81.25 | 79.42 | |
| 5,544.17 | | | | 09/11/03 | 81.07 | 79.24 | |
| 5,544.06 | | | | 10/02/03 | 81.18 | 79.35 | |
| 5,544.03 | | | | 11/07/03 | 81.21 | 79.38 | |
| 5,543.94 | | | | 12/03/03 | 81.30 | 79.47 | |
| 5,543.98 | | | | 01/15/04 | 81.26 | 79.43 | |
| 5,543.85 | | | | 02/10/04 | 81.39 | 79.56 | |
| 5,544.05 | | | | 03/28/04 | 81.19 | 79.36 | |
| 5,544.33 | | | | 04/12/04 | 80.91 | 79.08 | |
| 5,544.55 | | | | 05/13/04 | 80.69 | 78.86 | |
| 5,544.59 | | | | 06/18/04 | 80.65 | 78.82 | |
| 5,545.08 | | | | 07/28/04 | 80.16 | 78.33 | |
| 5,545.26 | | | | 08/30/04 | 79.98 | 78.15 | |
| 5,545.48 | | | | 09/16/04 | 79.76 | 77.93 | |
| 5,545.61 | | | | 10/11/04 | 79.63 | 77.80 | |
| 5,545.46 | | | | 11/16/04 | 79.78 | 77.95 | |
| 5,545.66 | | | | 12/22/04 | 79.58 | 77.75 | |
| 5,545.33 | | | | 01/18/05 | 79.91 | 78.08 | |
| 5,545.51 | | | | 02/28/05 | 79.73 | 77.90 | |
| 5,545.57 | | | | 03/15/05 | 79.67 | 77.84 | |
| 5,545.46 | | | | 04/26/05 | 79.78 | 77.95 | |
| 5,545.45 | | | | 05/24/05 | 79.79 | 77.96 | |
| 5,545.33 | | | | 06/30/05 | 79.91 | 78.08 | |
| 5,545.16 | | | | 07/29/05 | 80.08 | 78.25 | |
| 5,545.54 | | | | 09/12/05 | 79.70 | 77.87 | |
| 5,545.77 | | | | 12/07/05 | 79.47 | 77.64 | |
| 5,546.09 | | | | 03/08/06 | 79.15 | 77.32 | |
| 5,545.94 | | | | 06/13/06 | 79.30 | 77.47 | |
| 5,545.94 | | | | 07/18/06 | 79.30 | 77.47 | |
| 5,546.24 | | | | 11/07/06 | 79.00 | 77.17 | |
| 5546.81 | | | | 02/27/07 | 78.43 | 76.6 | |

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

| Water Elevation (WL) | Land Surface (LSD) | Measuring Point Elevation (MP) | Length Of Riser (L) | Date Of Monitoring | Total or Measured Depth to Water (blw.MP) | Total Depth to Water (blw.LSD) | Total Depth Of Well |
|---|---|---|---|---|---|---|---|
| | 5,623.41 | 5,625.24 | 1.83 | | | | 130.6 |
| 5546.56 | | | | 05/02/07 | 78.68 | 76.85 | |
| 5546.81 | | | | 08/15/07 | 78.43 | 76.6 | |
| 5546.96 | | | | 10/10/07 | 78.28 | 76.45 | |
| 5547.9 | | | | 03/26/08 | 77.34 | 75.51 | |
| 5548.08 | | | | 06/25/08 | 77.16 | 75.33 | |
| 5548.42 | | | | 08/26/08 | 76.82 | 74.99 | |
| 5548.05 | | | | 10/14/08 | 77.19 | 75.36 | |
| 5548.29 | | | | 03/03/09 | 76.95 | 75.12 | |
| 5548.09 | | | | 06/24/09 | 77.15 | 75.32 | |
| 5547.79 | | | | 09/10/09 | 77.45 | 75.62 | |
| 5548.09 | | | | 12/11/09 | 77.15 | 75.32 | |
| 5,548.50 | | | | 03/11/10 | 76.74 | 74.91 | |
| 5,548.89 | | | | 05/11/10 | 76.35 | 74.52 | |
| 5,548.83 | | | | 09/29/10 | 76.41 | 74.58 | |
| 5,548.97 | | | | 12/21/10 | 76.27 | 74.44 | |
| 5,548.68 | | | | 02/28/11 | 76.56 | 74.73 | |
| 5,549.33 | | | | 06/21/11 | 75.91 | 74.08 | |
| 5,549.19 | | | | 09/20/11 | 76.05 | 74.22 | |
| 5,550.06 | | | | 12/21/11 | 75.18 | 73.35 | |
| 5,550.31 | | | | 03/27/12 | 74.93 | 73.10 | |
| 5,550.32 | | | | 06/28/12 | 74.92 | 73.09 | |
| 5,550.88 | | | | 09/27/12 | 74.36 | 72.53 | |
| 5,550.29 | | | | 12/28/12 | 74.95 | 73.12 | |
| 5,551.54 | | | | 03/28/13 | 73.70 | 71.87 | |
| 5,550.34 | | | | 06/27/13 | 74.90 | 73.07 | |
| 5,551.35 | | | | 09/27/13 | 73.89 | 72.06 | |
| 5,551.33 | | | | 12/20/13 | 73.91 | 72.08 | |
| 5,550.97 | | | | 03/27/14 | 74.27 | 72.44 | |
| 5,550.16 | | | | 06/25/14 | 75.08 | 73.25 | |
| 5,549.29 | | | | 09/25/14 | 75.95 | 74.12 | |
| 5,548.99 | | | | 12/17/14 | 76.25 | 74.42 | |
| 5,548.24 | | | | 03/26/15 | 77.00 | 75.17 | |
| 5,548.29 | | | | 06/22/15 | 76.95 | 75.12 | |
| 5,548.33 | | | | 09/30/15 | 76.91 | 75.08 | |
| 5,547.98 | | | | 12/02/15 | 77.26 | 75.43 | |
| 5,548.24 | | | | 03/30/16 | 77.00 | 75.17 | |
| 5,547.68 | | | | 06/30/16 | 77.56 | 75.73 | |
| 5,547.29 | | | | 09/29/16 | 77.95 | 76.12 | |

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



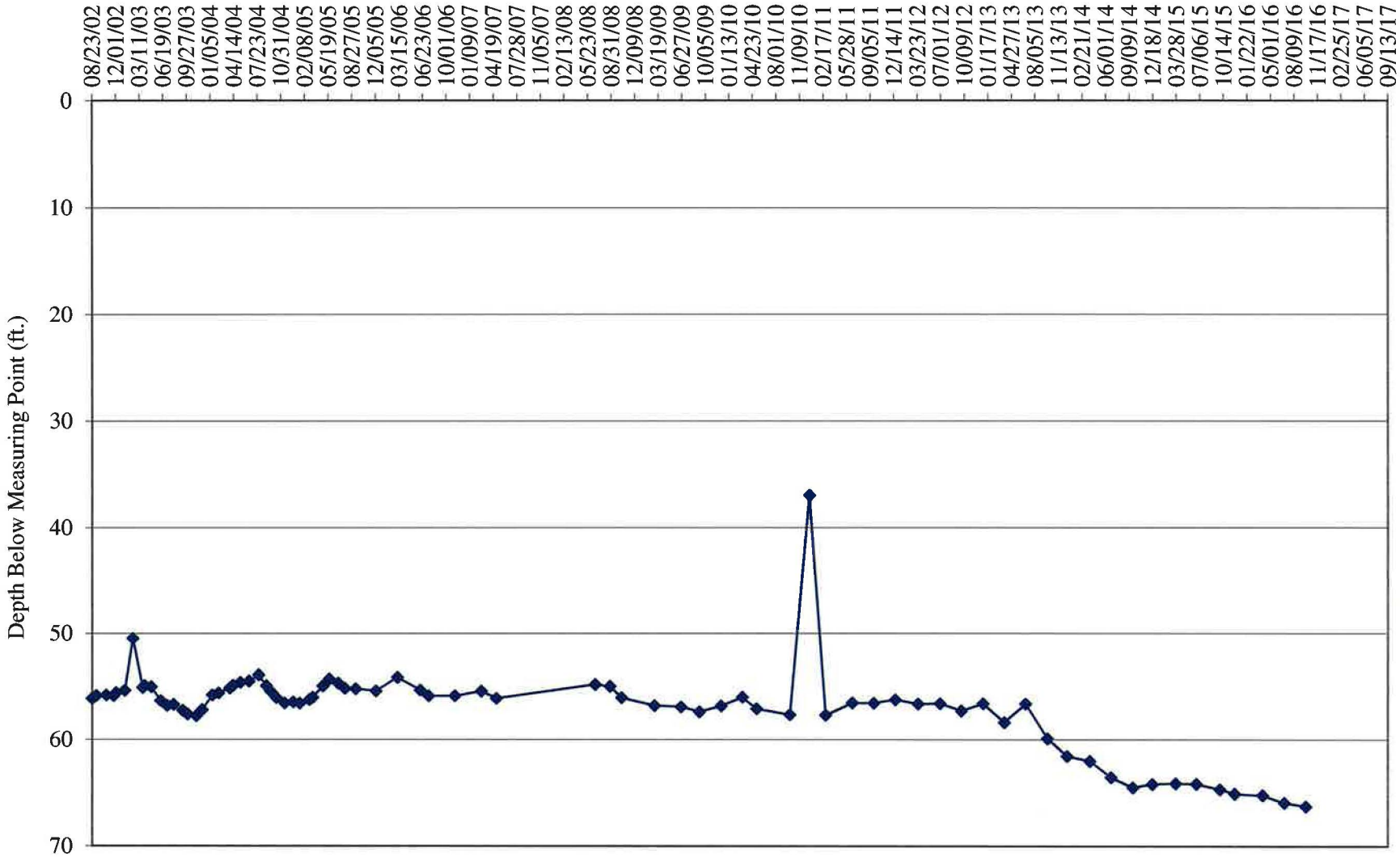
## Water Levels and Data over Time
## White Mesa Mill - Well TW4-18

| Water Elevation (WL) | Land Surface (LSD) | Measuring Point Elevation (MP) | Length Of Riser (L) | Date Of Monitoring | Total or Measured Depth to Water (blw.MP) | Total Depth to Water (blw.LSD) | Total Depth Of Well |
|---|---|---|---|---|---|---|---|
| | 5,639.13 | 5,641.28 | 2.15 | | | | 137.5 |
| 5,585.13 | | | | 08/23/02 | 56.15 | 54.00 | |
| 5,585.41 | | | | 09/11/02 | 55.87 | 53.72 | |
| 5,585.47 | | | | 10/23/02 | 55.81 | 53.66 | |
| 5,585.40 | | | | 11/22/02 | 55.88 | 53.73 | |
| 5,585.68 | | | | 12/03/02 | 55.60 | 53.45 | |
| 5,585.90 | | | | 01/09/03 | 55.38 | 53.23 | |
| 5,590.79 | | | | 02/12/03 | 50.49 | 48.34 | |
| 5,586.18 | | | | 03/26/03 | 55.10 | 52.95 | |
| 5,586.36 | | | | 04/02/03 | 54.92 | 52.77 | |
| 5,586.24 | | | | 05/01/03 | 55.04 | 52.89 | |
| 5,584.93 | | | | 06/09/03 | 56.35 | 54.20 | |
| 5,584.46 | | | | 07/07/03 | 56.82 | 54.67 | |
| 5,584.55 | | | | 08/04/03 | 56.73 | 54.58 | |
| 5,584.01 | | | | 09/11/03 | 57.27 | 55.12 | |
| 5,583.67 | | | | 10/02/03 | 57.61 | 55.46 | |
| 5,583.50 | | | | 11/07/03 | 57.78 | 55.63 | |
| 5,584.08 | | | | 12/03/03 | 57.20 | 55.05 | |
| 5,585.45 | | | | 01/15/04 | 55.83 | 53.68 | |
| 5,585.66 | | | | 02/10/04 | 55.62 | 53.47 | |
| 5,586.13 | | | | 03/28/04 | 55.15 | 53.00 | |
| 5,586.39 | | | | 04/12/04 | 54.89 | 52.74 | |
| 5,586.66 | | | | 05/13/04 | 54.62 | 52.47 | |
| 5,586.77 | | | | 06/18/04 | 54.51 | 52.36 | |
| 5,587.35 | | | | 07/28/04 | 53.93 | 51.78 | |
| 5,586.34 | | | | 08/30/04 | 54.94 | 52.79 | |
| 5,585.85 | | | | 09/16/04 | 55.43 | 53.28 | |
| 5,585.22 | | | | 10/11/04 | 56.06 | 53.91 | |
| 5,584.70 | | | | 11/16/04 | 56.58 | 54.43 | |
| 5,584.81 | | | | 12/22/04 | 56.47 | 54.32 | |
| 5,584.68 | | | | 01/18/05 | 56.60 | 54.45 | |
| 5,585.02 | | | | 02/28/05 | 56.26 | 54.11 | |
| 5,585.25 | | | | 03/15/05 | 56.03 | 53.88 | |
| 5,586.31 | | | | 04/26/05 | 54.97 | 52.82 | |
| 5,586.97 | | | | 05/24/05 | 54.31 | 52.16 | |
| 5,586.58 | | | | 06/30/05 | 54.70 | 52.55 | |
| 5,586.10 | | | | 07/29/05 | 55.18 | 53.03 | |
| 5,586.05 | | | | 09/12/05 | 55.23 | 53.08 | |
| 5,585.86 | | | | 12/07/05 | 55.42 | 53.27 | |
| 5,587.13 | | | | 03/08/06 | 54.15 | 52.00 | |
| 5,585.93 | | | | 06/13/06 | 55.35 | 53.20 | |
| 5,585.40 | | | | 07/18/06 | 55.88 | 53.73 | |
| 5,585.38 | | | | 11/07/06 | 55.90 | 53.75 | |
| 5585.83 | | | | 02/27/07 | 55.45 | 53.30 | |

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

| Water Elevation (WL) | Land Surface (LSD) | Measuring Point Elevation (MP) | Length Of Riser (L) | Date Of Monitoring | Total or Measured Depth to Water (blw.MP) | Total Depth to Water (blw.LSD) | Total Depth Of Well |
|---|---|---|---|---|---|---|---|
| | 5,639.13 | 5,641.28 | 2.15 | | | | 137.5 |
| 5585.15 | | | | 05/02/07 | 56.13 | 53.98 | |
| 5586.47 | | | | 06/24/08 | 54.81 | 52.66 | |
| 5586.3 | | | | 08/26/08 | 54.98 | 52.83 | |
| 5585.21 | | | | 10/14/08 | 56.07 | 53.92 | |
| 5584.47 | | | | 03/03/09 | 56.81 | 54.66 | |
| 5584.35 | | | | 06/24/09 | 56.93 | 54.78 | |
| 5583.88 | | | | 09/10/09 | 57.4 | 55.25 | |
| 5584.43 | | | | 12/11/09 | 56.85 | 54.70 | |
| 5,585.26 | | | | 03/11/10 | 56.02 | 53.87 | |
| 5,584.17 | | | | 05/11/10 | 57.11 | 54.96 | |
| 5,583.61 | | | | 09/29/10 | 57.67 | 55.52 | |
| 5,604.29 | | | | 12/21/10 | 36.99 | 34.84 | |
| 5,583.56 | | | | 02/28/11 | 57.72 | 55.57 | |
| 5,584.73 | | | | 06/21/11 | 56.55 | 54.40 | |
| 5,584.71 | | | | 09/20/11 | 56.57 | 54.42 | |
| 5,585.03 | | | | 12/21/11 | 56.25 | 54.10 | |
| 5,584.63 | | | | 03/27/12 | 56.65 | 54.50 | |
| 5,584.67 | | | | 06/28/12 | 56.61 | 54.46 | |
| 5,583.98 | | | | 09/27/12 | 57.30 | 55.15 | |
| 5,584.65 | | | | 12/28/12 | 56.63 | 54.48 | |
| 5,582.88 | | | | 03/28/13 | 58.40 | 56.25 | |
| 5,584.63 | | | | 06/27/13 | 56.65 | 54.50 | |
| 5,581.38 | | | | 09/27/13 | 59.90 | 57.75 | |
| 5,579.71 | | | | 12/20/13 | 61.57 | 59.42 | |
| 5,579.26 | | | | 03/27/14 | 62.02 | 59.87 | |
| 5,577.73 | | | | 06/25/14 | 63.55 | 61.40 | |
| 5,576.79 | | | | 09/25/14 | 64.49 | 62.34 | |
| 5,577.11 | | | | 12/17/14 | 64.17 | 62.02 | |
| 5,577.18 | | | | 03/26/15 | 64.10 | 61.95 | |
| 5,577.13 | | | | 06/22/15 | 64.15 | 62.00 | |
| 5,576.63 | | | | 09/30/15 | 64.65 | 62.50 | |
| 5,576.20 | | | | 12/02/15 | 65.08 | 62.93 | |
| 5,576.05 | | | | 03/30/16 | 65.23 | 63.08 | |
| 5,575.35 | | | | 06/30/16 | 65.93 | 63.78 | |
| 5,575.02 | | | | 09/29/16 | 66.26 | 64.11 | |

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



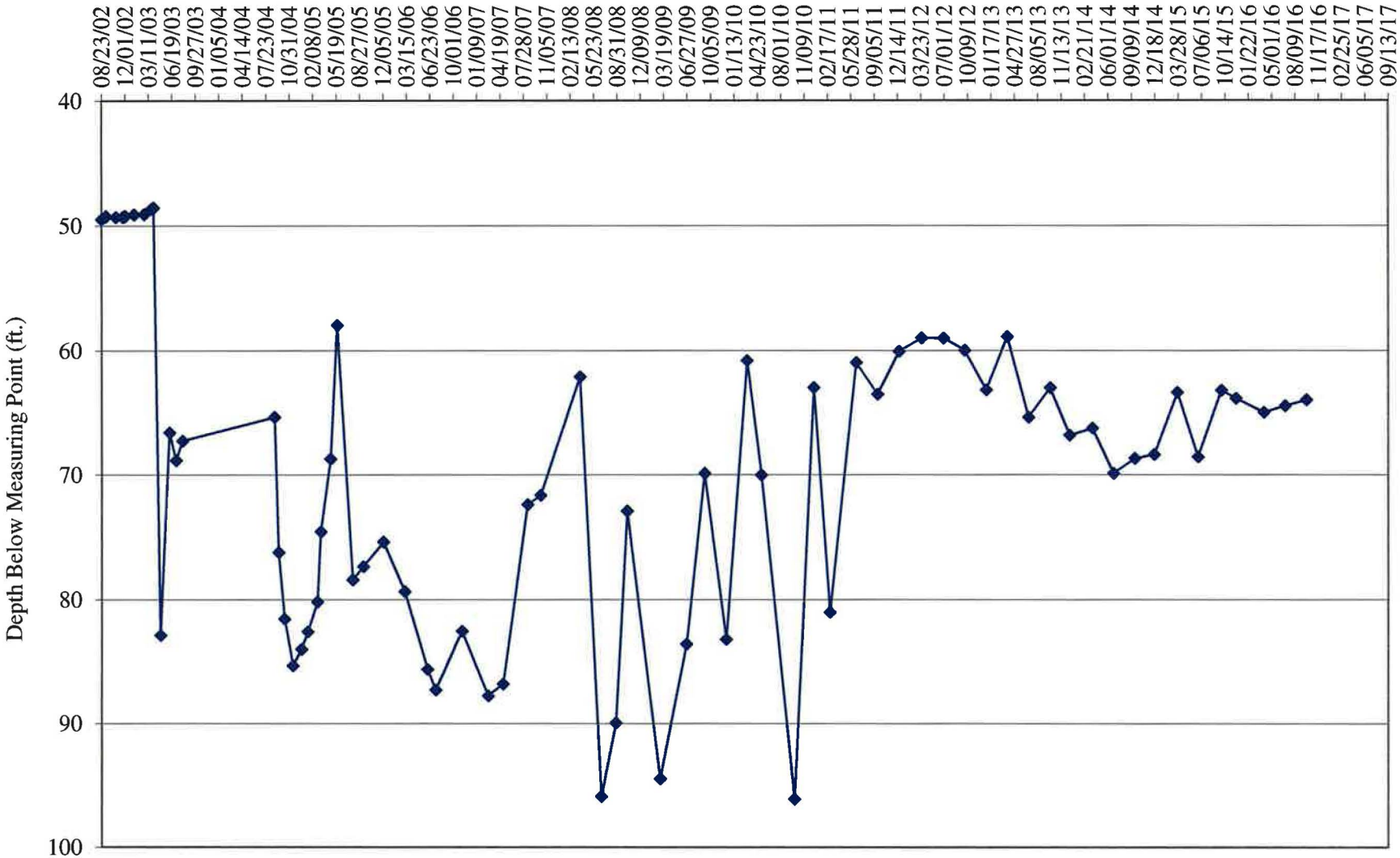
# Water Levels and Data over Time
# White Mesa Mill - Well TW4-19

| Water Elevation (WL) | Land Surface (LSD) | Measuring Point Elevation (MP) | Length Of Riser (L) | Date Of Monitoring | Total or Measured Depth to Water (blw.MP) | Total Depth to Water (blw.LSD) | Total Depth Of Well |
|---|---|---|---|---|---|---|---|
| | 5,629.53 | 5,631.39 | 1.86 | | | | 121.33 |
| 5,581.88 | | | | 08/23/02 | 49.51 | 47.65 | |
| 5,582.14 | | | | 09/11/02 | 49.25 | 47.39 | |
| 5,582.06 | | | | 10/23/02 | 49.33 | 47.47 | |
| 5,582.07 | | | | 11/22/02 | 49.32 | 47.46 | |
| 5,582.16 | | | | 12/03/02 | 49.23 | 47.37 | |
| 5,582.28 | | | | 01/09/03 | 49.11 | 47.25 | |
| 5,582.29 | | | | 02/21/03 | 49.10 | 47.24 | |
| 5,582.74 | | | | 03/26/03 | 48.65 | 46.79 | |
| 5,582.82 | | | | 04/02/03 | 48.57 | 46.71 | |
| 5,548.47 | | | | 05/01/03 | 82.92 | 81.06 | |
| 5,564.76 | | | | 06/09/03 | 66.63 | 64.77 | |
| 5,562.53 | | | | 07/07/03 | 68.86 | 67.00 | |
| 5,564.10 | | | | 08/04/03 | 67.29 | 65.43 | |
| 5,566.01 | | | | 08/30/04 | 65.38 | 63.52 | |
| 5,555.16 | | | | 09/16/04 | 76.23 | 74.37 | |
| 5,549.80 | | | | 10/11/04 | 81.59 | 79.73 | |
| 5,546.04 | | | | 11/16/04 | 85.35 | 83.49 | |
| 5,547.34 | | | | 12/22/04 | 84.05 | 82.19 | |
| 5,548.77 | | | | 01/18/05 | 82.62 | 80.76 | |
| 5,551.18 | | | | 02/28/05 | 80.21 | 78.35 | |
| 5,556.81 | | | | 03/15/05 | 74.58 | 72.72 | |
| 5,562.63 | | | | 04/26/05 | 68.76 | 66.90 | |
| 5,573.42 | | | | 05/24/05 | 57.97 | 56.11 | |
| 5,552.94 | | | | 07/29/05 | 78.45 | 76.59 | |
| 5,554.00 | | | | 09/12/05 | 77.39 | 75.53 | |
| 5,555.98 | | | | 12/07/05 | 75.41 | 73.55 | |
| 5,552.00 | | | | 03/08/06 | 79.39 | 77.53 | |
| 5,545.74 | | | | 06/13/06 | 85.65 | 83.79 | |
| 5,544.06 | | | | 07/18/06 | 87.33 | 85.47 | |
| 5,548.81 | | | | 11/07/06 | 82.58 | 80.72 | |
| 5543.59 | | | | 02/27/07 | 87.80 | 85.94 | |
| 5544.55 | | | | 05/02/07 | 86.84 | 84.98 | |
| 5558.97 | | | | 08/15/07 | 72.42 | 70.56 | |
| 5559.73 | | | | 10/10/07 | 71.66 | 69.8 | |
| 5569.26 | | | | 03/26/08 | 62.13 | 60.27 | |
| 5535.47 | | | | 06/25/08 | 95.92 | 94.06 | |
| 5541.41 | | | | 08/26/08 | 89.98 | 88.12 | |
| 5558.45 | | | | 10/14/08 | 72.94 | 71.08 | |
| 5536.9 | | | | 03/03/09 | 94.49 | 92.63 | |
| 5547.76 | | | | 06/24/09 | 83.63 | 81.77 | |
| 5561.48 | | | | 09/10/09 | 69.91 | 68.05 | |
| 5548.14 | | | | 12/11/09 | 83.25 | 81.39 | |
| 5,570.58 | | | | 03/11/10 | 60.81 | 58.95 | |

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

| Water Elevation (WL) | Land Surface (LSD) | Measuring Point Elevation (MP) | Length Of Riser (L) | Date Of Monitoring | Total or Measured Depth to Water (blw.MP) | Total Depth to Water (blw.LSD) | Total Depth Of Well |
|---|---|---|---|---|---|---|---|
| | 5,629.53 | 5,631.39 | 1.86 | | | | 121.33 |
| 5,561.35 | | | | 05/11/10 | 70.04 | 68.18 | |
| 5,535.26 | | | | 09/29/10 | 96.13 | 94.27 | |
| 5,568.40 | | | | 12/21/10 | 62.99 | 61.13 | |
| 5,550.36 | | | | 02/28/11 | 81.03 | 79.17 | |
| 5,570.41 | | | | 06/21/11 | 60.98 | 59.12 | |
| 5,567.84 | | | | 09/20/11 | 63.55 | 61.69 | |
| 5,571.32 | | | | 12/21/11 | 60.07 | 58.21 | |
| 5,572.40 | | | | 03/27/12 | 58.99 | 57.13 | |
| 5,572.39 | | | | 06/28/12 | 59.00 | 57.14 | |
| 5,571.40 | | | | 09/27/12 | 59.99 | 58.13 | |
| 5,568.21 | | | | 12/28/12 | 63.18 | 61.32 | |
| 5,572.51 | | | | 03/28/13 | 58.88 | 57.02 | |
| 5,566.00 | | | | 06/27/13 | 65.39 | 63.53 | |
| 5,568.37 | | | | 09/27/13 | 63.02 | 61.16 | |
| 5,564.55 | | | | 12/20/13 | 66.84 | 64.98 | |
| 5,565.11 | | | | 03/27/14 | 66.28 | 64.42 | |
| 5,561.49 | | | | 06/25/14 | 69.90 | 68.04 | |
| 5,562.67 | | | | 09/25/14 | 68.72 | 66.86 | |
| 5,562.99 | | | | 12/17/14 | 68.40 | 66.54 | |
| 5,567.99 | | | | 03/26/15 | 63.40 | 61.54 | |
| 5,562.79 | | | | 06/22/15 | 68.60 | 66.74 | |
| 5,568.16 | | | | 09/30/15 | 63.23 | 61.37 | |
| 5,567.51 | | | | 12/02/15 | 63.88 | 62.02 | |
| 5,566.38 | | | | 03/30/16 | 65.01 | 63.15 | |
| 5,566.91 | | | | 06/30/16 | 64.48 | 62.62 | |
| 5,567.38 | | | | 09/29/16 | 64.01 | 62.15 | |

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



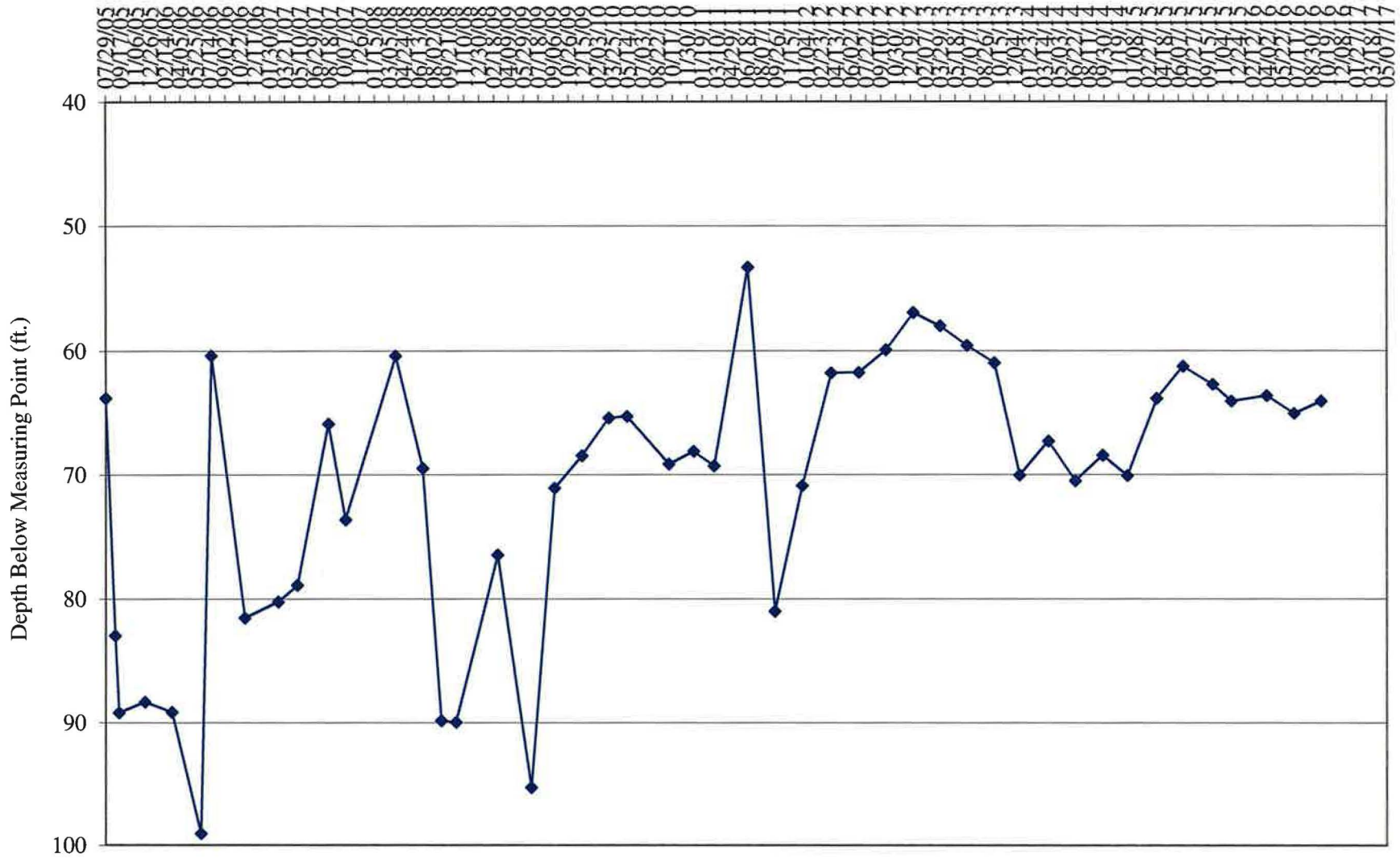
# Water Levels and Data over Time
# White Mesa Mill - Well TW4-20

| Water Elevation (WL) | Land Surface (LSD) | Measuring Point Elevation (MP) | Length Of Riser (L) | Date Of Monitoring | Total or Measured Depth to Water (blw.MP) | Total Depth to Water (blw.LSD) | Total Depth Of Well |
|---|---|---|---|---|---|---|---|
| | 5,628.52 | 5,629.53 | 1.01 | | | | 106.0 |
| 5,565.70 | | | | 07/29/05 | 63.83 | 62.82 | |
| 5,546.53 | | | | 08/30/05 | 83.00 | 81.99 | |
| 5,540.29 | | | | 09/12/05 | 89.24 | 88.23 | |
| 5,541.17 | | | | 12/07/05 | 88.36 | 87.35 | |
| 5,540.33 | | | | 03/08/06 | 89.20 | 88.19 | |
| 5,530.43 | | | | 06/13/06 | 99.10 | 98.09 | |
| 5,569.13 | | | | 07/18/06 | 60.40 | 59.39 | |
| 5,547.95 | | | | 11/07/06 | 81.58 | 80.57 | |
| 5,549.25 | | | | 02/27/07 | 80.28 | 79.27 | |
| 5,550.58 | | | | 05/02/07 | 78.95 | 77.94 | |
| 5,563.60 | | | | 08/14/07 | 65.93 | 64.92 | |
| 5,555.85 | | | | 10/10/07 | 73.68 | 72.67 | |
| 5,569.10 | | | | 03/26/08 | 60.43 | 59.42 | |
| 5,560.00 | | | | 06/25/08 | 69.53 | 68.52 | |
| 5,539.64 | | | | 08/26/08 | 89.89 | 88.88 | |
| 5,539.51 | | | | 10/14/08 | 90.02 | 89.01 | |
| 5,553.00 | | | | 03/03/09 | 76.53 | 75.52 | |
| 5,534.18 | | | | 06/24/09 | 95.35 | 94.34 | |
| 5,558.39 | | | | 09/10/09 | 71.14 | 70.13 | |
| 5,560.99 | | | | 12/11/09 | 68.54 | 67.53 | |
| 5,564.09 | | | | 03/11/10 | 65.44 | 64.43 | |
| 5,564.22 | | | | 05/11/10 | 65.31 | 64.30 | |
| 5,560.33 | | | | 09/29/10 | 69.20 | 68.19 | |
| 5,561.35 | | | | 12/21/10 | 68.18 | 67.17 | |
| 5,560.18 | | | | 02/28/11 | 69.35 | 68.34 | |
| 5,576.23 | | | | 06/21/11 | 53.30 | 52.29 | |
| 5,548.50 | | | | 09/20/11 | 81.03 | 80.02 | |
| 5,558.58 | | | | 12/21/11 | 70.95 | 69.94 | |
| 5,567.73 | | | | 03/27/12 | 61.80 | 60.79 | |
| 5,567.77 | | | | 06/28/12 | 61.76 | 60.75 | |
| 5,569.58 | | | | 09/27/12 | 59.95 | 58.94 | |
| 5,572.58 | | | | 12/28/12 | 56.95 | 55.94 | |
| 5,571.52 | | | | 03/28/13 | 58.01 | 57.00 | |
| 5,569.93 | | | | 06/27/13 | 59.60 | 58.59 | |
| 5,568.53 | | | | 09/27/13 | 61.00 | 59.99 | |
| 5,559.44 | | | | 12/20/13 | 70.09 | 69.08 | |
| 5,562.17 | | | | 03/27/14 | 67.36 | 66.35 | |
| 5,558.98 | | | | 06/25/14 | 70.55 | 69.54 | |
| 5,561.03 | | | | 09/25/14 | 68.50 | 67.49 | |
| 5,559.39 | | | | 12/17/14 | 70.14 | 69.13 | |
| 5,565.65 | | | | 03/26/15 | 63.88 | 62.87 | |
| 5,568.25 | | | | 06/22/15 | 61.28 | 60.27 | |

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

| Water Elevation (WL) | Land Surface (LSD) | Measuring Point Elevation (MP) | Length Of Riser (L) | Date Of Monitoring | Total or Measured Depth to Water (blw.MP) | Total Depth to Water (blw.LSD) | Total Depth Of Well |
|---|---|---|---|---|---|---|---|
| | 5,628.52 | 5,629.53 | 1.01 | | | | 106.0 |
| 5,566.78 | | | | 09/30/15 | 62.75 | 61.74 | |
| 5,565.43 | | | | 12/02/15 | 64.10 | 63.09 | |
| 5,565.87 | | | | 03/30/16 | 63.66 | 62.65 | |
| 5,564.42 | | | | 06/30/16 | 65.11 | 64.10 | |
| 5,565.43 | | | | 09/29/16 | 64.10 | 63.09 | |

## TW4-20 Water Depth Over Time (ft. blmp)



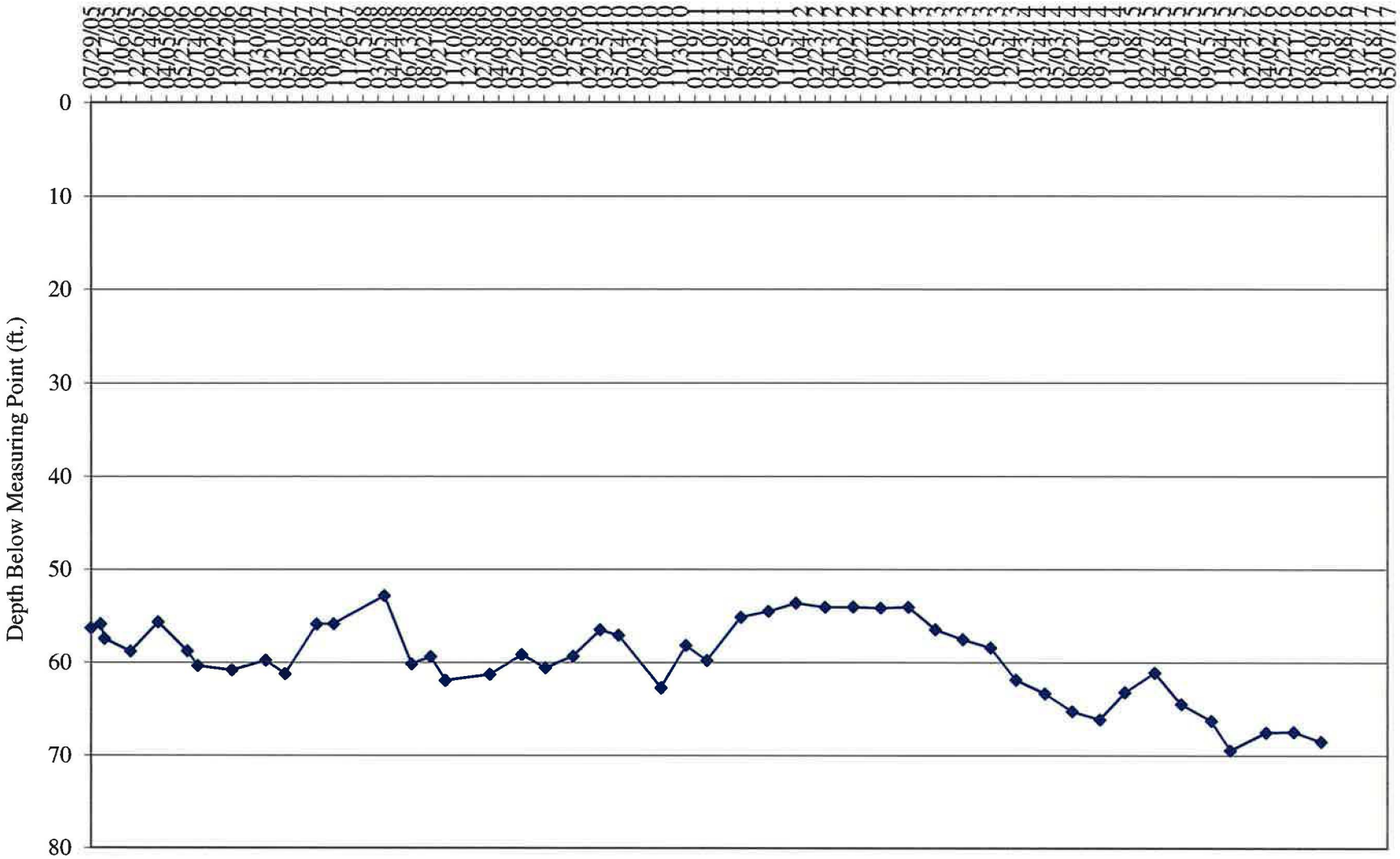
# Water Levels and Data over Time
# White Mesa Mill - Well TW4-21

| Water Elevation (WL) | Land Surface (LSD) | Measuring Point Elevation (MP) | Length Of Riser (L) | Date Of Monitoring | Total or Measured Depth to Water (blw.MP) | Total Depth to Water (blw.LSD) | Total Depth Of Well |
|---|---|---|---|---|---|---|---|
| | 5,638.20 | 5,639.35 | 1.15 | | | | 120.92 |
| 5,582.98 | | | | 07/29/05 | 56.37 | 55.22 | |
| 5,583.43 | | | | 08/30/05 | 55.92 | 54.77 | |
| 5,581.87 | | | | 09/12/05 | 57.48 | 56.33 | |
| 5,580.50 | | | | 12/07/05 | 58.85 | 57.70 | |
| 5,583.64 | | | | 03/08/06 | 55.71 | 54.56 | |
| 5,580.55 | | | | 06/13/06 | 58.80 | 57.65 | |
| 5,578.95 | | | | 07/18/06 | 60.40 | 59.25 | |
| 5,578.47 | | | | 11/07/06 | 60.88 | 59.73 | |
| 5,579.53 | | | | 02/27/07 | 59.82 | 58.67 | |
| 5,578.07 | | | | 05/02/07 | 61.28 | 60.13 | |
| 5,583.41 | | | | 08/15/07 | 55.94 | 54.79 | |
| 5,583.45 | | | | 10/10/07 | 55.90 | 54.75 | |
| 5,586.47 | | | | 03/26/08 | 52.88 | 51.73 | |
| 5,579.16 | | | | 06/24/08 | 60.19 | 59.04 | |
| 5,579.92 | | | | 08/26/08 | 59.43 | 58.28 | |
| 5,577.37 | | | | 10/14/08 | 61.98 | 60.83 | |
| 5,578.00 | | | | 03/10/09 | 61.35 | 60.20 | |
| 5,580.14 | | | | 06/24/09 | 59.21 | 58.06 | |
| 5,578.72 | | | | 09/10/09 | 60.63 | 59.48 | |
| 5,579.99 | | | | 12/11/09 | 59.36 | 58.21 | |
| 5,582.81 | | | | 03/11/10 | 56.54 | 55.39 | |
| 5,582.23 | | | | 05/11/10 | 57.12 | 55.97 | |
| 5,576.60 | | | | 09/29/10 | 62.75 | 61.60 | |
| 5,581.14 | | | | 12/21/10 | 58.21 | 57.06 | |
| 5,579.53 | | | | 02/28/11 | 59.82 | 58.67 | |
| 5,584.17 | | | | 06/21/11 | 55.18 | 54.03 | |
| 5,584.80 | | | | 09/20/11 | 54.55 | 53.40 | |
| 5,585.68 | | | | 12/21/11 | 53.67 | 52.52 | |
| 5,585.24 | | | | 03/27/12 | 54.11 | 52.96 | |
| 5,585.26 | | | | 06/28/12 | 54.09 | 52.94 | |
| 5,585.16 | | | | 09/27/12 | 54.19 | 53.04 | |
| 5,585.25 | | | | 12/28/12 | 54.10 | 52.95 | |
| 5,582.84 | | | | 03/28/13 | 56.51 | 55.36 | |
| 5,581.79 | | | | 06/27/13 | 57.56 | 56.41 | |
| 5,580.89 | | | | 09/27/13 | 58.46 | 57.31 | |
| 5,577.45 | | | | 12/20/13 | 61.90 | 60.75 | |
| 5,576.01 | | | | 03/27/14 | 63.34 | 62.19 | |
| 5,574.08 | | | | 06/25/14 | 65.27 | 64.12 | |
| 5,573.20 | | | | 09/25/14 | 66.15 | 65.00 | |
| 5,576.13 | | | | 12/17/14 | 63.22 | 62.07 | |
| 5,578.19 | | | | 03/26/15 | 61.16 | 60.01 | |
| 5,574.85 | | | | 06/22/15 | 64.50 | 63.35 | |

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

| Water Elevation (WL) | Land Surface (LSD) | Measuring Point Elevation (MP) | Length Of Riser (L) | Date Of Monitoring | Total or Measured Depth to Water (blw.MP) | Total Depth to Water (blw.LSD) | Total Depth Of Well |
|---|---|---|---|---|---|---|---|
| | 5,638.20 | 5,639.35 | 1.15 | | | | 120.92 |
| 5,573.05 | | | | 09/30/15 | 66.30 | 65.15 | |
| 5,569.88 | | | | 12/02/15 | 69.47 | 68.32 | |
| 5,571.81 | | | | 03/30/16 | 67.54 | 66.39 | |
| 5,571.86 | | | | 06/30/16 | 67.49 | 66.34 | |
| 5,570.82 | | | | 09/29/16 | 68.53 | 67.38 | |

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



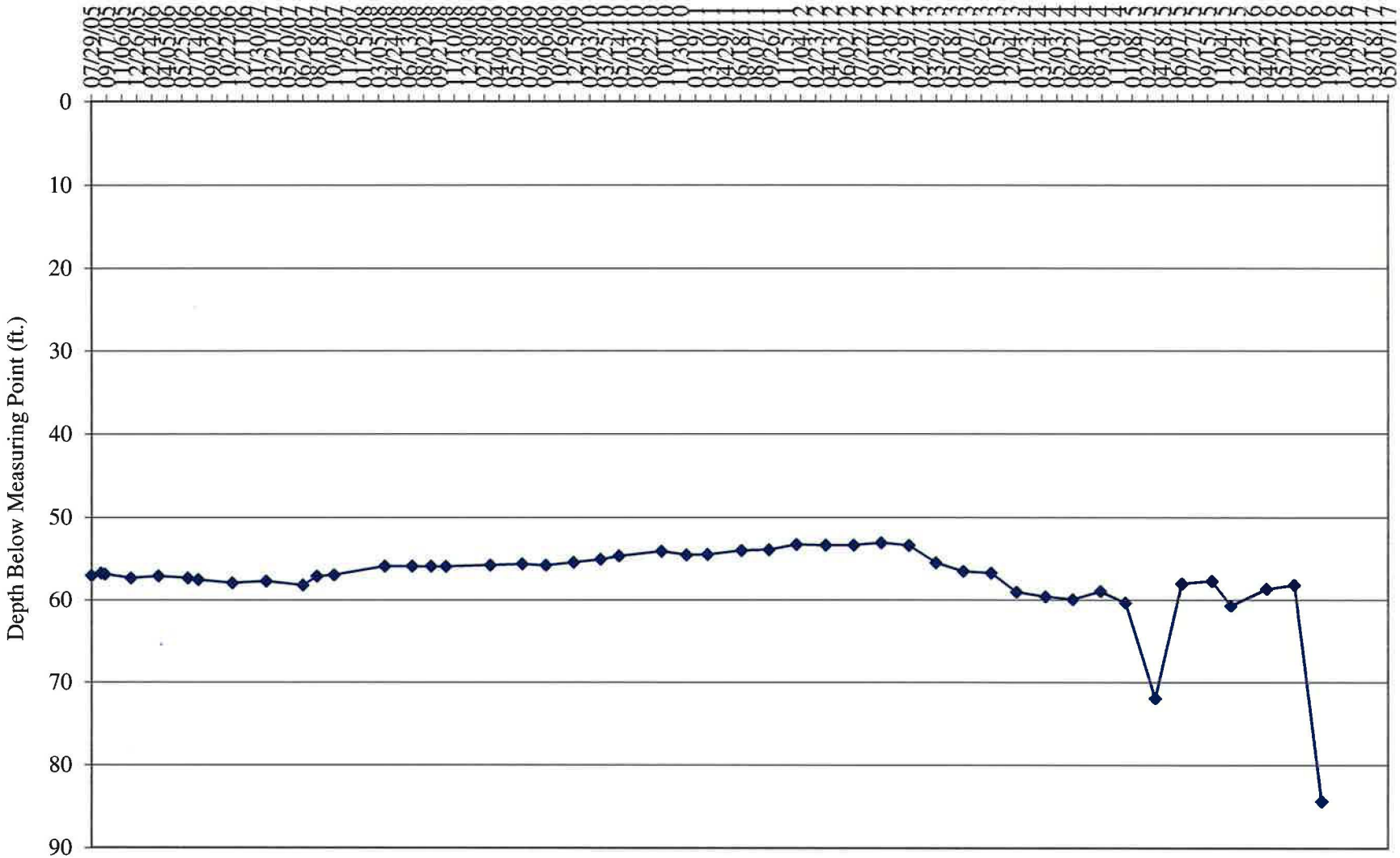
## Water Levels and Data over Time
## White Mesa Mill - Well TW4-22

| Water Elevation (WL) | Land Surface (LSD) | Measuring Point Elevation (MP) | Length Of Riser (L) | Date Of Monitoring | Total or Measured Depth to Water (blw.MP) | Total Depth to Water (blw.LSD) | Total Depth Of Well |
|---|---|---|---|---|---|---|---|
| | 5,627.83 | 5,629.00 | 1.17 | | | | 113.5 |
| 5,571.89 | | | | 07/29/05 | 57.11 | 55.94 | |
| 5,572.20 | | | | 08/30/05 | 56.80 | 55.63 | |
| 5,572.08 | | | | 09/12/05 | 56.92 | 55.75 | |
| 5,571.61 | | | | 12/07/05 | 57.39 | 56.22 | |
| 5,571.85 | | | | 03/08/06 | 57.15 | 55.98 | |
| 5,571.62 | | | | 06/13/06 | 57.38 | 56.21 | |
| 5,571.42 | | | | 07/18/06 | 57.58 | 56.41 | |
| 5,571.02 | | | | 11/07/06 | 57.98 | 56.81 | |
| 5571.24 | | | | 02/27/07 | 57.76 | 56.59 | |
| 5,570.75 | | | | 06/29/07 | 58.25 | 57.08 | |
| 5,571.82 | | | | 08/14/07 | 57.18 | 56.01 | |
| 5,571.99 | | | | 10/10/07 | 57.01 | 55.84 | |
| 5,573.05 | | | | 03/26/08 | 55.95 | 54.78 | |
| 5,573.04 | | | | 06/24/08 | 55.96 | 54.79 | |
| 5,573.04 | | | | 08/26/08 | 55.96 | 54.79 | |
| 5,573.02 | | | | 10/14/08 | 55.98 | 54.81 | |
| 5,573.19 | | | | 03/10/09 | 55.81 | 54.64 | |
| 5,573.32 | | | | 06/24/09 | 55.68 | 54.51 | |
| 5,573.17 | | | | 09/10/09 | 55.83 | 54.66 | |
| 5,573.52 | | | | 12/11/09 | 55.48 | 54.31 | |
| 5,573.88 | | | | 03/11/10 | 55.12 | 53.95 | |
| 5,574.29 | | | | 05/11/10 | 54.71 | 53.54 | |
| 5,574.88 | | | | 09/29/10 | 54.12 | 52.95 | |
| 5,574.44 | | | | 12/21/10 | 54.56 | 53.39 | |
| 5,574.49 | | | | 02/28/11 | 54.51 | 53.34 | |
| 5,574.97 | | | | 06/21/11 | 54.03 | 52.86 | |
| 5,575.06 | | | | 09/20/11 | 53.94 | 52.77 | |
| 5,575.69 | | | | 12/21/11 | 53.31 | 52.14 | |
| 5,575.61 | | | | 03/27/12 | 53.39 | 52.22 | |
| 5,575.62 | | | | 06/28/12 | 53.38 | 52.21 | |
| 5,575.90 | | | | 09/27/12 | 53.10 | 51.93 | |
| 5,575.59 | | | | 12/28/12 | 53.41 | 52.24 | |
| 5,573.50 | | | | 03/28/13 | 55.50 | 54.33 | |
| 5,572.45 | | | | 06/27/13 | 56.55 | 55.38 | |
| 5,572.25 | | | | 09/27/13 | 56.75 | 55.58 | |
| 5,569.93 | | | | 12/20/13 | 59.07 | 57.90 | |
| 5,569.36 | | | | 03/27/14 | 59.64 | 58.47 | |
| 5,569.02 | | | | 06/25/14 | 59.98 | 58.81 | |
| 5,570.00 | | | | 09/25/14 | 59.00 | 57.83 | |
| 5,568.60 | | | | 12/17/14 | 60.40 | 59.23 | |
| 5,557.00 | | | | 03/26/15 | 72.00 | 70.83 | |
| 5,570.93 | | | | 06/22/15 | 58.07 | 56.90 | |

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

| Water Elevation (WL) | Land Surface (LSD) | Measuring Point Elevation (MP) | Length Of Riser (L) | Date Of Monitoring | Total or Measured Depth to Water (blw.MP) | Total Depth to Water (blw.LSD) | Total Depth Of Well |
|---|---|---|---|---|---|---|---|
| | 5,627.83 | 5,629.00 | 1.17 | | | | 113.5 |
| 5,571.24 | | | | 09/30/15 | 57.76 | 56.59 | |
| 5,568.23 | | | | 12/02/15 | 60.77 | 59.60 | |
| 5,570.28 | | | | 03/30/16 | 58.72 | 57.55 | |
| 5,570.75 | | | | 06/30/16 | 58.25 | 57.08 | |
| 5,544.60 | | | | 09/29/16 | 84.40 | 83.23 | |

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



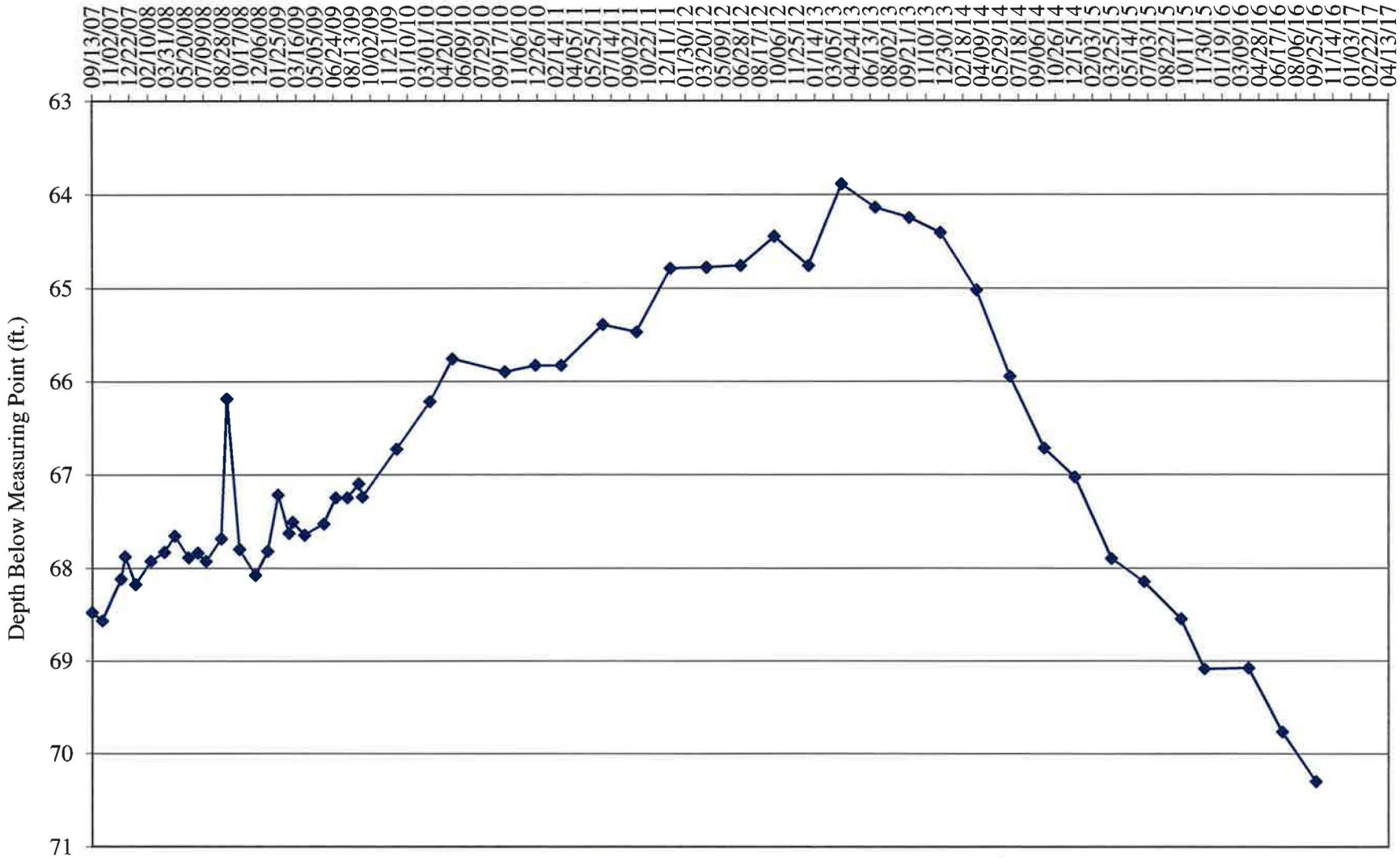
## Water Levels and Data over Time
## White Mesa Mill - Well TW4-23

| Water Elevation (WL) | Land Surface (LSD) | Measuring Point Elevation (MP) | Length Of Riser (L) | Date Of Monitoring | Total or Measured Depth to Water (blw.MP) | Total Depth to Water (blw.LSD) | Total Depth Of Well |
|---|---|---|---|---|---|---|---|
| | 5,605.77 | 5,607.37 | 1.60 | | | | 113.5 |
| 5,538.89 | | | | 09/13/07 | 68.48 | 66.88 | |
| 5,538.80 | | | | 10/10/07 | 68.57 | 66.97 | |
| 5,539.25 | | | | 11/30/07 | 68.12 | 66.52 | |
| 5,539.49 | | | | 12/11/07 | 67.88 | 66.28 | |
| 5,539.19 | | | | 01/08/08 | 68.18 | 66.58 | |
| 5,539.44 | | | | 02/18/08 | 67.93 | 66.33 | |
| 5,539.54 | | | | 03/26/08 | 67.83 | 66.23 | |
| 5,539.71 | | | | 04/23/08 | 67.66 | 66.06 | |
| 5539.48 | | | | 05/30/08 | 67.89 | 66.29 | |
| 5,539.53 | | | | 06/24/08 | 67.84 | 66.24 | |
| 5,539.44 | | | | 07/16/08 | 67.93 | 66.33 | |
| 5,539.68 | | | | 08/26/08 | 67.69 | 66.09 | |
| 5,541.18 | | | | 09/10/08 | 66.19 | 64.59 | |
| 5,539.57 | | | | 10/14/08 | 67.80 | 66.20 | |
| 5,539.29 | | | | 11/26/08 | 68.08 | 66.48 | |
| 5,539.55 | | | | 12/29/08 | 67.82 | 66.22 | |
| 5,540.15 | | | | 01/26/09 | 67.22 | 65.62 | |
| 5,539.74 | | | | 02/24/09 | 67.63 | 66.03 | |
| 5,539.86 | | | | 03/06/09 | 67.51 | 65.91 | |
| 5,539.72 | | | | 04/07/09 | 67.65 | 66.05 | |
| 5,539.84 | | | | 05/29/09 | 67.53 | 65.93 | |
| 5,540.12 | | | | 06/30/09 | 67.25 | 65.65 | |
| 5,540.12 | | | | 07/31/09 | 67.25 | 65.65 | |
| 5,540.27 | | | | 08/31/09 | 67.10 | 65.50 | |
| 5,540.13 | | | | 09/10/09 | 67.24 | 65.64 | |
| 5,540.64 | | | | 12/11/09 | 66.73 | 65.13 | |
| 5,541.15 | | | | 03/11/10 | 66.22 | 64.62 | |
| 5,541.61 | | | | 05/11/10 | 65.76 | 64.16 | |
| 5,541.47 | | | | 09/29/10 | 65.90 | 64.30 | |
| 5,541.54 | | | | 12/21/10 | 65.83 | 64.23 | |
| 5,541.54 | | | | 02/28/11 | 65.83 | 64.23 | |
| 5,541.98 | | | | 06/21/11 | 65.39 | 63.79 | |
| 5,541.90 | | | | 09/20/11 | 65.47 | 63.87 | |
| 5,542.58 | | | | 12/21/11 | 64.79 | 63.19 | |
| 5,542.59 | | | | 03/27/12 | 64.78 | 63.18 | |
| 5,542.61 | | | | 06/28/12 | 64.76 | 63.16 | |
| 5,542.92 | | | | 09/27/12 | 64.45 | 62.85 | |
| 5,542.61 | | | | 12/28/12 | 64.76 | 63.16 | |
| 5,543.48 | | | | 03/28/13 | 63.89 | 62.29 | |
| 5,543.23 | | | | 06/27/13 | 64.14 | 62.54 | |
| 5,543.12 | | | | 09/27/13 | 64.25 | 62.65 | |
| 5,542.96 | | | | 12/20/13 | 64.41 | 62.81 | |

## Water Levels and Data over Time
## White Mesa Mill - Well TW4-23

| Water Elevation (WL) | Land Surface (LSD) | Measuring Point Elevation (MP) | Length Of Riser (L) | Date Of Monitoring | Total or Measured Depth to Water (blw.MP) | Total Depth to Water (blw.LSD) | Total Depth Of Well |
|---|---|---|---|---|---|---|---|
| | 5,605.77 | 5,607.37 | 1.60 | | | | 113.5 |
| 5,542.35 | | | | 03/27/14 | 65.02 | 63.42 | |
| 5,541.42 | | | | 06/25/14 | 65.95 | 64.35 | |
| 5,540.65 | | | | 09/25/14 | 66.72 | 65.12 | |
| 5,540.34 | | | | 12/17/14 | 67.03 | 65.43 | |
| 5,539.47 | | | | 03/26/15 | 67.90 | 66.30 | |
| 5,539.22 | | | | 06/22/15 | 68.15 | 66.55 | |
| 5,538.82 | | | | 09/30/15 | 68.55 | 66.95 | |
| 5,538.28 | | | | 12/02/15 | 69.09 | 67.49 | |
| 5,538.29 | | | | 03/30/16 | 69.08 | 67.48 | |
| 5,537.60 | | | | 06/30/16 | 69.77 | 68.17 | |
| 5,537.07 | | | | 09/29/16 | 70.30 | 68.70 | |

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



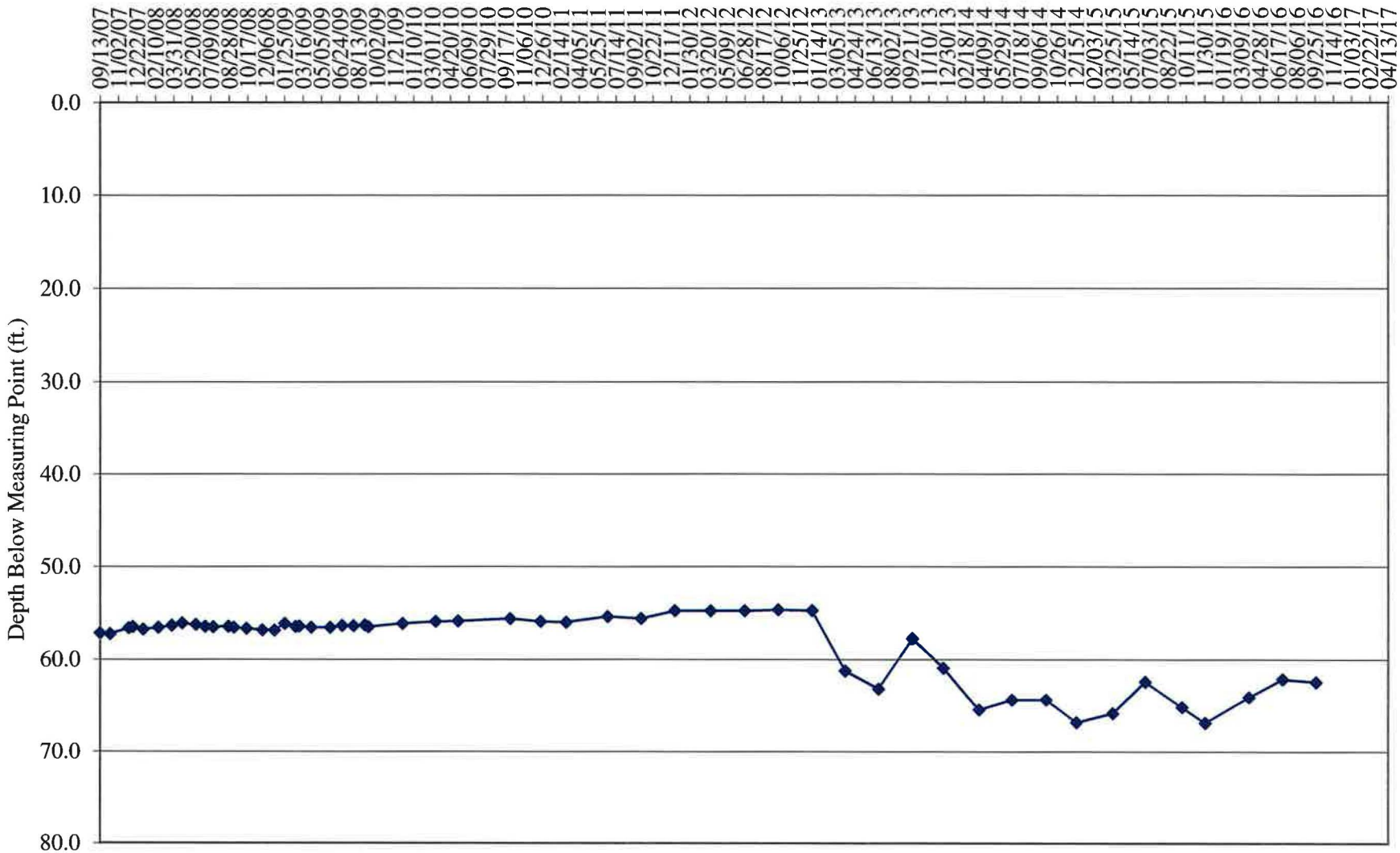
# Water Levels and Data over Time
# White Mesa Mill - Well TW4-24

| Water Elevation (WL) | Land Surface (LSD) | Measuring Point Elevation (MP) | Length Of Riser (L) | Date Of Monitoring | Total or Measured Depth to Water (blw.MP) | Total Depth to Water (blw.LSD) | Total Depth Of Well |
|---|---|---|---|---|---|---|---|
| | 5,625.70 | 5,627.83 | 2.13 | | | | 113.5 |
| 5,570.61 | | | | 09/13/07 | 57.22 | 55.09 | |
| 5,570.53 | | | | 10/10/07 | 57.30 | 55.17 | |
| 5,571.16 | | | | 11/30/07 | 56.67 | 54.54 | |
| 5,571.30 | | | | 12/11/07 | 56.53 | 54.40 | |
| 5,571.03 | | | | 01/08/08 | 56.80 | 54.67 | |
| 5,571.22 | | | | 02/18/08 | 56.61 | 54.48 | |
| 5,571.43 | | | | 03/26/08 | 56.40 | 54.27 | |
| 5,571.68 | | | | 04/23/08 | 56.15 | 54.02 | |
| 5571.52 | | | | 05/30/08 | 56.31 | 54.18 | |
| 5,571.34 | | | | 06/24/08 | 56.49 | 54.36 | |
| 5,571.28 | | | | 07/16/08 | 56.55 | 54.42 | |
| 5,571.34 | | | | 08/26/08 | 56.49 | 54.36 | |
| 5,571.23 | | | | 09/10/08 | 56.60 | 54.47 | |
| 5,571.12 | | | | 10/14/08 | 56.71 | 54.58 | |
| 5,570.95 | | | | 11/26/08 | 56.88 | 54.75 | |
| 5,570.92 | | | | 12/29/08 | 56.91 | 54.78 | |
| 5,571.65 | | | | 01/26/09 | 56.18 | 54.05 | |
| 5,571.31 | | | | 02/24/09 | 56.52 | 54.39 | |
| 5,571.37 | | | | 03/06/09 | 56.46 | 54.33 | |
| 5,571.21 | | | | 04/07/09 | 56.62 | 54.49 | |
| 5,571.23 | | | | 05/29/09 | 56.60 | 54.47 | |
| 5,571.42 | | | | 06/30/09 | 56.41 | 54.28 | |
| 5,571.38 | | | | 07/31/09 | 56.45 | 54.32 | |
| 5,571.48 | | | | 08/31/09 | 56.35 | 54.22 | |
| 5,571.28 | | | | 09/10/09 | 56.55 | 54.42 | |
| 5,571.64 | | | | 12/11/09 | 56.19 | 54.06 | |
| 5,571.86 | | | | 03/11/10 | 55.97 | 53.84 | |
| 5,571.91 | | | | 05/11/10 | 55.92 | 53.79 | |
| 5,572.18 | | | | 09/29/10 | 55.65 | 53.52 | |
| 5,571.86 | | | | 12/21/10 | 55.97 | 53.84 | |
| 5,571.78 | | | | 02/28/11 | 56.05 | 53.92 | |
| 5,572.40 | | | | 06/21/11 | 55.43 | 53.30 | |
| 5,572.19 | | | | 09/20/11 | 55.64 | 53.51 | |
| 5,573.02 | | | | 12/21/11 | 54.81 | 52.68 | |
| 5,573.03 | | | | 03/27/12 | 54.80 | 52.67 | |
| 5,573.02 | | | | 06/28/12 | 54.81 | 52.68 | |
| 5,573.13 | | | | 09/27/12 | 54.70 | 52.57 | |
| 5,573.05 | | | | 12/28/12 | 54.78 | 52.65 | |
| 5,566.53 | | | | 03/28/13 | 61.30 | 59.17 | |
| 5,564.63 | | | | 06/27/13 | 63.20 | 61.07 | |
| 5,570.01 | | | | 09/27/13 | 57.82 | 55.69 | |
| 5,566.85 | | | | 12/20/13 | 60.98 | 58.85 | |
| 5,562.33 | | | | 03/27/14 | 65.50 | 63.37 | |

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

| Water Elevation (WL) | Land Surface (LSD) | Measuring Point Elevation (MP) | Length Of Riser (L) | Date Of Monitoring | Total or Measured Depth to Water (blw.MP) | Total Depth to Water (blw.LSD) | Total Depth Of Well |
|---|---|---|---|---|---|---|---|
| | 5,625.70 | 5,627.83 | 2.13 | | | | 113.5 |
| 5,563.43 | | | | 06/25/14 | 64.40 | 62.27 | |
| 5,563.43 | | | | 09/25/14 | 64.40 | 62.27 | |
| 5,560.97 | | | | 12/17/14 | 66.86 | 64.73 | |
| 5,561.95 | | | | 03/26/15 | 65.88 | 63.75 | |
| 5,565.38 | | | | 06/22/15 | 62.45 | 60.32 | |
| 5,562.61 | | | | 09/30/15 | 65.22 | 63.09 | |
| 5,560.91 | | | | 12/02/15 | 66.92 | 64.79 | |
| 5,563.69 | | | | 03/30/16 | 64.14 | 62.01 | |
| 5,565.64 | | | | 06/30/16 | 62.19 | 60.06 | |
| 5,565.35 | | | | 09/29/16 | 62.48 | 60.35 | |

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



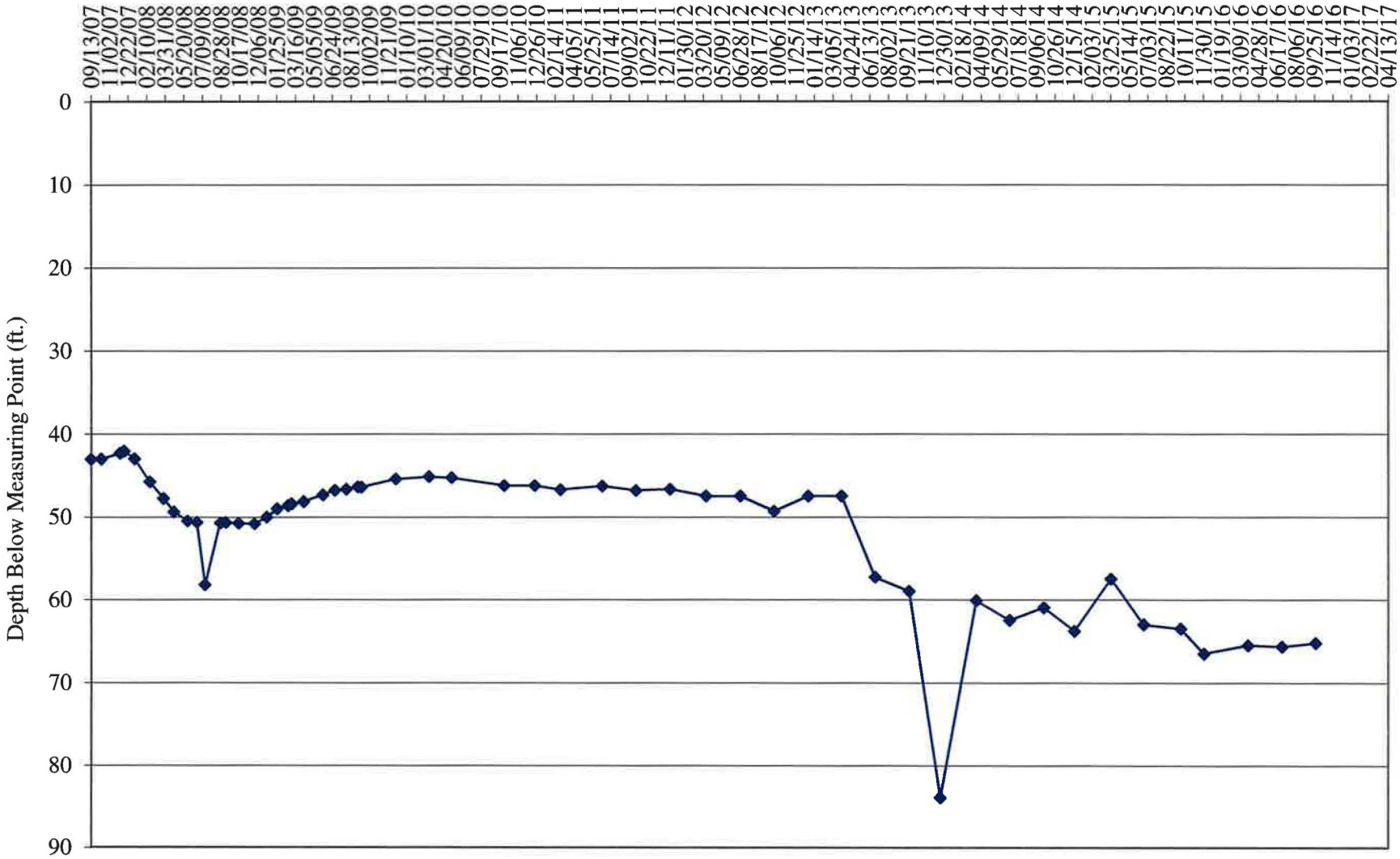
## Water Levels and Data over Time
## White Mesa Mill - Well TW4-25

| Water Elevation (WL) | Land Surface (LSD) | Measuring Point Elevation (MP) | Length Of Riser (L) | Date Of Monitoring | Total or Measured Depth to Water (blw.MP) | Total Depth to Water (blw.LSD) | Total Depth Of Well |
|---|---|---|---|---|---|---|---|
| | 5,627.83 | 5,644.91 | 17.08 | | | | 134.8 |
| 5,601.86 | | | | 09/13/07 | 43.05 | 25.97 | |
| 5,601.89 | | | | 10/10/07 | 43.02 | 25.94 | |
| 5,602.57 | | | | 11/30/07 | 42.34 | 25.26 | |
| 5,602.82 | | | | 12/11/07 | 42.09 | 25.01 | |
| 5,601.94 | | | | 01/08/08 | 42.97 | 25.89 | |
| 5,599.13 | | | | 02/18/08 | 45.78 | 28.70 | |
| 5,597.11 | | | | 03/26/08 | 47.80 | 30.72 | |
| 5,595.51 | | | | 04/23/08 | 49.40 | 32.32 | |
| 5594.42 | | | | 05/30/08 | 50.49 | 33.41 | |
| 5,594.26 | | | | 06/24/08 | 50.65 | 33.57 | |
| 5,586.67 | | | | 07/16/08 | 58.24 | 41.16 | |
| 5,594.17 | | | | 08/26/08 | 50.74 | 33.66 | |
| 5,594.23 | | | | 09/10/08 | 50.68 | 33.60 | |
| 5,594.12 | | | | 10/14/08 | 50.79 | 33.71 | |
| 5,594.06 | | | | 11/26/08 | 50.85 | 33.77 | |
| 5,594.87 | | | | 12/29/08 | 50.04 | 32.96 | |
| 5,595.89 | | | | 01/26/09 | 49.02 | 31.94 | |
| 5,596.27 | | | | 02/24/09 | 48.64 | 31.56 | |
| 5,596.47 | | | | 03/06/09 | 48.44 | 31.36 | |
| 5,596.74 | | | | 04/07/09 | 48.17 | 31.09 | |
| 5,597.55 | | | | 05/29/09 | 47.36 | 30.28 | |
| 5,598.11 | | | | 06/30/09 | 46.80 | 29.72 | |
| 5,598.22 | | | | 07/31/09 | 46.69 | 29.61 | |
| 5,598.52 | | | | 08/31/09 | 46.39 | 29.31 | |
| 5,598.49 | | | | 09/10/09 | 46.42 | 29.34 | |
| 5,599.48 | | | | 12/11/09 | 45.43 | 28.35 | |
| 5,599.75 | | | | 03/11/10 | 45.16 | 28.08 | |
| 5,599.63 | | | | 05/11/10 | 45.28 | 28.20 | |
| 5,598.68 | | | | 09/29/10 | 46.23 | 29.15 | |
| 5,598.66 | | | | 12/21/10 | 46.25 | 29.17 | |
| 5,598.18 | | | | 02/28/11 | 46.73 | 29.65 | |
| 5,598.61 | | | | 06/21/11 | 46.30 | 29.22 | |
| 5,598.08 | | | | 09/20/11 | 46.83 | 29.75 | |
| 5,598.23 | | | | 12/21/11 | 46.68 | 29.60 | |
| 5,597.41 | | | | 03/27/12 | 47.50 | 30.42 | |
| 5,597.41 | | | | 06/28/12 | 47.50 | 30.42 | |
| 5,595.60 | | | | 09/27/12 | 49.31 | 32.23 | |
| 5,597.41 | | | | 12/28/12 | 47.50 | 30.42 | |
| 5,597.43 | | | | 03/28/13 | 47.48 | 30.40 | |
| 5,587.61 | | | | 06/27/13 | 57.30 | 40.22 | |
| 5,585.91 | | | | 09/27/13 | 59.00 | 41.92 | |
| 5,561.00 | | | | 12/20/13 | 83.91 | 66.83 | |

## Water Levels and Data over Time
## White Mesa Mill - Well TW4-25

| Water Elevation (WL) | Land Surface (LSD) | Measuring Point Elevation (MP) | Length Of Riser (L) | Date Of Monitoring | Total or Measured Depth to Water (blw.MP) | Total Depth to Water (blw.LSD) | Total Depth Of Well |
|---|---|---|---|---|---|---|---|
| | 5,627.83 | 5,644.91 | 17.08 | | | | 134.8 |
| 5,584.79 | | | | 03/27/14 | 60.12 | 43.04 | |
| 5,582.44 | | | | 06/25/14 | 62.47 | 45.39 | |
| 5,583.95 | | | | 09/25/14 | 60.96 | 43.88 | |
| 5,581.13 | | | | 12/17/14 | 63.78 | 46.70 | |
| 5,587.40 | | | | 03/26/15 | 57.51 | 40.43 | |
| 5,581.91 | | | | 06/22/15 | 63.00 | 45.92 | |
| 5,581.40 | | | | 09/30/15 | 63.51 | 46.43 | |
| 5,578.42 | | | | 12/02/15 | 66.49 | 49.41 | |
| 5,579.42 | | | | 03/30/16 | 65.49 | 48.41 | |
| 5,579.25 | | | | 06/30/16 | 65.66 | 48.58 | |
| 5,579.68 | | | | 09/29/16 | 65.23 | 48.15 | |

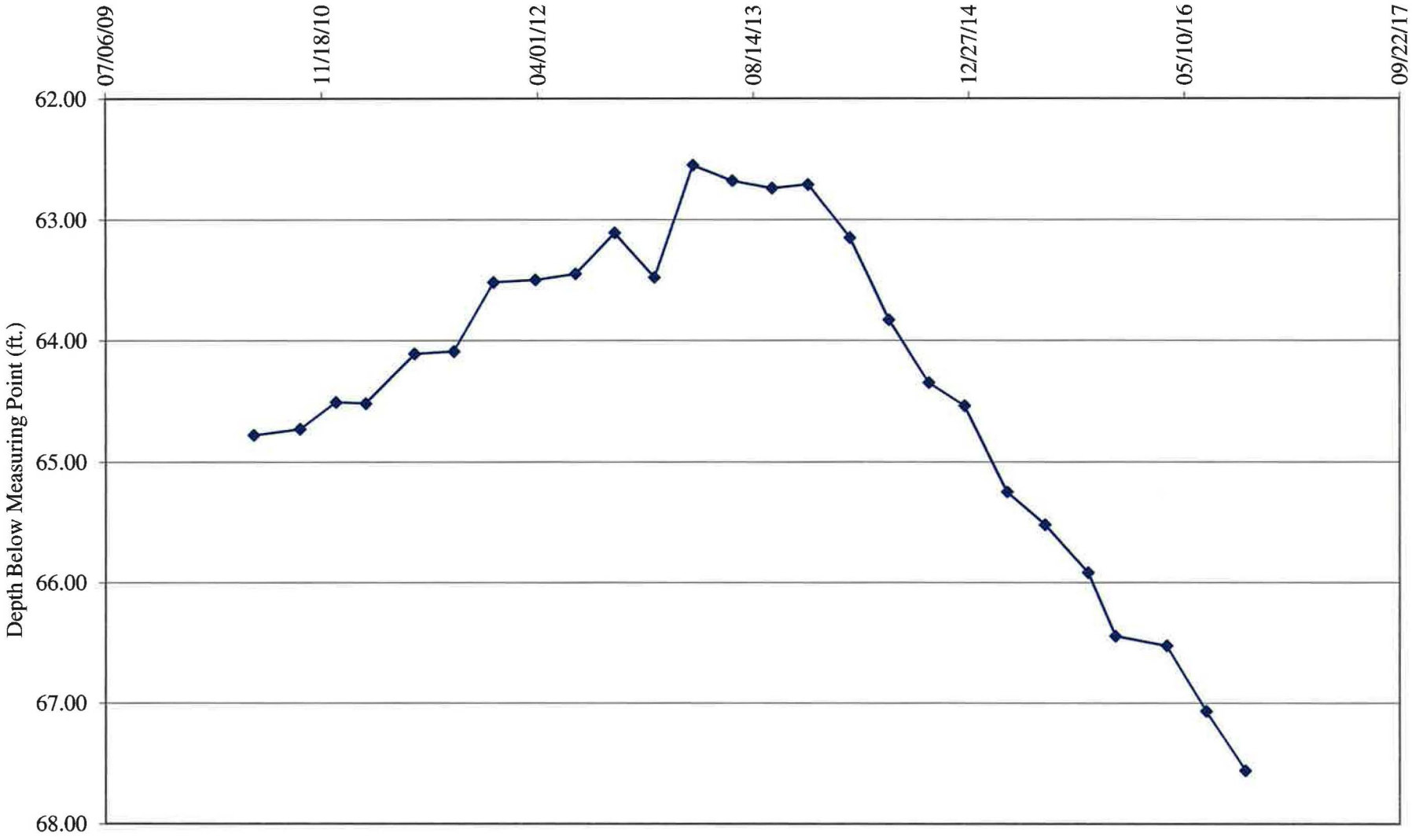
# TW4-25 Water Depth Over Time (ft. blmp)



## Water Levels and Data over Time
## White Mesa Mill - Well TW4-26

| Water Elevation (WL) | Land Surface (LSD) | Measuring Point Elevation (MP) | Length Of Riser (L) | Date Of Monitoring | Total or Measured Depth to Water (blw.MP) | Total Depth to Water (blw.LSD) | Total Depth Of Well |
|---|---|---|---|---|---|---|---|
| | 5,599.98 | 5,601.68 | 1.70 | | | | 86 |
| 5,536.90 | | | | 06/14/10 | 64.78 | 63.08 | |
| 5,536.95 | | | | 09/29/10 | 64.73 | 63.03 | |
| 5,537.17 | | | | 12/21/10 | 64.51 | 62.81 | |
| 5,537.16 | | | | 02/28/11 | 64.52 | 62.82 | |
| 5,537.57 | | | | 06/21/11 | 64.11 | 62.41 | |
| 5,537.59 | | | | 09/20/11 | 64.09 | 62.39 | |
| 5,538.16 | | | | 12/21/11 | 63.52 | 61.82 | |
| 5,538.18 | | | | 03/27/12 | 63.50 | 61.80 | |
| 5538.23 | | | | 06/28/12 | 63.45 | 61.75 | |
| 5,538.57 | | | | 09/27/12 | 63.11 | 61.41 | |
| 5,538.20 | | | | 12/28/12 | 63.48 | 61.78 | |
| 5,539.13 | | | | 03/28/13 | 62.55 | 60.85 | |
| 5,539.00 | | | | 06/27/13 | 62.68 | 60.98 | |
| 5,538.94 | | | | 09/27/13 | 62.74 | 61.04 | |
| 5,538.97 | | | | 12/20/13 | 62.71 | 61.01 | |
| 5,538.53 | | | | 03/27/14 | 63.15 | 61.45 | |
| 5,537.85 | | | | 06/25/14 | 63.83 | 62.13 | |
| 5,537.33 | | | | 09/25/14 | 64.35 | 62.65 | |
| 5,537.14 | | | | 12/17/14 | 64.54 | 62.84 | |
| 5,536.43 | | | | 03/26/15 | 65.25 | 63.55 | |
| 5,536.16 | | | | 06/22/15 | 65.52 | 63.82 | |
| 5,535.76 | | | | 09/30/15 | 65.92 | 64.22 | |
| 5,535.23 | | | | 12/02/15 | 66.45 | 64.75 | |
| 5,535.15 | | | | 03/30/16 | 66.53 | 64.83 | |
| 5,534.61 | | | | 06/30/16 | 67.07 | 65.37 | |
| 5,534.12 | | | | 09/29/16 | 67.56 | 65.86 | |

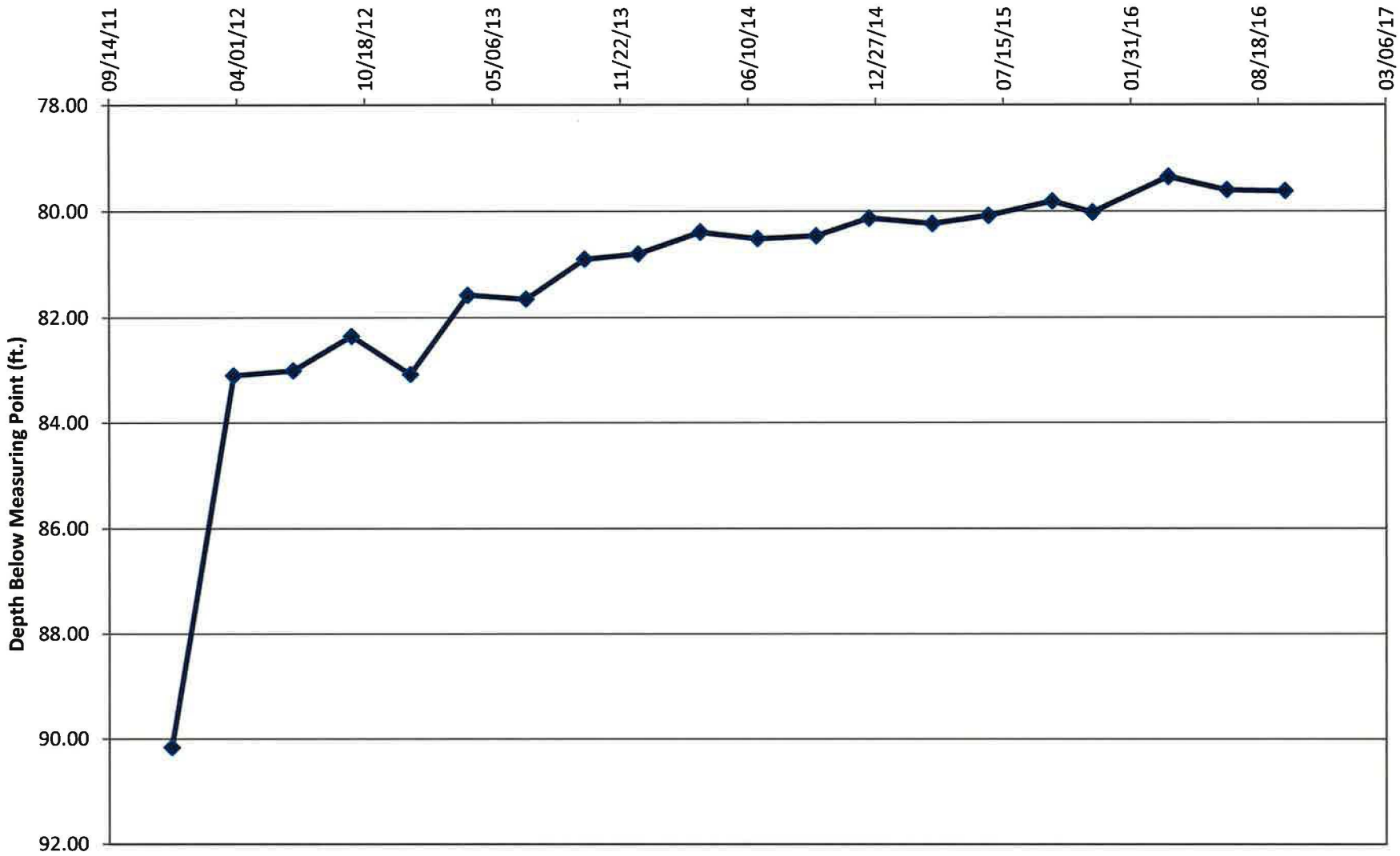
## TW4-26 Water Depth Over Time (ft. blmp)



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

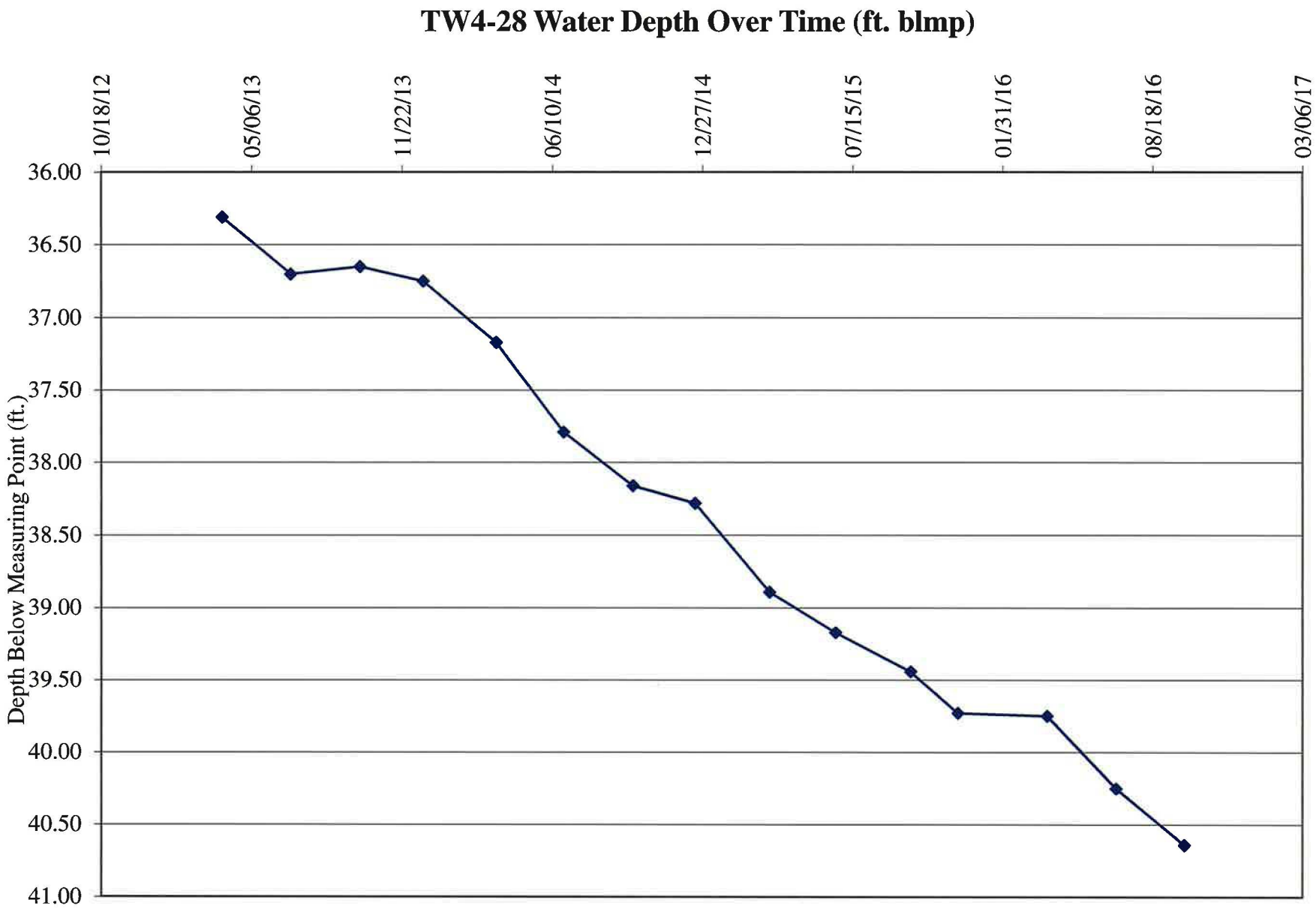
| Water Elevation (WL) | Land Surface (LSD) | Measuring Point Elevation (MP) | Length Of Riser (L) | Date Of Monitoring | Total or Measured Depth to Water (blw.MP) | Total Depth to Water (blw.LSD) | Total Depth Of Well |
|---|---|---|---|---|---|---|---|
| | 5,606.19 | 5,607.94 | 1.75 | | | | 96 |
| 5,517.78 | | | | 12/21/11 | 90.16 | 88.41 | |
| 5,524.84 | | | | 03/27/12 | 83.10 | 81.35 | |
| 5,524.93 | | | | 06/28/12 | 83.01 | 81.26 | |
| 5,525.59 | | | | 09/27/12 | 82.35 | 80.60 | |
| 5,524.86 | | | | 12/28/12 | 83.08 | 81.33 | |
| 5,526.37 | | | | 03/28/13 | 81.57 | 79.82 | |
| 5,526.29 | | | | 06/27/13 | 81.65 | 79.90 | |
| 5,527.04 | | | | 09/27/13 | 80.90 | 79.15 | |
| 5,527.14 | | | | 12/20/13 | 80.80 | 79.05 | |
| 5,527.55 | | | | 03/27/14 | 80.39 | 78.64 | |
| 5,527.43 | | | | 06/25/14 | 80.51 | 78.76 | |
| 5,527.48 | | | | 09/25/14 | 80.46 | 78.71 | |
| 5,527.81 | | | | 12/17/14 | 80.13 | 78.38 | |
| 5,527.71 | | | | 03/26/15 | 80.23 | 78.48 | |
| 5,527.86 | | | | 06/22/15 | 80.08 | 78.33 | |
| 5,528.13 | | | | 09/30/15 | 79.81 | 78.06 | |
| 5,527.92 | | | | 12/02/15 | 80.02 | 78.27 | |
| 5,528.59 | | | | 03/30/16 | 79.35 | 77.60 | |
| 5,528.34 | | | | 06/30/16 | 79.60 | 77.85 | |
| 5,528.32 | | | | 09/29/16 | 79.62 | 77.87 | |

# TW4-27 Water Depth Over Time (ft. blmp)



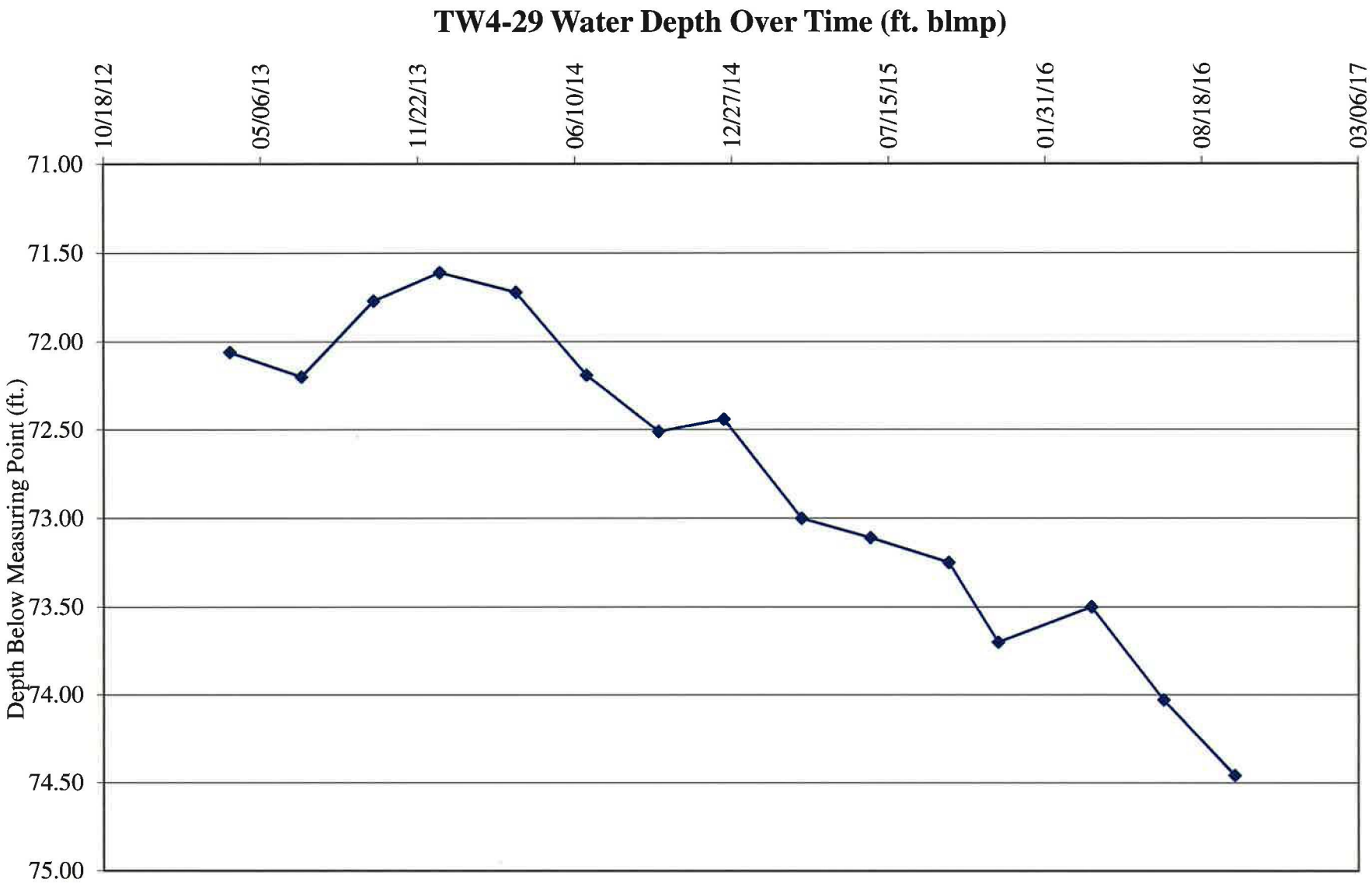
## Water Levels and Data over Time
## White Mesa Mill - Well TW4-28

| 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 |
|---|---|---|---|---|---|---|---|
| | 5,613.52 | 5,617.00 | 3.48 | | | | 105 |
| 5,580.69 | | | | 03/28/13 | 36.31 | 32.83 | |
| 5,580.30 | | | | 06/27/13 | 36.70 | 33.22 | |
| 5,580.35 | | | | 09/27/13 | 36.65 | 33.17 | |
| 5,580.25 | | | | 12/20/13 | 36.75 | 33.27 | |
| 5,579.83 | | | | 03/27/14 | 37.17 | 33.69 | |
| 5,579.21 | | | | 06/25/14 | 37.79 | 34.31 | |
| 5,578.84 | | | | 09/25/14 | 38.16 | 34.68 | |
| 5,578.72 | | | | 12/17/14 | 38.28 | 34.80 | |
| 5,578.11 | | | | 03/26/15 | 38.89 | 35.41 | |
| 5,577.83 | | | | 06/22/15 | 39.17 | 35.69 | |
| 5,577.56 | | | | 09/30/15 | 39.44 | 35.96 | |
| 5,577.27 | | | | 12/02/15 | 39.73 | 36.25 | |
| 5,577.25 | | | | 03/30/16 | 39.75 | 36.27 | |
| 5,576.75 | | | | 06/30/16 | 40.25 | 36.77 | |
| 5,576.36 | | | | 09/29/16 | 40.64 | 37.16 | |


TW4-28 Water Depth Over Time (ft. blmp)
10/18/12
05/06/13
11/22/13
06/10/14
12/27/14
07/15/15
01/31/16
08/18/16
03/06/17
36.00
36.50
37.00
37.50
38.00
38.50
39.00
39.50
40.00
40.50
41.00
Depth Below Measuring Point (ft.)

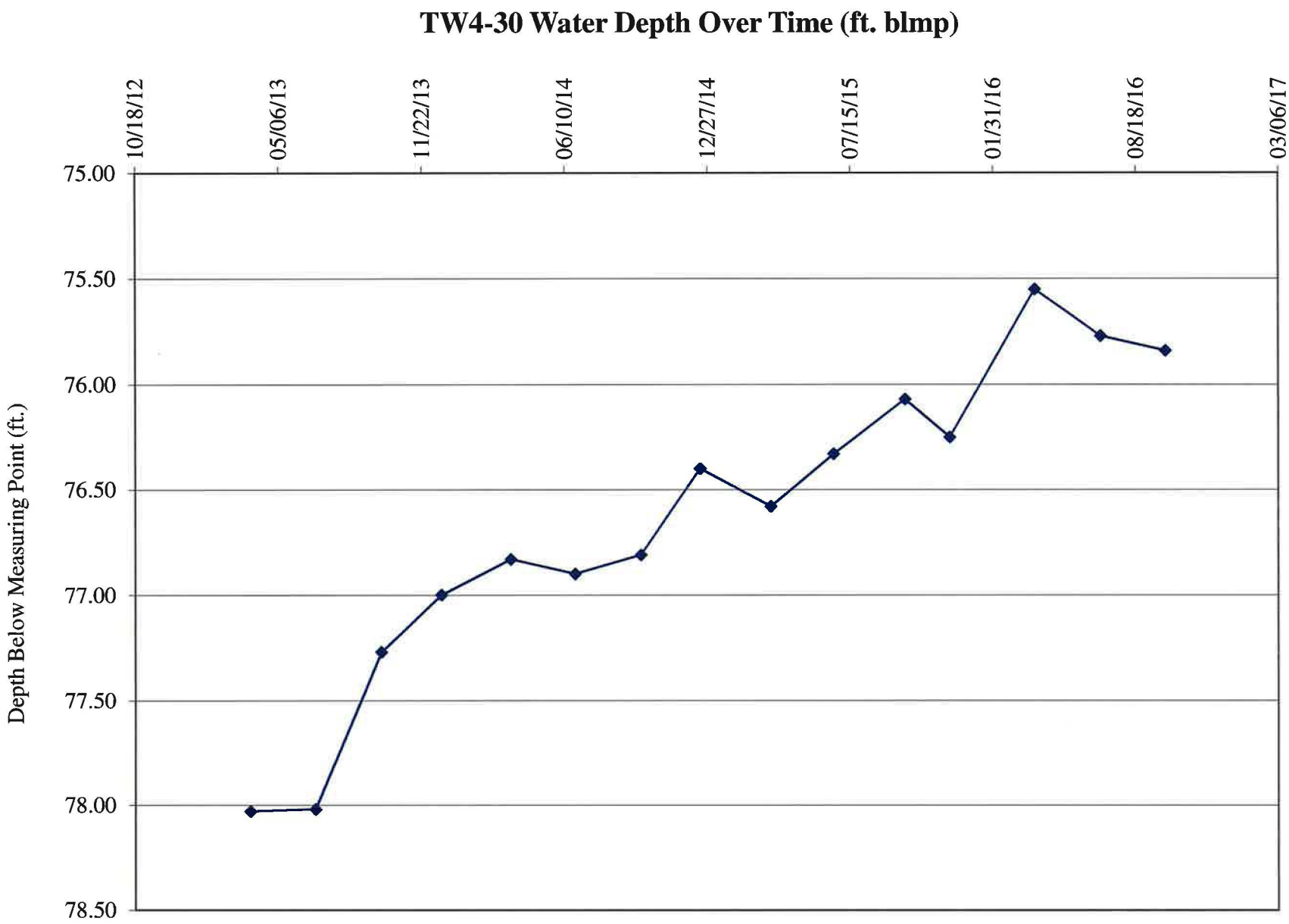
# Water Levels and Data over Time
# White Mesa Mill - Well TW4-29

| 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 |
|---|---|---|---|---|---|---|---|
| | 5,602.56 | 5,606.04 | 3.48 | | | | 105 |
| 5,533.98 | | | | 03/28/13 | 72.06 | 68.58 | |
| 5,533.84 | | | | 06/27/13 | 72.20 | 68.72 | |
| 5,534.27 | | | | 09/27/13 | 71.77 | 68.29 | |
| 5,534.43 | | | | 12/20/13 | 71.61 | 68.13 | |
| 5,534.32 | | | | 03/27/14 | 71.72 | 68.24 | |
| 5,533.85 | | | | 06/25/14 | 72.19 | 68.71 | |
| 5,533.53 | | | | 09/25/14 | 72.51 | 69.03 | |
| 5,533.60 | | | | 12/17/14 | 72.44 | 68.96 | |
| 5,533.04 | | | | 03/26/15 | 73.00 | 69.52 | |
| 5,532.93 | | | | 06/22/15 | 73.11 | 69.63 | |
| 5,532.79 | | | | 09/30/15 | 73.25 | 69.77 | |
| 5,532.34 | | | | 12/02/15 | 73.70 | 70.22 | |
| 5,532.54 | | | | 03/30/16 | 73.50 | 70.02 | |
| 5,532.01 | | | | 06/30/16 | 74.03 | 70.55 | |
| 5,531.58 | | | | 09/29/16 | 74.46 | 70.98 | |


TW4-29 Water Depth Over Time (ft. blmp)
10/18/12
05/06/13
11/22/13
06/10/14
12/27/14
07/15/15
01/31/16
08/18/16
03/06/17
71.00
71.50
72.00
72.50
73.00
73.50
74.00
74.50
75.00
Depth Below Measuring Point (ft.)

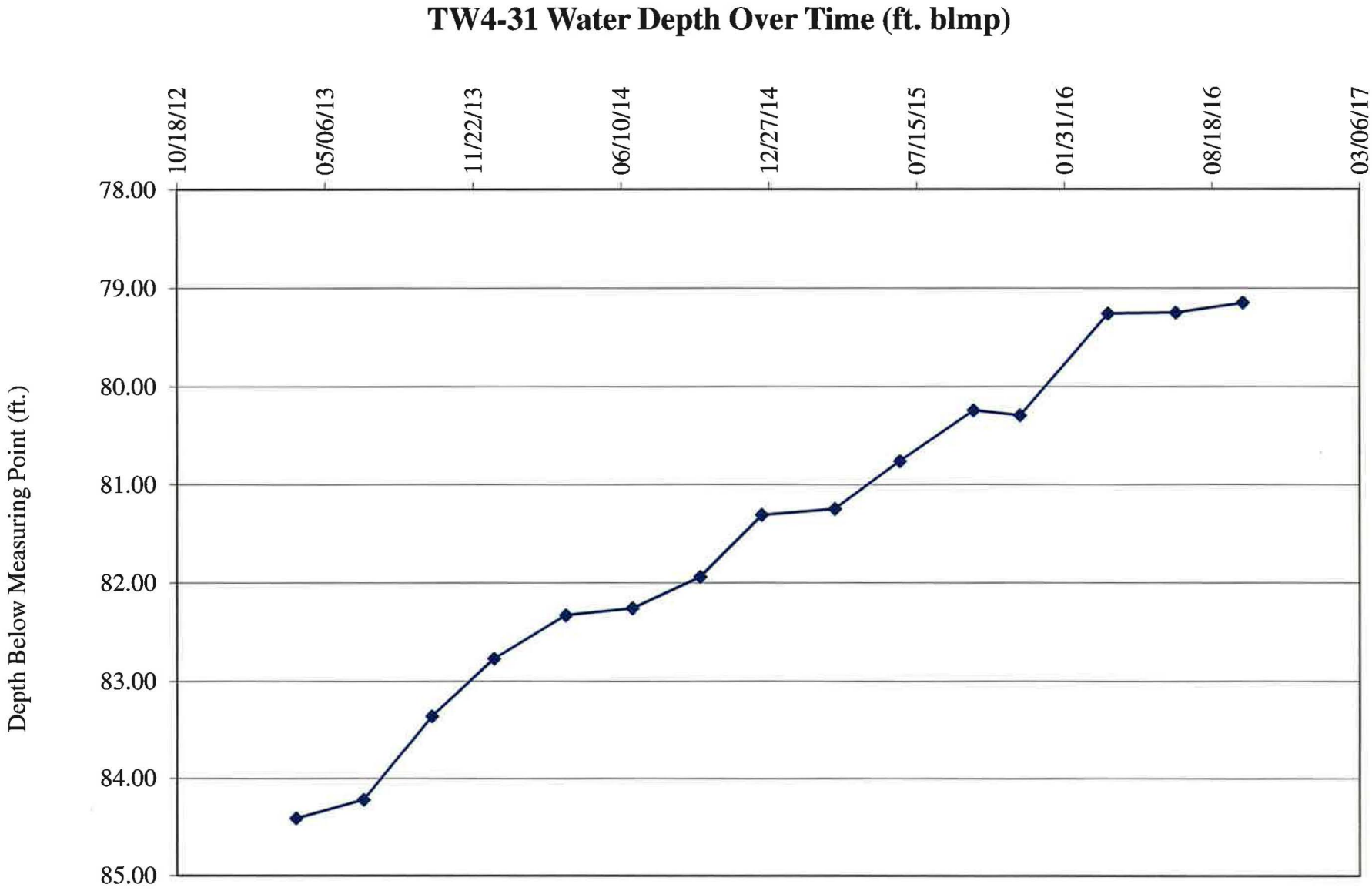
## Water Levels and Data over Time
## White Mesa Mill - Well TW4-30

| Water Elevation (WL) | Land Surface (LSD) | Measuring Point Elevation (MP) | Length Of Riser (L) | Date Of Monitoring | Total or Measured Depth to Water (blw.MP) | Total Depth to Water (blw.LSD) | Total Depth Of Well |
|---|---|---|---|---|---|---|---|
| | 5,599.33 | 5,602.81 | 3.48 | | | | 105 |
| 5,524.78 | | | | 03/28/13 | 78.03 | 74.55 | |
| 5,524.79 | | | | 06/27/13 | 78.02 | 74.54 | |
| 5,525.54 | | | | 09/27/13 | 77.27 | 73.79 | |
| 5,525.81 | | | | 12/20/13 | 77.00 | 73.52 | |
| 5,525.98 | | | | 03/27/14 | 76.83 | 73.35 | |
| 5,525.91 | | | | 06/25/14 | 76.90 | 73.42 | |
| 5,526.00 | | | | 09/25/14 | 76.81 | 73.33 | |
| 5,526.41 | | | | 12/17/14 | 76.40 | 72.92 | |
| 5,526.23 | | | | 03/26/15 | 76.58 | 73.10 | |
| 5,526.48 | | | | 06/22/15 | 76.33 | 72.85 | |
| 5,526.74 | | | | 09/30/15 | 76.07 | 72.59 | |
| 5,526.56 | | | | 12/02/15 | 76.25 | 72.77 | |
| 5,527.26 | | | | 03/30/16 | 75.55 | 72.07 | |
| 5,527.04 | | | | 06/30/16 | 75.77 | 72.29 | |
| 5,526.97 | | | | 09/29/16 | 75.84 | 72.36 | |


TW4-30 Water Depth Over Time (ft. blmp)
10/18/12
05/06/13
11/22/13
06/10/14
12/27/14
07/15/15
01/31/16
08/18/16
03/06/17
75.00
75.50
76.00
76.50
77.00
77.50
78.00
78.50
Depth Below Measuring Point (ft.)

## Water Levels and Data over Time
## White Mesa Mill - Well TW4-31

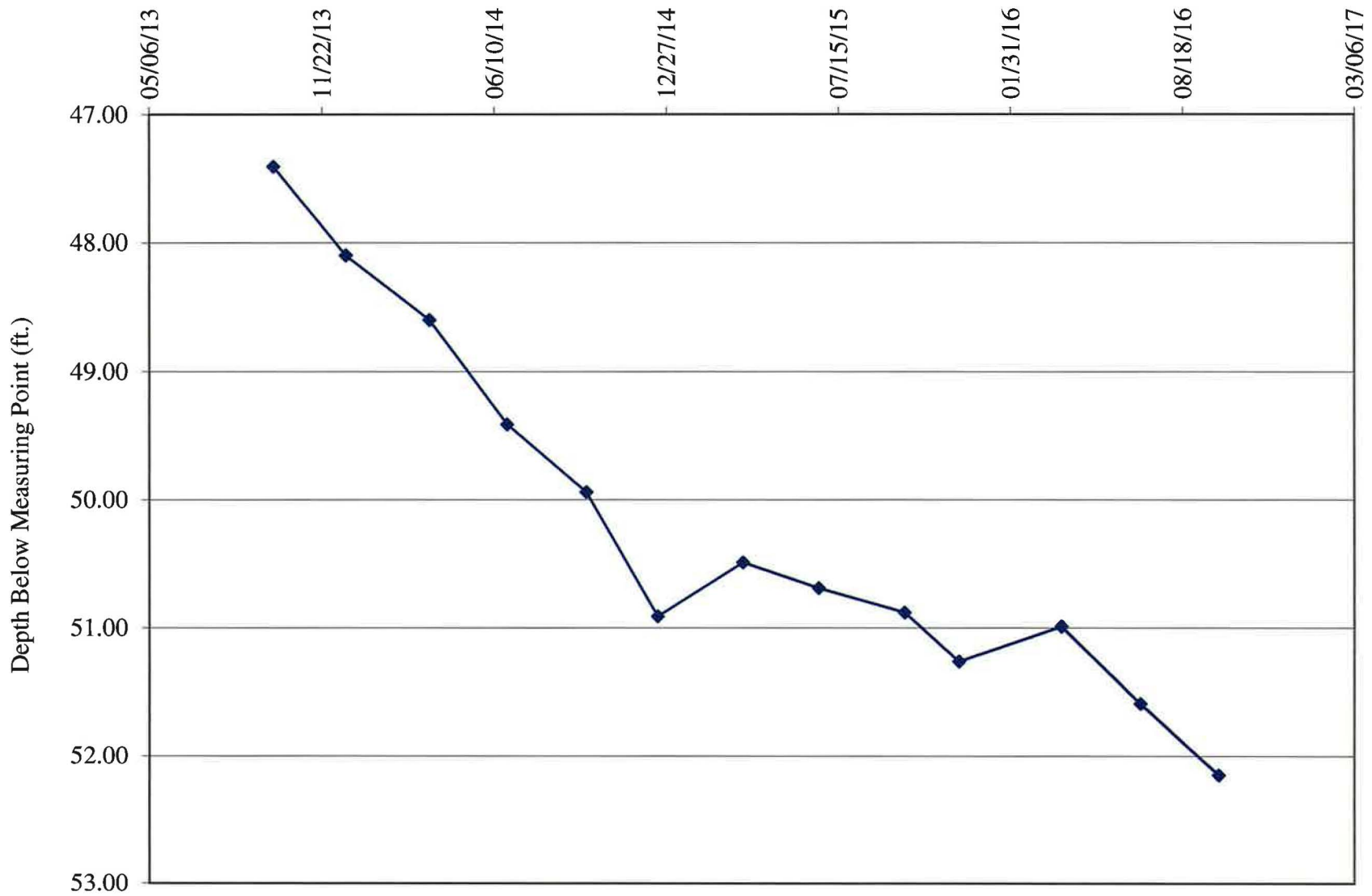
| Water Elevation (WL) | Land Surface (LSD) | Measuring Point Elevation (MP) | Length Of Riser (L) | Date Of Monitoring | Total or Measured Depth to Water (blw.MP) | Total Depth to Water (blw.LSD) | Total Depth Of Well |
|---|---|---|---|---|---|---|---|
| | 5,601.10 | 5,604.58 | 3.48 | | | | 105 |
| 5,520.17 | | | | 03/28/13 | 84.41 | 80.93 | |
| 5,520.36 | | | | 06/27/13 | 84.22 | 80.74 | |
| 5,521.22 | | | | 09/27/13 | 83.36 | 79.88 | |
| 5,521.81 | | | | 12/20/13 | 82.77 | 79.29 | |
| 5,522.25 | | | | 03/27/14 | 82.33 | 78.85 | |
| 5,522.32 | | | | 06/25/14 | 82.26 | 78.78 | |
| 5,522.64 | | | | 09/25/14 | 81.94 | 78.46 | |
| 5,523.27 | | | | 12/17/14 | 81.31 | 77.83 | |
| 5,523.33 | | | | 03/26/15 | 81.25 | 77.77 | |
| 5,523.82 | | | | 06/22/15 | 80.76 | 77.28 | |
| 5,524.34 | | | | 09/30/15 | 80.24 | 76.76 | |
| 5,524.29 | | | | 12/02/15 | 80.29 | 76.81 | |
| 5,525.32 | | | | 03/30/16 | 79.26 | 75.78 | |
| 5,525.33 | | | | 06/30/16 | 79.25 | 75.77 | |
| 5,525.43 | | | | 09/29/16 | 79.15 | 75.67 | |


TW4-31 Water Depth Over Time (ft. blmp)
Depth Below Measuring Point (ft.)
10/18/12
05/06/13
11/22/13
06/10/14
12/27/14
07/15/15
01/31/16
08/18/16
03/06/17
78.00
79.00
80.00
81.00
82.00
83.00
84.00
85.00

## Water Levels and Data over Time
## White Mesa Mill - Well TW4-32

| Water Elevation (WL) | Land Surface (LSD) | Measuring Point Elevation (MP) | Length Of Riser (L) | Date Of Monitoring | Total or Measured Depth to Water (blw.MP) | Total Depth to Water (blw.LSD) | Total Depth Of Well |
|---|---|---|---|---|---|---|---|
| | 5,610.20 | 5,611.84 | 1.64 | | | | 113 |
| 5,564.43 | | | | 09/27/13 | 47.41 | 45.77 | |
| 5,563.74 | | | | 12/20/13 | 48.10 | 46.46 | |
| 5,563.24 | | | | 03/27/14 | 48.60 | 46.96 | |
| 5,562.43 | | | | 06/25/14 | 49.41 | 47.77 | |
| 5,561.90 | | | | 09/25/14 | 49.94 | 48.30 | |
| 5,560.93 | | | | 12/17/14 | 50.91 | 49.27 | |
| 5,561.35 | | | | 03/26/15 | 50.49 | 48.85 | |
| 5,561.15 | | | | 06/22/15 | 50.69 | 49.05 | |
| 5,560.96 | | | | 09/30/15 | 50.88 | 49.24 | |
| 5,560.58 | | | | 12/02/15 | 51.26 | 49.62 | |
| 5,560.85 | | | | 03/30/16 | 50.99 | 49.35 | |
| 5,560.25 | | | | 06/30/16 | 51.59 | 49.95 | |
| 5,559.69 | | | | 09/29/16 | 52.15 | 50.51 | |

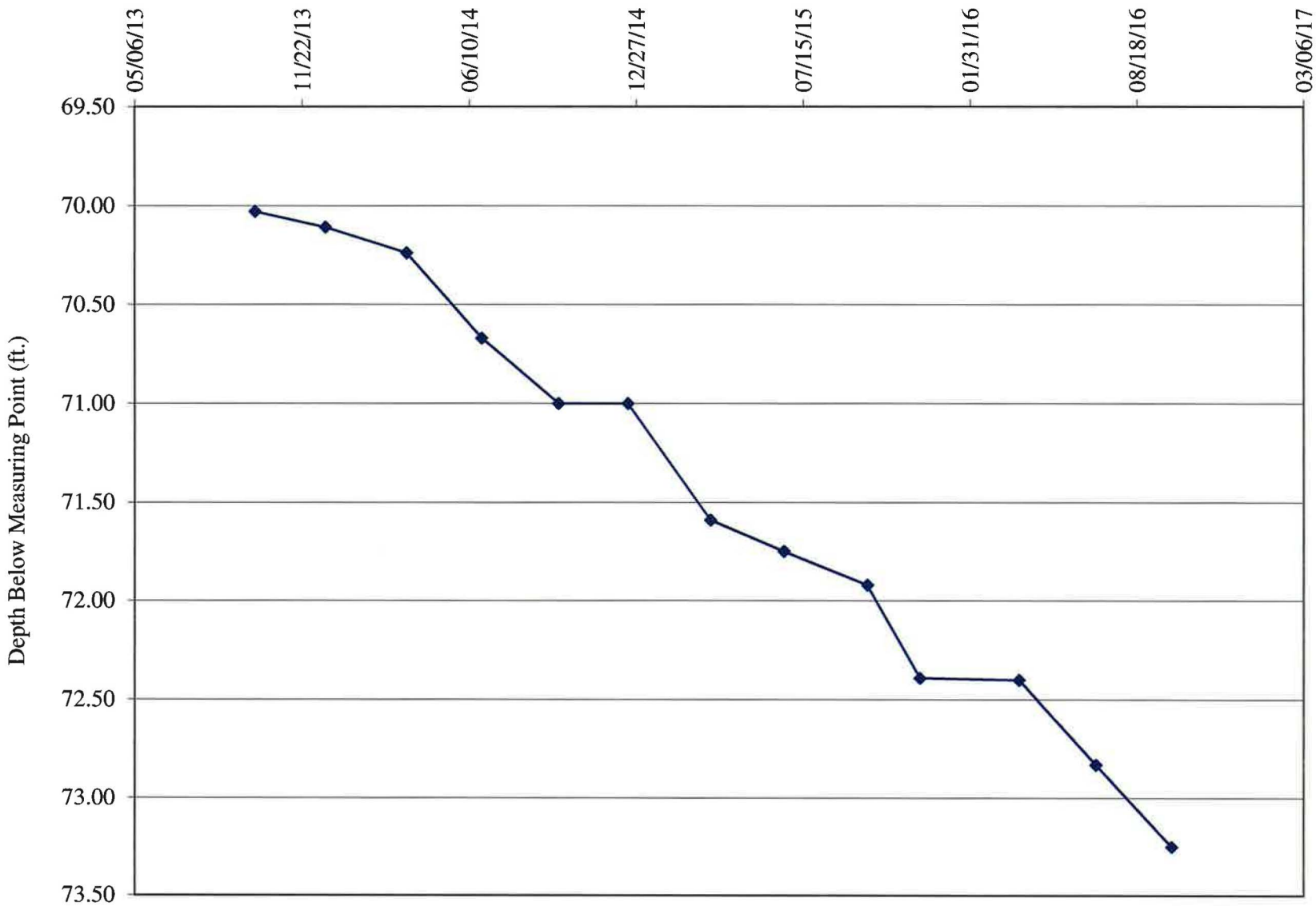
## TW4-32 Water Depth Over Time (ft. blmp)



## Water Levels and Data over Time
## White Mesa Mill - Well TW4-33

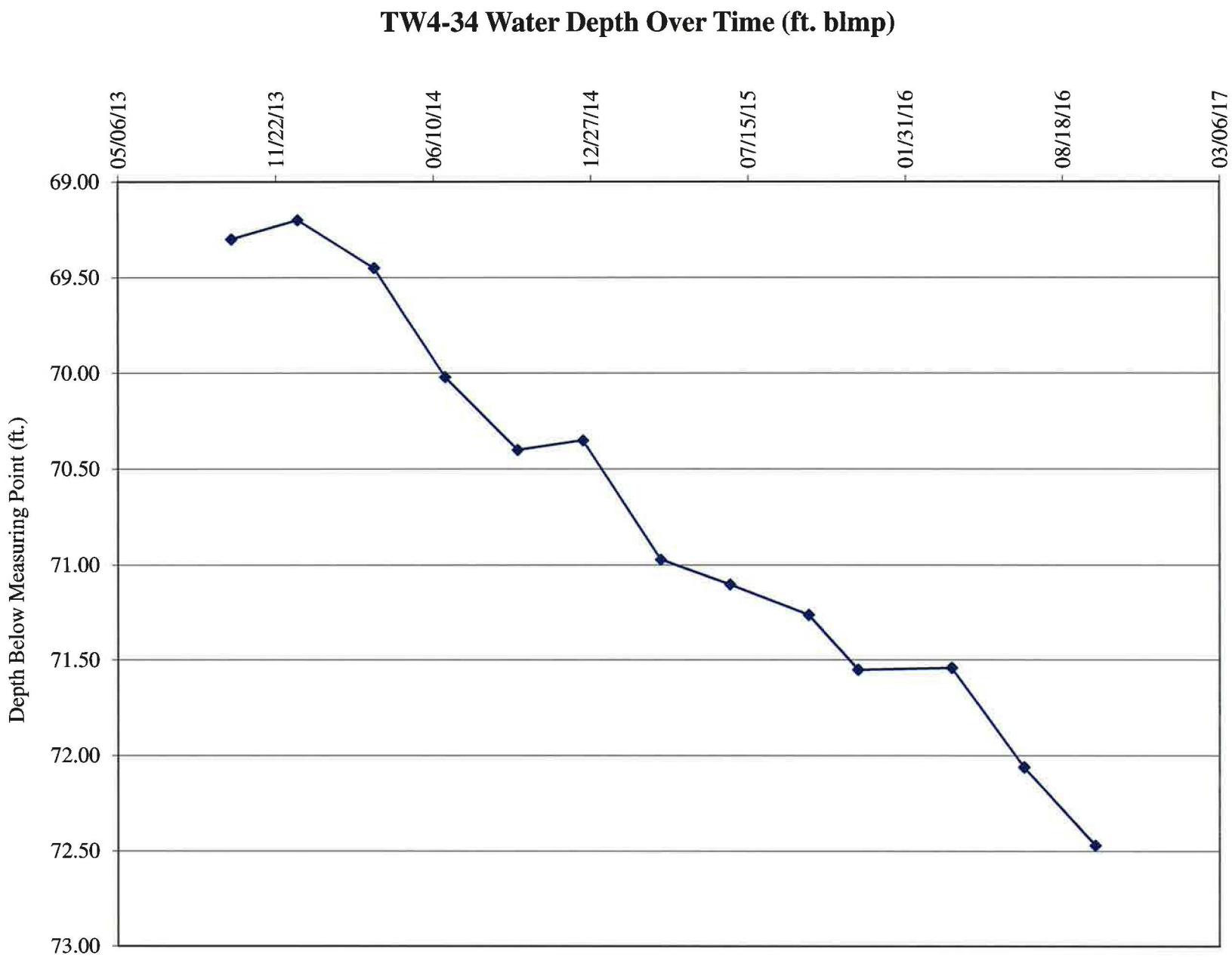
| Water Elevation (WL) | Land Surface (LSD) | Measuring Point Elevation (MP) | Length Of Riser (L) | Date Of Monitoring | Total or Measured Depth to Water (blw.MP) | Total Depth to Water (blw.LSD) | Total Depth Of Well |
|---|---|---|---|---|---|---|---|
| | 5,605.20 | 5,606.73 | 1.53 | | | | 84.7 |
| 5,536.70 | | | | 09/27/13 | 70.03 | 68.50 | |
| 5,536.62 | | | | 12/20/13 | 70.11 | 68.58 | |
| 5,536.49 | | | | 03/27/14 | 70.24 | 68.71 | |
| 5,536.06 | | | | 06/25/14 | 70.67 | 69.14 | |
| 5,535.73 | | | | 09/25/14 | 71.00 | 69.47 | |
| 5,535.73 | | | | 12/17/14 | 71.00 | 69.47 | |
| 5,535.14 | | | | 03/26/15 | 71.59 | 70.06 | |
| 5,534.98 | | | | 06/22/15 | 71.75 | 70.22 | |
| 5,534.81 | | | | 09/30/15 | 71.92 | 70.39 | |
| 5,534.34 | | | | 12/02/15 | 72.39 | 70.86 | |
| 5,534.33 | | | | 03/30/16 | 72.40 | 70.87 | |
| 5,533.90 | | | | 06/30/16 | 72.83 | 71.30 | |
| 5,533.48 | | | | 09/29/16 | 73.25 | 71.72 | |

## TW4-33 Water Depth Over Time (ft. blmp)



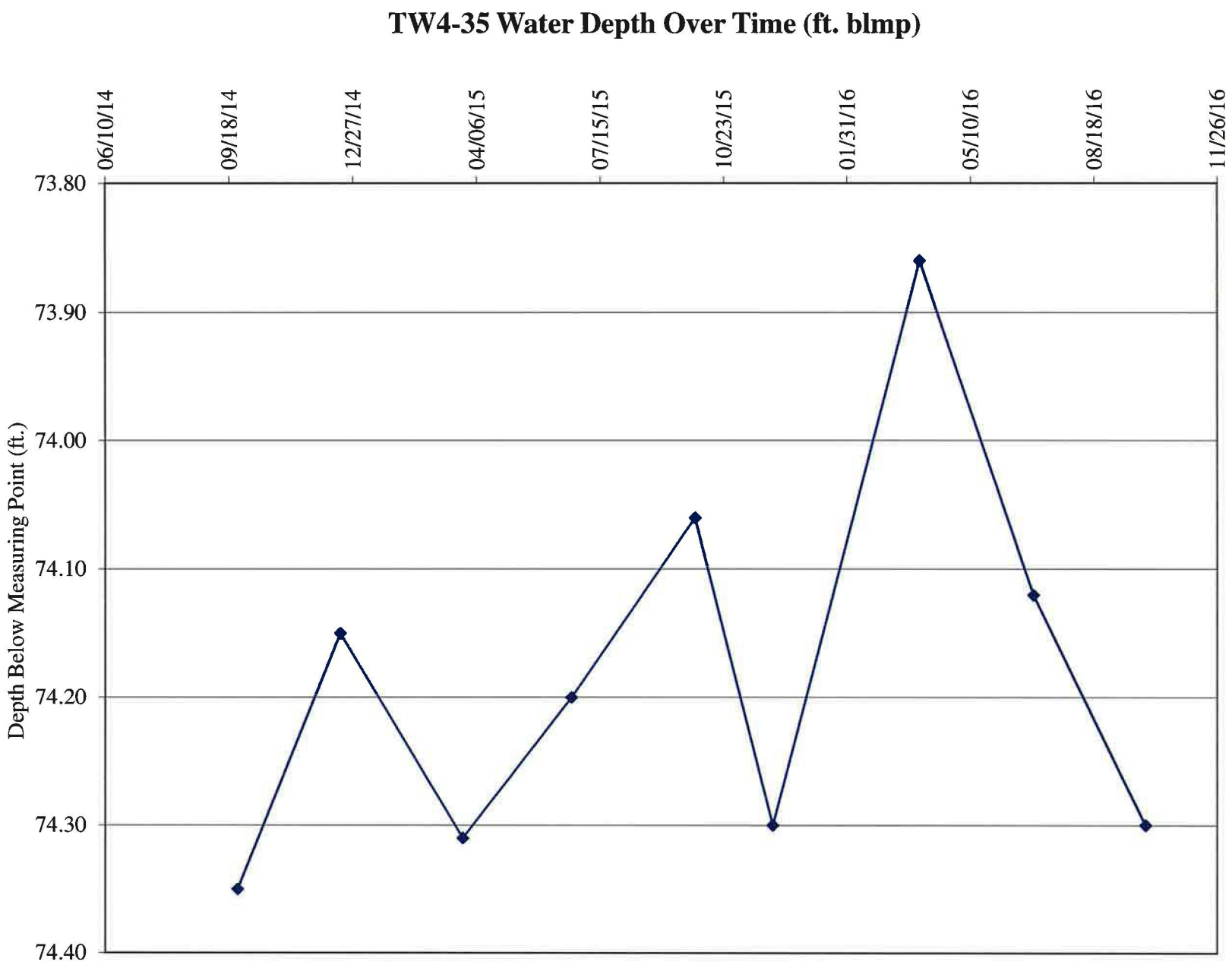
## Water Levels and Data over Time
## White Mesa Mill - Well TW4-34

| 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 |
|---|---|---|---|---|---|---|---|
| | 5,601.60 | 5,603.34 | 1.74 | | | | 94 |
| 5,534.04 | | | | 09/27/13 | 69.30 | 67.56 | |
| 5,534.14 | | | | 12/20/13 | 69.20 | 67.46 | |
| 5,533.89 | | | | 03/27/14 | 69.45 | 67.71 | |
| 5,533.32 | | | | 06/25/14 | 70.02 | 68.28 | |
| 5,532.94 | | | | 09/25/14 | 70.40 | 68.66 | |
| 5,532.99 | | | | 12/17/14 | 70.35 | 68.61 | |
| 5,532.37 | | | | 03/26/15 | 70.97 | 69.23 | |
| 5,532.24 | | | | 06/22/15 | 71.10 | 69.36 | |
| 5,532.08 | | | | 09/30/15 | 71.26 | 69.52 | |
| 5,531.79 | | | | 12/02/15 | 71.55 | 69.81 | |
| 5,531.80 | | | | 03/30/16 | 71.54 | 69.80 | |
| 5,531.28 | | | | 06/30/16 | 72.06 | 70.32 | |
| 5,530.87 | | | | 09/29/16 | 72.47 | 70.73 | |


TW4-34 Water Depth Over Time (ft. blmp)
05/06/13
11/22/13
06/10/14
12/27/14
07/15/15
01/31/16
08/18/16
03/06/17
69.00
69.50
70.00
70.50
71.00
71.50
72.00
72.50
73.00
Depth Below Measuring Point (ft.)

## Water Levels and Data over Time
## White Mesa Mill - Well TW4-35

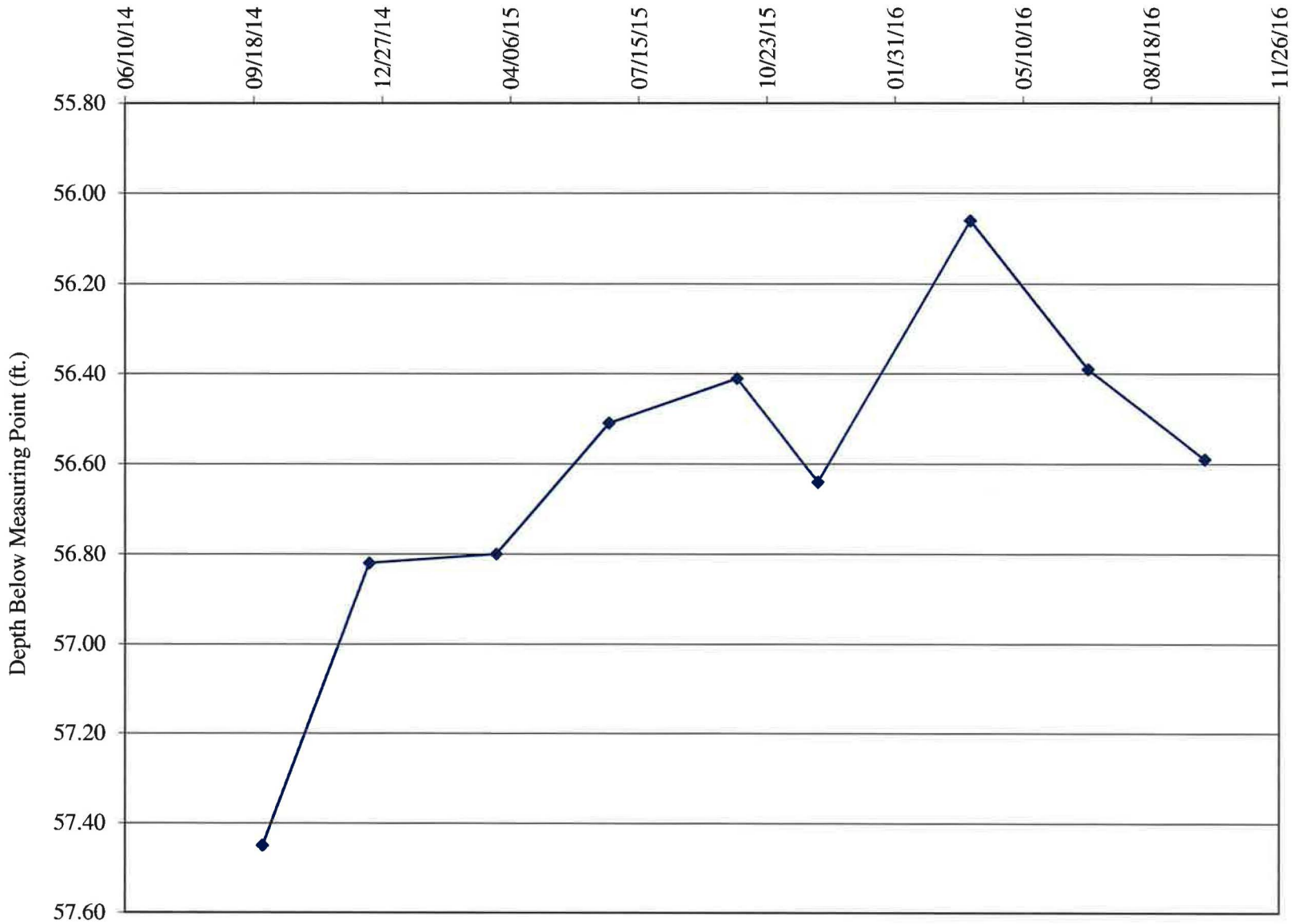
| Water Elevation (WL) | Land Surface (LSD) | Measuring Point Elevation (MP) | Length Of Riser (L) | Date Of Monitoring | Total or Measured Depth to Water (blw.MP) | Total Depth to Water (blw.LSD) | Total Depth Of Well |
|---|---|---|---|---|---|---|---|
| | 5,598.67 | 5,599.87 | 1.20 | | | | 85.3 |
| 5,525.52 | | | | 09/25/14 | 74.35 | 73.15 | |
| 5,525.72 | | | | 12/17/14 | 74.15 | 72.95 | |
| 5,525.56 | | | | 03/26/15 | 74.31 | 73.11 | |
| 5,525.67 | | | | 06/22/15 | 74.20 | 73.00 | |
| 5,525.81 | | | | 09/30/15 | 74.06 | 72.86 | |
| 5,525.57 | | | | 12/02/15 | 74.30 | 73.10 | |
| 5,526.01 | | | | 03/30/16 | 73.86 | 72.66 | |
| 5,525.75 | | | | 06/30/16 | 74.12 | 72.92 | |
| 5,525.57 | | | | 09/29/16 | 74.30 | 73.10 | |


TW4-35 Water Depth Over Time (ft. blmp)
06/10/14
09/18/14
12/27/14
04/06/15
07/15/15
10/23/15
01/31/16
05/10/16
08/18/16
11/26/16
73.80
73.90
74.00
74.10
74.20
74.30
74.40
Depth Below Measuring Point (ft.)

# Water Levels and Data over Time
# White Mesa Mill - Well TW4-36

| 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 |
|---|---|---|---|---|---|---|---|
| | 5,615.18 | 5,616.59 | 1.41 | | | | 98 |
| 5,559.14 | | | | 09/25/14 | 57.45 | 56.04 | |
| 5,559.77 | | | | 12/17/14 | 56.82 | 55.41 | |
| 5,559.79 | | | | 03/26/15 | 56.80 | 55.39 | |
| 5,560.08 | | | | 06/22/15 | 56.51 | 55.10 | |
| 5,560.18 | | | | 09/30/15 | 56.41 | 55.00 | |
| 5,559.95 | | | | 12/02/15 | 56.64 | 55.23 | |
| 5,560.53 | | | | 03/30/16 | 56.06 | 54.65 | |
| 5,560.20 | | | | 06/30/16 | 56.39 | 54.98 | |
| 5,560.00 | | | | 09/29/16 | 56.59 | 55.18 | |

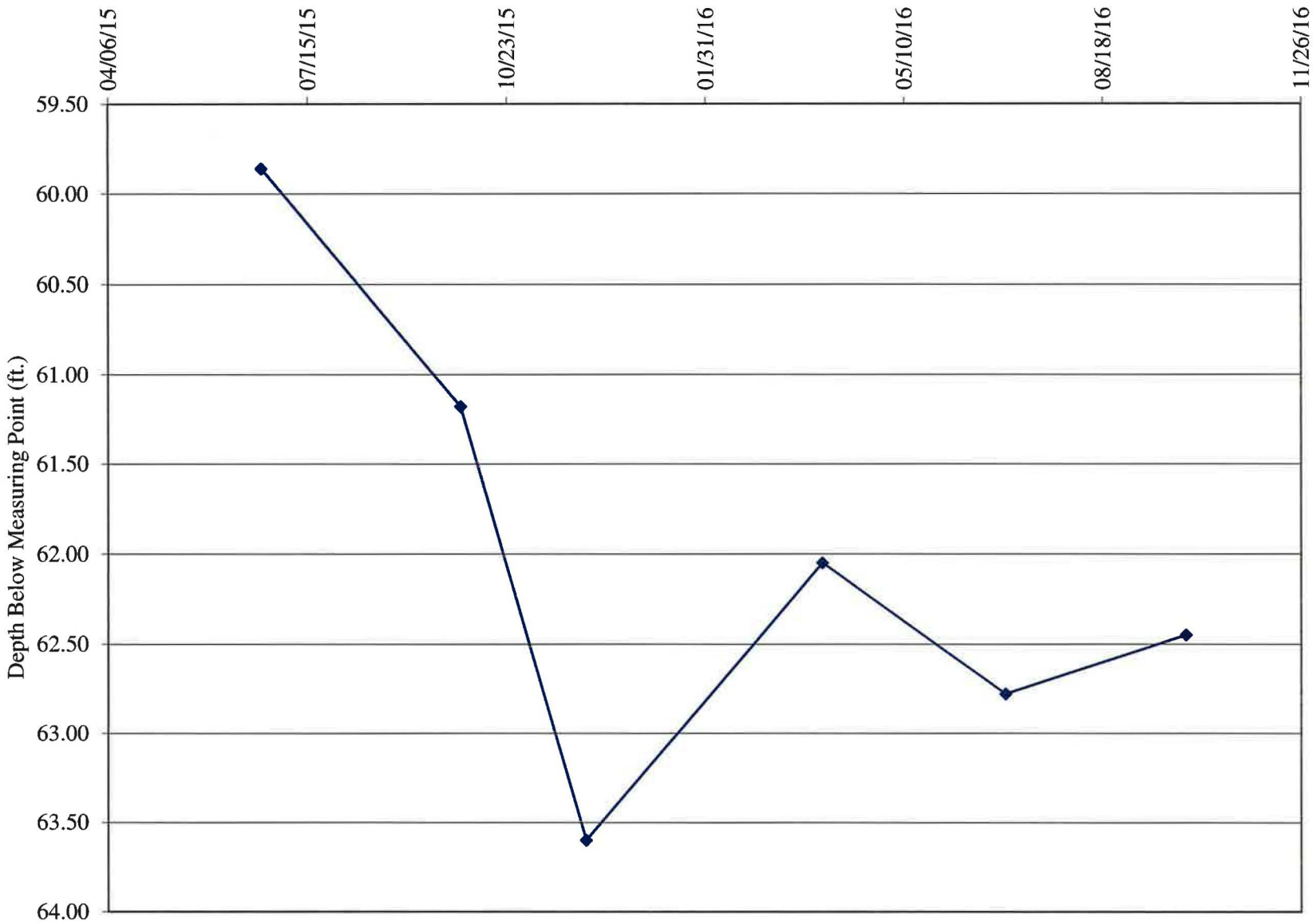
## TW4-36 Water Depth Over Time (ft. blmp)



## Water Levels and Data over Time
## White Mesa Mill - Well TW4-37

| 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 |
|---|---|---|---|---|---|---|---|
| | 5,630.13 | 5,631.85 | 1.72 | | | | 112 |
| 5,571.99 | | | | 06/22/15 | 59.86 | 58.14 | |
| 5,570.67 | | | | 09/30/15 | 61.18 | 59.46 | |
| 5,568.25 | | | | 12/02/15 | 63.60 | 61.88 | |
| 5,569.80 | | | | 03/30/16 | 62.05 | 60.33 | |
| 5,569.07 | | | | 06/30/16 | 62.78 | 61.06 | |
| 5,569.40 | | | | 09/29/16 | 62.45 | 60.73 | |

## TW4-37 Water Depth Over Time (ft. blmp)



Tab G

Chloroform Mass Removed and Volume Pumped in Chloroform Pumping Wells Over Time

Table G-1
Quarterly Calculation of Chloroform Removed and Total Volume of Water Pumped

| | MW-4 | | | | | | TW4-15 (formerly MW-26) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Quarter | Total Pumped (gal) | Conc | Total Pumped (liters) | Total (ug) | Total (grams) | Total (pounds) | Total Pumped (gal) | Conc | Total Pumped (liters) | Total (ug) | Total (grams) | Total (pounds) |
| Q1 2007 | 1307110 | 3370.0 | 4947411.4 | 1.667E+10 | 16673 | 36.8 | 930510 | 1660.0 | 3521980.4 | 5.846E+09 | 5846 | 12.9 |
| Q2 2007 | 81230 | 2000.0 | 307455.6 | 614911100 | 615 | 1.4 | 54400 | 300.0 | 205904.0 | 61771200 | 62 | 0.1 |
| Q3 2007 | 100700 | 2600.0 | 381149.5 | 990988700 | 991 | 2.2 | 72080 | 1400.0 | 272822.8 | 381951920 | 382 | 0.8 |
| Q4 2007 | 90830 | 2300.0 | 343791.6 | 790720565 | 791 | 1.7 | 61750 | 2000.0 | 233723.8 | 467447500 | 467 | 1.0 |
| Q1 2008 | 83950 | 2400.0 | 317750.8 | 762601800 | 763 | 1.7 | 47780 | 930.0 | 180847.3 | 168187989 | 168 | 0.4 |
| Q2 2008 | 62780 | 2500.0 | 237622.3 | 594055750 | 594 | 1.3 | 44840 | 1300.0 | 169719.4 | 220635220 | 221 | 0.5 |
| Q3 2008 | 81400 | 1800.0 | 308099.0 | 554578200 | 555 | 1.2 | 61280 | 630.0 | 231944.8 | 146125224 | 146 | 0.3 |
| Q4 2008 | 91320 | 1700.0 | 345646.2 | 587598540 | 588 | 1.3 | 55700 | 630.0 | 210824.5 | 132819435 | 133 | 0.3 |
| Q1 2009 | 90710 | 2200.0 | 343337.4 | 755342170 | 755 | 1.7 | 52970 | 950.0 | 200491.5 | 190466878 | 190 | 0.4 |
| Q2 2009 | 450040 | 1800.0 | 1703401.4 | 3.066E+09 | 3066 | 6.8 | 58050 | 410.0 | 219719.3 | 90084893 | 90 | 0.2 |
| Q3 2009 | 90420 | 2000.0 | 342239.7 | 684479400 | 684 | 1.5 | 57610 | 850.0 | 218053.9 | 185345773 | 185 | 0.4 |
| Q4 2009 | 322380 | 1800.0 | 1220208.3 | 2.196E+09 | 2196 | 4.8 | 61960 | 1100.0 | 234518.6 | 257970460 | 258 | 0.6 |
| Q1 2010 | 68125 | 1600.0 | 257853.1 | 412565000 | 413 | 0.9 | 61320 | 780.0 | 232096.2 | 181035036 | 181 | 0.4 |
| Q2 2010 | 84005.33 | 2100.0 | 317960.2 | 667716366 | 668 | 1.5 | 60500 | 1900.0 | 228992.5 | 435085750 | 435 | 1.0 |
| Q3 2010 | 79859.1 | 1900.0 | 302266.7 | 574306718 | 574 | 1.3 | 63850 | 2200.0 | 241672.3 | 531678950 | 532 | 1.2 |
| Q4 2010 | 90042.2 | 1500.0 | 340809.7 | 511214591 | 511 | 1.1 | 60180 | 970.0 | 227781.3 | 220947861 | 221 | 0.5 |
| Q1 2011 | 76247.6 | 1700.0 | 288597.2 | 490615182 | 491 | 1.1 | 55130 | 450.0 | 208667.1 | 93900173 | 94 | 0.2 |
| Q2 2011 | 85849.3 | 1700.0 | 324939.6 | 552397321 | 552 | 1.2 | 55800.6 | 1800.0 | 211205.3 | 380169488 | 380 | 0.8 |
| Q3 2011 | 85327.7 | 1700.0 | 322965.3 | 549041086 | 549 | 1.2 | 65618 | 720.0 | 248364.1 | 178822174 | 179 | 0.4 |
| Q4 2011 | 89735.0 | 1600.0 | 339647.0 | 543435160 | 543 | 1.2 | 50191.3 | 1800.0 | 189974.1 | 341953327 | 342 | 0.8 |
| Q1 2012 | 90376.4 | 1500.0 | 342074.7 | 513112011 | 513 | 1.1 | 31440.1 | 2400.0 | 119000.8 | 285601868 | 286 | 0.6 |
| Q2 2012 | 90916.5 | 1400.0 | 344118.8 | 481766269 | 482 | 1.1 | 26701.2 | 3000.0 | 101064.1 | 303192353 | 303 | 0.7 |
| Q3 2012 | 91607.0 | 1500.0 | 346732.5 | 520098743 | 520 | 1.1 | 25246 | 3100.0 | 95556.1 | 296223941 | 296 | 0.7 |
| Q4 2012 | 78840.0 | 1300.0 | 298409.4 | 387932220 | 388 | 0.9 | 30797 | 1200.0 | 116566.6 | 139879974 | 140 | 0.3 |
| Q1 2013 | 62943.7 | 1670.0 | 238241.9 | 397863981 | 398 | 0.9 | 22650.7 | 2120.0 | 85732.9 | 181753747 | 182 | 0.4 |
| Q2 2013 | 71187.3 | 1490.0 | 269443.9 | 401471456 | 401 | 0.9 | 25343.4 | 4030.0 | 95924.8 | 386576819 | 387 | 0.9 |
| Q3 2013 | 72898.8 | 1520.0 | 275922.0 | 419401376 | 419 | 0.9 | 25763 | 2940.0 | 97513.0 | 286688088 | 287 | 0.6 |
| Q4 2013 | 70340.4 | 1410.0 | 266238.4 | 375396164 | 375 | 0.8 | 24207.6 | 1410.0 | 91625.8 | 129192330 | 129 | 0.3 |
| Q1 2014 | 69833.8 | 1390.0 | 264320.9 | 367406097 | 367 | 0.8 | 23263.1 | 1400.0 | 88050.8 | 123271167 | 123 | 0.3 |
| Q2 2014 | 71934.9 | 1390.0 | 272273.6 | 378460299 | 378 | 0.8 | 23757.5 | 1960.0 | 89922.1 | 176247390 | 176 | 0.4 |
| Q3 2014 | 74788.2 | 1490.0 | 283073.3 | 421779272 | 422 | 0.9 | 24062.4 | 2120.0 | 91076.2 | 193081510 | 193 | 0.4 |
| Q4 2014 | 63093.0 | 1440.0 | 238807.0 | 343882087 | 344 | 0.8 | 21875.8 | 2090.0 | 82799.9 | 173051797 | 173 | 0.4 |
| Q1 2015 | 76454.3 | 1400.0 | 289379.5 | 405131336 | 405 | 0.9 | 24004.9 | 1980.0 | 90858.5 | 179899922 | 180 | 0.4 |
| Q2 2015 | 60714.7 | 1300.0 | 229805.1 | 298746681 | 299 | 0.7 | 27804.6 | 1980.0 | 105240.4 | 208376014 | 208 | 0.5 |
| Q3 2015 | 89520.8 | 1290.0 | 338836.2 | 437098734 | 437 | 1.0 | 21042.0 | 2350.0 | 79644.0 | 187163330 | 187 | 0.4 |
| Q4 2015 | 99633.4 | 1200.0 | 377112.4 | 452534903 | 453 | 1.0 | 19355.6 | 2680.0 | 73260.9 | 196339335 | 196 | 0.4 |
| Q1 2016 | 90882.1 | 1240.0 | 343988.7 | 426546048 | 427 | 0.9 | 19150.8 | 2650.0 | 72485.8 | 192087312 | 192 | 0.4 |
| Q2 2016 | 96540.5 | 1580.0 | 365405.8 | 577341152 | 577 | 1.3 | 22105.7 | 2220.0 | 83670.1 | 185747565 | 186 | 0.4 |
| Q3 2016 | 79786.4 | 1430.0 | 301991.5 | 431847879 | 432 | 1.0 | 17149.5 | 3190.0 | 64910.9 | 207065635 | 207 | 0.5 |
| Totals | 5014353.38 | | | | | 89.5 | 2487240.8 | | | | | 32.1 |

Table G-1
Quarterly Calculation of Chloroform Removed and Total Volume of Water Pumped

| | TW4-19 | | | | | | TW4-20 | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Quarter | Total Pumped (gal) | Conc | Total Pumped (liters) | Total (ug) | Total (grams) | Total (pounds) | Total Pumped (gal) | Conc | Total Pumped (liters) | Total (ug) | Total (grams) | Total (pounds) |
| Q1 2007 | 6768986 | 2660 | 25620612.0 | 6.815E+10 | 68151 | 150.2 | 642290 | 16240 | 2431067.7 | 3.948E+10 | 39481 | 87.0 |
| Q2 2007 | 605400 | 8 | 2291439.0 | 18331512 | 18 | 0.0 | 163520 | 1800 | 618923.2 | 1.114E+09 | 1114 | 2.5 |
| Q3 2007 | 316080 | 1100 | 1196362.8 | 1.316E+09 | 1316 | 2.9 | 70360 | 5200 | 266312.6 | 1.385E+09 | 1385 | 3.1 |
| Q4 2007 | 334350 | 1100 | 1265514.8 | 1.392E+09 | 1392 | 3.1 | 63630 | 9000 | 240839.6 | 2.168E+09 | 2168 | 4.8 |
| Q1 2008 | 304784 | 1800 | 1153607.4 | 2.076E+09 | 2076 | 4.6 | 66520 | 13000 | 251778.2 | 3.273E+09 | 3273 | 7.2 |
| Q2 2008 | 380310 | 1000 | 1439473.4 | 1.439E+09 | 1439 | 3.2 | 39360 | 30000 | 148977.6 | 4.469E+09 | 4469 | 9.9 |
| Q3 2008 | 529020 | 3600 | 2002340.7 | 7.208E+09 | 7208 | 15.9 | 53260 | 21000 | 201589.1 | 4.233E+09 | 4233 | 9.3 |
| Q4 2008 | 589620 | 4200 | 2231711.7 | 9.373E+09 | 9373 | 20.7 | 50230 | 1000 | 190120.6 | 190120550 | 190 | 0.4 |
| Q1 2009 | 469100 | 1100 | 1775543.5 | 1.953E+09 | 1953 | 4.3 | 52050 | 8200 | 197009.3 | 1.615E+09 | 1615 | 3.6 |
| Q2 2009 | 450040 | 990 | 1703401.4 | 1.686E+09 | 1686 | 3.7 | 49270 | 6800 | 186487.0 | 1.268E+09 | 1268 | 2.8 |
| Q3 2009 | 200650 | 6600 | 759460.3 | 5.012E+09 | 5012 | 11.1 | 51030 | 13000 | 193148.6 | 2.511E+09 | 2511 | 5.5 |
| Q4 2009 | 454205 | 4700 | 1719165.9 | 8.08E+09 | 8080 | 17.8 | 208790 | 15000 | 790270.2 | 1.185E+10 | 11854 | 26.1 |
| Q1 2010 | 348550 | 940 | 1319261.8 | 1.24E+09 | 1240 | 2.7 | 14490 | 3500 | 54844.7 | 191956275 | 192 | 0.4 |
| Q2 2010 | 453340 | 1800 | 1715891.9 | 3.089E+09 | 3089 | 6.8 | 39014.86 | 18000 | 147671.2 | 2.658E+09 | 2658 | 5.9 |
| Q3 2010 | 116899.2 | 2000 | 442463.5 | 884926944 | 885 | 2.0 | 39098.3 | 15000 | 147987.1 | 2.22E+09 | 2220 | 4.9 |
| Q4 2010 | 767970.5 | 1200 | 2906768.3 | 3.488E+09 | 3488 | 7.7 | 36752.5 | 24000 | 139108.2 | 3.339E+09 | 3339 | 7.4 |
| Q1 2011 | 454607.9 | 3400 | 1720690.9 | 5.85E+09 | 5850 | 12.9 | 37187.5 | 31000 | 140754.7 | 4.363E+09 | 4363 | 9.6 |
| Q2 2011 | 159238.9 | 4000 | 602719.2 | 2.411E+09 | 2411 | 5.3 | 67907.7 | 8100 | 257030.6 | 2.082E+09 | 2082 | 4.6 |
| Q3 2011 | 141542.6 | 970 | 535738.7 | 519666579 | 520 | 1.1 | 72311.2 | 6800 | 273697.9 | 1.861E+09 | 1861 | 4.1 |
| Q4 2011 | 147647.2 | 2200 | 558844.7 | 1.229E+09 | 1229 | 2.7 | 72089.3 | 7900 | 272858.0 | 2.156E+09 | 2156 | 4.8 |
| Q1 2012 | 148747 | 650 | 563007.4 | 365954807 | 366 | 0.8 | 76306 | 11000 | 288818.2 | 3.177E+09 | 3177 | 7.0 |
| Q2 2012 | 172082.03 | 460 | 651330.5 | 299612022 | 300 | 0.7 | 22956.43 | 36000 | 86890.1 | 3.128E+09 | 3128 | 6.9 |
| Q3 2012 | 171345 | 950 | 648540.8 | 616113784 | 616 | 1.4 | 22025 | 13000 | 83364.6 | 1.084E+09 | 1084 | 2.4 |
| Q4 2012 | 156653 | 1500 | 592931.6 | 889397408 | 889 | 2.0 | 20114 | 19000 | 76131.5 | 1.446E+09 | 1446 | 3.2 |
| Q1 2013 | 210908 | 4210 | 798286.8 | 3.361E+09 | 3361 | 7.4 | 18177 | 18500 | 68799.9 | 1.273E+09 | 1273 | 2.8 |
| Q2 2013 | 226224 | 2070 | 856257.8 | 1.772E+09 | 1772 | 3.9 | 20252.4 | 26300 | 76655.3 | 2.016E+09 | 2016 | 4.4 |
| Q3 2013 | 329460.1 | 8100 | 1247006.5 | 1.01E+10 | 10101 | 22.3 | 19731 | 26800 | 74681.8 | 2.001E+09 | 2001 | 4.4 |
| Q4 2013 | 403974 | 942 | 1529041.6 | 1.44E+09 | 1440 | 3.2 | 19280.2 | 15700 | 72975.6 | 1.146E+09 | 1146 | 2.5 |
| Q1 2014 | 304851 | 586 | 1153861.0 | 676162567 | 676 | 1.5 | 18781.6 | 17800 | 71088.4 | 1.265E+09 | 1265 | 2.8 |
| Q2 2014 | 297660.0 | 810 | 1126643.1 | 912580911 | 913 | 2.0 | 18462.4 | 22100 | 69880.2 | 1.544E+09 | 1544 | 3.4 |
| Q3 2014 | 309742.0 | 1410 | 1172373.5 | 1.653E+09 | 1653 | 3.6 | 17237.9 | 12400 | 65245.5 | 809043599 | 809 | 1.8 |
| Q4 2014 | 198331.0 | 4310 | 750682.8 | 3.235E+09 | 3235 | 7.1 | 16341.8 | 23300 | 61853.7 | 1.441E+09 | 1441 | 3.2 |
| Q1 2015 | 60553.0 | 4660 | 229193.1 | 1.068E+09 | 1068 | 2.4 | 15744.7 | 19900 | 59593.7 | 1.186E+09 | 1186 | 2.6 |
| Q2 2015 | 75102.8 | 1570 | 284264.1 | 446294634 | 446 | 1.0 | 18754.1 | 17600 | 70984.3 | 1.249E+09 | 1249 | 2.8 |
| Q3 2015 | 116503.9 | 7860 | 440967.3 | 3.466E+09 | 3466 | 7.6 | 17657.3 | 17000 | 66832.9 | 1.136E+09 | 1136 | 2.5 |
| Q4 2015 | 112762.7 | 7840 | 426806.8 | 3.346E+09 | 3346 | 7.4 | 15547.4 | 17000 | 58846.9 | 1E+09 | 1000 | 2.2 |
| Q1 2016 | 116597.0 | 7780 | 441319.6 | 3.433E+09 | 3433 | 7.6 | 14353.5 | 21600 | 54328.0 | 1.173E+09 | 1173 | 2.6 |
| Q2 2016 | 123768.0 | 12600 | 468461.9 | 5.903E+09 | 5903 | 13.0 | 15818.3 | 33700 | 59872.3 | 2.018E+09 | 2018 | 4.4 |
| Q3 2016 | 103609.0 | 6040 | 392160.1 | 2.369E+09 | 2369 | 5.2 | 12186.6 | 23600 | 46126.3 | 1.089E+09 | 1089 | 2.4 |
| Totals | 17631214.83 | | | | | 378.7 | 2288888.99 | | | | | 268.1 |

Table G-1
Quarterly Calculation of Chloroform Removed and Total Volume of Water Pumped

| | TW4-4 | | | | | | TW4-22 | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Quarter | Total Pumped (gal) | Conc | Total Pumped (liters) | Total (ug) | Total (grams) | Total (pounds) | Total Pumped (gal) | Conc | Total Pumped (liters) | Total (ug) | Total (grams) | Total (pounds) |
| Q1 2007 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q2 2007 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q3 2007 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q4 2007 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q1 2008 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q2 2008 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q3 2008 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q4 2008 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q1 2009 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q2 2009 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q3 2009 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q4 2009 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q1 2010 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q2 2010 | 84513.9 | 2000 | 319885.1 | 6.4E+08 | 640 | 1.4 | NA | NA | NA | NA | NA | NA |
| Q3 2010 | 76916.8 | 2100 | 291130.1 | 6.1E+08 | 611 | 1.3 | NA | NA | NA | NA | NA | NA |
| Q4 2010 | 86872.1 | 1700 | 328810.9 | 5.6E+08 | 559 | 1.2 | NA | NA | NA | NA | NA | NA |
| Q1 2011 | 73360.0 | 1800 | 277667.6 | 5.0E+08 | 500 | 1.1 | NA | NA | NA | NA | NA | NA |
| Q2 2011 | 80334.6 | 1700 | 304066.5 | 5.2E+08 | 517 | 1.1 | NA | NA | NA | NA | NA | NA |
| Q3 2011 | 97535.0 | 1500 | 369170.0 | 5.5E+08 | 554 | 1.2 | NA | NA | NA | NA | NA | NA |
| Q4 2011 | 109043.5 | 1500 | 412729.6 | 6.2E+08 | 619 | 1.4 | NA | NA | NA | NA | NA | NA |
| Q1 2012 | 101616.8 | 1200 | 384619.6 | 4.6E+08 | 462 | 1.0 | NA | NA | NA | NA | NA | NA |
| Q2 2012 | 87759.1 | 1500 | 332168.2 | 5.0E+08 | 498 | 1.1 | NA | NA | NA | NA | NA | NA |
| Q3 2012 | 80006.0 | 1600 | 302822.7 | 4.8E+08 | 485 | 1.1 | NA | NA | NA | NA | NA | NA |
| Q4 2012 | 71596 | 1400 | 270990.9 | 3.8E+08 | 379 | 0.8 | NA | NA | NA | NA | NA | NA |
| Q1 2013 | 58716.8 | 1460 | 222243.1 | 3.2E+08 | 324 | 0.7 | 16677.4 | 10600 | 63124.0 | 669113965.4 | 669.1 | 1.5 |
| Q2 2013 | 65603.4 | 1330 | 248308.9 | 3.3E+08 | 330 | 0.7 | 25523.2 | 12500 | 96605.3 | 1207566400.0 | 1207.6 | 2.7 |
| Q3 2013 | 63515.4 | 1380 | 240405.8 | 3.3E+08 | 332 | 0.7 | 25592.9 | 9640 | 96869.1 | 933818379.5 | 933.8 | 2.1 |
| Q4 2013 | 60233.6 | 1360 | 227984.2 | 3.1E+08 | 310 | 0.7 | 24952.2 | 13300 | 94444.1 | 1256106224.1 | 1256.1 | 2.8 |
| Q1 2014 | 58992.9 | 1260 | 223288.1 | 2.8E+08 | 281 | 0.6 | 24532.0 | 12100 | 92853.6 | 1123528802.0 | 1123.5 | 2.5 |
| Q2 2014 | 60235.3 | 1220 | 227990.6 | 2.8E+08 | 278 | 0.6 | 24193.9 | 12400 | 91573.9 | 1135516502.6 | 1135.5 | 2.5 |
| Q3 2014 | 69229.4 | 1320 | 262033.3 | 3.5E+08 | 346 | 0.8 | 24610.9 | 12400 | 93152.3 | 1155087980.6 | 1155.1 | 2.5 |
| Q4 2014 | 64422.6 | 1130 | 243839.5 | 2.8E+08 | 276 | 0.6 | 23956.9 | 12400 | 90676.9 | 1124393144.6 | 1124.4 | 2.5 |
| Q1 2015 | 36941.3 | 1350 | 139822.8 | 1.9E+08 | 189 | 0.4 | 22046.9 | 12700 | 83447.5 | 1059783459.6 | 1059.8 | 2.3 |
| Q2 2015 | 68162.8 | 1280 | 257996.2 | 3.3E+08 | 330 | 0.7 | 23191.6 | 8050 | 87780.2 | 706630658.3 | 706.6 | 1.6 |
| Q3 2015 | 64333.0 | 1220 | 243500.4 | 3.0E+08 | 297 | 0.7 | 24619.9 | 7810 | 93186.3 | 727785170.9 | 727.8 | 1.6 |
| Q4 2015 | 59235.1 | 1190 | 224204.9 | 2.7E+08 | 267 | 0.6 | 23657.6 | 7530 | 89544.0 | 674266440.5 | 674.3 | 1.5 |
| Q1 2016 | 57274.0 | 1190 | 216782.1 | 2.6E+08 | 258 | 0.6 | 24517.8 | 6070 | 92799.9 | 563295229.1 | 563.3 | 1.2 |
| Q2 2016 | 61378.0 | 1780 | 232315.7 | 4.1E+08 | 414 | 0.9 | 26506.3 | 8570 | 100326.3 | 859796780.9 | 859.8 | 1.9 |
| Q3 2016 | 50104.2 | 1380 | 189644.4 | 2.6E+08 | 262 | 0.6 | 22144.1 | 5840 | 83815.4 | 489482044.0 | 489.5 | 1.1 |
| Totals | 1847931.6 | | | | | 22.7 | 356723.6 | | | | | 30.2 |

Table G-1
Quarterly Calculation of Chloroform Removed and Total Volume of Water Pumped

| | TW4-24 | | | | | | TW4-25 | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Quarter | Total Pumped (gal) | Conc | Total Pumped (liters) | Total (ug) | Total (grams) | Total (pounds) | Total Pumped (gal) | Conc | Total Pumped (liters) | Total (ug) | Total (grams) | Total (pounds) |
| Q1 2007 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q2 2007 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q3 2007 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q4 2007 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q1 2008 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q2 2008 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q3 2008 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q4 2008 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q1 2009 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q2 2009 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q3 2009 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q4 2009 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q1 2010 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q2 2010 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q3 2010 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q4 2010 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q1 2011 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q2 2011 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q3 2011 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q4 2011 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q1 2012 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q2 2012 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q3 2012 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q4 2012 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q1 2013 | 144842.6 | 5.7 | 548229.2 | 3124906.7 | 3.1 | 0.0 | 99369.9 | 0.0 | 376115.1 | 0.0 | 0.0 | 0.0 |
| Q2 2013 | 187509.3 | 17.4 | 709722.7 | 12349175.0 | 12.3 | 0.0 | 147310.4 | 0.0 | 557569.9 | 0.0 | 0.0 | 0.0 |
| Q3 2013 | 267703.5 | 21.8 | 1013257.7 | 22089018.9 | 22.1 | 0.1 | 145840.9 | 0.0 | 552007.8 | 0.0 | 0.0 | 0.0 |
| Q4 2013 | 260555.3 | 32.5 | 986201.8 | 32051558.8 | 32.1 | 0.1 | 126576.5 | 0.0 | 479092.1 | 0.0 | 0.0 | 0.0 |
| Q1 2014 | 229063.9 | 78.5 | 867006.9 | 68060038.6 | 68.1 | 0.2 | 129979.2 | 0.0 | 491971.3 | 0.0 | 0.0 | 0.0 |
| Q2 2014 | 216984.1 | 62.7 | 821284.8 | 51494558.1 | 51.5 | 0.1 | 124829.8 | 0.0 | 472480.8 | 0.0 | 0.0 | 0.0 |
| Q3 2014 | 213652.5 | 76.3 | 808674.7 | 61701880.6 | 61.7 | 0.1 | 119663.9 | 0.0 | 452927.9 | 0.0 | 0.0 | 0.0 |
| Q4 2014 | 178468.7 | 25.8 | 675504.0 | 17428004.0 | 17.4 | 0.04 | 107416.1 | 0.0 | 406569.9 | 0.0 | 0.0 | 0.0 |
| Q1 2015 | 92449.3 | 49.2 | 349920.6 | 17216093.5 | 17.2 | 0.04 | 71452.4 | 0.0 | 270447.3 | 0.0 | 0.0 | 0.0 |
| Q2 2015 | 62664.2 | 4.28 | 237184.0 | 1015147.5 | 1.0 | 0.002 | 91985.3 | 0.0 | 348164.4 | 0.0 | 0.0 | 0.0 |
| Q3 2015 | 66313.2 | 46.90 | 250995.5 | 11771687.2 | 11.8 | 0.026 | 124137.1 | 0.0 | 469858.9 | 0.0 | 0.0 | 0.0 |
| Q4 2015 | 107799.1 | 25.30 | 408019.6 | 10322895.7 | 10.3 | 0.023 | 116420.1 | 0.0 | 440650.1 | 0.0 | 0.0 | 0.0 |
| Q1 2016 | 100063.2 | 22.80 | 378739.2 | 8635254.0 | 8.6 | 0.019 | 115483.2 | 0.0 | 437103.9 | 0.0 | 0.0 | 0.0 |
| Q2 2016 | 65233.6 | 69.60 | 246909.2 | 17184878.6 | 17.2 | 0.038 | 125606.0 | 0.0 | 475418.7 | 0.0 | 0.0 | 0.0 |
| Q3 2016 | 51765.8 | 17.80 | 195933.6 | 3487617.2 | 3.5 | 0.008 | 104983.6 | 0.0 | 397362.9 | 0.0 | 0.0 | 0.0 |
| Totals | 2245068.3 | | | | | 0.80 | 1751054.4 | | | | | 0.0 |

Table G-1
Quarterly Calculation of Chloroform Removed and Total Volume of Water Pumped

| | TW4-01 | | | | | | TW4-02 | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Quarter | Total Pumped (gal) | Conc | Total Pumped (liters) | Total (ug) | Total (grams) | Total (pounds) | Total Pumped (gal) | Conc | Total Pumped (liters) | Total (ug) | Total (grams) | Total (pounds) |
| Q1 2007 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q2 2007 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q3 2007 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q4 2007 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q1 2008 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q2 2008 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q3 2008 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q4 2008 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q1 2009 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q2 2009 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q3 2009 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q4 2009 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q1 2010 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q2 2010 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q3 2010 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q4 2010 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q1 2011 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q2 2011 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q3 2011 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q4 2011 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q1 2012 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q2 2012 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q3 2012 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q4 2012 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q1 2013 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q2 2013 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q3 2013 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q4 2013 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q1 2014 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q2 2014 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q3 2014 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q4 2014 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q1 2015 | 24569.2 | 1130 | 92994.4 | 105083696.9 | 105.1 | 0.23 | 24156.7 | 1840 | 91433.1 | 168236921.5 | 168.2 | 0.37 |
| Q2 2015 | 23989.9 | 1260 | 90801.8 | 114410232.1 | 114.4 | 0.25 | 22029.9 | 1650 | 83383.2 | 137582233.0 | 137.6 | 0.30 |
| Q3 2015 | 23652.0 | 1060 | 89522.8 | 94894189.2 | 94.9 | 0.21 | 21586.9 | 1310 | 81706.4 | 107035405.6 | 107.0 | 0.24 |
| Q4 2015 | 20764.3 | 1040 | 78592.9 | 81736590.5 | 81.7 | 0.18 | 21769.8 | 2070 | 82398.7 | 170565294.5 | 170.6 | 0.38 |
| Q1 2016 | 19255.6 | 974 | 72882.4 | 70987502.4 | 71.0 | 0.16 | 20944.6 | 1970 | 79275.3 | 156172362.7 | 156.2 | 0.34 |
| Q2 2016 | 19588.2 | 1140 | 74141.3 | 84521124.2 | 84.5 | 0.19 | 20624.0 | 2070 | 78061.8 | 161588008.8 | 161.6 | 0.36 |
| Q3 2016 | 15613.5 | 1160 | 59097.1 | 68552633.1 | 68.6 | 0.15 | 17487.4 | 1780 | 66189.8 | 117817860.0 | 117.8 | 0.26 |
| Totals | 147432.7 | | | | | 1.37 | 148599.3 | | | | | 2.2 |

Table G-1
Quarterly Calculation of Chloroform Removed and Total Volume of Water Pumped

| | TW4-11 | | | | | | TW4-21 | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Quarter | Total Pumped (gal) | Conc | Total Pumped (liters) | Total (ug) | Total (grams) | Total (pounds) | Total Pumped (gal) | Conc | Total Pumped (liters) | Total (ug) | Total (grams) | Total (pounds) |
| Q1 2007 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q2 2007 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q3 2007 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q4 2007 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q1 2008 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q2 2008 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q3 2008 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q4 2008 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q1 2009 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q2 2009 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q3 2009 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q4 2009 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q1 2010 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q2 2010 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q3 2010 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q4 2010 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q1 2011 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q2 2011 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q3 2011 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q4 2011 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q1 2012 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q2 2012 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q3 2012 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q4 2012 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q1 2013 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q2 2013 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q3 2013 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q4 2013 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q1 2014 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q2 2014 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q3 2014 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q4 2014 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Q1 2015 | 9898.7 | 2450 | 37466.6 | 91793119.8 | 91.8 | 0.20 | NA | NA | NA | NA | NA | NA |
| Q2 2015 | 5243.3 | 2710 | 19845.9 | 53782363.3 | 53.8 | 0.12 | 30743.7 | 366.0 | 116364.9 | 42589555.0 | 42.6 | 0.09 |
| Q3 2015 | 3584.4 | 1120 | 13567.0 | 15194988.5 | 15.2 | 0.03 | 125285.4 | 281.0 | 474205.2 | 133251672.2 | 133.3 | 0.29 |
| Q4 2015 | 4110.3 | 2730 | 15557.5 | 42471935.4 | 42.5 | 0.09 | 134774.9 | 339.0 | 510123.0 | 172931695.8 | 172.9 | 0.38 |
| Q1 2016 | 3676.2 | 2660 | 13914.4 | 37012349.2 | 37.0 | 0.08 | 125513.3 | 390.0 | 475067.8 | 185276457.8 | 185.3 | 0.41 |
| Q2 2016 | 3760.4 | 3340 | 14233.1 | 47538600.8 | 47.5 | 0.10 | 132248.7 | 545.0 | 500561.3 | 272805924.6 | 272.8 | 0.60 |
| Q3 2016 | 2953.8 | 3200 | 11180.1 | 35776425.6 | 35.8 | 0.08 | 110381.9 | 456.0 | 417795.5 | 190514744.1 | 190.5 | 0.42 |
| Totals | 33227.1 | | | | | 0.71 | 658947.9 | | | | | 2.20 |

Table G-1
Quarterly Calculation of Chloroform Removed and Total Volume of Water Pumped

| | TW4-37 | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Quarter | Total Pumped (gal) | Conc | Total Pumped (liters) | Total (ug) | Total (grams) | Total (pounds) | Total (pounds) | Total Volume Pumped (gallons) |
| Q1 2007 | NA | NA | NA | NA | NA | NA | 286.9 | 9648896.0 |
| Q2 2007 | NA | NA | NA | NA | NA | NA | 4.0 | 904550.0 |
| Q3 2007 | NA | NA | NA | NA | NA | NA | 9.0 | 559220.0 |
| Q4 2007 | NA | NA | NA | NA | NA | NA | 10.6 | 550560.0 |
| Q1 2008 | NA | NA | NA | NA | NA | NA | 13.8 | 503034.0 |
| Q2 2008 | NA | NA | NA | NA | NA | NA | 14.8 | 527290.0 |
| Q3 2008 | NA | NA | NA | NA | NA | NA | 26.8 | 724960.0 |
| Q4 2008 | NA | NA | NA | NA | NA | NA | 22.7 | 786870.0 |
| Q1 2009 | NA | NA | NA | NA | NA | NA | 10.0 | 664830.0 |
| Q2 2009 | NA | NA | NA | NA | NA | NA | 13.5 | 1007400.0 |
| Q3 2009 | NA | NA | NA | NA | NA | NA | 18.5 | 399710.0 |
| Q4 2009 | NA | NA | NA | NA | NA | NA | 49.4 | 1047335.0 |
| Q1 2010 | NA | NA | NA | NA | NA | NA | 4.5 | 492485.0 |
| Q2 2010 | NA | NA | NA | NA | NA | NA | 16.5 | 721374.1 |
| Q3 2010 | NA | NA | NA | NA | NA | NA | 10.6 | 376623.4 |
| Q4 2010 | NA | NA | NA | NA | NA | NA | 17.9 | 1041817.3 |
| Q1 2011 | NA | NA | NA | NA | NA | NA | 24.9 | 696533.0 |
| Q2 2011 | NA | NA | NA | NA | NA | NA | 13.1 | 449131.1 |
| Q3 2011 | NA | NA | NA | NA | NA | NA | 8.1 | 462334.5 |
| Q4 2011 | NA | NA | NA | NA | NA | NA | 10.8 | 468706.3 |
| Q1 2012 | NA | NA | NA | NA | NA | NA | 10.6 | 448486.3 |
| Q2 2012 | NA | NA | NA | NA | NA | NA | 10.4 | 400415.2 |
| Q3 2012 | NA | NA | NA | NA | NA | NA | 6.6 | 390229.0 |
| Q4 2012 | NA | NA | NA | NA | NA | NA | 7.1 | 358000.0 |
| Q1 2013 | NA | NA | NA | NA | NA | NA | 13.7 | 634286.1 |
| Q2 2013 | NA | NA | NA | NA | NA | NA | 13.5 | 768953.4 |
| Q3 2013 | NA | NA | NA | NA | NA | NA | 31.1 | 950505.6 |
| Q4 2013 | NA | NA | NA | NA | NA | NA | 10.3 | 990119.8 |
| Q1 2014 | NA | NA | NA | NA | NA | NA | 8.6 | 859297.5 |
| Q2 2014 | NA | NA | NA | NA | NA | NA | 9.9 | 838057.9 |
| Q3 2014 | NA | NA | NA | NA | NA | NA | 10.2 | 852987.2 |
| Q4 2014 | NA | NA | NA | NA | NA | NA | 14.6 | 673905.9 |
| Q1 2015 | NA | NA | NA | NA | NA | NA | 9.9 | 458271.4 |
| Q2 2015 | 29206.0 | 30200 | 110544.7 | 3338450242.0 | 3338.5 | 7.4 | 15.3 | 539592.9 |
| Q3 2015 | 118063.9 | 19100 | 446871.9 | 8535252554.7 | 8535.3 | 18.8 | 33.4 | 816299.8 |
| Q4 2015 | 111737.5 | 19500 | 422926.4 | 8247065531.3 | 8247.1 | 18.2 | 32.3 | 847567.8 |
| Q1 2016 | 111591.0 | 17500 | 422371.9 | 7391508862.5 | 7391.5 | 16.3 | 30.6 | 819302.3 |
| Q2 2016 | 119241.2 | 16200 | 451327.9 | 7311512660.4 | 7311.5 | 16.1 | 39.4 | 832418.9 |
| Q3 2016 | 98377.6 | 15900 | 372359 | 5920511534.4 | 5920.5 | 13.1 | 24.7 | 686543.4 |
| Totals | 588217.2 | | | | | 89.8 | 918.5 | 35198900.1 |

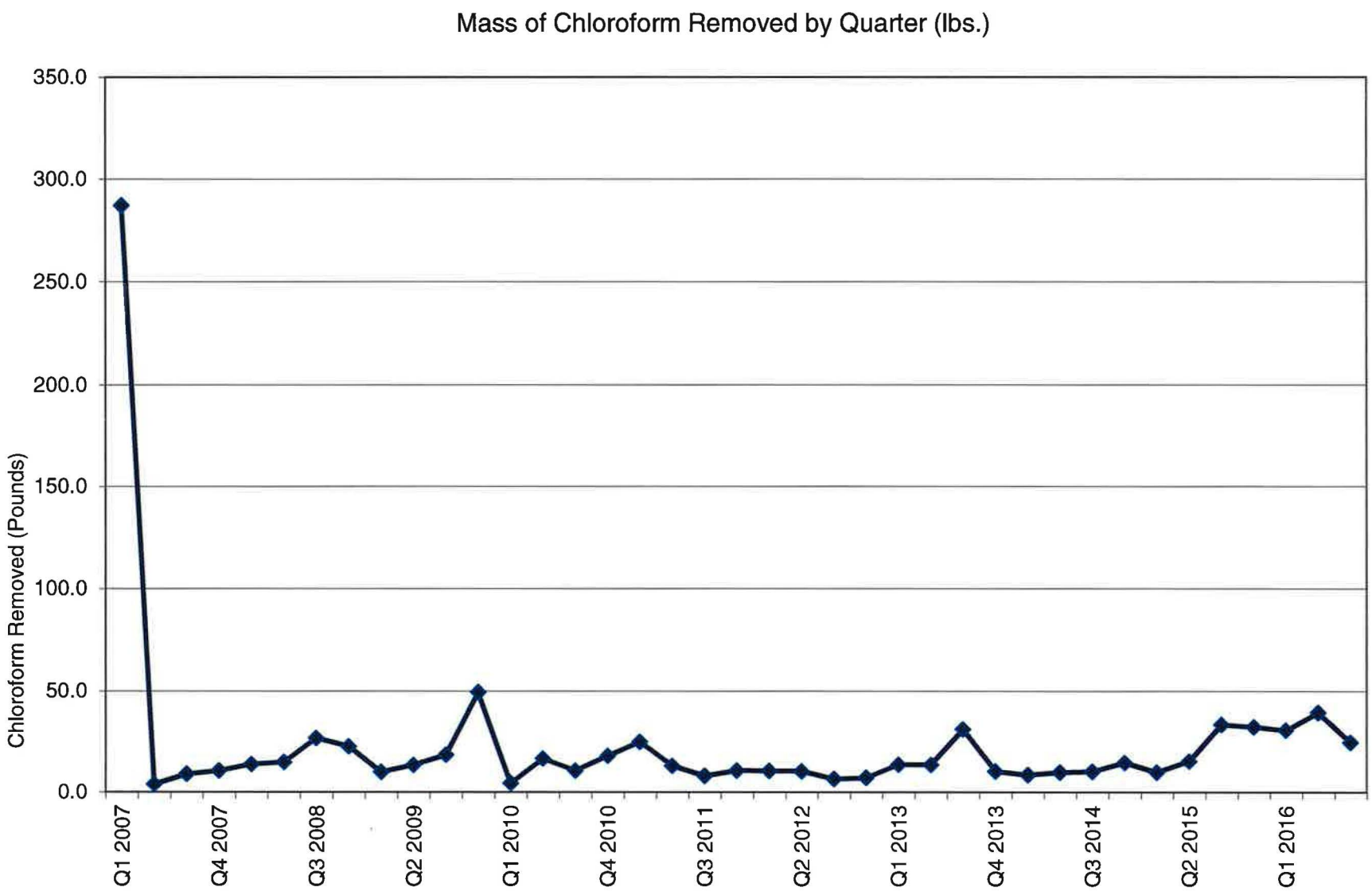
**Table G-2**
**Chloroform Mass Removal Per Well Per Quarter**

| 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.) | TW4-01 (lbs.) | TW4-02 (lbs.) | TW4-11 (lbs.) | TW4-21 (lbs.) | TW4-37 (lbs.) | Quarter Totals (lbs.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Q1 2007 | 36.8 | 12.9 | 150.2 | 87.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA | 286.9 |
| Q2 2007 | 1.4 | 0.1 | 0.0 | 2.5 | NA | NA | NA | NA | NA | NA | NA | NA | NA | 4.0 |
| Q3 2007 | 2.2 | 0.8 | 2.9 | 3.1 | NA | NA | NA | NA | NA | NA | NA | NA | NA | 9.0 |
| Q4 2007 | 1.7 | 1.0 | 3.1 | 4.8 | NA | NA | NA | NA | NA | NA | NA | NA | NA | 10.6 |
| Q1 2008 | 1.7 | 0.4 | 4.6 | 7.2 | NA | NA | NA | NA | NA | NA | NA | NA | NA | 13.8 |
| Q2 2008 | 1.3 | 0.5 | 3.2 | 9.9 | NA | NA | NA | NA | NA | NA | NA | NA | NA | 14.8 |
| Q3 2008 | 1.2 | 0.3 | 15.9 | 9.3 | NA | NA | NA | NA | NA | NA | NA | NA | NA | 26.8 |
| Q4 2008 | 1.3 | 0.3 | 20.7 | 0.4 | NA | NA | NA | NA | NA | NA | NA | NA | NA | 22.7 |
| Q1 2009 | 1.7 | 0.4 | 4.3 | 3.6 | NA | NA | NA | NA | NA | NA | NA | NA | NA | 10.0 |
| Q2 2009 | 6.8 | 0.2 | 3.7 | 2.8 | NA | NA | NA | NA | NA | NA | NA | NA | NA | 13.5 |
| Q3 2009 | 1.5 | 0.4 | 11.1 | 5.5 | NA | NA | NA | NA | NA | NA | NA | NA | NA | 18.5 |
| Q4 2009 | 4.8 | 0.6 | 17.8 | 26.1 | NA | NA | NA | NA | NA | NA | NA | NA | NA | 49.4 |
| Q1 2010 | 0.9 | 0.4 | 2.7 | 0.4 | NA | NA | NA | NA | NA | NA | NA | NA | NA | 4.5 |
| Q2 2010 | 1.5 | 1.0 | 6.8 | 5.9 | 1.4 | NA | NA | NA | NA | NA | NA | NA | NA | 16.5 |
| Q3 2010 | 1.3 | 1.2 | 2.0 | 4.9 | 1.3 | NA | NA | NA | NA | NA | NA | NA | NA | 10.6 |
| Q4 2010 | 1.1 | 0.5 | 7.7 | 7.4 | 1.2 | NA | NA | NA | NA | NA | NA | NA | NA | 17.9 |
| Q1 2011 | 1.1 | 0.2 | 12.9 | 9.6 | 1.1 | NA | NA | NA | NA | NA | NA | NA | NA | 24.9 |
| Q2 2011 | 1.2 | 0.8 | 5.3 | 4.6 | 1.1 | NA | NA | NA | NA | NA | NA | NA | NA | 13.1 |
| Q3 2011 | 1.2 | 0.4 | 1.1 | 4.1 | 1.2 | NA | NA | NA | NA | NA | NA | NA | NA | 8.1 |
| Q4 2011 | 1.2 | 0.8 | 2.7 | 4.8 | 1.4 | NA | NA | NA | NA | NA | NA | NA | NA | 10.8 |
| Q1 2012 | 1.1 | 0.6 | 0.8 | 7.0 | 1.0 | NA | NA | NA | NA | NA | NA | NA | NA | 10.6 |
| Q2 2012 | 1.1 | 0.7 | 0.7 | 6.9 | 1.1 | NA | NA | NA | NA | NA | NA | NA | NA | 10.4 |
| Q3 2012 | 1.1 | 0.7 | 1.4 | 2.4 | 1.1 | NA | NA | NA | NA | NA | NA | NA | NA | 6.6 |
| Q4 2012 | 0.9 | 0.3 | 2.0 | 3.2 | 0.8 | NA | NA | NA | NA | NA | NA | NA | NA | 7.2 |
| Q1 2013 | 0.9 | 0.4 | 7.4 | 2.8 | 0.7 | 1.5 | 0.0 | 0.0 | NA | NA | NA | NA | NA | 13.7 |
| Q2 2013 | 0.9 | 0.9 | 3.9 | 4.4 | 0.7 | 2.7 | 0.0 | 0.0 | NA | NA | NA | NA | NA | 13.5 |
| Q3 2013 | 0.9 | 0.6 | 22.3 | 4.4 | 0.7 | 2.1 | 0.1 | 0.0 | NA | NA | NA | NA | NA | 31.1 |
| Q4 2013 | 0.8 | 0.3 | 3.2 | 2.5 | 0.7 | 2.8 | 0.1 | 0.0 | NA | NA | NA | NA | NA | 10.3 |
| Q1 2014 | 0.8 | 0.3 | 1.5 | 2.8 | 0.6 | 2.5 | 0.2 | 0.0 | NA | NA | NA | NA | NA | 8.6 |
| Q2 2014 | 0.8 | 0.4 | 2.0 | 3.4 | 0.6 | 2.5 | 0.1 | 0.0 | NA | NA | NA | NA | NA | 9.9 |
| Q3 2014 | 0.9 | 0.4 | 3.6 | 1.8 | 0.8 | 2.5 | 0.1 | 0.0 | NA | NA | NA | NA | NA | 10.2 |
| Q4 2014 | 0.8 | 0.4 | 7.1 | 3.2 | 0.6 | 2.5 | 0.04 | 0.0 | NA | NA | NA | NA | NA | 14.6 |
| Q1 2015 | 0.9 | 0.4 | 2.4 | 2.6 | 0.4 | 2.3 | 0.04 | 0.0 | 0.23 | 0.37 | 0.20 | NA | NA | 9.9 |
| Q2 2015 | 0.7 | 0.5 | 1.0 | 2.8 | 0.7 | 1.6 | 0.00 | 0.0 | 0.25 | 0.30 | 0.12 | 0.09 | 7.4 | 15.3 |
| Q3 2015 | 1.0 | 0.4 | 7.6 | 2.5 | 0.7 | 1.6 | 0.03 | 0.0 | 0.21 | 0.24 | 0.03 | 0.29 | 18.8 | 33.4 |
| Q4 2015 | 1.0 | 0.4 | 7.4 | 2.2 | 0.6 | 1.5 | 0.02 | 0.0 | 0.18 | 0.38 | 0.09 | 0.38 | 18.2 | 32.3 |
| Q1 2016 | 0.9 | 0.4 | 7.6 | 2.6 | 0.6 | 1.2 | 0.02 | 0.0 | 0.16 | 0.34 | 0.08 | 0.41 | 16.3 | 30.6 |
| Q2 2016 | 1.3 | 0.4 | 13.0 | 4.4 | 0.9 | 1.9 | 0.04 | 0.0 | 0.19 | 0.36 | 0.10 | 0.60 | 16.1 | 39.4 |
| Q3 2016 | 1.0 | 0.5 | 5.2 | 2.4 | 0.6 | 1.1 | 0.01 | 0.0 | 0.15 | 0.26 | 0.08 | 0.42 | 13.1 | 24.7 |
| **Well Totals** | 89.5 | 32.1 | 378.7 | 268.1 | 22.7 | 30.2 | 0.80 | 0.00 | 1.37 | 2.25 | 0.71 | 2.20 | 89.8 | **918.5** |

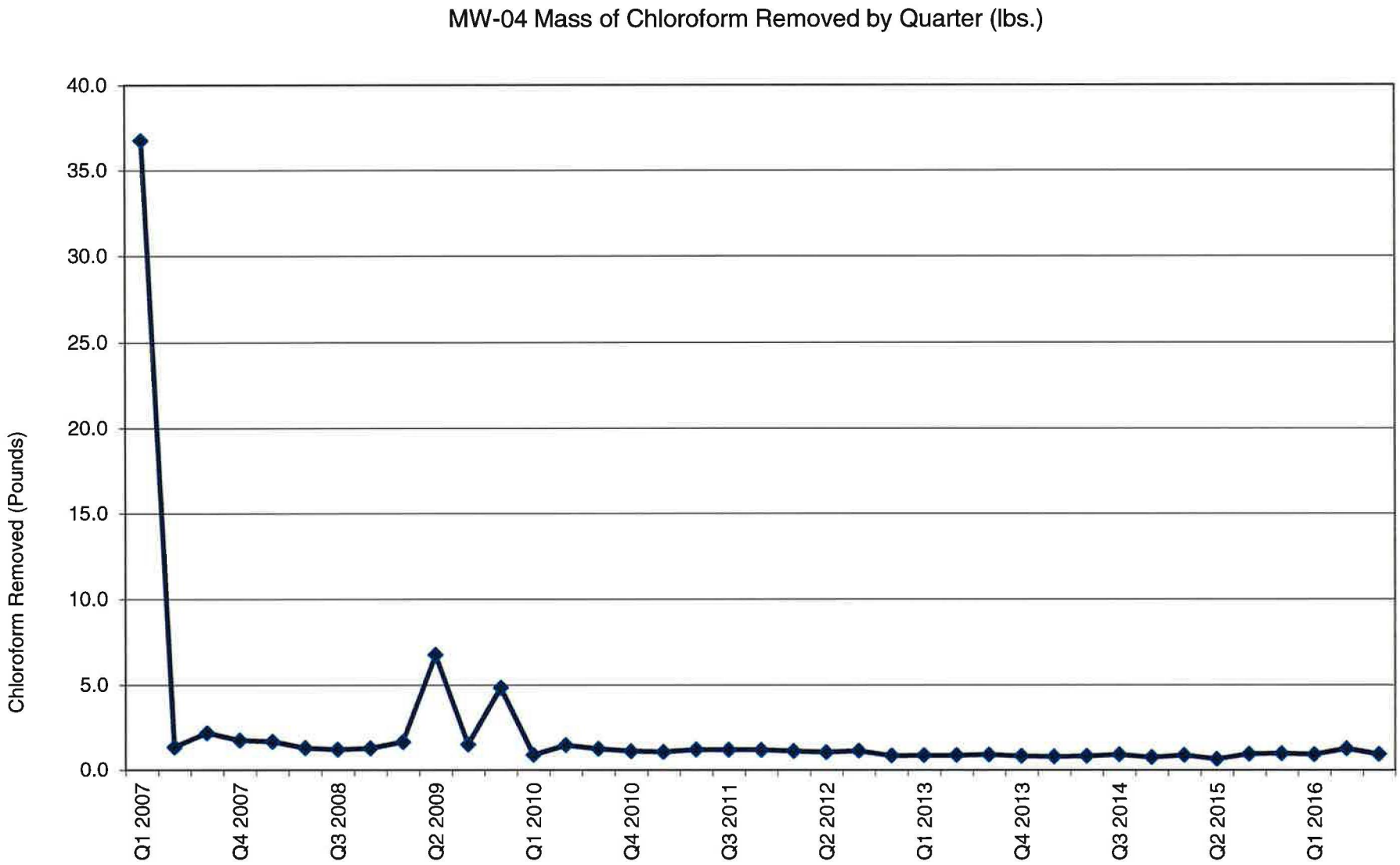
* Q1 2007 represents the cumulative total prior to and including Q1 2007.

## Table G-3 Well Pumping Rates and Volumes

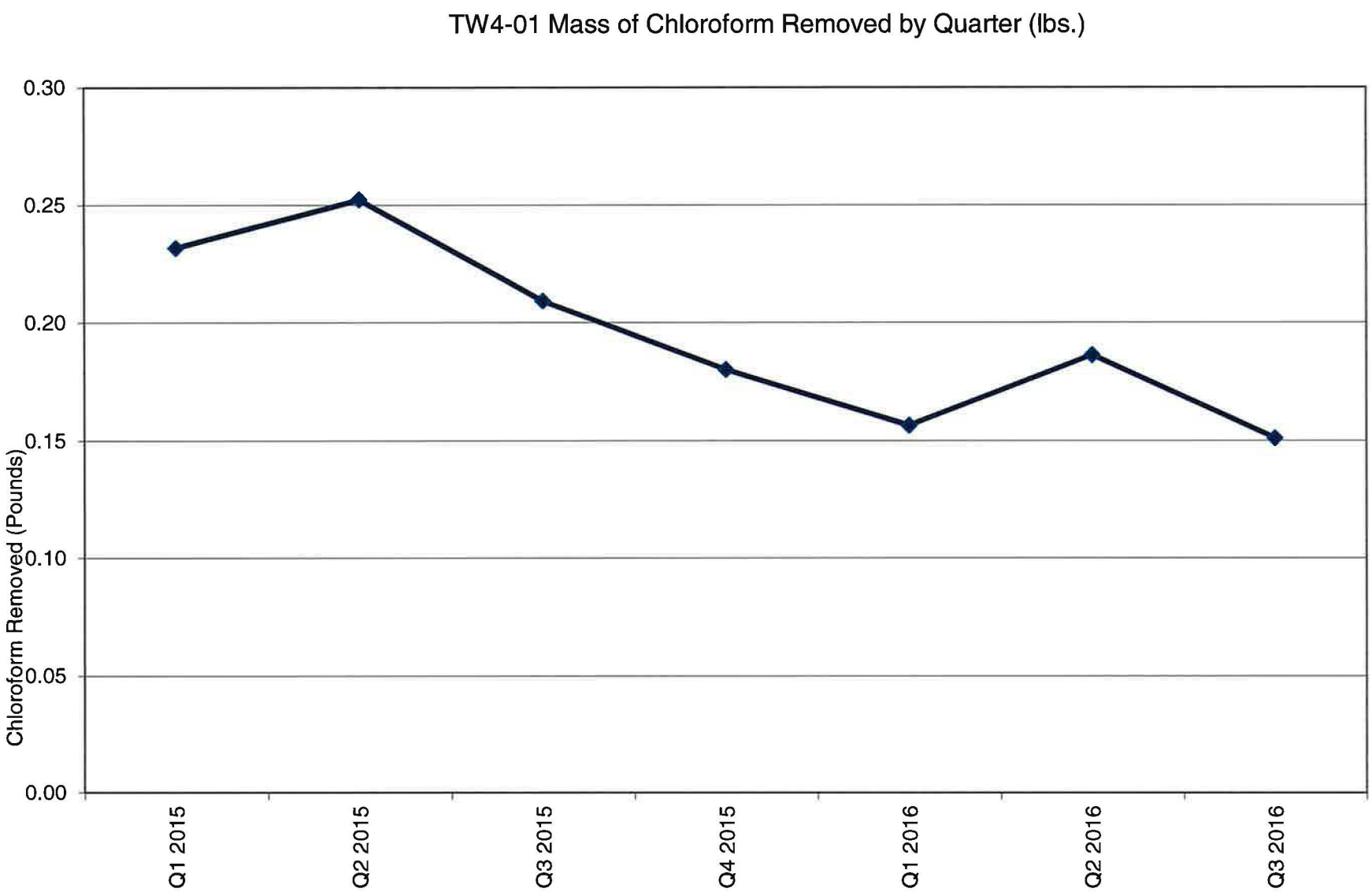
| Pumping Well Name | Volume of Water Pumped During the Quarter (gals) | Average Pump Rate (gpm) |
|---|---|---|
| MW-4 | 79786.4 | 4.4 |
| MW-26 | 17149.5 | 7.3 |
| TW4-19 | 103609.0 | 18.0 |
| TW4-20 | 12186.6 | 6.7 |
| TW4-4 | 50104.2 | 9.6 |
| TWN-2 | 42329.6 | 18.5 |
| TW4-22 | 22144.1 | 17.6 |
| TW4-24 | 51765.8 | 15.9 |
| TW4-25 | 104983.6 | 14.5 |
| TW4-01 | 15613.5 | 15.4 |
| TW4-02 | 17487.4 | 16.1 |
| TW4-11 | 2953.8 | 16.0 |
| TW4-21 | 110381.9 | 16.2 |
| TW4-37 | 98377.6 | 17.0 |

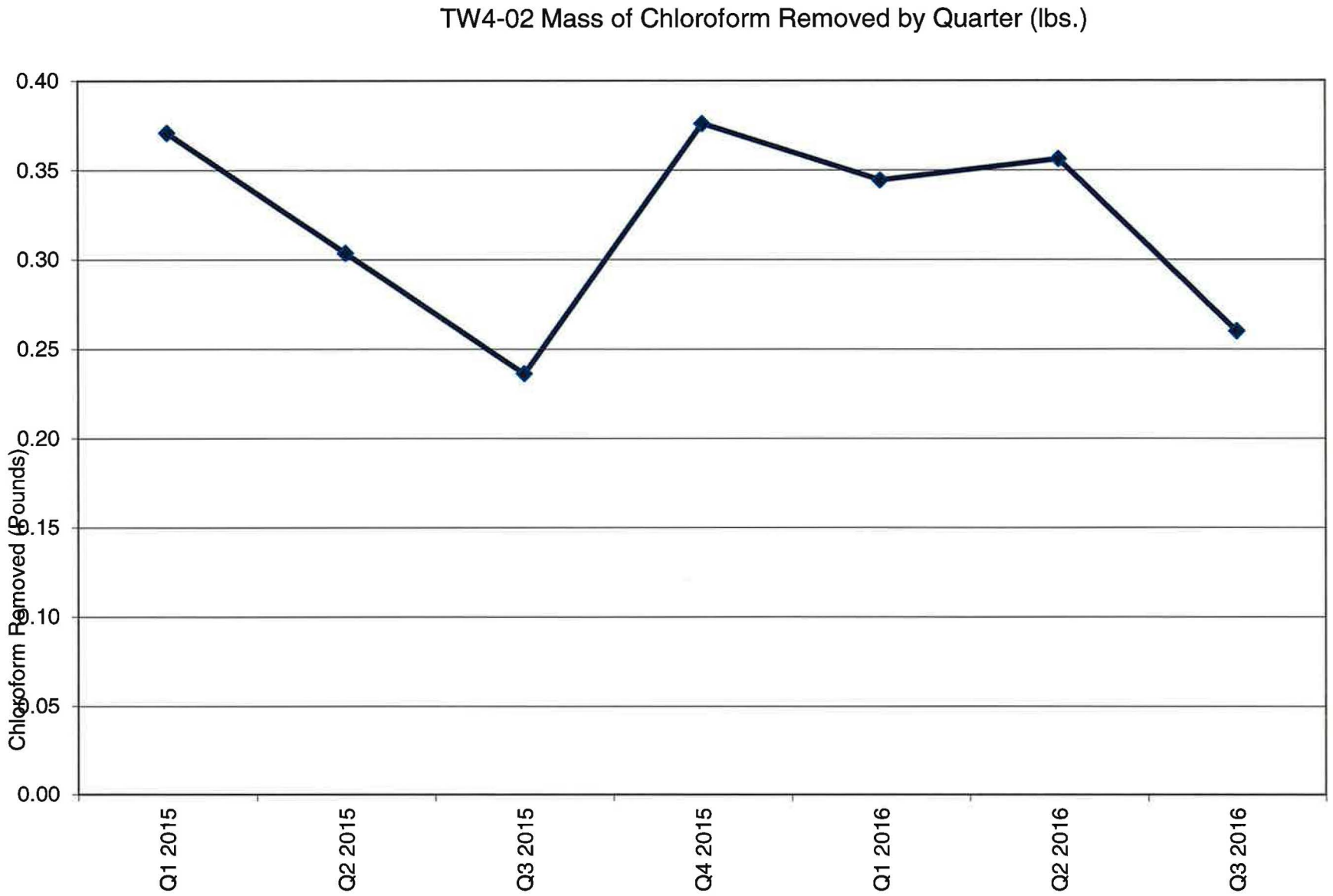


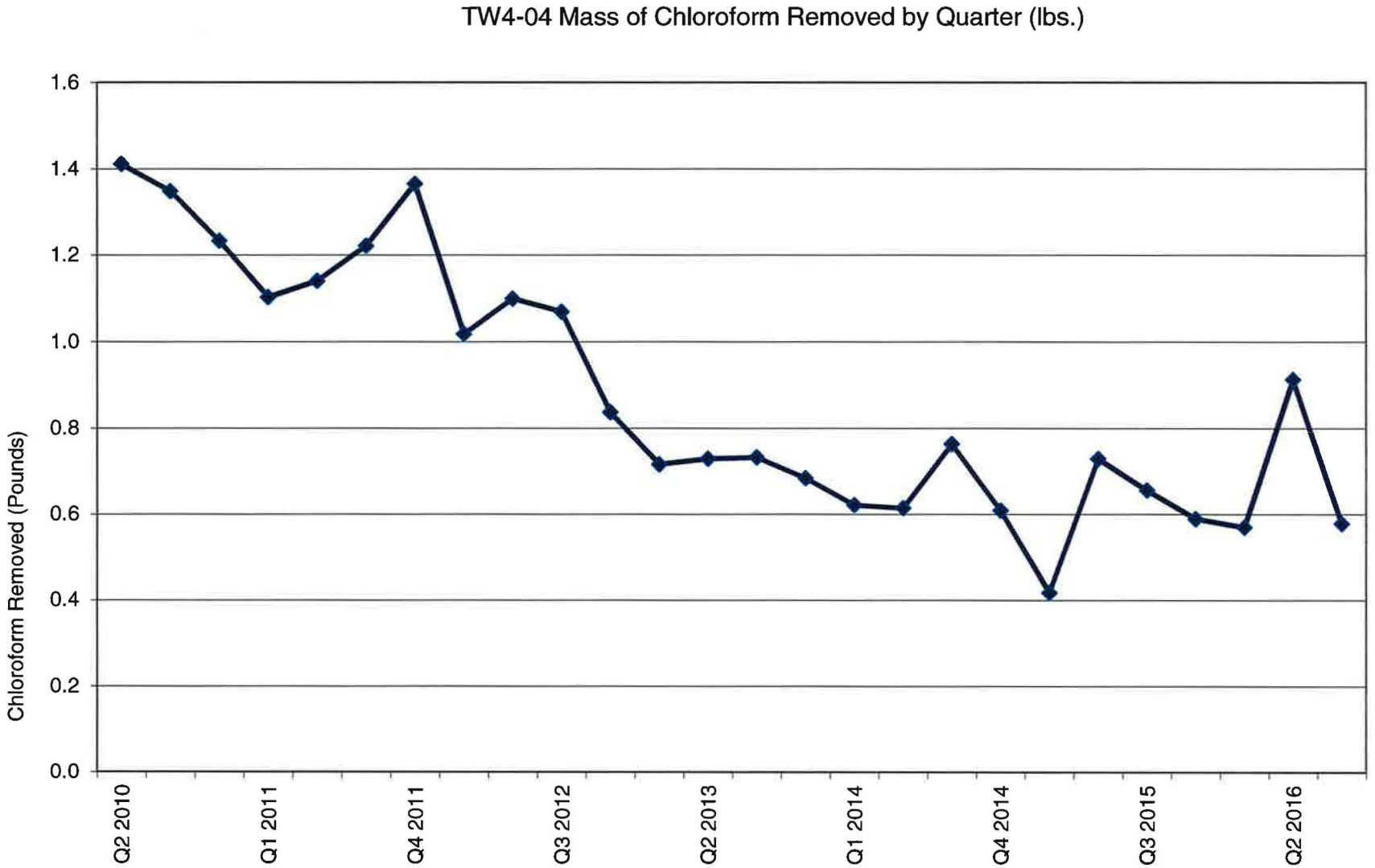

Q1 2007 represents the cumulative total prior to and including Q1 2007.

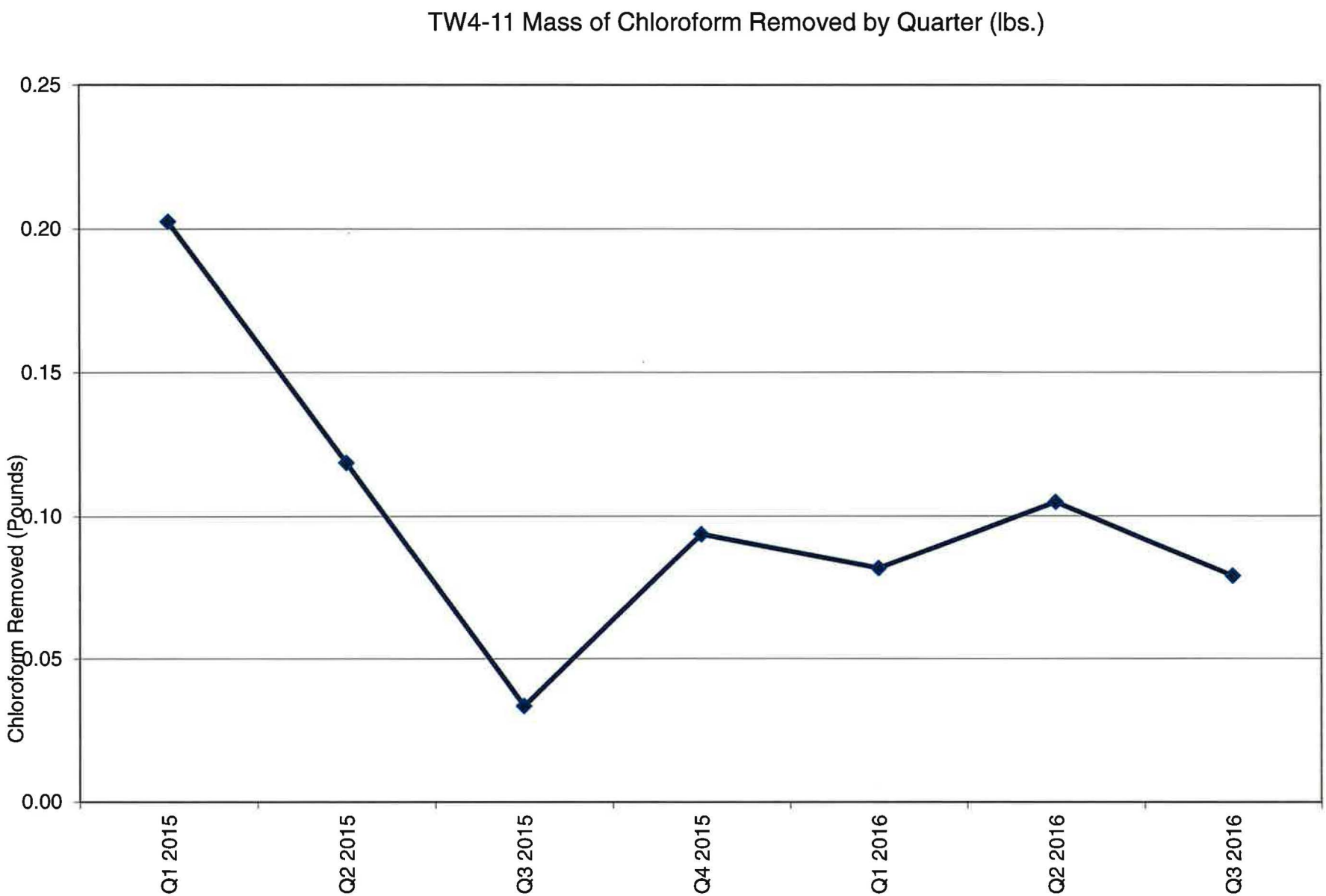


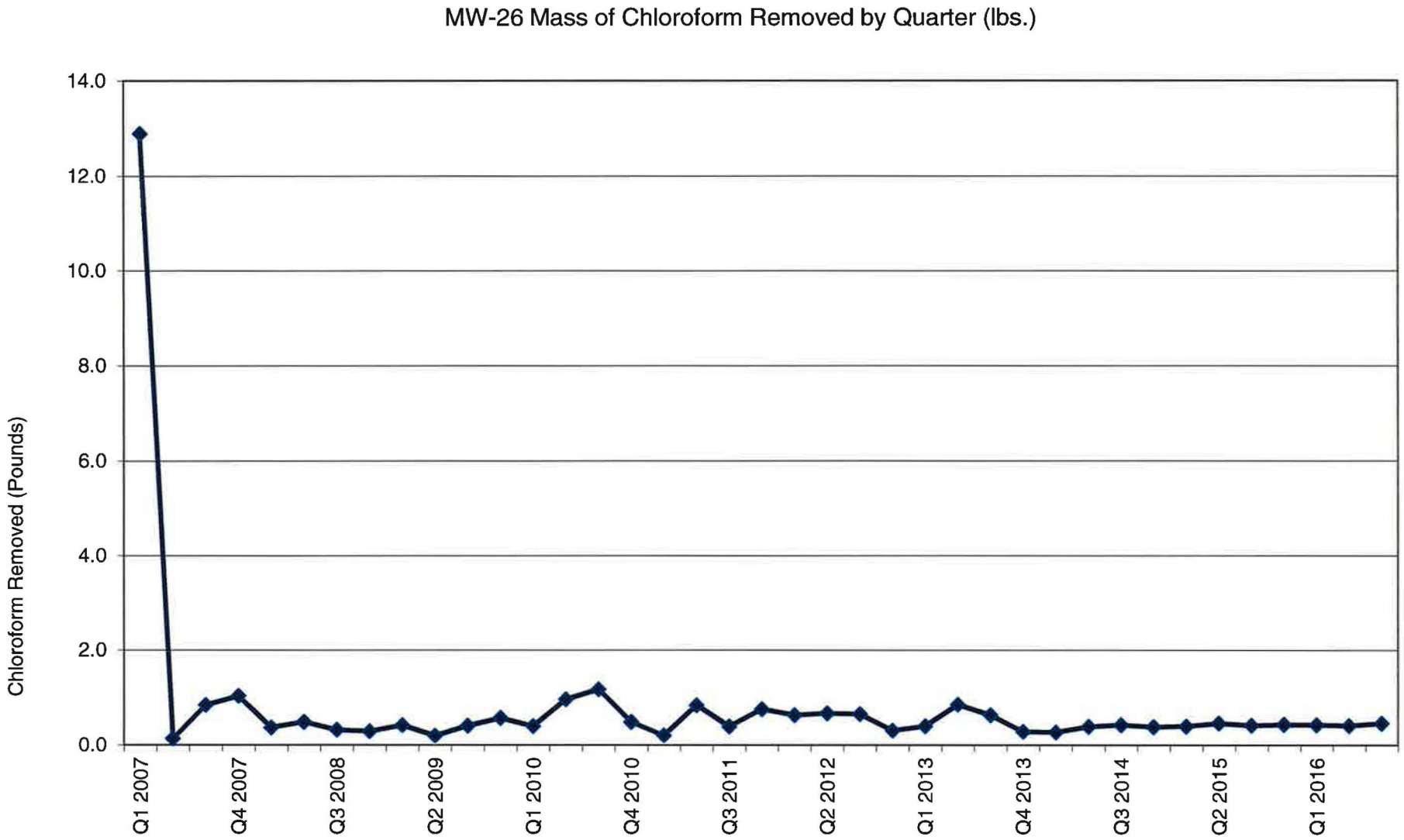

Q1 2007 represents the cumulative total prior to and including Q1 2007.


TW4-01 Mass of Chloroform Removed by Quarter (lbs.)
Chloroform Removed (Pounds)
0.30
0.25
0.20
0.15
0.10
0.05
0.00
Q1 2015
Q2 2015
Q3 2015
Q4 2015
Q1 2016
Q2 2016
Q3 2016

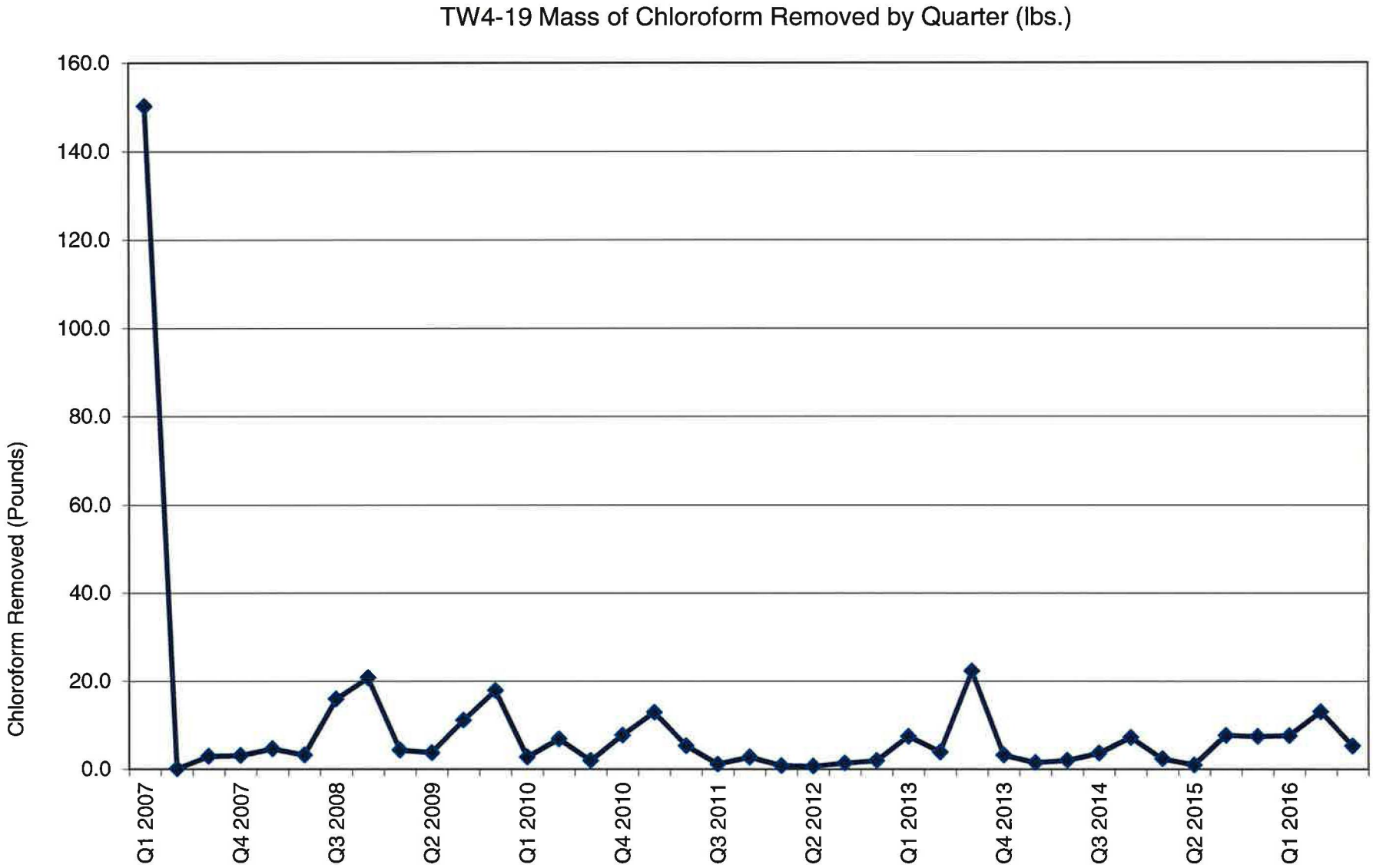

TW4-02 Mass of Chloroform Removed by Quarter (lbs.)
Chloroform Removed (Pounds)
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
Q1 2015
Q2 2015
Q3 2015
Q4 2015
Q1 2016
Q2 2016
Q3 2016


TW4-04 Mass of Chloroform Removed by Quarter (lbs.)
Chloroform Removed (Pounds)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Q2 2010
Q1 2011
Q4 2011
Q3 2012
Q2 2013
Q1 2014
Q4 2014
Q3 2015
Q2 2016

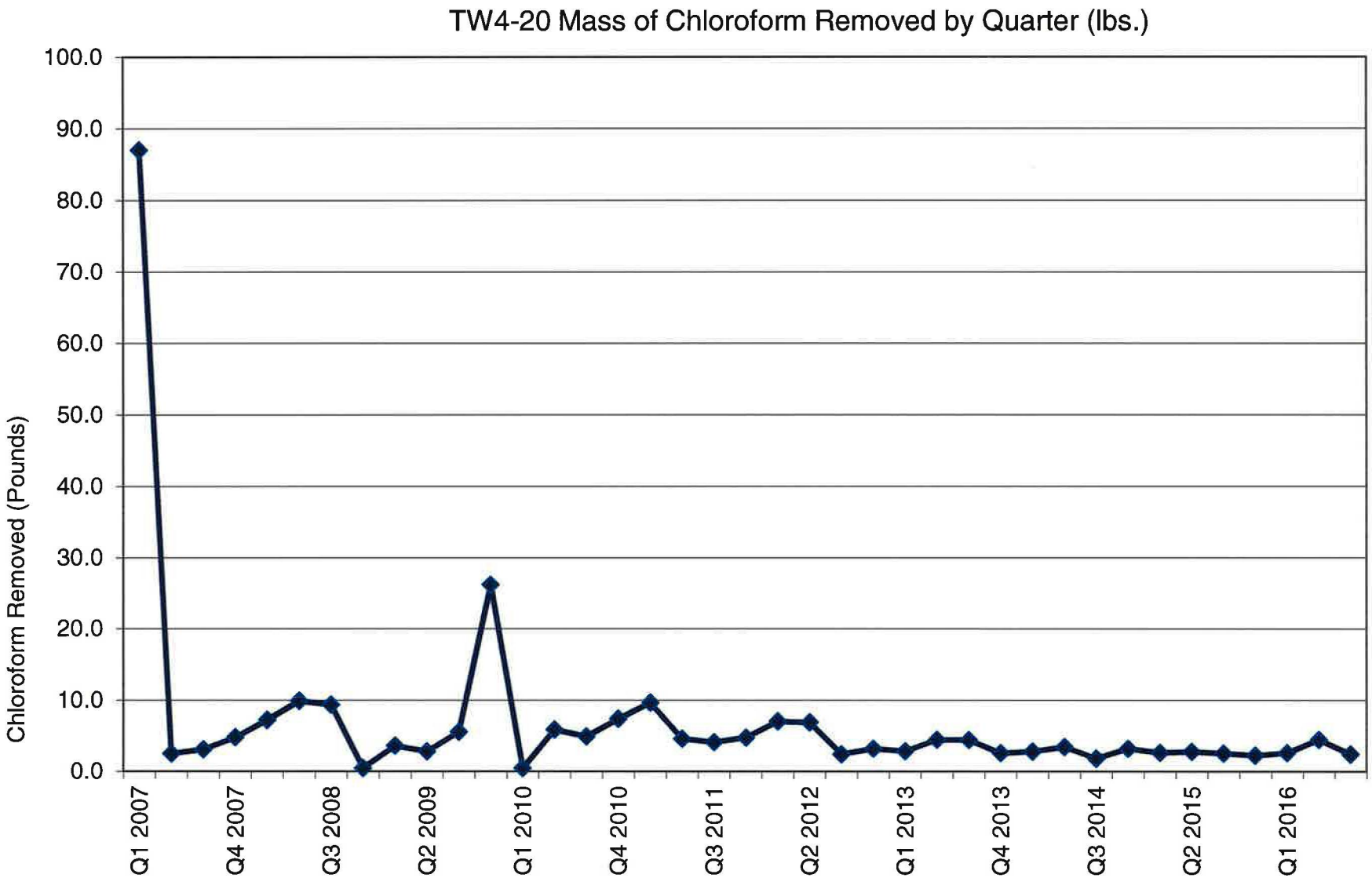

TW4-11 Mass of Chloroform Removed by Quarter (lbs.)
Chloroform Removed (Pounds)
0.25
0.20
0.15
0.10
0.05
0.00
Q1 2015
Q2 2015
Q3 2015
Q4 2015
Q1 2016
Q2 2016
Q3 2016



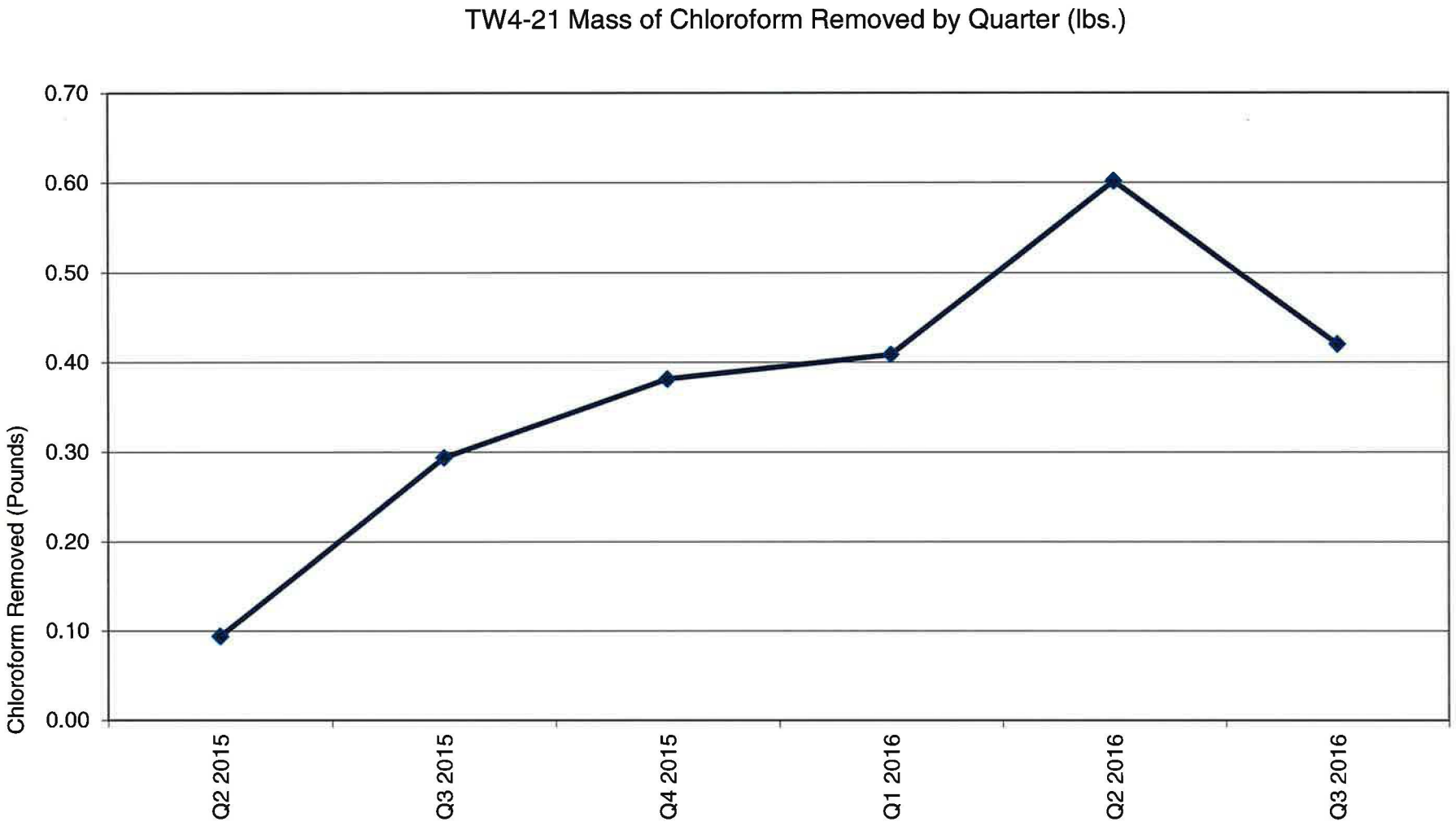

Q1 2007 represents the cumulative total prior to and including Q1 2007.

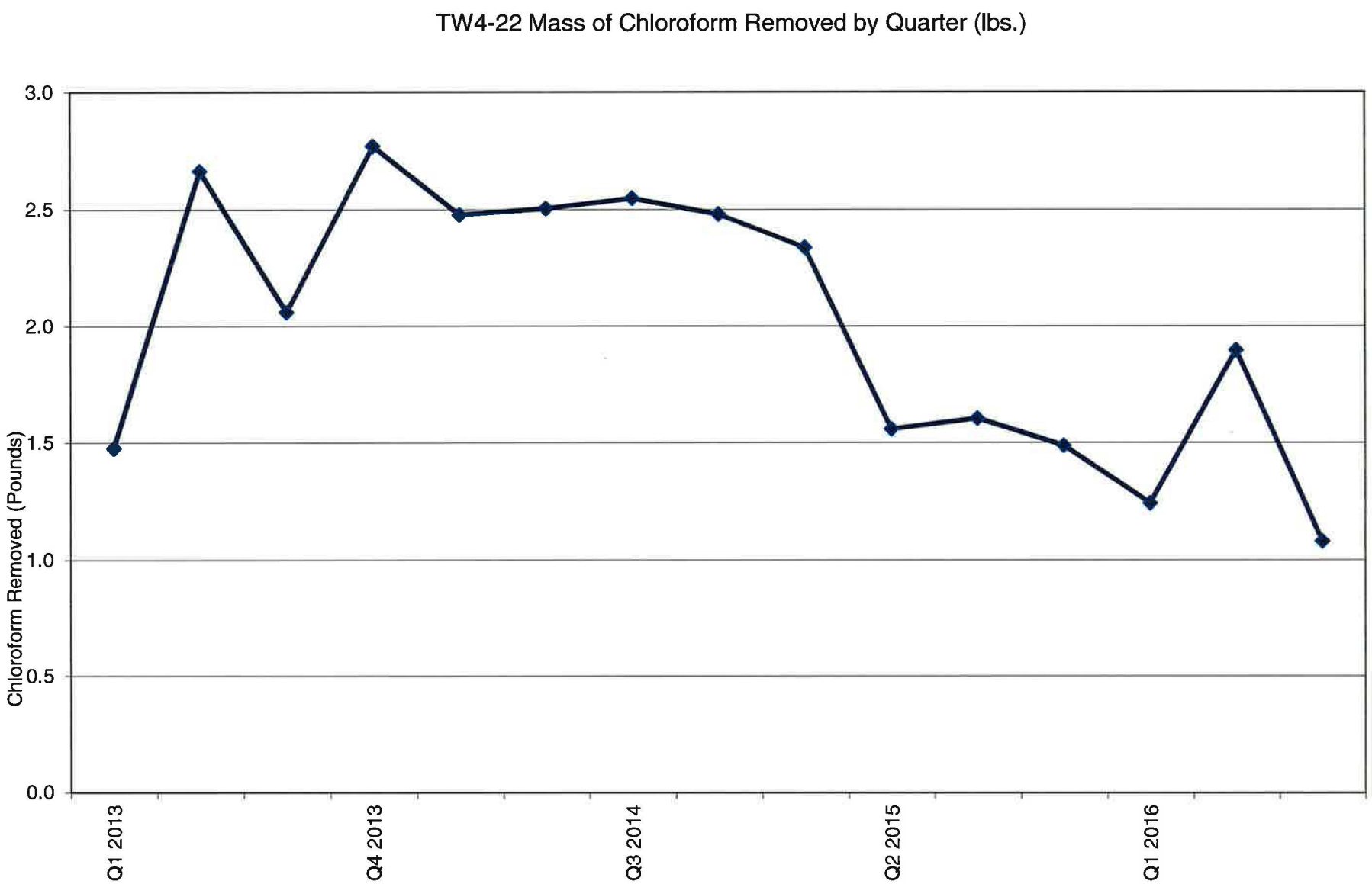


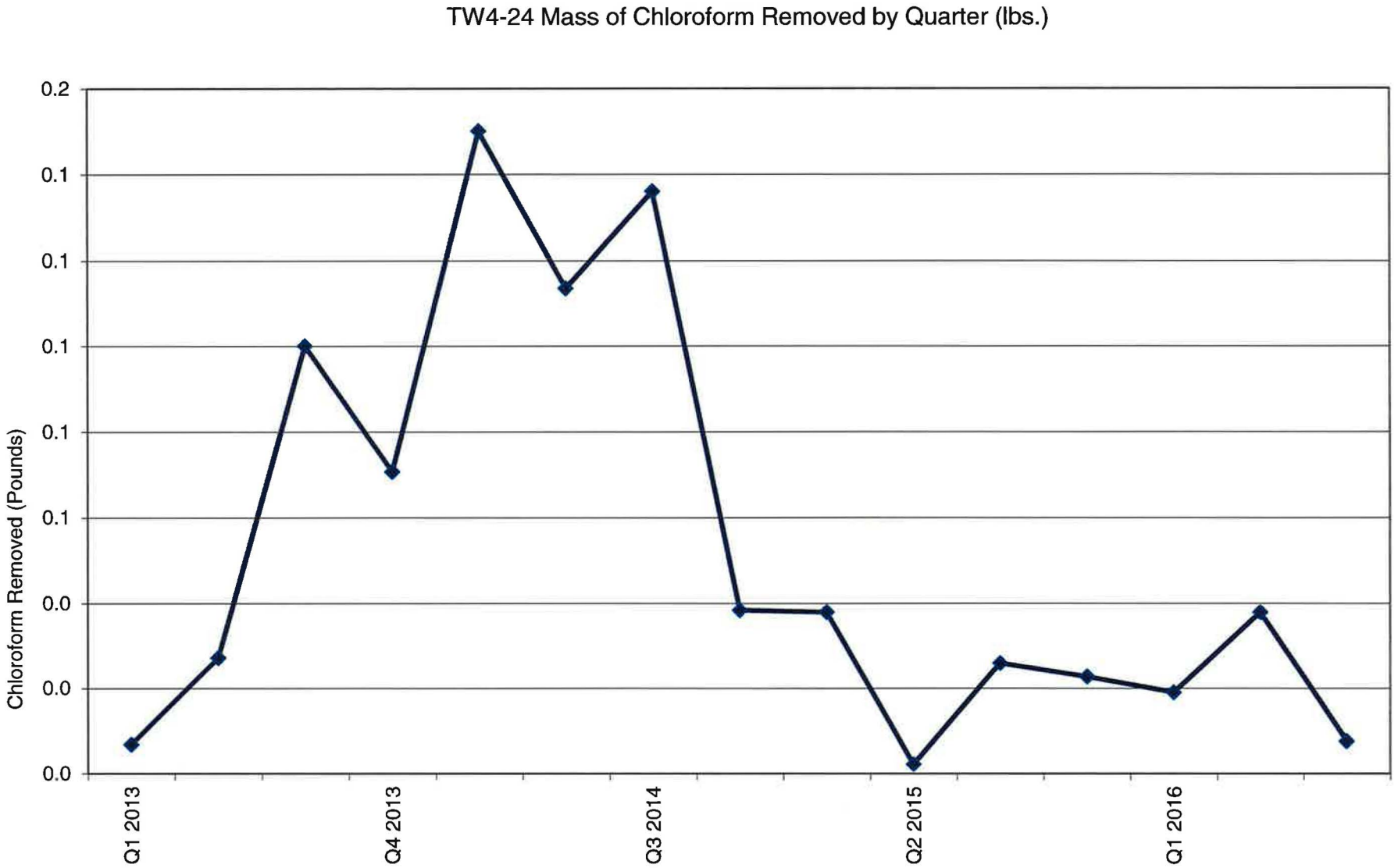

Q1 2007 represents the cumulative total prior to and including Q1 2007.

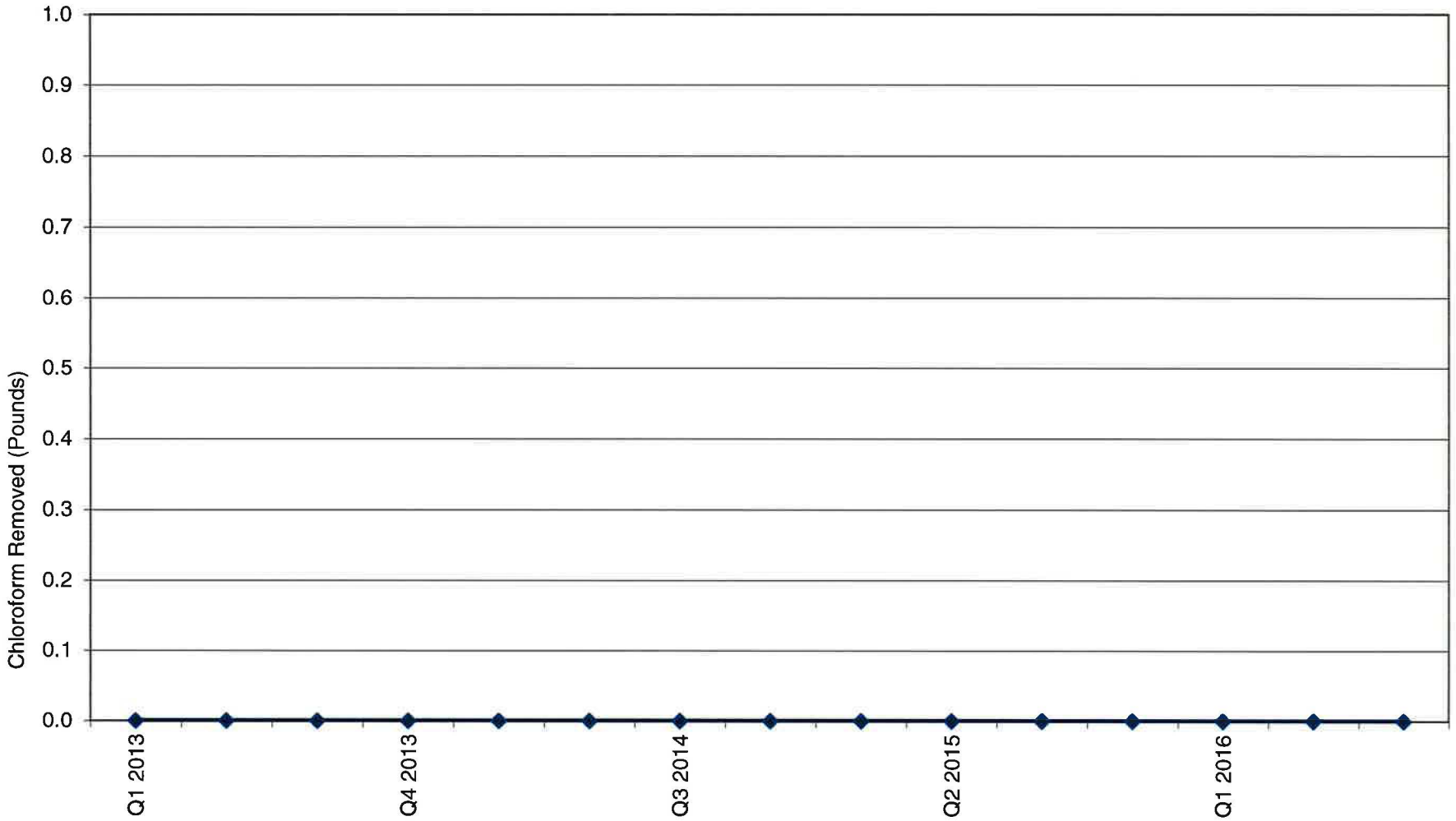


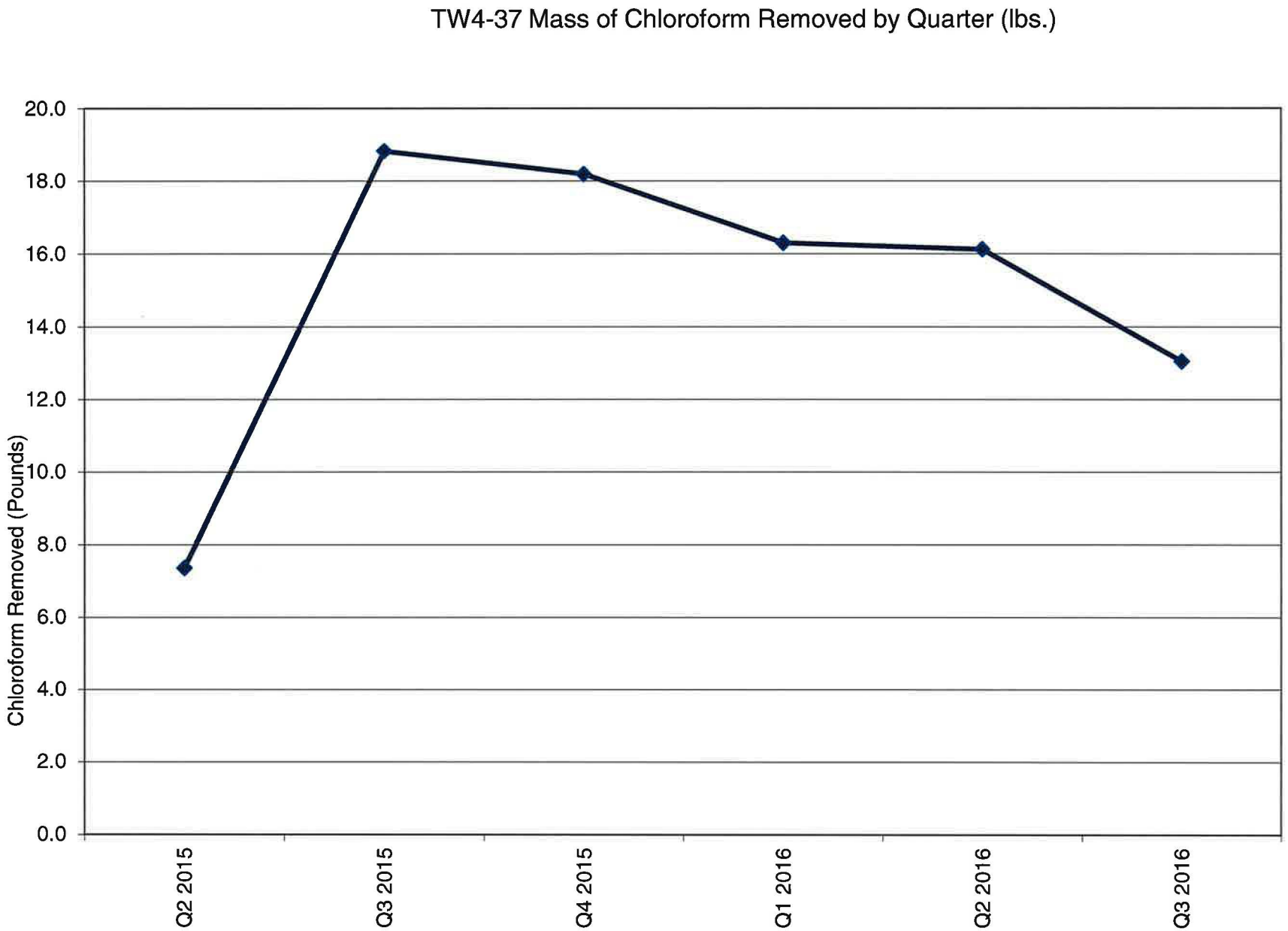

Q1 2007 represents the cumulative total prior to and including Q1 2007.

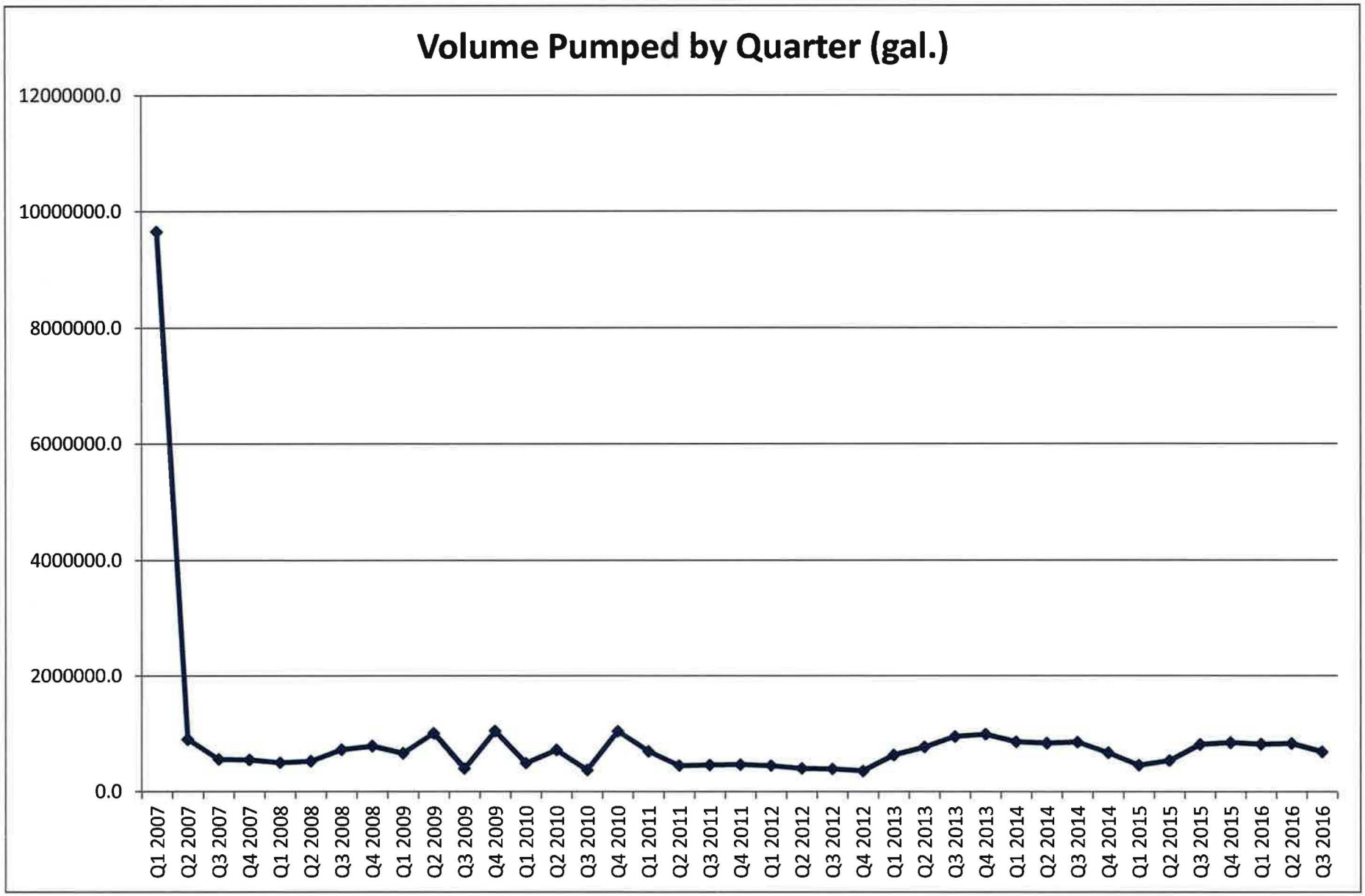

TW4-21 Mass of Chloroform Removed by Quarter (lbs.)
Chloroform Removed (Pounds)
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
Q2 2015
Q3 2015
Q4 2015
Q1 2016
Q2 2016
Q3 2016


TW4-22 Mass of Chloroform Removed by Quarter (lbs.)
Chloroform Removed (Pounds)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Q1 2013
Q4 2013
Q3 2014
Q2 2015
Q1 2016

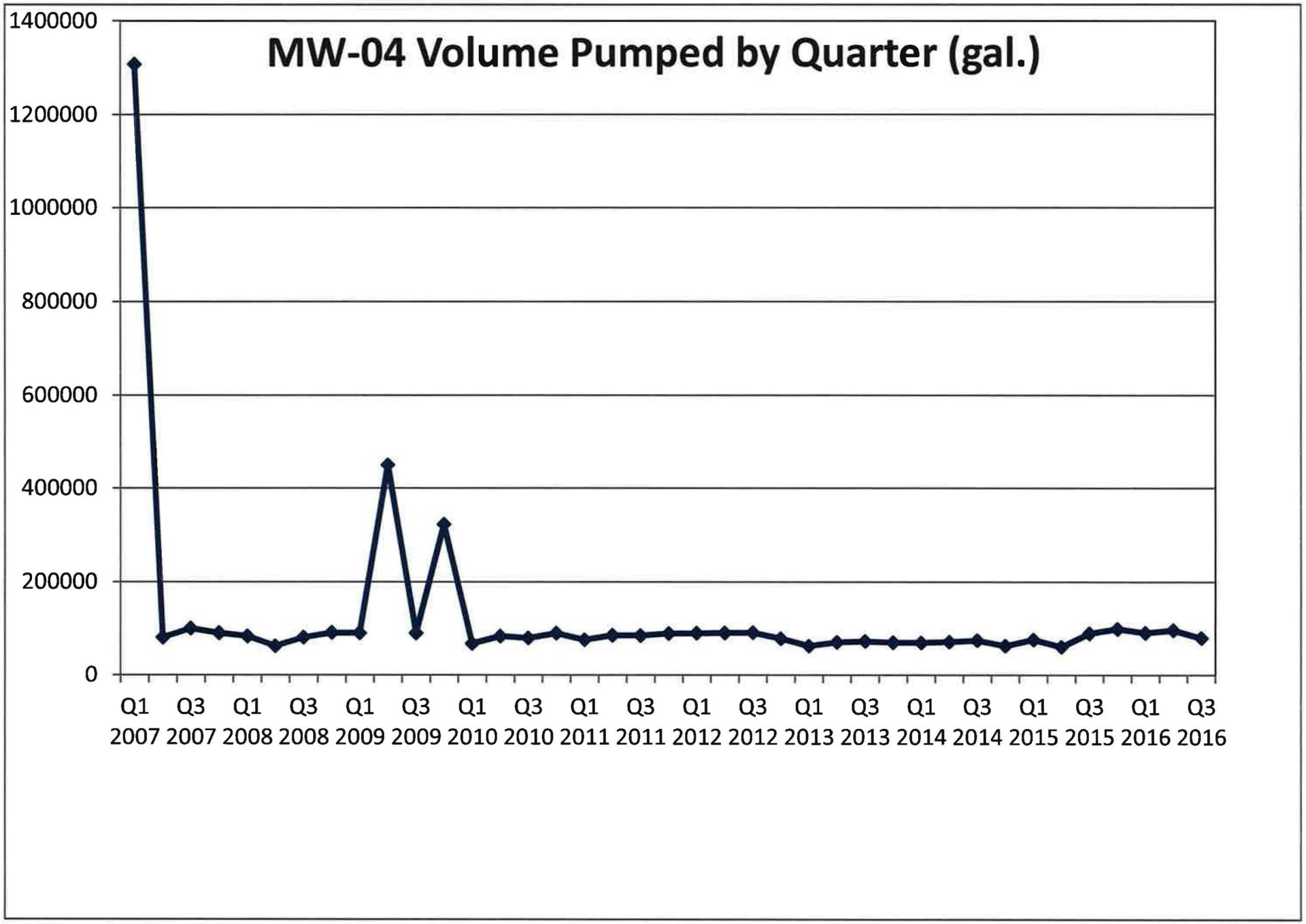

TW4-24 Mass of Chloroform Removed by Quarter (lbs.)
Chloroform Removed (Pounds)
0.2
0.1
0.1
0.1
0.1
0.1
0.0
0.0
0.0
Q1 2013
Q4 2013
Q3 2014
Q2 2015
Q1 2016


TW4-25 Mass of Chloroform Removed by Quarter (lbs.)
Chloroform Removed (Pounds)
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
Q1 2013
Q4 2013
Q3 2014
Q2 2015
Q1 2016

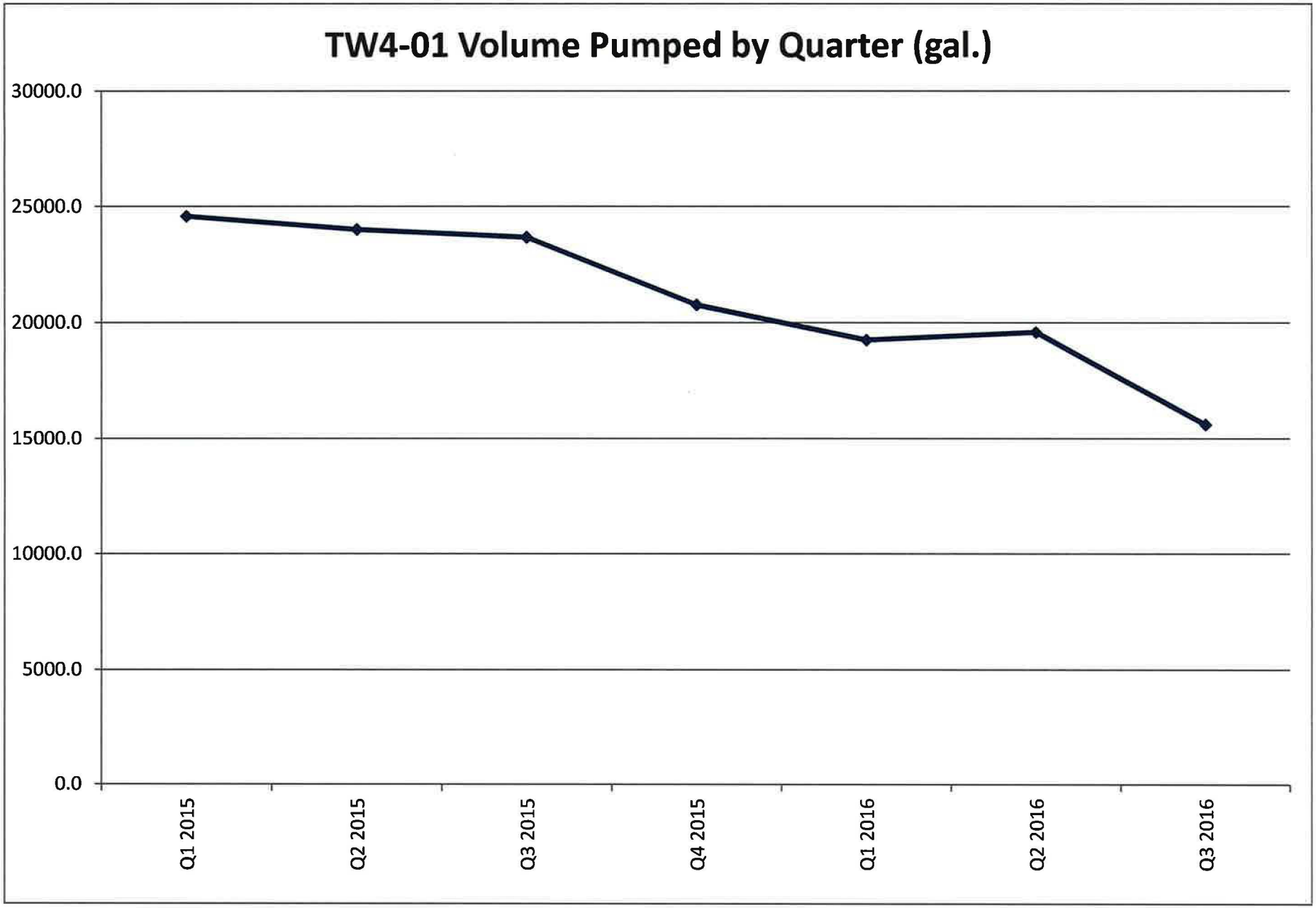

TW4-37 Mass of Chloroform Removed by Quarter (lbs.)
Chloroform Removed (Pounds)
20.0
18.0
16.0
14.0
12.0
10.0
8.0
6.0
4.0
2.0
0.0
Q2 2015
Q3 2015
Q4 2015
Q1 2016
Q2 2016
Q3 2016

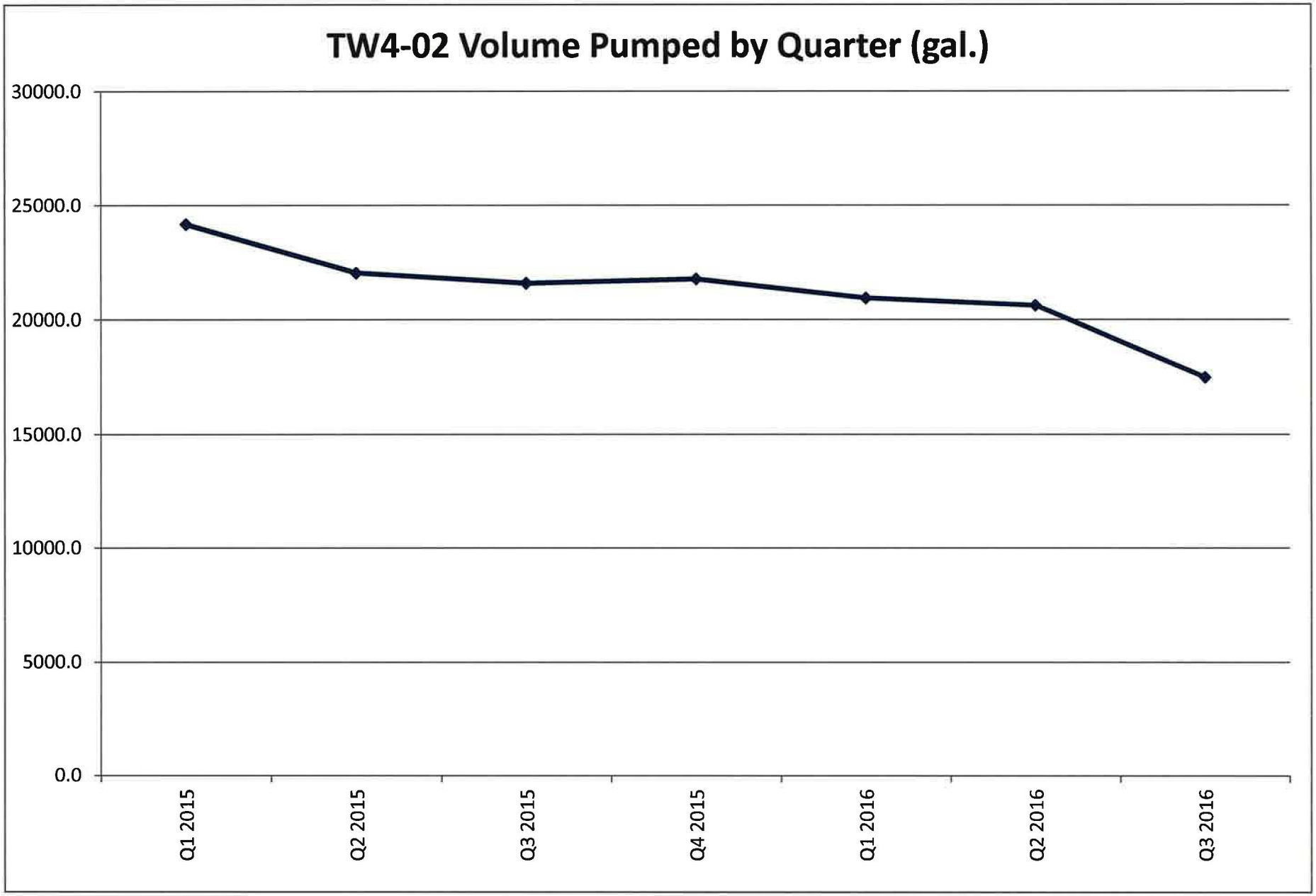


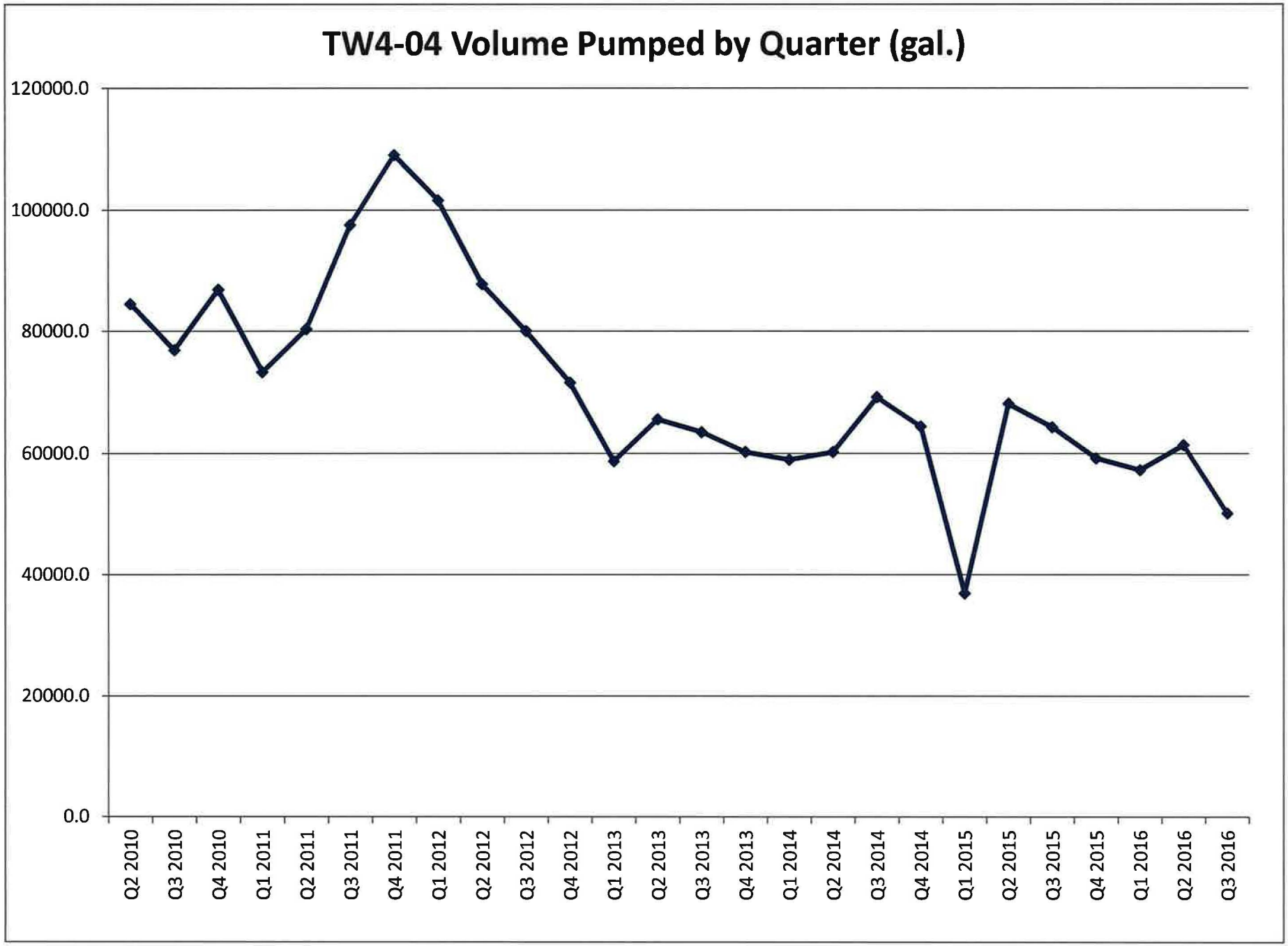

Q1 2007 represents the cumulative total prior to and including Q1 207.

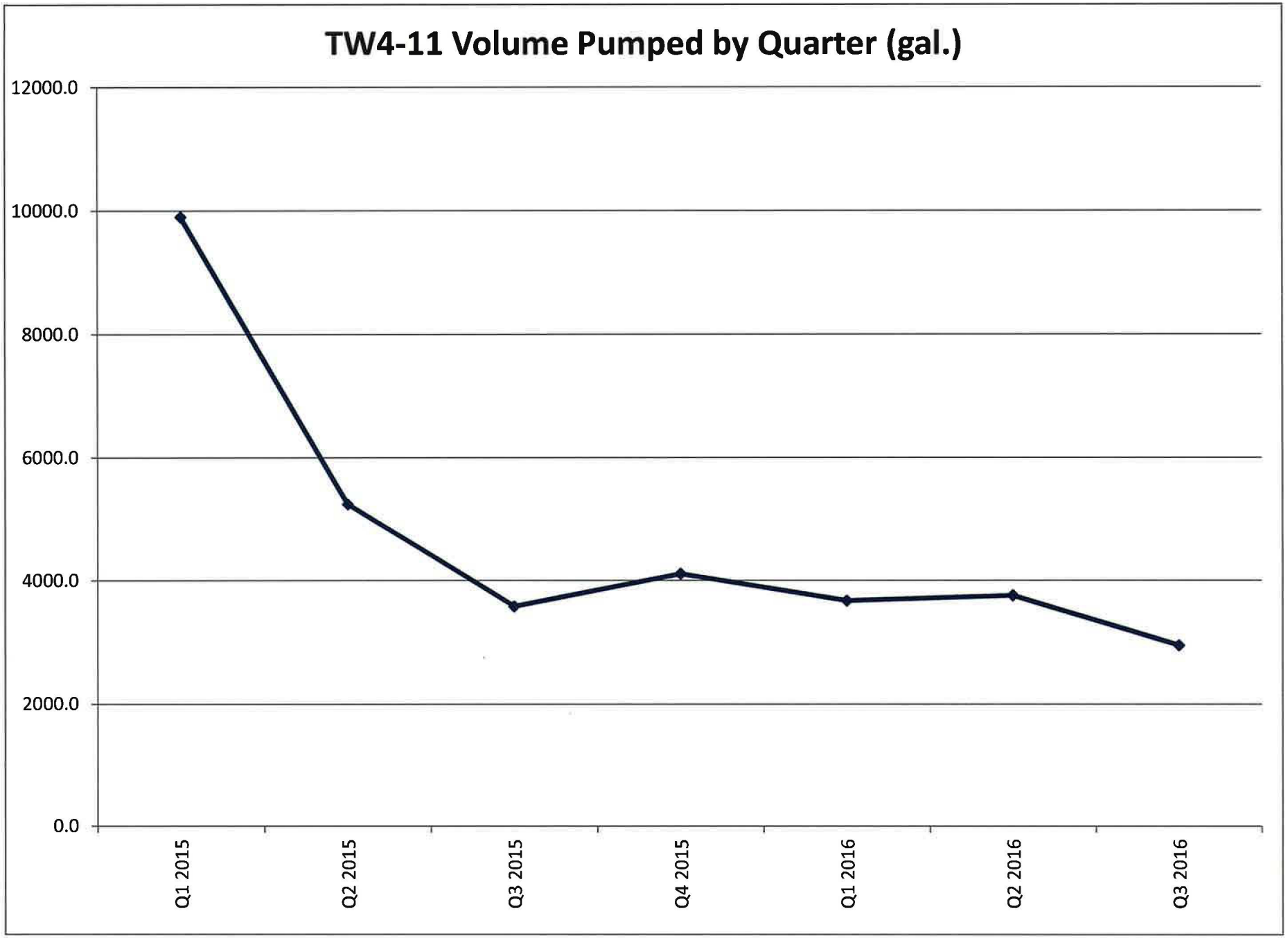


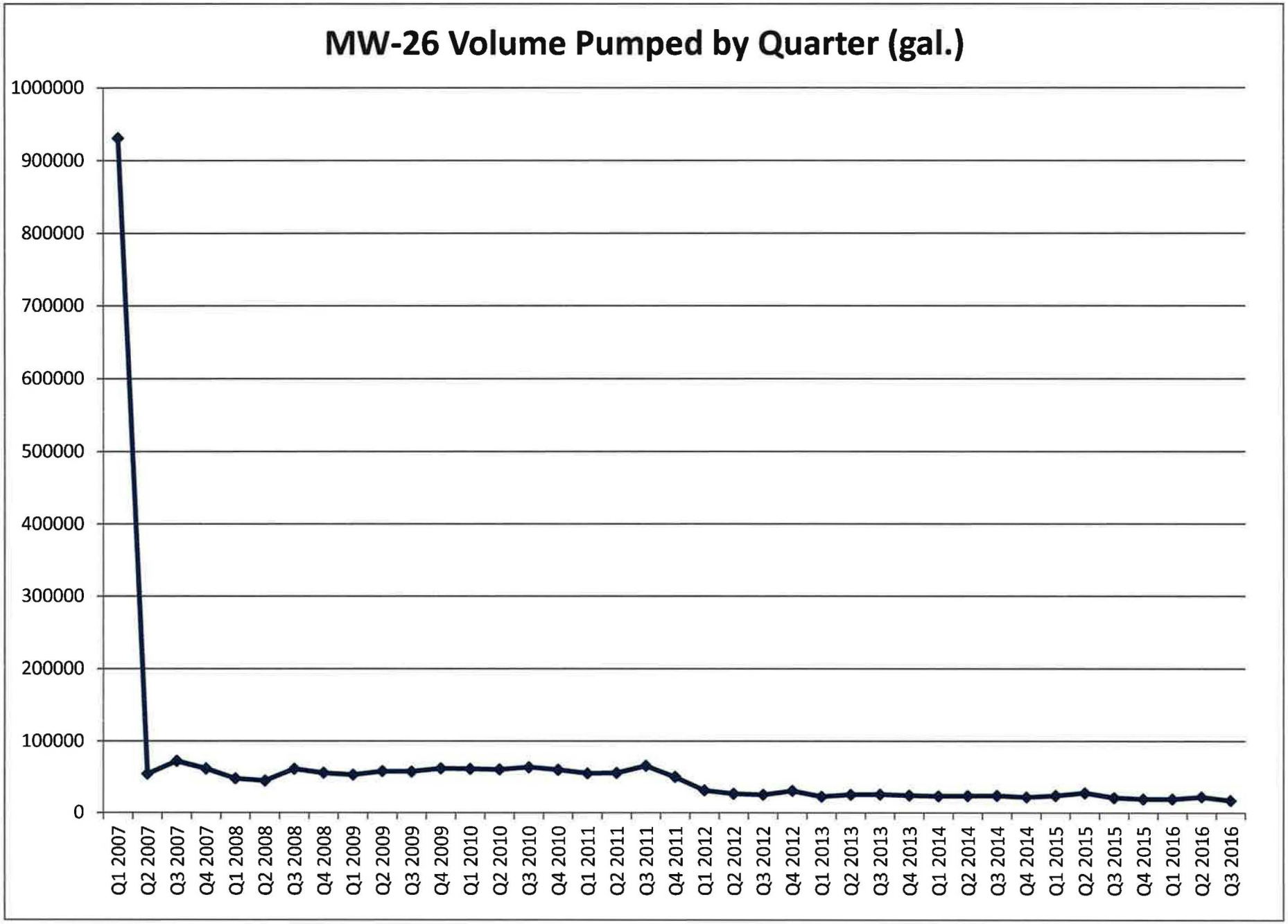

Q1 2007 represents the cumulative total prior to and including Q1 2007.


TW4-01 Volume Pumped by Quarter (gal.)
30000.0
25000.0
20000.0
15000.0
10000.0
5000.0
0.0
Q1 2015
Q2 2015
Q3 2015
Q4 2015
Q1 2016
Q2 2016
Q3 2016

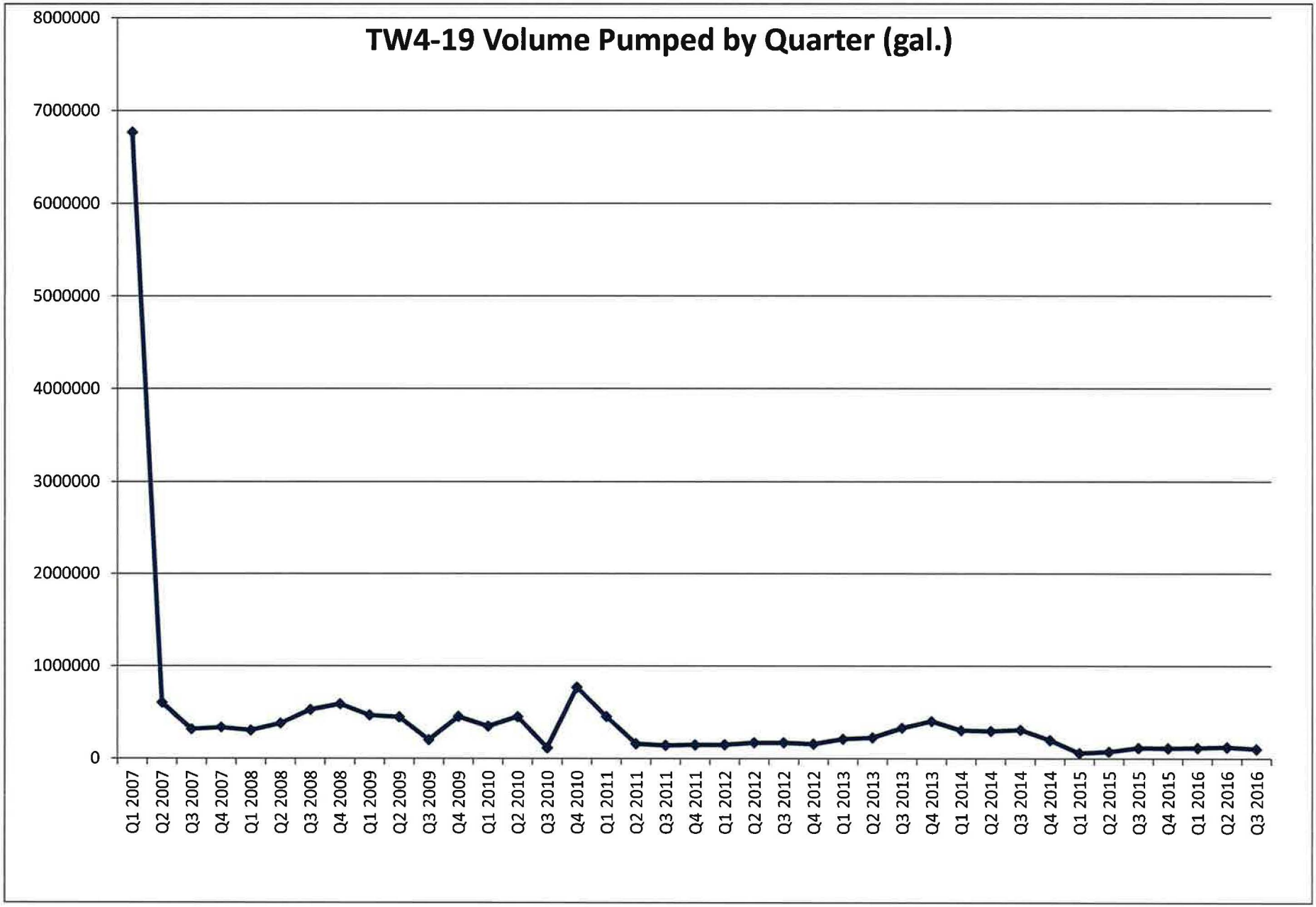

TW4-02 Volume Pumped by Quarter (gal.)
30000.0
25000.0
20000.0
15000.0
10000.0
5000.0
0.0
Q1 2015
Q2 2015
Q3 2015
Q4 2015
Q1 2016
Q2 2016
Q3 2016


TW4-04 Volume Pumped by Quarter (gal.)
120000.0
100000.0
80000.0
60000.0
40000.0
20000.0
0.0
Q2 2010
Q3 2010
Q4 2010
Q1 2011
Q2 2011
Q3 2011
Q4 2011
Q1 2012
Q2 2012
Q3 2012
Q4 2012
Q1 2013
Q2 2013
Q3 2013
Q4 2013
Q1 2014
Q2 2014
Q3 2014
Q4 2014
Q1 2015
Q2 2015
Q3 2015
Q4 2015
Q1 2016
Q2 2016
Q3 2016

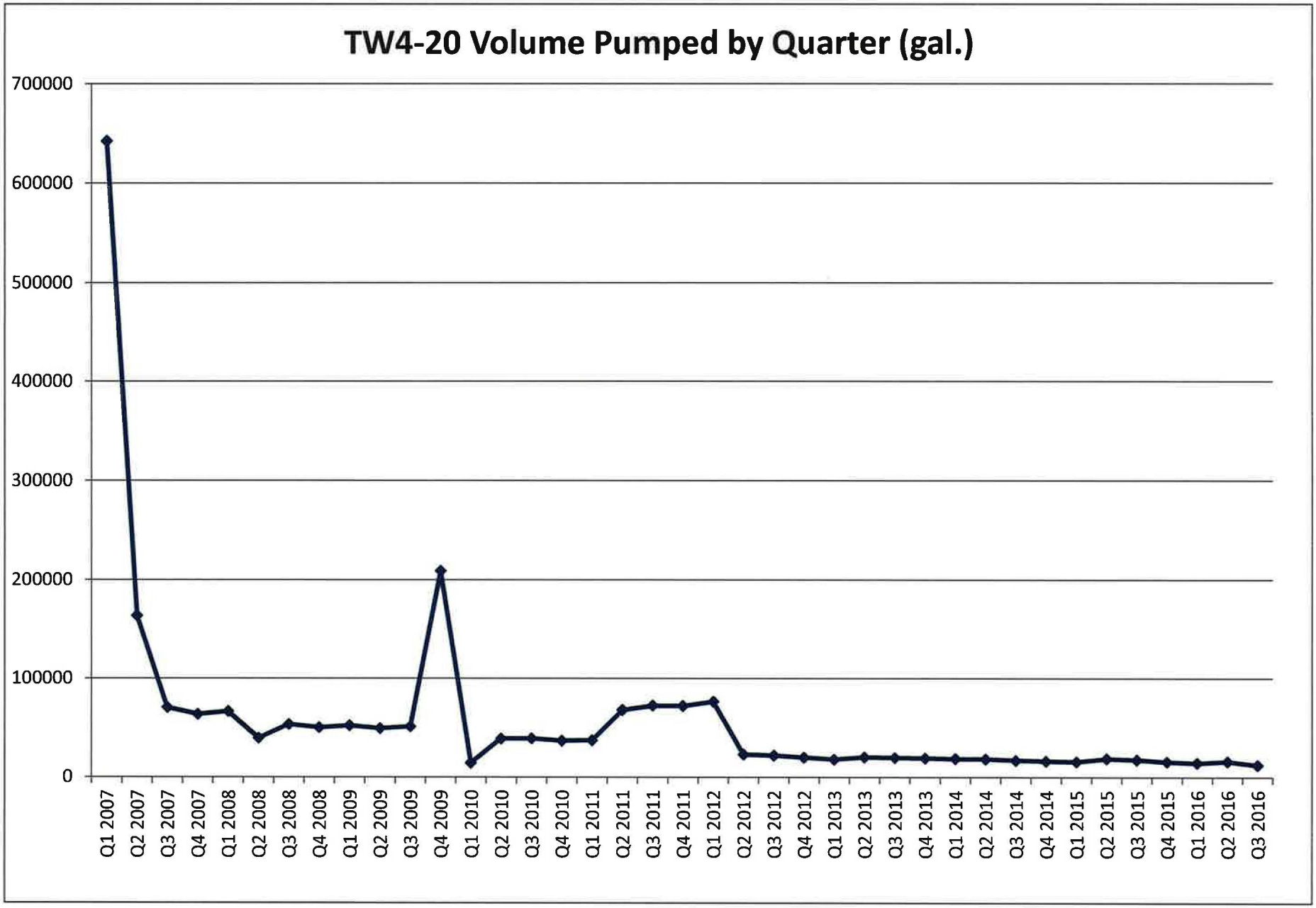

TW4-11 Volume Pumped by Quarter (gal.)
12000.0
10000.0
8000.0
6000.0
4000.0
2000.0
0.0
Q1 2015
Q2 2015
Q3 2015
Q4 2015
Q1 2016
Q2 2016
Q3 2016



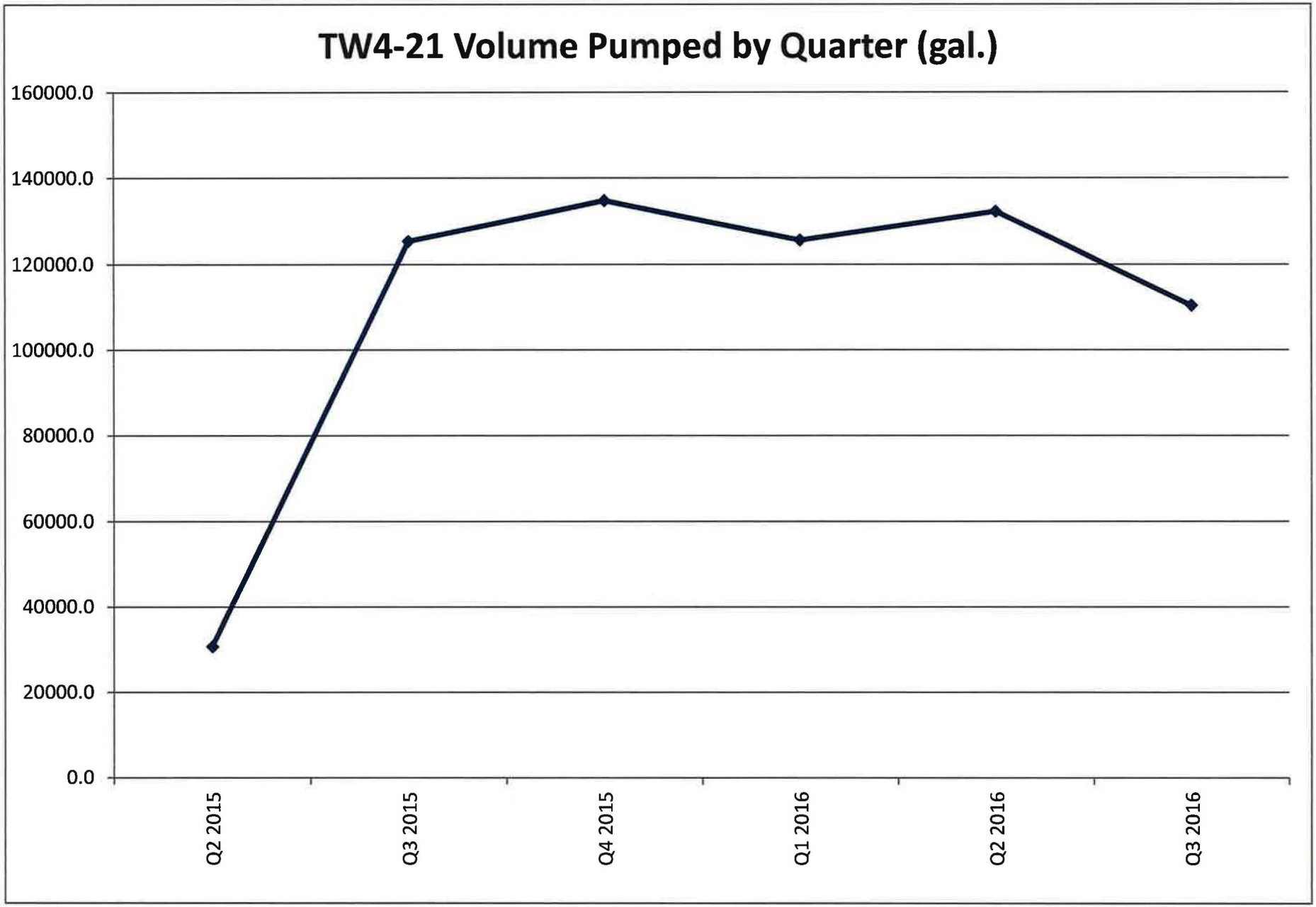

Q1 2007 represents the cumulative total prior to and including Q1 2007.

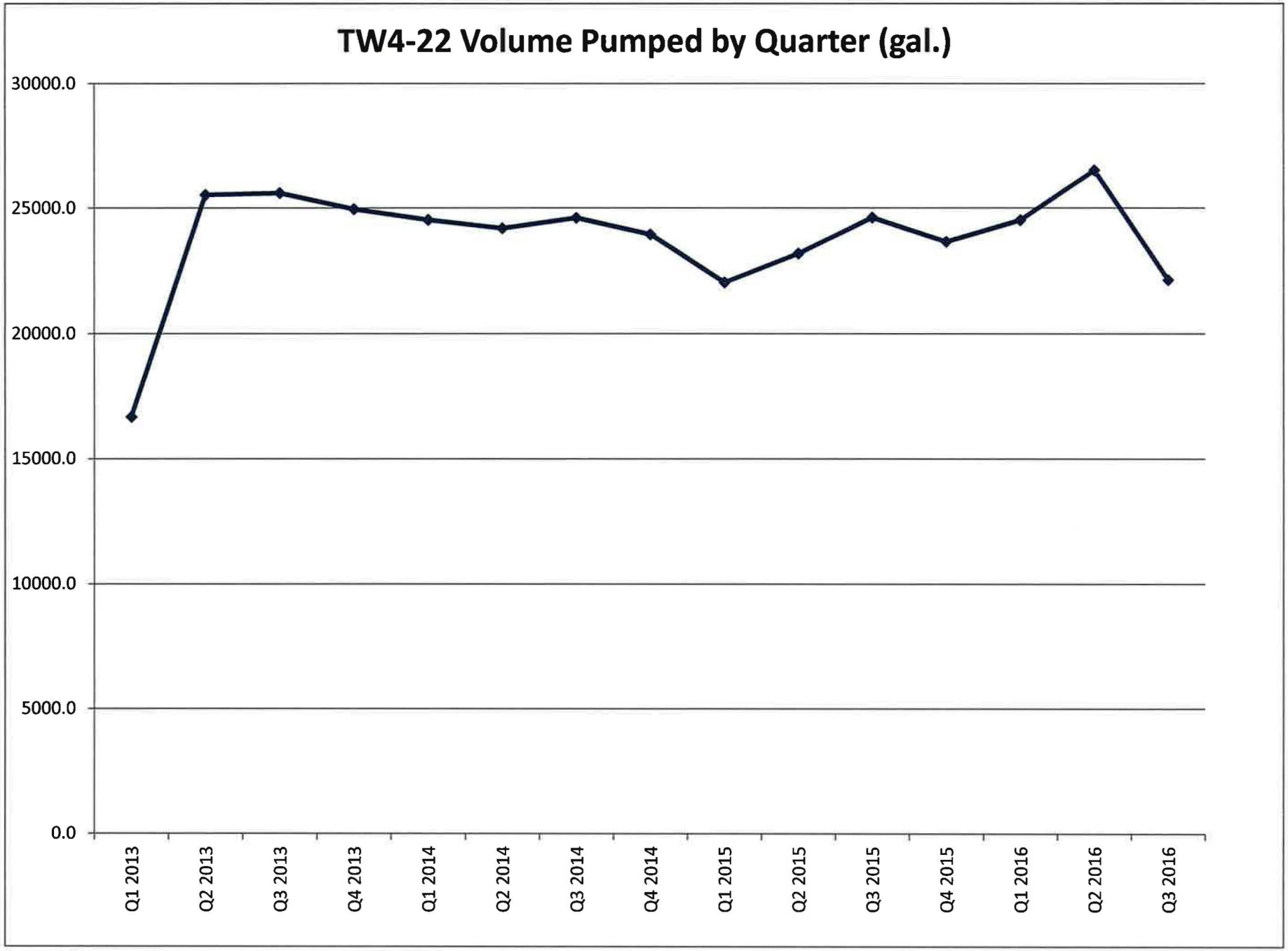


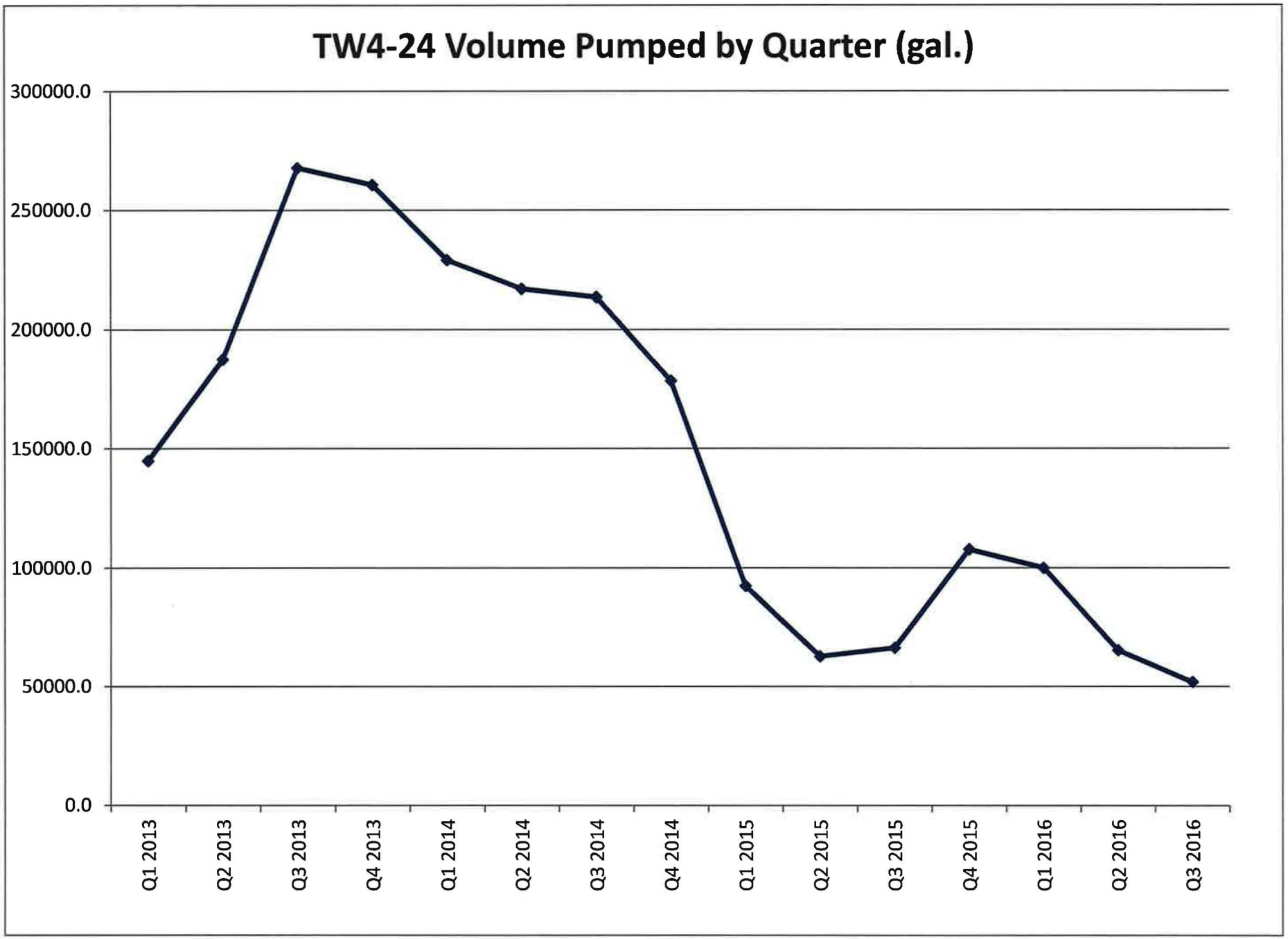

Q1 2007 represents the cumulative total prior to and including Q1 2007.

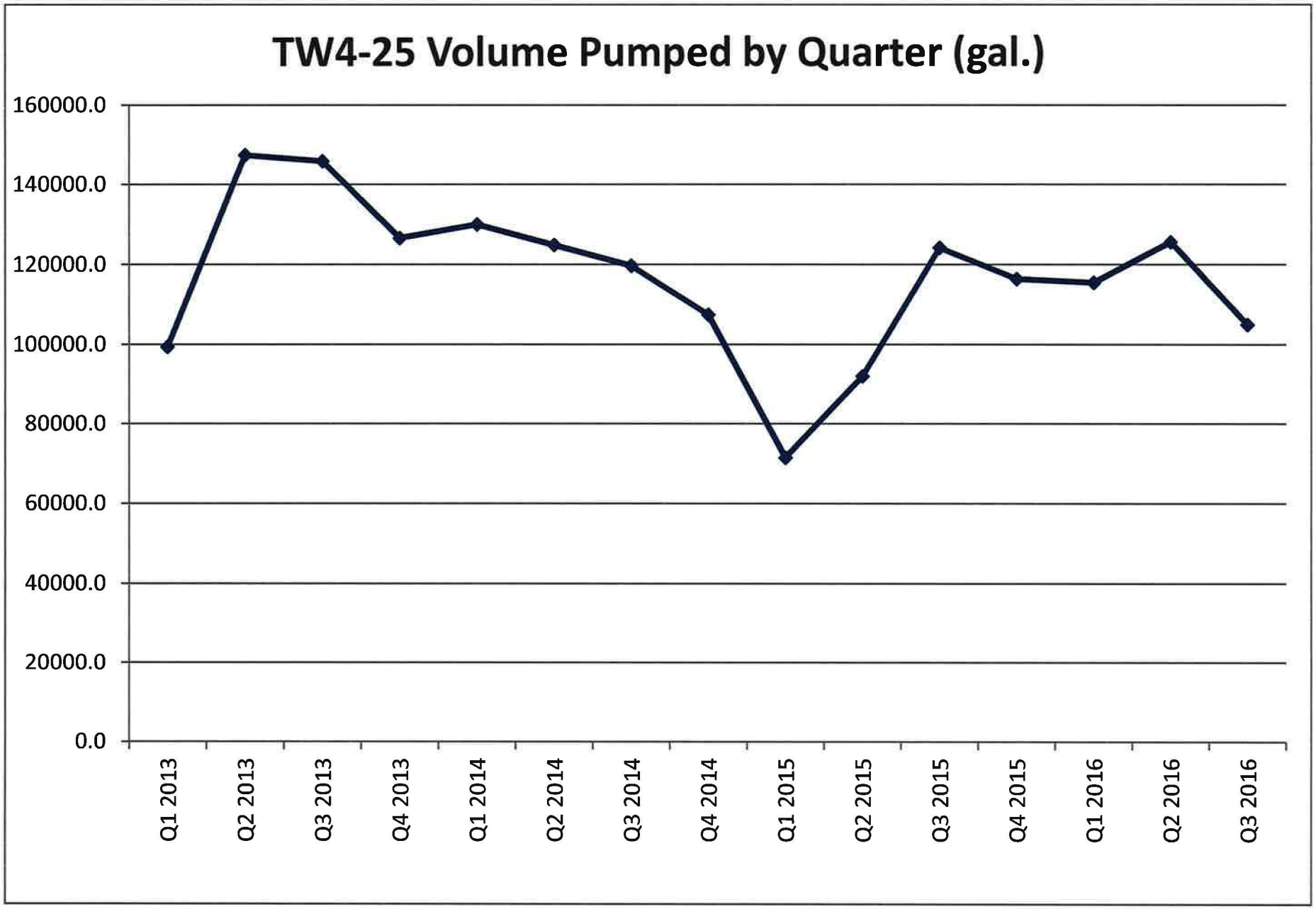


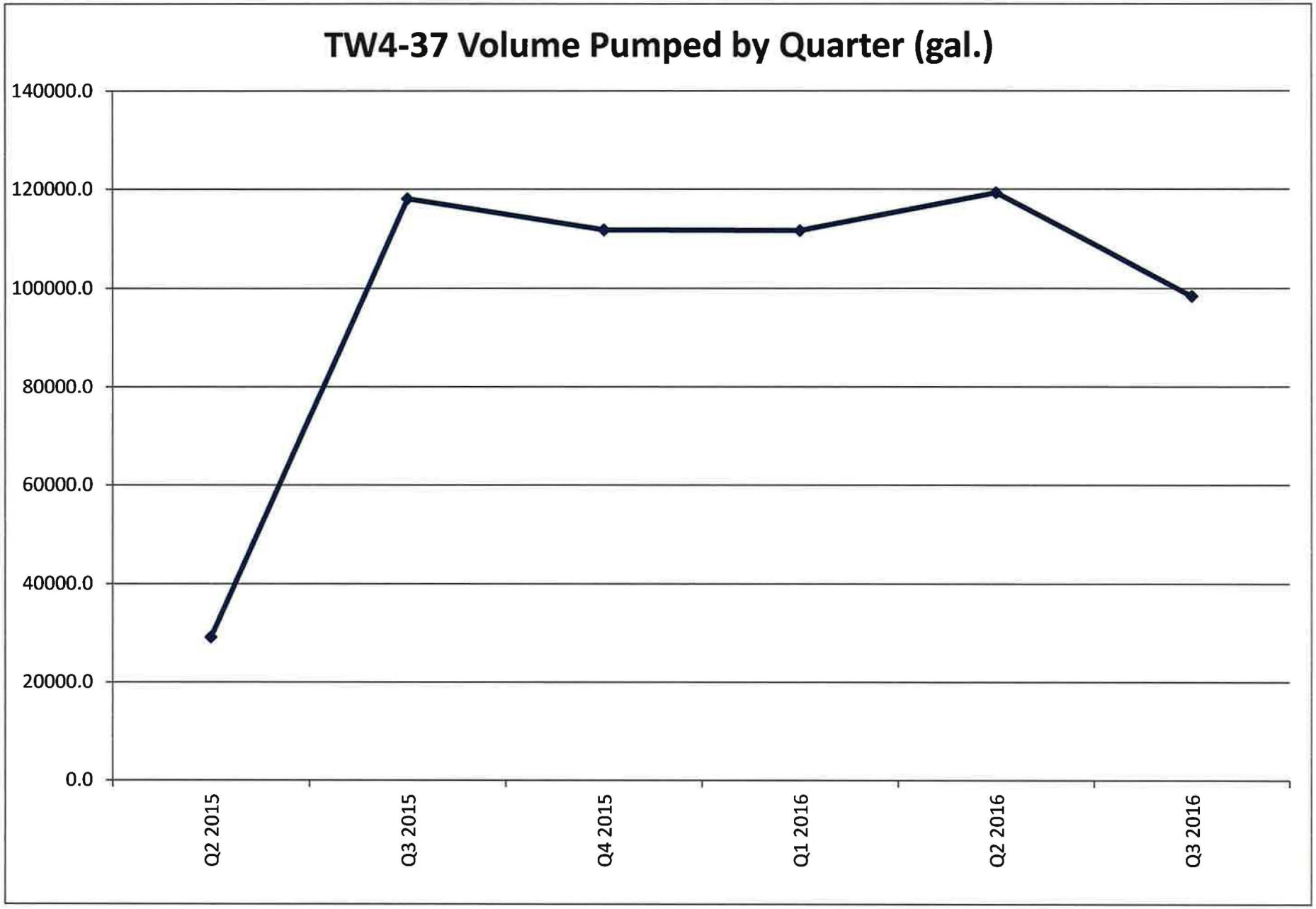

Q1 2007 represents the cumulative total prior to and including Q1 2007.


TW4-21 Volume Pumped by Quarter (gal.)
160000.0
140000.0
120000.0
100000.0
80000.0
60000.0
40000.0
20000.0
0.0
Q2 2015
Q3 2015
Q4 2015
Q1 2016
Q2 2016
Q3 2016


TW4-22 Volume Pumped by Quarter (gal.)
30000.0
25000.0
20000.0
15000.0
10000.0
5000.0
0.0
Q1 2013
Q2 2013
Q3 2013
Q4 2013
Q1 2014
Q2 2014
Q3 2014
Q4 2014
Q1 2015
Q2 2015
Q3 2015
Q4 2015
Q1 2016
Q2 2016
Q3 2016


TW4-24 Volume Pumped by Quarter (gal.)
300000.0
250000.0
200000.0
150000.0
100000.0
50000.0
0.0
Q1 2013
Q2 2013
Q3 2013
Q4 2013
Q1 2014
Q2 2014
Q3 2014
Q4 2014
Q1 2015
Q2 2015
Q3 2015
Q4 2015
Q1 2016
Q2 2016
Q3 2016


TW4-25 Volume Pumped by Quarter (gal.)
160000.0
140000.0
120000.0
100000.0
80000.0
60000.0
40000.0
20000.0
0.0
Q1 2013
Q2 2013
Q3 2013
Q4 2013
Q1 2014
Q2 2014
Q3 2014
Q4 2014
Q1 2015
Q2 2015
Q3 2015
Q4 2015
Q1 2016
Q2 2016
Q3 2016


TW4-37 Volume Pumped by Quarter (gal.)
140000.0
120000.0
100000.0
80000.0
60000.0
40000.0
20000.0
0.0
Q2 2015
Q3 2015
Q4 2015
Q1 2016
Q2 2016
Q3 2016

Tab H

Laboratory Analytical Reports

# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
**Project:** 3rd Quarter Chloroform 2016
**Lab Sample ID:** 1607518-013C
**Client Sample ID:** MW-04_07252016
**Collection Date:** 7/25/2016 1432h
**Received Date:** 7/29/2016 1600h
Test Code: 8260-W-DEN100

**Analytical Results** VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 8/2/2016 1543h
**Units:** µg/L **Dilution Factor:** 50 **Method:** SW8260C

| Compound | CAS Number | Reporting Limit | Analytical Result | Qual |
|---|---|---|---|---|
| Chloroform | 67-66-3 | 50.0 | **1,430** | ~ |

| Surrogate | CAS | Result | Amount Spiked | % REC | Limits | Qual |
|---|---|---|---|---|---|---|
| Surr: 1,2-Dichloroethane-d4 | 17060-07-0 | 2,680 | 2,500 | 107 | 72-151 | |
| Surr: 4-Bromofluorobenzene | 460-00-4 | 2,520 | 2,500 | 101 | 80-152 | |
| Surr: Dibromofluoromethane | 1868-53-7 | 2,590 | 2,500 | 104 | 80-124 | |
| Surr: Toluene-d8 | 2037-26-5 | 2,510 | 2,500 | 101 | 77-129 | |

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

**Analyzed:** 8/1/2016 1807h
**Units:** µg/L **Dilution Factor:** 1 **Method:** SW8260C

| 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 | < 1.00 | |

| Surrogate | CAS | Result | Amount Spiked | % REC | Limits | Qual |
|---|---|---|---|---|---|---|
| Surr: 1,2-Dichloroethane-d4 | 17060-07-0 | 55.5 | 50.00 | 111 | 72-151 | |
| Surr: 4-Bromofluorobenzene | 460-00-4 | 48.2 | 50.00 | 96.4 | 80-152 | |
| Surr: Dibromofluoromethane | 1868-53-7 | 54.5 | 50.00 | 109 | 80-124 | |
| Surr: Toluene-d8 | 2037-26-5 | 50.3 | 50.00 | 101 | 77-129 | |

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QA Officer


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# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
**Project:** 3rd Quarter Chloroform 2016
**Lab Sample ID:** 1607518-013
**Client Sample ID:** MW-04_07252016
**Collection Date:** 7/25/2016 1432h
**Received Date:** 7/29/2016 1600h

**Analytical Results**

| Compound | Units | Date Prepared | Date Analyzed | Method Used | Reporting Limit | Analytical Result | Qual |
|---|---|---|---|---|---|---|---|
| Chloride | mg/L | | 8/1/2016 1857h | E300.0 | 10.0 | **42.5** | |
| Nitrate/Nitrite (as N) | mg/L | | 8/1/2016 1814h | E353.2 | 0.100 | **4.95** | |

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# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
**Project:** 3rd Quarter Chloroform 2016
**Lab Sample ID:** 1607518-012C
**Client Sample ID:** TW4-01_07252016
**Collection Date:** 7/25/2016 1437h
**Received Date:** 7/29/2016 1600h

Test Code: 8260-W-DEN100

**Analytical Results** VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 8/2/2016 1443h
**Units:** µg/L **Dilution Factor:** 50 **Method:** SW8260C

| Compound | CAS Number | Reporting Limit | Analytical Result | Qual |
|---|---|---|---|---|
| Chloroform | 67-66-3 | 50.0 | **1,160** | ~ |

| Surrogate | CAS | Result | Amount Spiked | % REC | Limits | Qual |
|---|---|---|---|---|---|---|
| Surr: 1,2-Dichloroethane-d4 | 17060-07-0 | 2,730 | 2,500 | 109 | 72-151 | |
| Surr: 4-Bromofluorobenzene | 460-00-4 | 2,560 | 2,500 | 103 | 80-152 | |
| Surr: Dibromofluoromethane | 1868-53-7 | 2,650 | 2,500 | 106 | 80-124 | |
| Surr: Toluene-d8 | 2037-26-5 | 2,490 | 2,500 | 99.5 | 77-129 | |

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

**Analyzed:** 8/1/2016 1747h
**Units:** µg/L **Dilution Factor:** 1 **Method:** SW8260C

| 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 | < 1.00 | |

| Surrogate | CAS | Result | Amount Spiked | % REC | Limits | Qual |
|---|---|---|---|---|---|---|
| Surr: 1,2-Dichloroethane-d4 | 17060-07-0 | 55.2 | 50.00 | 110 | 72-151 | |
| Surr: 4-Bromofluorobenzene | 460-00-4 | 51.9 | 50.00 | 104 | 80-152 | |
| Surr: Dibromofluoromethane | 1868-53-7 | 54.3 | 50.00 | 109 | 80-124 | |
| Surr: Toluene-d8 | 2037-26-5 | 51.1 | 50.00 | 102 | 77-129 | |



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# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
**Project:** 3rd Quarter Chloroform 2016
**Lab Sample ID:** 1607518-012
**Client Sample ID:** TW4-01_07252016
**Collection Date:** 7/25/2016 1437h
**Received Date:** 7/29/2016 1600h

**Analytical Results**

| Compound | Units | Date Prepared | Date Analyzed | Method Used | Reporting Limit | Analytical Result | Qual |
|---|---|---|---|---|---|---|---|
| Chloride | mg/L | | 8/1/2016 1840h | E300.0 | 10.0 | **44.7** | |
| Nitrate/Nitrite (as N) | mg/L | | 8/1/2016 1812h | E353.2 | 0.100 | **5.49** | |

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Jose Rocha
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# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
**Project:** 3rd Quarter Chloroform 2016
**Lab Sample ID:** 1607518-015C
**Client Sample ID:** TW4-02_07252016
**Collection Date:** 7/25/2016 1425h
**Received Date:** 7/29/2016 1600h
Test Code: 8260-W-DEN100

**Analytical Results** VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 8/2/2016 1623h
**Units:** µg/L **Dilution Factor:** 50 **Method:** SW8260C

| Compound | CAS Number | Reporting Limit | Analytical Result | Qual |
|---|---|---|---|---|
| Chloroform | 67-66-3 | 50.0 | **1,780** | ~ |

| Surrogate | CAS | Result | Amount Spiked | % REC | Limits | Qual |
|---|---|---|---|---|---|---|
| Surr: 1,2-Dichloroethane-d4 | 17060-07-0 | 2,760 | 2,500 | 110 | 72-151 | |
| Surr: 4-Bromofluorobenzene | 460-00-4 | 2,420 | 2,500 | 96.9 | 80-152 | |
| Surr: Dibromofluoromethane | 1868-53-7 | 2,660 | 2,500 | 107 | 80-124 | |
| Surr: Toluene-d8 | 2037-26-5 | 2,470 | 2,500 | 99.0 | 77-129 | |

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

**Analyzed:** 8/1/2016 1847h
**Units:** µg/L **Dilution Factor:** 1 **Method:** SW8260C

| 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 | < 1.00 | |

| Surrogate | CAS | Result | Amount Spiked | % REC | Limits | Qual |
|---|---|---|---|---|---|---|
| Surr: 1,2-Dichloroethane-d4 | 17060-07-0 | 56.0 | 50.00 | 112 | 72-151 | |
| Surr: 4-Bromofluorobenzene | 460-00-4 | 52.1 | 50.00 | 104 | 80-152 | |
| Surr: Dibromofluoromethane | 1868-53-7 | 55.5 | 50.00 | 111 | 80-124 | |
| Surr: Toluene-d8 | 2037-26-5 | 51.5 | 50.00 | 103 | 77-129 | |

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# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
**Project:** 3rd Quarter Chloroform 2016
**Lab Sample ID:** 1607518-015
**Client Sample ID:** TW4-02_07252016
**Collection Date:** 7/25/2016 1425h
**Received Date:** 7/29/2016 1600h

**Analytical Results**

| Compound | Units | Date Prepared | Date Analyzed | Method Used | Reporting Limit | Analytical Result | Qual |
|---|---|---|---|---|---|---|---|
| Chloride | mg/L | | 8/1/2016 1930h | E300.0 | 10.0 | **42.9** | |
| Nitrate/Nitrite (as N) | mg/L | | 8/1/2016 1818h | E353.2 | 0.100 | **4.07** | |

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# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
**Project:** 3rd Quarter Chloroform 2016
**Lab Sample ID:** 1607518-002C
**Client Sample ID:** TW4-03_07272016
**Collection Date:** 7/27/2016 754h
**Received Date:** 7/29/2016 1600h

Test Code: 8260-W-DEN100

**Analytical Results** VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 8/1/2016 1350h
**Units:** µg/L **Dilution Factor:** 1 **Method:** SW8260C

| 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 | 54.4 | 50.00 | 109 | 72-151 | |
| Surr: 4-Bromofluorobenzene | 460-00-4 | 52.5 | 50.00 | 105 | 80-152 | |
| Surr: Dibromofluoromethane | 1868-53-7 | 52.9 | 50.00 | 106 | 80-124 | |
| Surr: Toluene-d8 | 2037-26-5 | 51.8 | 50.00 | 104 | 77-129 | |

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# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
**Project:** 3rd Quarter Chloroform 2016
**Lab Sample ID:** 1607518-002
**Client Sample ID:** TW4-03_07272016
**Collection Date:** 7/27/2016 754h
**Received Date:** 7/29/2016 1600h

**Analytical Results**

| Compound | Units | Date Prepared | Date Analyzed | Method Used | Reporting Limit | Analytical Result | Qual |
|---|---|---|---|---|---|---|---|
| Chloride | mg/L | | 8/1/2016 1551h | E300.0 | 10.0 | **26.5** | |
| Nitrate/Nitrite (as N) | mg/L | | 8/1/2016 1751h | E353.2 | 0.100 | **6.10** | |

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# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
**Project:** 3rd Quarter Chloroform 2016
**Lab Sample ID:** 1607518-001C
**Client Sample ID:** TW4-03R_07262016
**Collection Date:** 7/26/2016 1238h
**Received Date:** 7/29/2016 1600h
Test Code: 8260-W-DEN100

**Analytical Results** VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 8/1/2016 1330h
**Units:** µg/L **Dilution Factor:** 1 **Method:** SW8260C

| 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 | 53.1 | 50.00 | 106 | 72-151 | |
| Surr: 4-Bromofluorobenzene | 460-00-4 | 51.2 | 50.00 | 102 | 80-152 | |
| Surr: Dibromofluoromethane | 1868-53-7 | 52.6 | 50.00 | 105 | 80-124 | |
| Surr: Toluene-d8 | 2037-26-5 | 51.1 | 50.00 | 102 | 77-129 | |

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# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
**Project:** 3rd Quarter Chloroform 2016
**Lab Sample ID:** 1607518-001
**Client Sample ID:** TW4-03R_07262016
**Collection Date:** 7/26/2016 1238h
**Received Date:** 7/29/2016 1600h

**Analytical Results**

| Compound | Units | Date Prepared | Date Analyzed | Method Used | Reporting Limit | Analytical Result | Qual |
|---|---|---|---|---|---|---|---|
| Chloride | mg/L | | 8/1/2016 1535h | E300.0 | 1.00 | < 1.00 | |
| Nitrate/Nitrite (as N) | mg/L | | 8/1/2016 1750h | E353.2 | 0.100 | < 0.100 | |

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# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
**Project:** 3rd Quarter Chloroform 2016
**Lab Sample ID:** 1607518-014C
**Client Sample ID:** TW4-04_07252016
**Collection Date:** 7/25/2016 1445h
**Received Date:** 7/29/2016 1600h
Test Code: 8260-W-DEN100

**Analytical Results** VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 8/2/2016 1602h
**Units:** µg/L **Dilution Factor:** 50 **Method:** SW8260C

| Compound | CAS Number | Reporting Limit | Analytical Result | Qual |
|---|---|---|---|---|
| Chloroform | 67-66-3 | 50.0 | **1,380** | ~ |

| Surrogate | CAS | Result | Amount Spiked | % REC | Limits | Qual |
|---|---|---|---|---|---|---|
| Surr: 1,2-Dichloroethane-d4 | 17060-07-0 | 2,760 | 2,500 | 110 | 72-151 | |
| Surr: 4-Bromofluorobenzene | 460-00-4 | 2,470 | 2,500 | 98.9 | 80-152 | |
| Surr: Dibromofluoromethane | 1868-53-7 | 2,640 | 2,500 | 105 | 80-124 | |
| Surr: Toluene-d8 | 2037-26-5 | 2,490 | 2,500 | 99.8 | 77-129 | |

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

**Analyzed:** 8/1/2016 1827h
**Units:** µg/L **Dilution Factor:** 1 **Method:** SW8260C

| 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 | < 1.00 | |

| Surrogate | CAS | Result | Amount Spiked | % REC | Limits | Qual |
|---|---|---|---|---|---|---|
| Surr: 1,2-Dichloroethane-d4 | 17060-07-0 | 56.2 | 50.00 | 112 | 72-151 | |
| Surr: 4-Bromofluorobenzene | 460-00-4 | 51.8 | 50.00 | 104 | 80-152 | |
| Surr: Dibromofluoromethane | 1868-53-7 | 55.8 | 50.00 | 112 | 80-124 | |
| Surr: Toluene-d8 | 2037-26-5 | 51.5 | 50.00 | 103 | 77-129 | |

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# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
**Project:** 3rd Quarter Chloroform 2016
**Lab Sample ID:** 1607518-014
**Client Sample ID:** TW4-04_07252016
**Collection Date:** 7/25/2016 1445h
**Received Date:** 7/29/2016 1600h

**Analytical Results**

| Compound | Units | Date Prepared | Date Analyzed | Method Used | Reporting Limit | Analytical Result | Qual |
|---|---|---|---|---|---|---|---|
| Chloride | mg/L | | 8/1/2016 1913h | E300.0 | 10.0 | **40.2** | |
| Nitrate/Nitrite (as N) | mg/L | | 8/1/2016 1817h | E353.2 | 0.100 | **7.22** | |

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# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
**Project:** 3rd Quarter Chloroform 2016
**Lab Sample ID:** 1608133-009C
**Client Sample ID:** TW4-05_08032016
**Collection Date:** 8/3/2016 908h
**Received Date:** 8/5/2016 1040h

Test Code: 8260-W-DEN100

**Analytical Results** VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 8/8/2016 1626h
**Units:** µg/L **Dilution Factor:** 1 **Method:** SW8260C

| Compound | CAS Number | Reporting Limit | Analytical Result | Qual |
|---|---|---|---|---|
| Carbon tetrachloride | 56-23-5 | 1.00 | < 1.00 | |
| Chloroform | 67-66-3 | 1.00 | **10.8** | |
| 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 | 48.5 | 50.00 | 97.0 | 72-151 | |
| Surr: 4-Bromofluorobenzene | 460-00-4 | 48.5 | 50.00 | 97.1 | 80-152 | |
| Surr: Dibromofluoromethane | 1868-53-7 | 47.8 | 50.00 | 95.6 | 80-124 | |
| Surr: Toluene-d8 | 2037-26-5 | 48.6 | 50.00 | 97.2 | 77-129 | |



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# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
**Project:** 3rd Quarter Chloroform 2016
**Lab Sample ID:** 1608133-009
**Client Sample ID:** TW4-05_08032016
**Collection Date:** 8/3/2016 908h
**Received Date:** 8/5/2016 1040h

**Analytical Results**

| Compound | Units | Date Prepared | Date Analyzed | Method Used | Reporting Limit | Analytical Result | Qual |
|---|---|---|---|---|---|---|---|
| Chloride | mg/L | | 8/10/2016 1649h | E300.0 | 10.0 | **44.6** | |
| Nitrate/Nitrite (as N) | mg/L | | 8/5/2016 1627h | E353.2 | 0.100 | **8.49** | |

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Jose Rocha
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# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
**Project:** 3rd Quarter Chloroform 2016
**Lab Sample ID:** 1608133-015C
**Client Sample ID:** TW4-06_08042016
**Collection Date:** 8/4/2016 813h
**Received Date:** 8/5/2016 1040h

Test Code: 8260-W-DEN100

**Analytical Results** VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 8/9/2016 1439h
**Units:** µg/L **Dilution Factor:** 10 **Method:** SW8260C

| Compound | CAS Number | Reporting Limit | Analytical Result | Qual |
|---|---|---|---|---|
| Chloroform | 67-66-3 | 10.0 | **433** | ~ |

| Surrogate | CAS | Result | Amount Spiked | % REC | Limits | Qual |
|---|---|---|---|---|---|---|
| Surr: 1,2-Dichloroethane-d4 | 17060-07-0 | 546 | 500.0 | 109 | 72-151 | |
| Surr: 4-Bromofluorobenzene | 460-00-4 | 506 | 500.0 | 101 | 80-152 | |
| Surr: Dibromofluoromethane | 1868-53-7 | 528 | 500.0 | 106 | 80-124 | |
| Surr: Toluene-d8 | 2037-26-5 | 510 | 500.0 | 102 | 77-129 | |

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

**Analyzed:** 8/8/2016 1826h
**Units:** µg/L **Dilution Factor:** 1 **Method:** SW8260C

| 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 | < 1.00 | |

| Surrogate | CAS | Result | Amount Spiked | % REC | Limits | Qual |
|---|---|---|---|---|---|---|
| Surr: 1,2-Dichloroethane-d4 | 17060-07-0 | 49.9 | 50.00 | 99.8 | 72-151 | |
| Surr: 4-Bromofluorobenzene | 460-00-4 | 52.3 | 50.00 | 105 | 80-152 | |
| Surr: Dibromofluoromethane | 1868-53-7 | 50.7 | 50.00 | 101 | 80-124 | |
| Surr: Toluene-d8 | 2037-26-5 | 51.6 | 50.00 | 103 | 77-129 | |



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# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
**Project:** 3rd Quarter Chloroform 2016
**Lab Sample ID:** 1608133-015
**Client Sample ID:** TW4-06_08042016
**Collection Date:** 8/4/2016 813h
**Received Date:** 8/5/2016 1040h

**Analytical Results**

| Compound | Units | Date Prepared | Date Analyzed | Method Used | Reporting Limit | Analytical Result | Qual |
|---|---|---|---|---|---|---|---|
| Chloride | mg/L | | 8/10/2016 1938h | E300.0 | 10.0 | **42.2** | |
| Nitrate/Nitrite (as N) | mg/L | | 8/5/2016 1646h | E353.2 | 0.100 | **3.85** | |

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Jose Rocha
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# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
**Project:** 3rd Quarter Chloroform 2016
**Lab Sample ID:** 1608133-017C
**Client Sample ID:** TW4-07_08042016
**Collection Date:** 8/4/2016 825h
**Received Date:** 8/5/2016 1040h

Test Code: 8260-W-DEN100

**Analytical Results** VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 8/9/2016 1518h
**Units:** µg/L **Dilution Factor:** 50 **Method:** SW8260C

| Compound | CAS Number | Reporting Limit | Analytical Result | Qual |
|---|---|---|---|---|
| Chloroform | 67-66-3 | 50.0 | **1,000** | ~ |

| Surrogate | CAS | Result | Amount Spiked | % REC | Limits | Qual |
|---|---|---|---|---|---|---|
| Surr: 1,2-Dichloroethane-d4 | 17060-07-0 | 2,760 | 2,500 | 110 | 72-151 | |
| Surr: 4-Bromofluorobenzene | 460-00-4 | 2,550 | 2,500 | 102 | 80-152 | |
| Surr: Dibromofluoromethane | 1868-53-7 | 2,660 | 2,500 | 106 | 80-124 | |
| Surr: Toluene-d8 | 2037-26-5 | 2,510 | 2,500 | 100 | 77-129 | |

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

**Analyzed:** 8/8/2016 1906h
**Units:** µg/L **Dilution Factor:** 1 **Method:** SW8260C

| 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 | < 1.00 | |

| Surrogate | CAS | Result | Amount Spiked | % REC | Limits | Qual |
|---|---|---|---|---|---|---|
| Surr: 1,2-Dichloroethane-d4 | 17060-07-0 | 45.9 | 50.00 | 91.9 | 72-151 | |
| Surr: 4-Bromofluorobenzene | 460-00-4 | 48.6 | 50.00 | 97.2 | 80-152 | |
| Surr: Dibromofluoromethane | 1868-53-7 | 47.7 | 50.00 | 95.4 | 80-124 | |
| Surr: Toluene-d8 | 2037-26-5 | 47.9 | 50.00 | 95.9 | 77-129 | |



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# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
**Project:** 3rd Quarter Chloroform 2016
**Lab Sample ID:** 1608133-017
**Client Sample ID:** TW4-07_08042016
**Collection Date:** 8/4/2016 825h
**Received Date:** 8/5/2016 1040h

**Analytical Results**

| Compound | Units | Date Prepared | Date Analyzed | Method Used | Reporting Limit | Analytical Result | Qual |
|---|---|---|---|---|---|---|---|
| Chloride | mg/L | | 8/10/2016 2013h | E300.0 | 10.0 | **42.3** | |
| Nitrate/Nitrite (as N) | mg/L | | 8/5/2016 1656h | E353.2 | 0.100 | **4.21** | |

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# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
**Project:** 3rd Quarter Chloroform 2016
**Lab Sample ID:** 1608133-016C
**Client Sample ID:** TW4-08_08042016
**Collection Date:** 8/4/2016 819h
**Received Date:** 8/5/2016 1040h

Test Code: 8260-W-DEN100

**Analytical Results** VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 8/9/2016 1459h
**Units:** µg/L **Dilution Factor:** 10 **Method:** SW8260C

| Compound | CAS Number | Reporting Limit | Analytical Result | Qual |
|---|---|---|---|---|
| Chloroform | 67-66-3 | 10.0 | **522** | ~ |

| Surrogate | CAS | Result | Amount Spiked | % REC | Limits | Qual |
|---|---|---|---|---|---|---|
| Surr: 1,2-Dichloroethane-d4 | 17060-07-0 | 552 | 500.0 | 110 | 72-151 | |
| Surr: 4-Bromofluorobenzene | 460-00-4 | 517 | 500.0 | 103 | 80-152 | |
| Surr: Dibromofluoromethane | 1868-53-7 | 534 | 500.0 | 107 | 80-124 | |
| Surr: Toluene-d8 | 2037-26-5 | 506 | 500.0 | 101 | 77-129 | |

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

**Analyzed:** 8/8/2016 1846h
**Units:** µg/L **Dilution Factor:** 1 **Method:** SW8260C

| 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 | < 1.00 | |

| Surrogate | CAS | Result | Amount Spiked | % REC | Limits | Qual |
|---|---|---|---|---|---|---|
| Surr: 1,2-Dichloroethane-d4 | 17060-07-0 | 49.7 | 50.00 | 99.4 | 72-151 | |
| Surr: 4-Bromofluorobenzene | 460-00-4 | 52.2 | 50.00 | 104 | 80-152 | |
| Surr: Dibromofluoromethane | 1868-53-7 | 51.0 | 50.00 | 102 | 80-124 | |
| Surr: Toluene-d8 | 2037-26-5 | 51.2 | 50.00 | 102 | 77-129 | |



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# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
**Project:** 3rd Quarter Chloroform 2016
**Lab Sample ID:** 1608133-016
**Client Sample ID:** TW4-08_08042016
**Collection Date:** 8/4/2016 819h
**Received Date:** 8/5/2016 1040h

**Analytical Results**

| Compound | Units | Date Prepared | Date Analyzed | Method Used | Reporting Limit | Analytical Result | Qual |
|---|---|---|---|---|---|---|---|
| Chloride | mg/L | | 8/10/2016 1955h | E300.0 | 10.0 | **56.9** | |
| Nitrate/Nitrite (as N) | mg/L | | 8/5/2016 1655h | E353.2 | 0.100 | **2.10** | |

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# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
**Project:** 3rd Quarter Chloroform 2016
**Lab Sample ID:** 1608133-011C
**Client Sample ID:** TW4-09_08032016
**Collection Date:** 8/3/2016 926h
**Received Date:** 8/5/2016 1040h

Test Code: 8260-W-DEN100

**Analytical Results** VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 8/8/2016 1706h
**Units:** µg/L **Dilution Factor:** 1 **Method:** SW8260C

| Compound | CAS Number | Reporting Limit | Analytical Result | Qual |
|---|---|---|---|---|
| Carbon tetrachloride | 56-23-5 | 1.00 | < 1.00 | |
| Chloroform | 67-66-3 | 1.00 | **76.8** | |
| 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 | 51.1 | 50.00 | 102 | 72-151 | |
| Surr: 4-Bromofluorobenzene | 460-00-4 | 52.1 | 50.00 | 104 | 80-152 | |
| Surr: Dibromofluoromethane | 1868-53-7 | 50.4 | 50.00 | 101 | 80-124 | |
| Surr: Toluene-d8 | 2037-26-5 | 51.0 | 50.00 | 102 | 77-129 | |

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# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
**Project:** 3rd Quarter Chloroform 2016
**Lab Sample ID:** 1608133-011
**Client Sample ID:** TW4-09_08032016
**Collection Date:** 8/3/2016 926h
**Received Date:** 8/5/2016 1040h

**Analytical Results**

| Compound | Units | Date Prepared | Date Analyzed | Method Used | Reporting Limit | Analytical Result | Qual |
|---|---|---|---|---|---|---|---|
| Chloride | mg/L | | 8/10/2016 1723h | E300.0 | 10.0 | **33.6** | |
| Nitrate/Nitrite (as N) | mg/L | | 8/5/2016 1639h | E353.2 | 0.100 | **2.11** | |

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# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
**Project:** 3rd Quarter Chloroform 2016
**Lab Sample ID:** 1608133-018C
**Client Sample ID:** TW4-10_08042016
**Collection Date:** 8/4/2016 831h
**Received Date:** 8/5/2016 1040h

Test Code: 8260-W-DEN100

**Analytical Results** VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 8/9/2016 1538h
**Units:** µg/L **Dilution Factor:** 50 **Method:** SW8260C

| Compound | CAS Number | Reporting Limit | Analytical Result | Qual |
|---|---|---|---|---|
| Chloroform | 67-66-3 | 50.0 | **1,500** | ~ |

| Surrogate | CAS | Result | Amount Spiked | % REC | Limits | Qual |
|---|---|---|---|---|---|---|
| Surr: 1,2-Dichloroethane-d4 | 17060-07-0 | 2,770 | 2,500 | 111 | 72-151 | |
| Surr: 4-Bromofluorobenzene | 460-00-4 | 2,360 | 2,500 | 94.6 | 80-152 | |
| Surr: Dibromofluoromethane | 1868-53-7 | 2,690 | 2,500 | 108 | 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:** 8/8/2016 1926h
**Units:** µg/L **Dilution Factor:** 1 **Method:** SW8260C

| 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 | < 1.00 | |

| Surrogate | CAS | Result | Amount Spiked | % REC | Limits | Qual |
|---|---|---|---|---|---|---|
| Surr: 1,2-Dichloroethane-d4 | 17060-07-0 | 48.8 | 50.00 | 97.7 | 72-151 | |
| Surr: 4-Bromofluorobenzene | 460-00-4 | 52.8 | 50.00 | 106 | 80-152 | |
| Surr: Dibromofluoromethane | 1868-53-7 | 50.7 | 50.00 | 101 | 80-124 | |
| Surr: Toluene-d8 | 2037-26-5 | 51.9 | 50.00 | 104 | 77-129 | |

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# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
**Project:** 3rd Quarter Chloroform 2016
**Lab Sample ID:** 1608133-018
**Client Sample ID:** TW4-10_08042016
**Collection Date:** 8/4/2016 831h
**Received Date:** 8/5/2016 1040h

**Analytical Results**

| Compound | Units | Date Prepared | Date Analyzed | Method Used | Reporting Limit | Analytical Result | Qual |
|---|---|---|---|---|---|---|---|
| Chloride | mg/L | | 8/10/2016 2030h | E300.0 | 10.0 | **85.3** | |
| Nitrate/Nitrite (as N) | mg/L | | 8/5/2016 1657h | E353.2 | 0.100 | **14.9** | |

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# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
**Project:** 3rd Quarter Chloroform 2016
**Lab Sample ID:** 1607518-017C
**Client Sample ID:** TW4-11_07252016
**Collection Date:** 7/25/2016 1419h
**Received Date:** 7/29/2016 1600h
Test Code: 8260-W-DEN100

**Analytical Results** VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 8/2/2016 1703h
**Units:** µg/L **Dilution Factor:** 50 **Method:** SW8260C

| Compound | CAS Number | Reporting Limit | Analytical Result | Qual |
|---|---|---|---|---|
| Chloroform | 67-66-3 | 50.0 | **3,200** | ~ |

| Surrogate | CAS | Result | Amount Spiked | % REC | Limits | Qual |
|---|---|---|---|---|---|---|
| Surr: 1,2-Dichloroethane-d4 | 17060-07-0 | 2,740 | 2,500 | 110 | 72-151 | |
| Surr: 4-Bromofluorobenzene | 460-00-4 | 2,490 | 2,500 | 99.7 | 80-152 | |
| Surr: Dibromofluoromethane | 1868-53-7 | 2,650 | 2,500 | 106 | 80-124 | |
| Surr: Toluene-d8 | 2037-26-5 | 2,500 | 2,500 | 99.9 | 77-129 | |

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

**Analyzed:** 8/1/2016 1927h
**Units:** µg/L **Dilution Factor:** 1 **Method:** SW8260C

| 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 | < 1.00 | |

| Surrogate | CAS | Result | Amount Spiked | % REC | Limits | Qual |
|---|---|---|---|---|---|---|
| Surr: 1,2-Dichloroethane-d4 | 17060-07-0 | 55.9 | 50.00 | 112 | 72-151 | |
| Surr: 4-Bromofluorobenzene | 460-00-4 | 50.5 | 50.00 | 101 | 80-152 | |
| Surr: Dibromofluoromethane | 1868-53-7 | 55.3 | 50.00 | 111 | 80-124 | |
| Surr: Toluene-d8 | 2037-26-5 | 51.7 | 50.00 | 103 | 77-129 | |

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# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
**Project:** 3rd Quarter Chloroform 2016
**Lab Sample ID:** 1607518-017
**Client Sample ID:** TW4-11_07252016
**Collection Date:** 7/25/2016 1419h
**Received Date:** 7/29/2016 1600h

**Analytical Results**

| Compound | Units | Date Prepared | Date Analyzed | Method Used | Reporting Limit | Analytical Result | Qual |
|---|---|---|---|---|---|---|---|
| Chloride | mg/L | | 8/1/2016 2004h | E300.0 | 10.0 | **55.3** | |
| Nitrate/Nitrite (as N) | mg/L | | 8/1/2016 1830h | E353.2 | 0.100 | **8.83** | |

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# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
**Project:** 3rd Quarter Chloroform 2016
**Lab Sample ID:** 1607518-003C
**Client Sample ID:** TW4-12_07272016
**Collection Date:** 7/27/2016 813h
**Received Date:** 7/29/2016 1600h

Test Code: 8260-W-DEN100

**Analytical Results** VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 8/1/2016 1410h
**Units:** µg/L **Dilution Factor:** 1 **Method:** SW8260C

| 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 | 55.1 | 50.00 | 110 | 72-151 | |
| Surr: 4-Bromofluorobenzene | 460-00-4 | 51.6 | 50.00 | 103 | 80-152 | |
| Surr: Dibromofluoromethane | 1868-53-7 | 54.0 | 50.00 | 108 | 80-124 | |
| Surr: Toluene-d8 | 2037-26-5 | 51.4 | 50.00 | 103 | 77-129 | |

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# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
**Project:** 3rd Quarter Chloroform 2016
**Lab Sample ID:** 1607518-003
**Client Sample ID:** TW4-12_07272016
**Collection Date:** 7/27/2016 813h
**Received Date:** 7/29/2016 1600h

**Analytical Results**

| Compound | Units | Date Prepared | Date Analyzed | Method Used | Reporting Limit | Analytical Result | Qual |
|---|---|---|---|---|---|---|---|
| Chloride | mg/L | | 8/1/2016 1608h | E300.0 | 10.0 | **67.5** | |
| Nitrate/Nitrite (as N) | mg/L | | 8/1/2016 1846h | E353.2 | 0.200 | **37.7** | |

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# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
**Project:** 3rd Quarter Chloroform 2016
**Lab Sample ID:** 1607518-006C
**Client Sample ID:** TW4-13_07282016
**Collection Date:** 7/28/2016 807h
**Received Date:** 7/29/2016 1600h

Test Code: 8260-W-DEN100

**Analytical Results** VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 8/1/2016 1548h
**Units:** µg/L **Dilution Factor:** 1 **Method:** SW8260C

| 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 | 54.5 | 50.00 | 109 | 72-151 | |
| Surr: 4-Bromofluorobenzene | 460-00-4 | 50.8 | 50.00 | 102 | 80-152 | |
| Surr: Dibromofluoromethane | 1868-53-7 | 52.7 | 50.00 | 105 | 80-124 | |
| Surr: Toluene-d8 | 2037-26-5 | 50.3 | 50.00 | 101 | 77-129 | |

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# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
**Project:** 3rd Quarter Chloroform 2016
**Lab Sample ID:** 1607518-006
**Client Sample ID:** TW4-13_07282016
**Collection Date:** 7/28/2016 807h
**Received Date:** 7/29/2016 1600h

**Analytical Results**

| Compound | Units | Date Prepared | Date Analyzed | Method Used | Reporting Limit | Analytical Result | Qual |
|---|---|---|---|---|---|---|---|
| Chloride | mg/L | | 8/1/2016 1659h | E300.0 | 10.0 | **69.3** | |
| Nitrate/Nitrite (as N) | mg/L | | 8/1/2016 1756h | E353.2 | 0.100 | **6.14** | |

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# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
**Project:** 3rd Quarter Chloroform 2016
**Lab Sample ID:** 1608133-006C
**Client Sample ID:** TW4-14_08032016
**Collection Date:** 8/3/2016 840h
**Received Date:** 8/5/2016 1040h

Test Code: 8260-W-DEN100

**Analytical Results** VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 8/8/2016 1527h
**Units:** µg/L **Dilution Factor:** 1 **Method:** SW8260C

| Compound | CAS Number | Reporting Limit | Analytical Result | Qual |
|---|---|---|---|---|
| Carbon tetrachloride | 56-23-5 | 1.00 | < 1.00 | |
| Chloroform | 67-66-3 | 1.00 | **5.00** | |
| Chloromethane | 74-87-3 | 1.00 | < 1.00 | |
| Methylene chloride | 75-09-2 | 1.00 | **1.80** | |

| Surrogate | CAS | Result | Amount Spiked | % REC | Limits | Qual |
|---|---|---|---|---|---|---|
| Surr: 1,2-Dichloroethane-d4 | 17060-07-0 | 48.4 | 50.00 | 96.9 | 72-151 | |
| Surr: 4-Bromofluorobenzene | 460-00-4 | 50.5 | 50.00 | 101 | 80-152 | |
| Surr: Dibromofluoromethane | 1868-53-7 | 47.5 | 50.00 | 95.0 | 80-124 | |
| Surr: Toluene-d8 | 2037-26-5 | 48.6 | 50.00 | 97.3 | 77-129 | |

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# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
**Project:** 3rd Quarter Chloroform 2016
**Lab Sample ID:** 1608133-006
**Client Sample ID:** TW4-14_08032016
**Collection Date:** 8/3/2016 840h
**Received Date:** 8/5/2016 1040h

**Analytical Results**

| Compound | Units | Date Prepared | Date Analyzed | Method Used | Reporting Limit | Analytical Result | Qual |
|---|---|---|---|---|---|---|---|
| Chloride | mg/L | | 8/10/2016 1559h | E300.0 | 10.0 | **42.4** | |
| Nitrate/Nitrite (as N) | mg/L | | 8/5/2016 1623h | E353.2 | 0.100 | **2.88** | |

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# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
**Project:** 3rd Quarter Chloroform 2016
**Lab Sample ID:** 1607518-016C
**Client Sample ID:** MW-26_07252016
**Collection Date:** 7/25/2016 1412h
**Received Date:** 7/29/2016 1600h

Test Code: 8260-W-DEN100

**Analytical Results** VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 8/2/2016 1643h
**Units:** µg/L **Dilution Factor:** 50 **Method:** SW8260C

| Compound | CAS Number | Reporting Limit | Analytical Result | Qual |
|---|---|---|---|---|
| Chloroform | 67-66-3 | 50.0 | **3,190** | ~ |

| Surrogate | CAS | Result | Amount Spiked | % REC | Limits | Qual |
|---|---|---|---|---|---|---|
| Surr: 1,2-Dichloroethane-d4 | 17060-07-0 | 2,800 | 2,500 | 112 | 72-151 | |
| Surr: 4-Bromofluorobenzene | 460-00-4 | 2,490 | 2,500 | 99.6 | 80-152 | |
| Surr: Dibromofluoromethane | 1868-53-7 | 2,710 | 2,500 | 108 | 80-124 | |
| Surr: Toluene-d8 | 2037-26-5 | 2,560 | 2,500 | 103 | 77-129 | |

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

**Analyzed:** 8/1/2016 1907h
**Units:** µg/L **Dilution Factor:** 1 **Method:** SW8260C

| 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 | **7.81** | |

| Surrogate | CAS | Result | Amount Spiked | % REC | Limits | Qual |
|---|---|---|---|---|---|---|
| Surr: 1,2-Dichloroethane-d4 | 17060-07-0 | 55.5 | 50.00 | 111 | 72-151 | |
| Surr: 4-Bromofluorobenzene | 460-00-4 | 51.8 | 50.00 | 104 | 80-152 | |
| Surr: Dibromofluoromethane | 1868-53-7 | 54.7 | 50.00 | 109 | 80-124 | |
| Surr: Toluene-d8 | 2037-26-5 | 51.4 | 50.00 | 103 | 77-129 | |



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# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
**Project:** 3rd Quarter Chloroform 2016
**Lab Sample ID:** 1607518-016
**Client Sample ID:** MW-26_07252016
**Collection Date:** 7/25/2016 1412h
**Received Date:** 7/29/2016 1600h

**Analytical Results**

| Compound | Units | Date Prepared | Date Analyzed | Method Used | Reporting Limit | Analytical Result | Qual |
|---|---|---|---|---|---|---|---|
| Chloride | mg/L | | 8/1/2016 1947h | E300.0 | 10.0 | **66.4** | |
| Nitrate/Nitrite (as N) | mg/L | | 8/1/2016 1829h | E353.2 | 0.100 | **1.57** | |

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# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
**Project:** 3rd Quarter Chloroform 2016
**Lab Sample ID:** 1608133-012C
**Client Sample ID:** TW4-16_08032016
**Collection Date:** 8/3/2016 932h
**Received Date:** 8/5/2016 1040h

Test Code: 8260-W-DEN100

**Analytical Results** VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 8/8/2016 1726h
**Units:** µg/L **Dilution Factor:** 1 **Method:** SW8260C

| Compound | CAS Number | Reporting Limit | Analytical Result | Qual |
|---|---|---|---|---|
| Carbon tetrachloride | 56-23-5 | 1.00 | < 1.00 | |
| Chloroform | 67-66-3 | 1.00 | **49.0** | |
| 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 | 48.0 | 50.00 | 96.1 | 72-151 | |
| Surr: 4-Bromofluorobenzene | 460-00-4 | 48.2 | 50.00 | 96.3 | 80-152 | |
| Surr: Dibromofluoromethane | 1868-53-7 | 47.9 | 50.00 | 95.7 | 80-124 | |
| Surr: Toluene-d8 | 2037-26-5 | 48.3 | 50.00 | 96.6 | 77-129 | |



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# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
**Project:** 3rd Quarter Chloroform 2016
**Lab Sample ID:** 1608133-012
**Client Sample ID:** TW4-16_08032016
**Collection Date:** 8/3/2016 932h
**Received Date:** 8/5/2016 1040h

**Analytical Results**

| Compound | Units | Date Prepared | Date Analyzed | Method Used | Reporting Limit | Analytical Result | Qual |
|---|---|---|---|---|---|---|---|
| Chloride | mg/L | | 8/10/2016 1740h | E300.0 | 10.0 | **60.0** | |
| Nitrate/Nitrite (as N) | mg/L | | 8/5/2016 1643h | E353.2 | 0.100 | **2.20** | |

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# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
**Project:** 3rd Quarter Chloroform 2016
**Lab Sample ID:** 1608399-001C
**Client Sample ID:** MW-32_08172016
**Collection Date:** 8/17/2016 1235h
**Received Date:** 8/19/2016 1040h

Test Code: 8260-W-DEN100

**Analytical Results** VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 8/22/2016 914h
**Units:** µg/L **Dilution Factor:** 1 **Method:** SW8260C

| 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 | 50.0 | 50.00 | 100 | 72-151 | |
| Surr: 4-Bromofluorobenzene | 460-00-4 | 47.7 | 50.00 | 95.3 | 80-152 | |
| Surr: Dibromofluoromethane | 1868-53-7 | 49.8 | 50.00 | 99.5 | 80-124 | |
| Surr: Toluene-d8 | 2037-26-5 | 48.5 | 50.00 | 97.0 | 77-129 | |

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# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
**Project:** 3rd Quarter Chloroform 2016
**Lab Sample ID:** 1608399-001
**Client Sample ID:** MW-32_08172016
**Collection Date:** 8/17/2016 1235h
**Received Date:** 8/19/2016 1040h

**Analytical Results**

| Compound | Units | Date Prepared | Date Analyzed | Method Used | Reporting Limit | Analytical Result | Qual |
|---|---|---|---|---|---|---|---|
| Chloride | mg/L | | 8/22/2016 1338h | E300.0 | 10.0 | **37.5** | |
| Nitrate/Nitrite (as N) | mg/L | | 8/19/2016 2017h | E353.2 | 0.100 | < 0.100 | |

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# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
**Project:** 3rd Quarter Chloroform 2016
**Lab Sample ID:** 1608133-010C
**Client Sample ID:** TW4-18_08032016
**Collection Date:** 8/3/2016 917h
**Received Date:** 8/5/2016 1040h

Test Code: 8260-W-DEN100

**Analytical Results** VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 8/8/2016 1646h
**Units:** µg/L **Dilution Factor:** 1 **Method:** SW8260C

| Compound | CAS Number | Reporting Limit | Analytical Result | Qual |
|---|---|---|---|---|
| Carbon tetrachloride | 56-23-5 | 1.00 | < 1.00 | |
| Chloroform | 67-66-3 | 1.00 | **56.3** | |
| 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 | 49.6 | 50.00 | 99.3 | 72-151 | |
| Surr: 4-Bromofluorobenzene | 460-00-4 | 51.3 | 50.00 | 103 | 80-152 | |
| Surr: Dibromofluoromethane | 1868-53-7 | 49.6 | 50.00 | 99.2 | 80-124 | |
| Surr: Toluene-d8 | 2037-26-5 | 49.8 | 50.00 | 99.6 | 77-129 | |

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# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
**Project:** 3rd Quarter Chloroform 2016
**Lab Sample ID:** 1608133-010
**Client Sample ID:** TW4-18_08032016
**Collection Date:** 8/3/2016 917h
**Received Date:** 8/5/2016 1040h

**Analytical Results**

| Compound | Units | Date Prepared | Date Analyzed | Method Used | Reporting Limit | Analytical Result | Qual |
|---|---|---|---|---|---|---|---|
| Chloride | mg/L | | 8/10/2016 1706h | E300.0 | 10.0 | **40.7** | |
| Nitrate/Nitrite (as N) | mg/L | | 8/5/2016 1635h | E353.2 | 0.100 | **5.79** | |

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# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
**Project:** 3rd Quarter Chloroform 2016
**Lab Sample ID:** 1607518-019C
**Client Sample ID:** TW4-19_07252016
**Collection Date:** 7/25/2016 1500h
**Received Date:** 7/29/2016 1600h

Test Code: 8260-W-DEN100

**Analytical Results** VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 8/2/2016 1742h
**Units:** µg/L **Dilution Factor:** 100 **Method:** SW8260C

| Compound | CAS Number | Reporting Limit | Analytical Result | Qual |
|---|---|---|---|---|
| Chloroform | 67-66-3 | 100 | **6,040** | ~ |

| Surrogate | CAS | Result | Amount Spiked | % REC | Limits | Qual |
|---|---|---|---|---|---|---|
| Surr: 1,2-Dichloroethane-d4 | 17060-07-0 | 5,520 | 5,000 | 110 | 72-151 | |
| Surr: 4-Bromofluorobenzene | 460-00-4 | 5,040 | 5,000 | 101 | 80-152 | |
| Surr: Dibromofluoromethane | 1868-53-7 | 5,370 | 5,000 | 107 | 80-124 | |
| Surr: Toluene-d8 | 2037-26-5 | 5,090 | 5,000 | 102 | 77-129 | |

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

**Analyzed:** 8/1/2016 2006h
**Units:** µg/L **Dilution Factor:** 1 **Method:** SW8260C

| Compound | CAS Number | Reporting Limit | Analytical Result | Qual |
|---|---|---|---|---|
| Carbon tetrachloride | 56-23-5 | 1.00 | **9.89** | |
| 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 | 55.2 | 50.00 | 110 | 72-151 | |
| Surr: 4-Bromofluorobenzene | 460-00-4 | 51.1 | 50.00 | 102 | 80-152 | |
| Surr: Dibromofluoromethane | 1868-53-7 | 54.8 | 50.00 | 110 | 80-124 | |
| Surr: Toluene-d8 | 2037-26-5 | 50.4 | 50.00 | 101 | 77-129 | |



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# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
**Project:** 3rd Quarter Chloroform 2016
**Lab Sample ID:** 1607518-019
**Client Sample ID:** TW4-19_07252016
**Collection Date:** 7/25/2016 1500h
**Received Date:** 7/29/2016 1600h

**Analytical Results**

| Compound | Units | Date Prepared | Date Analyzed | Method Used | Reporting Limit | Analytical Result | Qual |
|---|---|---|---|---|---|---|---|
| Chloride | mg/L | | 8/1/2016 2253h | E300.0 | 100 | **214** | |
| Nitrate/Nitrite (as N) | mg/L | | 8/1/2016 1833h | E353.2 | 0.100 | **10.5** | |

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# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
**Project:** 3rd Quarter Chloroform 2016
**Lab Sample ID:** 1607518-021C
**Client Sample ID:** TW4-20_07252016
**Collection Date:** 7/25/2016 1404h
**Received Date:** 7/29/2016 1600h

Test Code: 8260-W-DEN100

**Analytical Results** VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 8/3/2016 2033h
**Units:** µg/L **Dilution Factor:** 1000 **Method:** SW8260C

| Compound | CAS Number | Reporting Limit | Analytical Result | Qual |
|---|---|---|---|---|
| Chloroform | 67-66-3 | 1,000 | **23,600** | ~ |

| Surrogate | CAS | Result | Amount Spiked | % REC | Limits | Qual |
|---|---|---|---|---|---|---|
| Surr: 1,2-Dichloroethane-d4 | 17060-07-0 | 49,600 | 50,000 | 99.2 | 72-151 | |
| Surr: 4-Bromofluorobenzene | 460-00-4 | 50,600 | 50,000 | 101 | 80-152 | |
| Surr: Dibromofluoromethane | 1868-53-7 | 50,200 | 50,000 | 100 | 80-124 | |
| Surr: Toluene-d8 | 2037-26-5 | 50,600 | 50,000 | 101 | 77-129 | |

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

**Analyzed:** 8/2/2016 1842h
**Units:** µg/L **Dilution Factor:** 1 **Method:** SW8260C

| Compound | CAS Number | Reporting Limit | Analytical Result | Qual |
|---|---|---|---|---|
| Carbon tetrachloride | 56-23-5 | 1.00 | **26.6** | |
| 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 | 49.1 | 50.00 | 98.1 | 80-152 | |
| Surr: Dibromofluoromethane | 1868-53-7 | 53.8 | 50.00 | 108 | 80-124 | |
| Surr: Toluene-d8 | 2037-26-5 | 50.6 | 50.00 | 101 | 77-129 | |

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# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
**Project:** 3rd Quarter Chloroform 2016
**Lab Sample ID:** 1607518-021
**Client Sample ID:** TW4-20_07252016
**Collection Date:** 7/25/2016 1404h
**Received Date:** 7/29/2016 1600h

**Analytical Results**

| Compound | Units | Date Prepared | Date Analyzed | Method Used | Reporting Limit | Analytical Result | Qual |
|---|---|---|---|---|---|---|---|
| Chloride | mg/L | | 8/1/2016 2326h | E300.0 | 100 | **307** | |
| Nitrate/Nitrite (as N) | mg/L | | 8/1/2016 1835h | E353.2 | 0.100 | **11.3** | |

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# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
**Project:** 3rd Quarter Chloroform 2016
**Lab Sample ID:** 1607518-011C
**Client Sample ID:** TW4-21_07252016
**Collection Date:** 7/25/2016 1320h
**Received Date:** 7/29/2016 1600h

Test Code: 8260-W-DEN100

**Analytical Results** VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 8/2/2016 1423h
**Units:** µg/L **Dilution Factor:** 10 **Method:** SW8260C

| Compound | CAS Number | Reporting Limit | Analytical Result | Qual |
|---|---|---|---|---|
| Chloroform | 67-66-3 | 10.0 | **456** | ~ |

| Surrogate | CAS | Result | Amount Spiked | % REC | Limits | Qual |
|---|---|---|---|---|---|---|
| Surr: 1,2-Dichloroethane-d4 | 17060-07-0 | 529 | 500.0 | 106 | 72-151 | |
| Surr: 4-Bromofluorobenzene | 460-00-4 | 483 | 500.0 | 96.6 | 80-152 | |
| Surr: Dibromofluoromethane | 1868-53-7 | 524 | 500.0 | 105 | 80-124 | |
| Surr: Toluene-d8 | 2037-26-5 | 496 | 500.0 | 99.3 | 77-129 | |

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

**Analyzed:** 8/1/2016 1728h
**Units:** µg/L **Dilution Factor:** 1 **Method:** SW8260C

| 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 | < 1.00 | |

| Surrogate | CAS | Result | Amount Spiked | % REC | Limits | Qual |
|---|---|---|---|---|---|---|
| Surr: 1,2-Dichloroethane-d4 | 17060-07-0 | 55.6 | 50.00 | 111 | 72-151 | |
| Surr: 4-Bromofluorobenzene | 460-00-4 | 51.0 | 50.00 | 102 | 80-152 | |
| Surr: Dibromofluoromethane | 1868-53-7 | 54.8 | 50.00 | 110 | 80-124 | |
| Surr: Toluene-d8 | 2037-26-5 | 50.9 | 50.00 | 102 | 77-129 | |

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# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
**Project:** 3rd Quarter Chloroform 2016
**Lab Sample ID:** 1607518-011
**Client Sample ID:** TW4-21_07252016
**Collection Date:** 7/25/2016 1320h
**Received Date:** 7/29/2016 1600h

**Analytical Results**

| Compound | Units | Date Prepared | Date Analyzed | Method Used | Reporting Limit | Analytical Result | Qual |
|---|---|---|---|---|---|---|---|
| Chloride | mg/L | | 8/1/2016 1410h | E300.0 | 100 | **457** | |
| Nitrate/Nitrite (as N) | mg/L | | 8/1/2016 1811h | E353.2 | 0.100 | **16.5** | |

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# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
**Project:** 3rd Quarter Chloroform 2016
**Lab Sample ID:** 1607518-018C
**Client Sample ID:** TW4-22_07252016
**Collection Date:** 7/25/2016 1350h
**Received Date:** 7/29/2016 1600h
Test Code: 8260-W-DEN100

**Analytical Results** VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 8/2/2016 1722h
**Units:** µg/L **Dilution Factor:** 100 **Method:** SW8260C

| Compound | CAS Number | Reporting Limit | Analytical Result | Qual |
|---|---|---|---|---|
| Chloroform | 67-66-3 | 100 | **5,840** | ~ |

| Surrogate | CAS | Result | Amount Spiked | % REC | Limits | Qual |
|---|---|---|---|---|---|---|
| Surr: 1,2-Dichloroethane-d4 | 17060-07-0 | 5,620 | 5,000 | 112 | 72-151 | |
| Surr: 4-Bromofluorobenzene | 460-00-4 | 5,110 | 5,000 | 102 | 80-152 | |
| Surr: Dibromofluoromethane | 1868-53-7 | 5,470 | 5,000 | 109 | 80-124 | |
| Surr: Toluene-d8 | 2037-26-5 | 5,120 | 5,000 | 102 | 77-129 | |

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

**Analyzed:** 8/1/2016 1947h
**Units:** µg/L **Dilution Factor:** 1 **Method:** SW8260C

| 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 | < 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 | 46.1 | 50.00 | 92.2 | 80-152 | |
| Surr: Dibromofluoromethane | 1868-53-7 | 51.0 | 50.00 | 102 | 80-124 | |
| Surr: Toluene-d8 | 2037-26-5 | 47.9 | 50.00 | 95.9 | 77-129 | |

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# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
**Project:** 3rd Quarter Chloroform 2016
**Lab Sample ID:** 1607518-018
**Client Sample ID:** TW4-22_07252016
**Collection Date:** 7/25/2016 1350h
**Received Date:** 7/29/2016 1600h

**Analytical Results**

| Compound | Units | Date Prepared | Date Analyzed | Method Used | Reporting Limit | Analytical Result | Qual |
|---|---|---|---|---|---|---|---|
| Chloride | mg/L | | 8/1/2016 2202h | E300.0 | 100 | **619** | |
| Nitrate/Nitrite (as N) | mg/L | | 8/1/2016 1849h | E353.2 | 0.500 | **61.3** | |

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# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
**Project:** 3rd Quarter Chloroform 2016
**Lab Sample ID:** 1608133-004C
**Client Sample ID:** TW4-23_08032016
**Collection Date:** 8/3/2016 823h
**Received Date:** 8/5/2016 1040h

Test Code: 8260-W-DEN100

**Analytical Results** VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 8/8/2016 1447h
**Units:** µg/L **Dilution Factor:** 1 **Method:** SW8260C

| 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 | 49.3 | 50.00 | 98.6 | 72-151 | |
| Surr: 4-Bromofluorobenzene | 460-00-4 | 48.2 | 50.00 | 96.4 | 80-152 | |
| Surr: Dibromofluoromethane | 1868-53-7 | 47.2 | 50.00 | 94.3 | 80-124 | |
| Surr: Toluene-d8 | 2037-26-5 | 48.6 | 50.00 | 97.3 | 77-129 | |



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# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
**Project:** 3rd Quarter Chloroform 2016
**Lab Sample ID:** 1608133-004
**Client Sample ID:** TW4-23_08032016
**Collection Date:** 8/3/2016 823h
**Received Date:** 8/5/2016 1040h

**Analytical Results**

| Compound | Units | Date Prepared | Date Analyzed | Method Used | Reporting Limit | Analytical Result | Qual |
|---|---|---|---|---|---|---|---|
| Chloride | mg/L | | 8/10/2016 1418h | E300.0 | 10.0 | **49.6** | |
| Nitrate/Nitrite (as N) | mg/L | | 8/5/2016 1621h | E353.2 | 0.100 | < 0.100 | |

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# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
**Project:** 3rd Quarter Chloroform 2016
**Lab Sample ID:** 1607518-010C
**Client Sample ID:** TW4-24_07252016
**Collection Date:** 7/25/2016 1341h
**Received Date:** 7/29/2016 1600h

Test Code: 8260-W-DEN100

**Analytical Results** VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 8/1/2016 1708h
**Units:** µg/L **Dilution Factor:** 1 **Method:** SW8260C

| Compound | CAS Number | Reporting Limit | Analytical Result | Qual |
|---|---|---|---|---|
| Carbon tetrachloride | 56-23-5 | 1.00 | < 1.00 | |
| Chloroform | 67-66-3 | 1.00 | **17.8** | |
| 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 | 55.3 | 50.00 | 111 | 72-151 | |
| Surr: 4-Bromofluorobenzene | 460-00-4 | 50.6 | 50.00 | 101 | 80-152 | |
| Surr: Dibromofluoromethane | 1868-53-7 | 53.6 | 50.00 | 107 | 80-124 | |
| Surr: Toluene-d8 | 2037-26-5 | 51.5 | 50.00 | 103 | 77-129 | |



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# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
**Project:** 3rd Quarter Chloroform 2016
**Lab Sample ID:** 1607518-010
**Client Sample ID:** TW4-24_07252016
**Collection Date:** 7/25/2016 1341h
**Received Date:** 7/29/2016 1600h

**Analytical Results**

| Compound | Units | Date Prepared | Date Analyzed | Method Used | Reporting Limit | Analytical Result | Qual |
|---|---|---|---|---|---|---|---|
| Chloride | mg/L | | 8/1/2016 1320h | E300.0 | 100 | **1,180** | |
| Nitrate/Nitrite (as N) | mg/L | | 8/1/2016 1848h | E353.2 | 0.500 | **34.4** | |

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# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
**Project:** 3rd Quarter Chloroform 2016
**Lab Sample ID:** 1607518-009C
**Client Sample ID:** TW4-25_07252016
**Collection Date:** 7/25/2016 1326h
**Received Date:** 7/29/2016 1600h

Test Code: 8260-W-DEN100

**Analytical Results** VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 8/1/2016 1648h
**Units:** µg/L **Dilution Factor:** 1 **Method:** SW8260C

| 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 | 54.6 | 50.00 | 109 | 72-151 | |
| Surr: 4-Bromofluorobenzene | 460-00-4 | 49.1 | 50.00 | 98.2 | 80-152 | |
| Surr: Dibromofluoromethane | 1868-53-7 | 52.8 | 50.00 | 106 | 80-124 | |
| Surr: Toluene-d8 | 2037-26-5 | 49.7 | 50.00 | 99.4 | 77-129 | |

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# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
**Project:** 3rd Quarter Chloroform 2016
**Lab Sample ID:** 1607518-009
**Client Sample ID:** TW4-25_07252016
**Collection Date:** 7/25/2016 1326h
**Received Date:** 7/29/2016 1600h

**Analytical Results**

| Compound | Units | Date Prepared | Date Analyzed | Method Used | Reporting Limit | Analytical Result | Qual |
|---|---|---|---|---|---|---|---|
| Chloride | mg/L | | 8/1/2016 1749h | E300.0 | 10.0 | **74.1** | |
| Nitrate/Nitrite (as N) | mg/L | | 8/1/2016 1759h | E353.2 | 0.100 | **1.78** | '@ |

*@ - High RPD due to suspected sample non-homogeneity or matrix interference.*
*' - Matrix spike recovery indicates matrix interference. The method is in control as indicated by the LCS.*

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# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
**Project:** 3rd Quarter Chloroform 2016
**Lab Sample ID:** 1608133-008C
**Client Sample ID:** TW4-26_08032016
**Collection Date:** 8/3/2016 900h
**Received Date:** 8/5/2016 1040h

Test Code: 8260-W-DEN100

**Analytical Results** VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 8/8/2016 1606h
**Units:** µg/L **Dilution Factor:** 1 **Method:** SW8260C

| Compound | CAS Number | Reporting Limit | Analytical Result | Qual |
|---|---|---|---|---|
| Carbon tetrachloride | 56-23-5 | 1.00 | < 1.00 | |
| Chloroform | 67-66-3 | 1.00 | **4.42** | |
| 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 | 49.7 | 50.00 | 99.3 | 72-151 | |
| Surr: 4-Bromofluorobenzene | 460-00-4 | 49.1 | 50.00 | 98.2 | 80-152 | |
| Surr: Dibromofluoromethane | 1868-53-7 | 48.2 | 50.00 | 96.4 | 80-124 | |
| Surr: Toluene-d8 | 2037-26-5 | 49.3 | 50.00 | 98.5 | 77-129 | |

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# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
**Project:** 3rd Quarter Chloroform 2016
**Lab Sample ID:** 1608133-008
**Client Sample ID:** TW4-26_08032016
**Collection Date:** 8/3/2016 900h
**Received Date:** 8/5/2016 1040h

**Analytical Results**

| Compound | Units | Date Prepared | Date Analyzed | Method Used | Reporting Limit | Analytical Result | Qual |
|---|---|---|---|---|---|---|---|
| Chloride | mg/L | | 8/16/2016 1921h | E300.0 | 1.00 | **13.9** | |
| Nitrate/Nitrite (as N) | mg/L | | 8/5/2016 1626h | E353.2 | 0.100 | **17.9** | |

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# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
**Project:** 3rd Quarter Chloroform 2016
**Lab Sample ID:** 1608133-005C
**Client Sample ID:** TW4-27_08032016
**Collection Date:** 8/3/2016 834h
**Received Date:** 8/5/2016 1040h

Test Code: 8260-W-DEN100

**Analytical Results** VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 8/8/2016 1507h
**Units:** µg/L **Dilution Factor:** 1 **Method:** SW8260C

| Compound | CAS Number | Reporting Limit | Analytical Result | Qual |
|---|---|---|---|---|
| Carbon tetrachloride | 56-23-5 | 1.00 | < 1.00 | |
| Chloroform | 67-66-3 | 1.00 | **2.78** | |
| 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 | 48.2 | 50.00 | 96.3 | 72-151 | |
| Surr: 4-Bromofluorobenzene | 460-00-4 | 49.2 | 50.00 | 98.3 | 80-152 | |
| Surr: Dibromofluoromethane | 1868-53-7 | 46.9 | 50.00 | 93.8 | 80-124 | |
| Surr: Toluene-d8 | 2037-26-5 | 47.6 | 50.00 | 95.2 | 77-129 | |

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# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
**Project:** 3rd Quarter Chloroform 2016
**Lab Sample ID:** 1608133-005
**Client Sample ID:** TW4-27_08032016
**Collection Date:** 8/3/2016 834h
**Received Date:** 8/5/2016 1040h

**Analytical Results**

| Compound | Units | Date Prepared | Date Analyzed | Method Used | Reporting Limit | Analytical Result | Qual |
|---|---|---|---|---|---|---|---|
| Chloride | mg/L | | 8/10/2016 1435h | E300.0 | 10.0 | **27.1** | |
| Nitrate/Nitrite (as N) | mg/L | | 8/5/2016 1659h | E353.2 | 0.200 | **21.8** | |


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# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
**Project:** 3rd Quarter Chloroform 2016
**Lab Sample ID:** 1607518-004C
**Client Sample ID:** TW4-28_07272016
**Collection Date:** 7/27/2016 820h
**Received Date:** 7/29/2016 1600h

Test Code: 8260-W-DEN100

**Analytical Results** VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 8/1/2016 1509h
**Units:** µg/L **Dilution Factor:** 1 **Method:** SW8260C

| 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 | 54.2 | 50.00 | 108 | 72-151 | |
| Surr: 4-Bromofluorobenzene | 460-00-4 | 51.6 | 50.00 | 103 | 80-152 | |
| Surr: Dibromofluoromethane | 1868-53-7 | 52.3 | 50.00 | 105 | 80-124 | |
| Surr: Toluene-d8 | 2037-26-5 | 51.3 | 50.00 | 103 | 77-129 | |

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# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
**Project:** 3rd Quarter Chloroform 2016
**Lab Sample ID:** 1607518-004
**Client Sample ID:** TW4-28_07272016
**Collection Date:** 7/27/2016 820h
**Received Date:** 7/29/2016 1600h

**Analytical Results**

| Compound | Units | Date Prepared | Date Analyzed | Method Used | Reporting Limit | Analytical Result | Qual |
|---|---|---|---|---|---|---|---|
| Chloride | mg/L | | 8/1/2016 1625h | E300.0 | 10.0 | **70.1** | |
| Nitrate/Nitrite (as N) | mg/L | | 8/1/2016 1847h | E353.2 | 0.200 | **31.3** | |

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# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
**Project:** 3rd Quarter Chloroform 2016
**Lab Sample ID:** 1608133-014C
**Client Sample ID:** TW4-29_08042016
**Collection Date:** 8/4/2016 805h
**Received Date:** 8/5/2016 1040h

Test Code: 8260-W-DEN100

**Analytical Results** VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 8/9/2016 1339h
**Units:** µg/L **Dilution Factor:** 10 **Method:** SW8260C

| Compound | CAS Number | Reporting Limit | Analytical Result | Qual |
|---|---|---|---|---|
| Chloroform | 67-66-3 | 10.0 | **401** | ~ |

| Surrogate | CAS | Result | Amount Spiked | % REC | Limits | Qual |
|---|---|---|---|---|---|---|
| Surr: 1,2-Dichloroethane-d4 | 17060-07-0 | 548 | 500.0 | 110 | 72-151 | |
| Surr: 4-Bromofluorobenzene | 460-00-4 | 496 | 500.0 | 99.3 | 80-152 | |
| Surr: Dibromofluoromethane | 1868-53-7 | 536 | 500.0 | 107 | 80-124 | |
| Surr: Toluene-d8 | 2037-26-5 | 509 | 500.0 | 102 | 77-129 | |

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

**Analyzed:** 8/8/2016 1806h
**Units:** µg/L **Dilution Factor:** 1 **Method:** SW8260C

| 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 | < 1.00 | |

| Surrogate | CAS | Result | Amount Spiked | % REC | Limits | Qual |
|---|---|---|---|---|---|---|
| Surr: 1,2-Dichloroethane-d4 | 17060-07-0 | 46.0 | 50.00 | 92.0 | 72-151 | |
| Surr: 4-Bromofluorobenzene | 460-00-4 | 46.9 | 50.00 | 93.9 | 80-152 | |
| Surr: Dibromofluoromethane | 1868-53-7 | 47.1 | 50.00 | 94.1 | 80-124 | |
| Surr: Toluene-d8 | 2037-26-5 | 47.1 | 50.00 | 94.2 | 77-129 | |



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# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
**Project:** 3rd Quarter Chloroform 2016
**Lab Sample ID:** 1608133-014
**Client Sample ID:** TW4-29_08042016
**Collection Date:** 8/4/2016 805h
**Received Date:** 8/5/2016 1040h

**Analytical Results**

| Compound | Units | Date Prepared | Date Analyzed | Method Used | Reporting Limit | Analytical Result | Qual |
|---|---|---|---|---|---|---|---|
| Chloride | mg/L | | 8/10/2016 1921h | E300.0 | 10.0 | **40.6** | |
| Nitrate/Nitrite (as N) | mg/L | | 8/5/2016 1645h | E353.2 | 0.100 | **2.44** | |

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# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
**Project:** 3rd Quarter Chloroform 2016
**Lab Sample ID:** 1608133-007C
**Client Sample ID:** TW4-30_08032016
**Collection Date:** 8/3/2016 850h
**Received Date:** 8/5/2016 1040h

Test Code: 8260-W-DEN100

**Analytical Results** VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 8/8/2016 1546h
**Units:** µg/L **Dilution Factor:** 1 **Method:** SW8260C

| Compound | CAS Number | Reporting Limit | Analytical Result | Qual |
|---|---|---|---|---|
| Carbon tetrachloride | 56-23-5 | 1.00 | < 1.00 | |
| Chloroform | 67-66-3 | 1.00 | **6.79** | |
| 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 | 49.6 | 50.00 | 99.2 | 72-151 | |
| Surr: 4-Bromofluorobenzene | 460-00-4 | 51.5 | 50.00 | 103 | 80-152 | |
| Surr: Dibromofluoromethane | 1868-53-7 | 48.0 | 50.00 | 96.1 | 80-124 | |
| Surr: Toluene-d8 | 2037-26-5 | 49.1 | 50.00 | 98.3 | 77-129 | |



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# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
**Project:** 3rd Quarter Chloroform 2016
**Lab Sample ID:** 1608133-007
**Client Sample ID:** TW4-30_08032016
**Collection Date:** 8/3/2016 850h
**Received Date:** 8/5/2016 1040h

**Analytical Results**

| Compound | Units | Date Prepared | Date Analyzed | Method Used | Reporting Limit | Analytical Result | Qual |
|---|---|---|---|---|---|---|---|
| Chloride | mg/L | | 8/10/2016 1616h | E300.0 | 10.0 | **38.6** | |
| Nitrate/Nitrite (as N) | mg/L | | 8/5/2016 1625h | E353.2 | 0.100 | **2.32** | |

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# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
**Project:** 3rd Quarter Chloroform 2016
**Lab Sample ID:** 1607518-008C
**Client Sample ID:** TW4-31_07282016
**Collection Date:** 7/28/2016 819h
**Received Date:** 7/29/2016 1600h

Test Code: 8260-W-DEN100

**Analytical Results** VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 8/1/2016 1628h
**Units:** µg/L **Dilution Factor:** 1 **Method:** SW8260C

| 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 | 55.6 | 50.00 | 111 | 72-151 | |
| Surr: 4-Bromofluorobenzene | 460-00-4 | 50.6 | 50.00 | 101 | 80-152 | |
| Surr: Dibromofluoromethane | 1868-53-7 | 53.4 | 50.00 | 107 | 80-124 | |
| Surr: Toluene-d8 | 2037-26-5 | 50.2 | 50.00 | 100 | 77-129 | |

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# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
**Project:** 3rd Quarter Chloroform 2016
**Lab Sample ID:** 1607518-008
**Client Sample ID:** TW4-31_07282016
**Collection Date:** 7/28/2016 819h
**Received Date:** 7/29/2016 1600h

**Analytical Results**

| Compound | Units | Date Prepared | Date Analyzed | Method Used | Reporting Limit | Analytical Result | Qual |
|---|---|---|---|---|---|---|---|
| Chloride | mg/L | | 8/1/2016 1732h | E300.0 | 10.0 | **30.6** | |
| Nitrate/Nitrite (as N) | mg/L | | 8/1/2016 1758h | E353.2 | 0.100 | **1.41** | |

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# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
**Project:** 3rd Quarter Chloroform 2016
**Lab Sample ID:** 1607518-005C
**Client Sample ID:** TW4-32_07282016
**Collection Date:** 7/28/2016 800h
**Received Date:** 7/29/2016 1600h

Test Code: 8260-W-DEN100

**Analytical Results** VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 8/1/2016 1529h
**Units:** µg/L **Dilution Factor:** 1 **Method:** SW8260C

| 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 | 55.7 | 50.00 | 111 | 72-151 | |
| Surr: 4-Bromofluorobenzene | 460-00-4 | 51.8 | 50.00 | 104 | 80-152 | |
| Surr: Dibromofluoromethane | 1868-53-7 | 53.5 | 50.00 | 107 | 80-124 | |
| Surr: Toluene-d8 | 2037-26-5 | 51.6 | 50.00 | 103 | 77-129 | |

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# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
**Project:** 3rd Quarter Chloroform 2016
**Lab Sample ID:** 1607518-005
**Client Sample ID:** TW4-32_07282016
**Collection Date:** 7/28/2016 800h
**Received Date:** 7/29/2016 1600h

**Analytical Results**

| Compound | Units | Date Prepared | Date Analyzed | Method Used | Reporting Limit | Analytical Result | Qual |
|---|---|---|---|---|---|---|---|
| Chloride | mg/L | | 8/1/2016 1642h | E300.0 | 10.0 | **64.4** | |
| Nitrate/Nitrite (as N) | mg/L | | 8/1/2016 1754h | E353.2 | 0.100 | **3.44** | |

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# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
**Project:** 3rd Quarter Chloroform 2016
**Lab Sample ID:** 1608133-013C
**Client Sample ID:** TW4-33_08042016
**Collection Date:** 8/4/2016 758h
**Received Date:** 8/5/2016 1040h

Test Code: 8260-W-DEN100

**Analytical Results** VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 8/8/2016 1746h
**Units:** µg/L **Dilution Factor:** 1 **Method:** SW8260C

| Compound | CAS Number | Reporting Limit | Analytical Result | Qual |
|---|---|---|---|---|
| Carbon tetrachloride | 56-23-5 | 1.00 | < 1.00 | |
| Chloroform | 67-66-3 | 1.00 | **121** | |
| 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 | 51.1 | 50.00 | 102 | 72-151 | |
| Surr: 4-Bromofluorobenzene | 460-00-4 | 51.2 | 50.00 | 102 | 80-152 | |
| Surr: Dibromofluoromethane | 1868-53-7 | 50.8 | 50.00 | 102 | 80-124 | |
| Surr: Toluene-d8 | 2037-26-5 | 51.3 | 50.00 | 103 | 77-129 | |



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# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
**Project:** 3rd Quarter Chloroform 2016
**Lab Sample ID:** 1608133-013
**Client Sample ID:** TW4-33_08042016
**Collection Date:** 8/4/2016 758h
**Received Date:** 8/5/2016 1040h

**Analytical Results**

| Compound | Units | Date Prepared | Date Analyzed | Method Used | Reporting Limit | Analytical Result | Qual |
|---|---|---|---|---|---|---|---|
| Chloride | mg/L | | 8/10/2016 1757h | E300.0 | 10.0 | **48.5** | |
| Nitrate/Nitrite (as N) | mg/L | | 8/5/2016 1644h | E353.2 | 0.100 | **2.32** | |

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# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
**Project:** 3rd Quarter Chloroform 2016
**Lab Sample ID:** 1608133-002C
**Client Sample ID:** TW4-34_08032016
**Collection Date:** 8/3/2016 807h
**Received Date:** 8/5/2016 1040h

Test Code: 8260-W-DEN100

**Analytical Results** VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 8/8/2016 1327h
**Units:** µg/L **Dilution Factor:** 1 **Method:** SW8260C

| 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 | 51.4 | 50.00 | 103 | 72-151 | |
| Surr: 4-Bromofluorobenzene | 460-00-4 | 50.0 | 50.00 | 100 | 80-152 | |
| Surr: Dibromofluoromethane | 1868-53-7 | 49.8 | 50.00 | 99.5 | 80-124 | |
| Surr: Toluene-d8 | 2037-26-5 | 50.8 | 50.00 | 102 | 77-129 | |



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# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
**Project:** 3rd Quarter Chloroform 2016
**Lab Sample ID:** 1608133-002
**Client Sample ID:** TW4-34_08032016
**Collection Date:** 8/3/2016 807h
**Received Date:** 8/5/2016 1040h

**Analytical Results**

| Compound | Units | Date Prepared | Date Analyzed | Method Used | Reporting Limit | Analytical Result | Qual |
|---|---|---|---|---|---|---|---|
| Chloride | mg/L | | 8/10/2016 1344h | E300.0 | 10.0 | **17.2** | |
| Nitrate/Nitrite (as N) | mg/L | | 8/5/2016 1616h | E353.2 | 0.100 | **0.726** | |

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# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
**Project:** 3rd Quarter Chloroform 2016
**Lab Sample ID:** 1608133-001C
**Client Sample ID:** TW4-34R_08022016
**Collection Date:** 8/2/2016 725h
**Received Date:** 8/5/2016 1040h

Test Code: 8260-W-DEN100

**Analytical Results** VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 8/8/2016 1308h
**Units:** µg/L **Dilution Factor:** 1 **Method:** SW8260C

| 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 | 51.4 | 50.00 | 103 | 72-151 | |
| Surr: 4-Bromofluorobenzene | 460-00-4 | 52.6 | 50.00 | 105 | 80-152 | |
| Surr: Dibromofluoromethane | 1868-53-7 | 48.9 | 50.00 | 97.8 | 80-124 | |
| Surr: Toluene-d8 | 2037-26-5 | 51.2 | 50.00 | 102 | 77-129 | |



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# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
**Project:** 3rd Quarter Chloroform 2016
**Lab Sample ID:** 1608133-001
**Client Sample ID:** TW4-34R_08022016
**Collection Date:** 8/2/2016 725h
**Received Date:** 8/5/2016 1040h

**Analytical Results**

| Compound | Units | Date Prepared | Date Analyzed | Method Used | Reporting Limit | Analytical Result | Qual |
|---|---|---|---|---|---|---|---|
| Chloride | mg/L | | 8/11/2016 736h | E300.0 | 1.00 | < 1.00 | |
| Nitrate/Nitrite (as N) | mg/L | | 8/5/2016 1608h | E353.2 | 0.100 | < 0.100 | |

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# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
**Project:** 3rd Quarter Chloroform 2016
**Lab Sample ID:** 1608133-003C
**Client Sample ID:** TW4-35_08032016
**Collection Date:** 8/3/2016 814h
**Received Date:** 8/5/2016 1040h

Test Code: 8260-W-DEN100

**Analytical Results** VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 8/8/2016 1347h
**Units:** µg/L **Dilution Factor:** 1 **Method:** SW8260C

| 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 | 48.3 | 50.00 | 96.5 | 72-151 | |
| Surr: 4-Bromofluorobenzene | 460-00-4 | 49.0 | 50.00 | 98.1 | 80-152 | |
| Surr: Dibromofluoromethane | 1868-53-7 | 46.0 | 50.00 | 92.1 | 80-124 | |
| Surr: Toluene-d8 | 2037-26-5 | 47.4 | 50.00 | 94.7 | 77-129 | |



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# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
**Project:** 3rd Quarter Chloroform 2016
**Lab Sample ID:** 1608133-003
**Client Sample ID:** TW4-35_08032016
**Collection Date:** 8/3/2016 814h
**Received Date:** 8/5/2016 1040h

**Analytical Results**

| Compound | Units | Date Prepared | Date Analyzed | Method Used | Reporting Limit | Analytical Result | Qual |
|---|---|---|---|---|---|---|---|
| Chloride | mg/L | | 8/10/2016 1401h | E300.0 | 10.0 | **34.8** | |
| Nitrate/Nitrite (as N) | mg/L | | 8/5/2016 1620h | E353.2 | 0.100 | **0.723** | |

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# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
**Project:** 3rd Quarter Chloroform 2016
**Lab Sample ID:** 1607518-007C
**Client Sample ID:** TW4-36_07282016
**Collection Date:** 7/28/2016 812h
**Received Date:** 7/29/2016 1600h

Test Code: 8260-W-DEN100

**Analytical Results** VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 8/1/2016 1608h
**Units:** µg/L **Dilution Factor:** 1 **Method:** SW8260C

| 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 | 54.9 | 50.00 | 110 | 72-151 | |
| Surr: 4-Bromofluorobenzene | 460-00-4 | 49.9 | 50.00 | 99.8 | 80-152 | |
| Surr: Dibromofluoromethane | 1868-53-7 | 52.8 | 50.00 | 106 | 80-124 | |
| Surr: Toluene-d8 | 2037-26-5 | 51.4 | 50.00 | 103 | 77-129 | |

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# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
**Project:** 3rd Quarter Chloroform 2016
**Lab Sample ID:** 1607518-007
**Client Sample ID:** TW4-36_07282016
**Collection Date:** 7/28/2016 812h
**Received Date:** 7/29/2016 1600h

**Analytical Results**

| Compound | Units | Date Prepared | Date Analyzed | Method Used | Reporting Limit | Analytical Result | Qual |
|---|---|---|---|---|---|---|---|
| Chloride | mg/L | | 8/1/2016 1716h | E300.0 | 10.0 | **69.4** | |
| Nitrate/Nitrite (as N) | mg/L | | 8/1/2016 1757h | E353.2 | 0.100 | < 0.100 | |

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# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
**Project:** 3rd Quarter Chloroform 2016
**Lab Sample ID:** 1607518-020C
**Client Sample ID:** TW4-37_07252016
**Collection Date:** 7/25/2016 1356h
**Received Date:** 7/29/2016 1600h

Test Code: 8260-W-DEN100

**Analytical Results** VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 8/2/2016 1802h
**Units:** µg/L **Dilution Factor:** 100 **Method:** SW8260C

| Compound | CAS Number | Reporting Limit | Analytical Result | Qual |
|---|---|---|---|---|
| Chloroform | 67-66-3 | 100 | **15,900** | ~ |

| Surrogate | CAS | Result | Amount Spiked | % REC | Limits | Qual |
|---|---|---|---|---|---|---|
| Surr: 1,2-Dichloroethane-d4 | 17060-07-0 | 5,550 | 5,000 | 111 | 72-151 | |
| Surr: 4-Bromofluorobenzene | 460-00-4 | 5,080 | 5,000 | 102 | 80-152 | |
| Surr: Dibromofluoromethane | 1868-53-7 | 5,440 | 5,000 | 109 | 80-124 | |
| Surr: Toluene-d8 | 2037-26-5 | 5,110 | 5,000 | 102 | 77-129 | |

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

**Analyzed:** 8/1/2016 2026h
**Units:** µg/L **Dilution Factor:** 1 **Method:** SW8260C

| Compound | CAS Number | Reporting Limit | Analytical Result | Qual |
|---|---|---|---|---|
| Carbon tetrachloride | 56-23-5 | 1.00 | **16.7** | |
| 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 | 55.8 | 50.00 | 112 | 72-151 | |
| Surr: 4-Bromofluorobenzene | 460-00-4 | 49.5 | 50.00 | 99.0 | 80-152 | |
| Surr: Dibromofluoromethane | 1868-53-7 | 54.7 | 50.00 | 109 | 80-124 | |
| Surr: Toluene-d8 | 2037-26-5 | 50.6 | 50.00 | 101 | 77-129 | |



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# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
**Project:** 3rd Quarter Chloroform 2016
**Lab Sample ID:** 1607518-020
**Client Sample ID:** TW4-37_07252016
**Collection Date:** 7/25/2016 1356h
**Received Date:** 7/29/2016 1600h

**Analytical Results**

| Compound | Units | Date Prepared | Date Analyzed | Method Used | Reporting Limit | Analytical Result | Qual |
|---|---|---|---|---|---|---|---|
| Chloride | mg/L | | 8/1/2016 2309h | E300.0 | 100 | **294** | |
| Nitrate/Nitrite (as N) | mg/L | | 8/1/2016 1851h | E353.2 | 0.200 | **33.4** | |

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer



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# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
**Project:** 3rd Quarter Chloroform 2016
**Lab Sample ID:** 1607518-022C
**Client Sample ID:** TW4-60_07252016
**Collection Date:** 7/25/2016 1300h
**Received Date:** 7/29/2016 1600h
Test Code: 8260-W-DEN100

**Analytical Results** VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 8/3/2016 1416h
**Units:** µg/L **Dilution Factor:** 1 **Method:** SW8260C

| 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 | 57.4 | 50.00 | 115 | 72-151 | |
| Surr: 4-Bromofluorobenzene | 460-00-4 | 49.6 | 50.00 | 99.3 | 80-152 | |
| Surr: Dibromofluoromethane | 1868-53-7 | 54.8 | 50.00 | 110 | 80-124 | |
| Surr: Toluene-d8 | 2037-26-5 | 50.1 | 50.00 | 100 | 77-129 | |

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# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
**Project:** 3rd Quarter Chloroform 2016
**Lab Sample ID:** 1607518-022
**Client Sample ID:** TW4-60_07252016
**Collection Date:** 7/25/2016 1300h
**Received Date:** 7/29/2016 1600h

**Analytical Results**

| Compound | Units | Date Prepared | Date Analyzed | Method Used | Reporting Limit | Analytical Result | Qual |
|---|---|---|---|---|---|---|---|
| Chloride | mg/L | | 8/1/2016 2021h | E300.0 | 1.00 | < 1.00 | |
| Nitrate/Nitrite (as N) | mg/L | | 8/1/2016 1836h | E353.2 | 0.100 | < 0.100 | |

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Jose Rocha
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# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
**Project:** 3rd Quarter Chloroform 2016
**Lab Sample ID:** 1607518-023C
**Client Sample ID:** TW4-65_07272016
**Collection Date:** 7/27/2016 820h
**Received Date:** 7/29/2016 1600h

Test Code: 8260-W-DEN100

**Analytical Results** VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 8/3/2016 1336h
**Units:** µg/L **Dilution Factor:** 1 **Method:** SW8260C

| 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 | 57.1 | 50.00 | 114 | 72-151 | |
| Surr: 4-Bromofluorobenzene | 460-00-4 | 51.7 | 50.00 | 103 | 80-152 | |
| Surr: Dibromofluoromethane | 1868-53-7 | 56.1 | 50.00 | 112 | 80-124 | |
| Surr: Toluene-d8 | 2037-26-5 | 50.0 | 50.00 | 100 | 77-129 | |



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# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
**Project:** 3rd Quarter Chloroform 2016
**Lab Sample ID:** 1607518-023
**Client Sample ID:** TW4-65_07272016
**Collection Date:** 7/27/2016 820h
**Received Date:** 7/29/2016 1600h

**Analytical Results**

| Compound | Units | Date Prepared | Date Analyzed | Method Used | Reporting Limit | Analytical Result | Qual |
|---|---|---|---|---|---|---|---|
| Chloride | mg/L | | 8/1/2016 2038h | E300.0 | 10.0 | **70.9** | |
| Nitrate/Nitrite (as N) | mg/L | | 8/1/2016 1852h | E353.2 | 0.200 | **35.6** | |


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Laboratory Director

Jose Rocha
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Laboratory Director

Jose Rocha
QA Officer

# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
**Project:** 3rd Quarter Chloroform 2016
**Lab Sample ID:** 1608133-019C
**Client Sample ID:** TW4-70_08032016
**Collection Date:** 8/3/2016 823h
**Received Date:** 8/5/2016 1040h

Test Code: 8260-W-DEN100

**Analytical Results** VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 8/8/2016 1945h
**Units:** µg/L **Dilution Factor:** 1 **Method:** SW8260C

| 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 | 48.4 | 50.00 | 96.8 | 72-151 | |
| Surr: 4-Bromofluorobenzene | 460-00-4 | 52.2 | 50.00 | 104 | 80-152 | |
| Surr: Dibromofluoromethane | 1868-53-7 | 49.3 | 50.00 | 98.7 | 80-124 | |
| Surr: Toluene-d8 | 2037-26-5 | 50.9 | 50.00 | 102 | 77-129 | |



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# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
**Project:** 3rd Quarter Chloroform 2016
**Lab Sample ID:** 1608133-019
**Client Sample ID:** TW4-70_08032016
**Collection Date:** 8/3/2016 823h
**Received Date:** 8/5/2016 1040h

**Analytical Results**

| Compound | Units | Date Prepared | Date Analyzed | Method Used | Reporting Limit | Analytical Result | Qual |
|---|---|---|---|---|---|---|---|
| Chloride | mg/L | | 8/10/2016 2047h | E300.0 | 10.0 | **48.3** | |
| Nitrate/Nitrite (as N) | mg/L | | 8/5/2016 1658h | E353.2 | 0.100 | < 0.100 | |

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Laboratory Director

Jose Rocha
QA Officer



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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
**Project:** 3rd Quarter Chloroform 2016
**Lab Sample ID:** 1608133-020A
**Client Sample ID:** Trip Blank
**Collection Date:** 8/2/2016
**Received Date:** 8/5/2016 1040h

Test Code: 8260-W-DEN100

**Analytical Results** VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 8/8/2016 1248h
**Units:** µg/L **Dilution Factor:** 1 **Method:** SW8260C

| 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 | 51.5 | 50.00 | 103 | 72-151 | |
| Surr: 4-Bromofluorobenzene | 460-00-4 | 52.3 | 50.00 | 105 | 80-152 | |
| Surr: Dibromofluoromethane | 1868-53-7 | 49.3 | 50.00 | 98.6 | 80-124 | |
| Surr: Toluene-d8 | 2037-26-5 | 50.9 | 50.00 | 102 | 77-129 | |



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# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
**Project:** 3rd Quarter Chloroform 2016
**Lab Sample ID:** 1607518-024A
**Client Sample ID:** Trip Blank
**Collection Date:** 7/25/2016
**Received Date:** 7/29/2016 1600h

Test Code: 8260-W-DEN100

**Analytical Results** VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 8/2/2016 1822h
**Units:** µg/L **Dilution Factor:** 1 **Method:** SW8260C

| 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 | 54.5 | 50.00 | 109 | 72-151 | |
| Surr: 4-Bromofluorobenzene | 460-00-4 | 47.1 | 50.00 | 94.2 | 80-152 | |
| Surr: Dibromofluoromethane | 1868-53-7 | 52.7 | 50.00 | 105 | 80-124 | |
| Surr: Toluene-d8 | 2037-26-5 | 49.4 | 50.00 | 98.7 | 77-129 | |

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Jose Rocha
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Jose Rocha
QA Officer

# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
**Project:** 3rd Quarter Chloroform 2016
**Lab Sample ID:** 1608399-002A
**Client Sample ID:** Trip Blank
**Collection Date:** 8/17/2016
**Received Date:** 8/19/2016 1040h

Test Code: 8260-W-DEN100

**Analytical Results** VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 8/22/2016 934h
**Units:** µg/L **Dilution Factor:** 1 **Method:** SW8260C

| 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 | 48.9 | 50.00 | 97.8 | 72-151 | |
| Surr: 4-Bromofluorobenzene | 460-00-4 | 46.0 | 50.00 | 92.1 | 80-152 | |
| Surr: Dibromofluoromethane | 1868-53-7 | 48.9 | 50.00 | 97.9 | 80-124 | |
| Surr: Toluene-d8 | 2037-26-5 | 48.4 | 50.00 | 96.7 | 77-129 | |



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American West
ANALYTICAL LABORATORIES

Garrin Palmer
Energy Fuels Resources, Inc.
6425 S. Hwy 191
Blanding, UT 84511
TEL: (303) 389-4134

RE: 3rd Quarter Chloroform 2016

Dear Garrin Palmer: Lab Set ID: 1607518

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American West Analytical Laboratories received sample(s) on 7/29/2016 for the analyses presented in the following report.

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, Wyoming, 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.

Thank You,

Approved by: Kyle F. Gross Digitally signed by Kyle F. Gross Date: 2016.08.09 09:40:51 -06'00'

Laboratory Director or designee



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Jose Rocha
QA Officer

# SAMPLE SUMMARY

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
**Project:** 3rd Quarter Chloroform 2016
**Lab Set ID:** 1607518
**Date Received:** 7/29/2016 1600h

| Lab Sample ID | Client Sample ID | Date Collected | Matrix | Analysis |
|---|---|---|---|---|
| 1607518-001A | TW4-03R_07262016 | 7/26/2016 1238h | Aqueous | Anions, E300.0 |
| 1607518-001B | TW4-03R_07262016 | 7/26/2016 1238h | Aqueous | Nitrite/Nitrate (as N), E353.2 |
| 1607518-001C | TW4-03R_07262016 | 7/26/2016 1238h | Aqueous | VOA by GC/MS Method 8260C/5030C |
| 1607518-002A | TW4-03_07272016 | 7/27/2016 754h | Aqueous | Anions, E300.0 |
| 1607518-002B | TW4-03_07272016 | 7/27/2016 754h | Aqueous | Nitrite/Nitrate (as N), E353.2 |
| 1607518-002C | TW4-03_07272016 | 7/27/2016 754h | Aqueous | VOA by GC/MS Method 8260C/5030C |
| 1607518-003A | TW4-12_07272016 | 7/27/2016 813h | Aqueous | Anions, E300.0 |
| 1607518-003B | TW4-12_07272016 | 7/27/2016 813h | Aqueous | Nitrite/Nitrate (as N), E353.2 |
| 1607518-003C | TW4-12_07272016 | 7/27/2016 813h | Aqueous | VOA by GC/MS Method 8260C/5030C |
| 1607518-004A | TW4-28_07272016 | 7/27/2016 820h | Aqueous | Anions, E300.0 |
| 1607518-004B | TW4-28_07272016 | 7/27/2016 820h | Aqueous | Nitrite/Nitrate (as N), E353.2 |
| 1607518-004C | TW4-28_07272016 | 7/27/2016 820h | Aqueous | VOA by GC/MS Method 8260C/5030C |
| 1607518-005A | TW4-32_07282016 | 7/28/2016 800h | Aqueous | Anions, E300.0 |
| 1607518-005B | TW4-32_07282016 | 7/28/2016 800h | Aqueous | Nitrite/Nitrate (as N), E353.2 |
| 1607518-005C | TW4-32_07282016 | 7/28/2016 800h | Aqueous | VOA by GC/MS Method 8260C/5030C |
| 1607518-006A | TW4-13_07282016 | 7/28/2016 807h | Aqueous | Anions, E300.0 |
| 1607518-006B | TW4-13_07282016 | 7/28/2016 807h | Aqueous | Nitrite/Nitrate (as N), E353.2 |
| 1607518-006C | TW4-13_07282016 | 7/28/2016 807h | Aqueous | VOA by GC/MS Method 8260C/5030C |
| 1607518-007A | TW4-36_07282016 | 7/28/2016 812h | Aqueous | Anions, E300.0 |
| 1607518-007B | TW4-36_07282016 | 7/28/2016 812h | Aqueous | Nitrite/Nitrate (as N), E353.2 |
| 1607518-007C | TW4-36_07282016 | 7/28/2016 812h | Aqueous | VOA by GC/MS Method 8260C/5030C |
| 1607518-008A | TW4-31_07282016 | 7/28/2016 819h | Aqueous | Anions, E300.0 |
| 1607518-008B | TW4-31_07282016 | 7/28/2016 819h | Aqueous | Nitrite/Nitrate (as N), E353.2 |
| 1607518-008C | TW4-31_07282016 | 7/28/2016 819h | Aqueous | VOA by GC/MS Method 8260C/5030C |
| 1607518-009A | TW4-25_07252016 | 7/25/2016 1326h | Aqueous | Anions, E300.0 |
| 1607518-009B | TW4-25_07252016 | 7/25/2016 1326h | Aqueous | Nitrite/Nitrate (as N), E353.2 |
| 1607518-009C | TW4-25_07252016 | 7/25/2016 1326h | Aqueous | VOA by GC/MS Method 8260C/5030C |
| 1607518-010A | TW4-24_07252016 | 7/25/2016 1341h | Aqueous | Anions, E300.0 |
| 1607518-010B | TW4-24_07252016 | 7/25/2016 1341h | 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. **Contact:** Garrin Palmer
**Project:** 3rd Quarter Chloroform 2016
**Lab Set ID:** 1607518
**Date Received:** 7/29/2016 1600h

| Lab Sample ID | Client Sample ID | Date Collected | | Matrix | Analysis |
|---|---|---|---|---|---|
| 1607518-010C | TW4-24_07252016 | 7/25/2016 | 1341h | Aqueous | VOA by GC/MS Method 8260C/5030C |
| 1607518-011A | TW4-21_07252016 | 7/25/2016 | 1320h | Aqueous | Anions, E300.0 |
| 1607518-011B | TW4-21_07252016 | 7/25/2016 | 1320h | Aqueous | Nitrite/Nitrate (as N), E353.2 |
| 1607518-011C | TW4-21_07252016 | 7/25/2016 | 1320h | Aqueous | VOA by GC/MS Method 8260C/5030C |
| 1607518-012A | TW4-01_07252016 | 7/25/2016 | 1437h | Aqueous | Anions, E300.0 |
| 1607518-012B | TW4-01_07252016 | 7/25/2016 | 1437h | Aqueous | Nitrite/Nitrate (as N), E353.2 |
| 1607518-012C | TW4-01_07252016 | 7/25/2016 | 1437h | Aqueous | VOA by GC/MS Method 8260C/5030C |
| 1607518-013A | MW-04_07252016 | 7/25/2016 | 1432h | Aqueous | Anions, E300.0 |
| 1607518-013B | MW-04_07252016 | 7/25/2016 | 1432h | Aqueous | Nitrite/Nitrate (as N), E353.2 |
| 1607518-013C | MW-04_07252016 | 7/25/2016 | 1432h | Aqueous | VOA by GC/MS Method 8260C/5030C |
| 1607518-014A | TW4-04_07252016 | 7/25/2016 | 1445h | Aqueous | Anions, E300.0 |
| 1607518-014B | TW4-04_07252016 | 7/25/2016 | 1445h | Aqueous | Nitrite/Nitrate (as N), E353.2 |
| 1607518-014C | TW4-04_07252016 | 7/25/2016 | 1445h | Aqueous | VOA by GC/MS Method 8260C/5030C |
| 1607518-015A | TW4-02_07252016 | 7/25/2016 | 1425h | Aqueous | Anions, E300.0 |
| 1607518-015B | TW4-02_07252016 | 7/25/2016 | 1425h | Aqueous | Nitrite/Nitrate (as N), E353.2 |
| 1607518-015C | TW4-02_07252016 | 7/25/2016 | 1425h | Aqueous | VOA by GC/MS Method 8260C/5030C |
| 1607518-016A | MW-26_07252016 | 7/25/2016 | 1412h | Aqueous | Anions, E300.0 |
| 1607518-016B | MW-26_07252016 | 7/25/2016 | 1412h | Aqueous | Nitrite/Nitrate (as N), E353.2 |
| 1607518-016C | MW-26_07252016 | 7/25/2016 | 1412h | Aqueous | VOA by GC/MS Method 8260C/5030C |
| 1607518-017A | TW4-11_07252016 | 7/25/2016 | 1419h | Aqueous | Anions, E300.0 |
| 1607518-017B | TW4-11_07252016 | 7/25/2016 | 1419h | Aqueous | Nitrite/Nitrate (as N), E353.2 |
| 1607518-017C | TW4-11_07252016 | 7/25/2016 | 1419h | Aqueous | VOA by GC/MS Method 8260C/5030C |
| 1607518-018A | TW4-22_07252016 | 7/25/2016 | 1350h | Aqueous | Anions, E300.0 |
| 1607518-018B | TW4-22_07252016 | 7/25/2016 | 1350h | Aqueous | Nitrite/Nitrate (as N), E353.2 |
| 1607518-018C | TW4-22_07252016 | 7/25/2016 | 1350h | Aqueous | VOA by GC/MS Method 8260C/5030C |
| 1607518-019A | TW4-19_07252016 | 7/25/2016 | 1500h | Aqueous | Anions, E300.0 |
| 1607518-019B | TW4-19_07252016 | 7/25/2016 | 1500h | Aqueous | Nitrite/Nitrate (as N), E353.2 |
| 1607518-019C | TW4-19_07252016 | 7/25/2016 | 1500h | Aqueous | VOA by GC/MS Method 8260C/5030C |
| 1607518-020A | TW4-37_07252016 | 7/25/2016 | 1356h | Aqueous | Anions, E300.0 |
| 1607518-020B | TW4-37_07252016 | 7/25/2016 | 1356h | 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. **Contact:** Garrin Palmer
**Project:** 3rd Quarter Chloroform 2016
**Lab Set ID:** 1607518
**Date Received:** 7/29/2016 1600h

| Lab Sample ID | Client Sample ID | Date Collected | | Matrix | Analysis |
|---|---|---|---|---|---|
| 1607518-020C | TW4-37_07252016 | 7/25/2016 | 1356h | Aqueous | VOA by GC/MS Method 8260C/5030C |
| 1607518-021A | TW4-20_07252016 | 7/25/2016 | 1404h | Aqueous | Anions, E300.0 |
| 1607518-021B | TW4-20_07252016 | 7/25/2016 | 1404h | Aqueous | Nitrite/Nitrate (as N), E353.2 |
| 1607518-021C | TW4-20_07252016 | 7/25/2016 | 1404h | Aqueous | VOA by GC/MS Method 8260C/5030C |
| 1607518-022A | TW4-60_07252016 | 7/25/2016 | 1300h | Aqueous | Anions, E300.0 |
| 1607518-022B | TW4-60_07252016 | 7/25/2016 | 1300h | Aqueous | Nitrite/Nitrate (as N), E353.2 |
| 1607518-022C | TW4-60_07252016 | 7/25/2016 | 1300h | Aqueous | VOA by GC/MS Method 8260C/5030C |
| 1607518-023A | TW4-65_07272016 | 7/27/2016 | 820h | Aqueous | Anions, E300.0 |
| 1607518-023B | TW4-65_07272016 | 7/27/2016 | 820h | Aqueous | Nitrite/Nitrate (as N), E353.2 |
| 1607518-023C | TW4-65_07272016 | 7/27/2016 | 820h | Aqueous | VOA by GC/MS Method 8260C/5030C |
| 1607518-024A | Trip Blank | 7/25/2016 | | Aqueous | VOA by GC/MS Method 8260C/5030C |



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# Inorganic Case Narrative

**Client:** Energy Fuels Resources, Inc.
**Contact:** Garrin Palmer
**Project:** 3rd Quarter Chloroform 2016
**Lab Set ID:** 1607518

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Laboratory Director

Jose Rocha
QA Officer

**Sample Receipt Information:**

| | |
|---|---|
| **Date of Receipt:** | 7/29/2016 |
| **Date(s) of Collection:** | 7/25-7/25/2016 |
| **Sample Condition:** | Intact |
| **C-O-C Discrepancies:** | None |

**Holding Time and Preservation Requirements:** The analysis and preparation for the samples were performed within the method holding times. The 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 and RPD for Nitrate/Nitrite (as N) on sample 1607518-009B were outside of the control limits due to matrix interference or sample non-homogeneity.

**Corrective Action:** None required.



All analyses applicable to the CWA. SDWA. and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. Confidential Business Information: 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

# Volatile Case Narrative

| | |
|---|---|
| **Client:** | Energy Fuels Resources, Inc. |
| **Contact:** | Garrin Palmer |
| **Project:** | 3rd Quarter Chloroform 2016 |
| **Lab Set ID:** | 1607518 |


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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer


**Sample Receipt Information:**

| | |
|---|---|
| **Date of Receipt:** | 7/29/2016 |
| **Date(s) of Collection:** | 7/25-7/25/2016 |
| **Sample Condition:** | Intact |
| **C-O-C Discrepancies:** | None |
| **Method:** | SW-846 8260C/5030C |
| **Analysis:** | Volatile Organic Compounds |

**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.

**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.




All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. Confidential Business Information: 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

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

# QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.
**Lab Set ID:** 1607518
**Project:** 3rd Quarter Chloroform 2016

**Contact:** Garrin Palmer
**Dept:** WC
**QC Type:** LCS

| Analyte | Result | Units | Method | MDL | Reporting Limit | Amount Spiked | Spike Ref. Amount | %REC | Limits | RPD Ref. Amt | % RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab Sample ID: LCS-R92383** Date Analyzed: 08/01/2016 1303h | | | | | | | | | | | | | |
| Test Code: 300.0-W | | | | | | | | | | | | | |
| Chloride | 5.04 | mg/L | E300.0 | 0.00516 | 0.100 | 5.000 | 0 | 101 | 90 - 110 | | | | |
| **Lab Sample ID: LCS-R92385** Date Analyzed: 08/01/2016 2145h | | | | | | | | | | | | | |
| Test Code: 300.0-W | | | | | | | | | | | | | |
| Chloride | 5.01 | mg/L | E300.0 | 0.00516 | 0.100 | 5.000 | 0 | 100 | 90 - 110 | | | | |
| **Lab Sample ID: LCS NO3-R92372** Date Analyzed: 08/01/2016 1732h | | | | | | | | | | | | | |
| Test Code: NO2/NO3-W-353.2 | | | | | | | | | | | | | |
| Nitrate/Nitrite (as N) | 0.960 | mg/L | E353.2 | 0.00833 | 0.0100 | 1.000 | 0 | 96.0 | 90 - 110 | | | | |
| **Lab Sample ID: LCS NO3-R92373** Date Analyzed: 08/01/2016 1816h | | | | | | | | | | | | | |
| Test Code: NO2/NO3-W-353.2 | | | | | | | | | | | | | |
| Nitrate/Nitrite (as N) | 0.952 | mg/L | E353.2 | 0.00833 | 0.0100 | 1.000 | 0 | 95.2 | 90 - 110 | | | | |



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Jose Rocha
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# QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.
**Lab Set ID:** 1607518
**Project:** 3rd Quarter Chloroform 2016

**Contact:** Garrin Palmer
**Dept:** WC
**QC Type:** MBLK

| Analyte | Result | Units | Method | MDL | Reporting Limit | Amount Spiked | Spike Ref. Amount | %REC | Limits | RPD Ref. Amt | % RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab Sample ID: MB-R92383** Date Analyzed: 08/01/2016 1246h | | | | | | | | | | | | | |
| Test Code: 300.0-W | | | | | | | | | | | | | |
| Chloride | < 0.100 | mg/L | E300.0 | 0.00516 | 0.100 | | | | | | | | |
| **Lab Sample ID: MB-R92385** Date Analyzed: 08/01/2016 2128h | | | | | | | | | | | | | |
| Test Code: 300.0-W | | | | | | | | | | | | | |
| Chloride | < 0.100 | mg/L | E300.0 | 0.00516 | 0.100 | | | | | | | | |
| **Lab Sample ID: MB-R92372** Date Analyzed: 08/01/2016 1729h | | | | | | | | | | | | | |
| Test Code: NO2/NO3-W-353.2 | | | | | | | | | | | | | |
| Nitrate/Nitrite (as N) | < 0.0100 | mg/L | E353.2 | 0.00833 | 0.0100 | | | | | | | | |
| **Lab Sample ID: MB-R92373** Date Analyzed: 08/01/2016 1815h | | | | | | | | | | | | | |
| Test Code: NO2/NO3-W-353.2 | | | | | | | | | | | | | |
| Nitrate/Nitrite (as N) | < 0.0100 | mg/L | E353.2 | 0.00833 | 0.0100 | | | | | | | | |



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Jose Rocha
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# QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.
**Lab Set ID:** 1607518
**Project:** 3rd Quarter Chloroform 2016

**Contact:** Garrin Palmer
**Dept:** WC
**QC Type:** MS

| Analyte | | Result | Units | Method | MDL | Reporting Limit | Amount Spiked | Spike Ref. Amount | %REC | Limits | RPD Ref. Amt | % RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab Sample ID:** | **1607518-010AMS** | Date Analyzed: | 08/01/2016 1337h | | | | | | | | | | | |
| Test Code: | 300.0-W | | | | | | | | | | | | | |
| Chloride | | 2,250 | mg/L | E300.0 | 1.03 | 20.0 | 1,000 | 1180 | 107 | 90 - 110 | | | | |
| **Lab Sample ID:** | **1607518-011AMS** | Date Analyzed: | 08/01/2016 1427h | | | | | | | | | | | |
| Test Code: | 300.0-W | | | | | | | | | | | | | |
| Chloride | | 1,510 | mg/L | E300.0 | 1.03 | 20.0 | 1,000 | 457 | 106 | 90 - 110 | | | | |
| **Lab Sample ID:** | **1607518-018AMS** | Date Analyzed: | 08/01/2016 2219h | | | | | | | | | | | |
| Test Code: | 300.0-W | | | | | | | | | | | | | |
| Chloride | | 1,680 | mg/L | E300.0 | 1.03 | 20.0 | 1,000 | 619 | 106 | 90 - 110 | | | | |
| **Lab Sample ID:** | **1607518-009BMS NO3** | Date Analyzed: | 08/01/2016 1808h | | | | | | | | | | | |
| Test Code: | NO2/NO3-W-353.2 | | | | | | | | | | | | | |
| Nitrate/Nitrite (as N) | | 12.1 | mg/L | E353.2 | 0.0833 | 0.100 | 10.00 | 1.78 | 103 | 90 - 110 | | | | |
| **Lab Sample ID:** | **1607518-015BMS** | Date Analyzed: | 08/01/2016 1827h | | | | | | | | | | | |
| Test Code: | NO2/NO3-W-353.2 | | | | | | | | | | | | | |
| Nitrate/Nitrite (as N) | | 13.8 | mg/L | E353.2 | 0.0833 | 0.100 | 10.00 | 4.07 | 97.4 | 90 - 110 | | | | |



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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

# QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.
**Lab Set ID:** 1607518
**Project:** 3rd Quarter Chloroform 2016

**Contact:** Garrin Palmer
**Dept:** WC
**QC Type:** MSD

| Analyte | Result | Units | Method | MDL | Reporting Limit | Amount Spiked | Spike Ref. Amount | %REC | Limits | RPD Ref. Amt | % RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab Sample ID: 1607518-010AMSD** Date Analyzed: 08/01/2016 1353h | | | | | | | | | | | | | |
| Test Code: 300.0-W | | | | | | | | | | | | | |
| Chloride | 2,250 | mg/L | E300.0 | 1.03 | 20.0 | 1,000 | 1180 | 107 | 90 - 110 | 2250 | 0.173 | 20 | |
| **Lab Sample ID: 1607518-011AMSD** Date Analyzed: 08/01/2016 1444h | | | | | | | | | | | | | |
| Test Code: 300.0-W | | | | | | | | | | | | | |
| Chloride | 1,520 | mg/L | E300.0 | 1.03 | 20.0 | 1,000 | 457 | 106 | 90 - 110 | 1510 | 0.473 | 20 | |
| **Lab Sample ID: 1607518-018AMSD** Date Analyzed: 08/01/2016 2236h | | | | | | | | | | | | | |
| Test Code: 300.0-W | | | | | | | | | | | | | |
| Chloride | 1,690 | mg/L | E300.0 | 1.03 | 20.0 | 1,000 | 619 | 107 | 90 - 110 | 1680 | 0.940 | 20 | |
| **Lab Sample ID: 1607518-009BMSD NO3** Date Analyzed: 08/01/2016 1809h | | | | | | | | | | | | | |
| Test Code: NO2/NO3-W-353.2 | | | | | | | | | | | | | |
| Nitrate/Nitrite (as N) | 13.4 | mg/L | E353.2 | 0.0833 | 0.100 | 10.00 | 1.78 | 117 | 90 - 110 | 12.1 | 10.7 | 10 | [1]@ |
| **Lab Sample ID: 1607518-015BMSD** Date Analyzed: 08/01/2016 1828h | | | | | | | | | | | | | |
| Test Code: NO2/NO3-W-353.2 | | | | | | | | | | | | | |
| Nitrate/Nitrite (as N) | 14.5 | mg/L | E353.2 | 0.0833 | 0.100 | 10.00 | 4.07 | 104 | 90 - 110 | 13.8 | 4.81 | 10 | |

*@ - High RPD due to suspected sample non-homogeneity or matrix interference.*
*[1] - Matrix spike recovery indicates matrix interference. The method is in control as indicated by the LCS.*



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Laboratory Director

Jose Rocha
QA Officer

# QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.
**Lab Set ID:** 1607518
**Project:** 3rd Quarter Chloroform 2016

**Contact:** Garrin Palmer
**Dept:** MSVOA
**QC Type:** LCS

| Analyte | Result | Units | Method | MDL | Reporting Limit | Amount Spiked | Spike Ref. Amount | %REC | Limits | RPD Ref. Amt | % RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab Sample ID: LCS VOC-1 080116A** Date Analyzed: 08/01/2016 1228h | | | | | | | | | | | | | |
| Test Code: 8260-W-DEN100 | | | | | | | | | | | | | |
| Chloroform | 21.5 | µg/L | SW8260C | 0.153 | 1.00 | 20.00 | 0 | 108 | 85 - 124 | | | | |
| Methylene chloride | 20.6 | µg/L | SW8260C | 0.172 | 1.00 | 20.00 | 0 | 103 | 81 - 135 | | | | |
| Surr: 1,2-Dichloroethane-d4 | 52.2 | µg/L | SW8260C | | | 50.00 | | 104 | 80 - 122 | | | | |
| Surr: 4-Bromofluorobenzene | 50.2 | µg/L | SW8260C | | | 50.00 | | 100 | 85 - 121 | | | | |
| Surr: Dibromofluoromethane | 51.4 | µg/L | SW8260C | | | 50.00 | | 103 | 80 - 116 | | | | |
| Surr: Toluene-d8 | 50.9 | µg/L | SW8260C | | | 50.00 | | 102 | 81 - 123 | | | | |
| **Lab Sample ID: LCS VOC-1 080316A** Date Analyzed: 08/03/2016 1209h | | | | | | | | | | | | | |
| Test Code: 8260-W-DEN100 | | | | | | | | | | | | | |
| Chloroform | 23.9 | µg/L | SW8260C | 0.153 | 1.00 | 20.00 | 0 | 119 | 85 - 124 | | | | |
| Methylene chloride | 25.3 | µg/L | SW8260C | 0.172 | 1.00 | 20.00 | 0 | 127 | 71 - 135 | | | | |
| Surr: 1,2-Dichloroethane-d4 | 53.9 | µg/L | SW8260C | | | 50.00 | | 108 | 80 - 122 | | | | |
| Surr: 4-Bromofluorobenzene | 44.4 | µg/L | SW8260C | | | 50.00 | | 88.8 | 85 - 121 | | | | |
| Surr: Dibromofluoromethane | 53.5 | µg/L | SW8260C | | | 50.00 | | 107 | 80 - 116 | | | | |
| Surr: Toluene-d8 | 49.0 | µg/L | SW8260C | | | 50.00 | | 98.0 | 81 - 123 | | | | |



analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. Confidential Business Information: This report is provided for the exclusive use of the addressee. Privileges of subsequent use of th
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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

# QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.
**Lab Set ID:** 1607518
**Project:** 3rd Quarter Chloroform 2016

**Contact:** Garrin Palmer
**Dept:** MSVOA
**QC Type:** MBLK

| Analyte | Result | Units | Method | MDL | Reporting Limit | Amount Spiked | Spike Ref. Amount | %REC | Limits | RPD Ref. Amt | % RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab Sample ID: MB VOC-1 080116A** Date Analyzed: 08/01/2016 1307h | | | | | | | | | | | | | |
| Test Code: 8260-W-DEN100 | | | | | | | | | | | | | |
| Carbon tetrachloride | < 1.00 | µg/L | SW8260C | 0.504 | 1.00 | | | | | | | | |
| Chloroform | < 1.00 | µg/L | SW8260C | 0.153 | 1.00 | | | | | | | | |
| Chloromethane | < 1.00 | µg/L | SW8260C | 0.163 | 1.00 | | | | | | | | |
| Methylene chloride | < 1.00 | µg/L | SW8260C | 0.172 | 1.00 | | | | | | | | |
| Surr: 1,2-Dichloroethane-d4 | 52.8 | µg/L | SW8260C | | | 50.00 | | 106 | 80 - 122 | | | | |
| Surr: 4-Bromofluorobenzene | 51.3 | µg/L | SW8260C | | | 50.00 | | 103 | 85 - 121 | | | | |
| Surr: Dibromofluoromethane | 51.4 | µg/L | SW8260C | | | 50.00 | | 103 | 80 - 116 | | | | |
| Surr: Toluene-d8 | 50.5 | µg/L | SW8260C | | | 50.00 | | 101 | 81 - 123 | | | | |
| **Lab Sample ID: MB VOC-1 080316A** Date Analyzed: 08/03/2016 1249h | | | | | | | | | | | | | |
| Test Code: 8260-W-DEN100 | | | | | | | | | | | | | |
| Carbon tetrachloride | < 1.00 | µg/L | SW8260C | 0.504 | 1.00 | | | | | | | | |
| Chloroform | < 1.00 | µg/L | SW8260C | 0.153 | 1.00 | | | | | | | | |
| Chloromethane | < 1.00 | µg/L | SW8260C | 0.163 | 1.00 | | | | | | | | |
| Methylene chloride | < 1.00 | µg/L | SW8260C | 0.172 | 1.00 | | | | | | | | |
| Surr: 1,2-Dichloroethane-d4 | 56.6 | µg/L | SW8260C | | | 50.00 | | 113 | 80 - 122 | | | | |
| Surr: 4-Bromofluorobenzene | 48.2 | µg/L | SW8260C | | | 50.00 | | 96.4 | 85 - 121 | | | | |
| Surr: Dibromofluoromethane | 54.6 | µg/L | SW8260C | | | 50.00 | | 109 | 80 - 116 | | | | |
| Surr: Toluene-d8 | 50.5 | µg/L | SW8260C | | | 50.00 | | 101 | 81 - 123 | | | | |



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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

# QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.
**Lab Set ID:** 1607518
**Project:** 3rd Quarter Chloroform 2016

**Contact:** Garrin Palmer
**Dept:** MSVOA
**QC Type:** MS

| Analyte | Result | Units | Method | MDL | Reporting Limit | Amount Spiked | Spike Ref. Amount | %REC | Limits | RPD Ref. Amt | % RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab Sample ID: 1607518-001CMS** Date Analyzed: 08/01/2016 1429h | | | | | | | | | | | | | |
| Test Code: 8260-W-DEN100 | | | | | | | | | | | | | |
| Chloroform | 21.6 | µg/L | SW8260C | 0.153 | 1.00 | 20.00 | 0 | 108 | 50 - 146 | | | | |
| Methylene chloride | 20.8 | µg/L | SW8260C | 0.172 | 1.00 | 20.00 | 0 | 104 | 30 - 192 | | | | |
| Surr: 1,2-Dichloroethane-d4 | 53.3 | µg/L | SW8260C | | | 50.00 | | 107 | 72 - 151 | | | | |
| Surr: 4-Bromofluorobenzene | 49.9 | µg/L | SW8260C | | | 50.00 | | 99.9 | 80 - 152 | | | | |
| Surr: Dibromofluoromethane | 52.4 | µg/L | SW8260C | | | 50.00 | | 105 | 80 - 124 | | | | |
| Surr: Toluene-d8 | 49.5 | µg/L | SW8260C | | | 50.00 | | 99.1 | 77 - 129 | | | | |
| **Lab Sample ID: 1608032-001AMS** Date Analyzed: 08/03/2016 1635h | | | | | | | | | | | | | |
| Test Code: 8260-W-DEN100 | | | | | | | | | | | | | |
| Chloroform | 452 | µg/L | SW8260C | 3.06 | 20.0 | 400.0 | 0 | 113 | 50 - 146 | | | | |
| Methylene chloride | 476 | µg/L | SW8260C | 3.44 | 20.0 | 400.0 | 0 | 119 | 30 - 192 | | | | |
| Surr: 1,2-Dichloroethane-d4 | 1,020 | µg/L | SW8260C | | | 1,000 | | 102 | 72 - 151 | | | | |
| Surr: 4-Bromofluorobenzene | 992 | µg/L | SW8260C | | | 1,000 | | 99.2 | 80 - 152 | | | | |
| Surr: Dibromofluoromethane | 1,020 | µg/L | SW8260C | | | 1,000 | | 102 | 80 - 124 | | | | |
| Surr: Toluene-d8 | 1,030 | µg/L | SW8260C | | | 1,000 | | 103 | 77 - 129 | | | | |



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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

# QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.
**Lab Set ID:** 1607518
**Project:** 3rd Quarter Chloroform 2016

**Contact:** Garrin Palmer
**Dept:** MSVOA
**QC Type:** MSD

| Analyte | Result | Units | Method | MDL | Reporting Limit | Amount Spiked | Spike Ref. Amount | %REC | Limits | RPD Ref. Amt | % RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab Sample ID: 1607518-001CMSD** Date Analyzed: 08/01/2016 1449h | | | | | | | | | | | | | |
| Test Code: 8260-W-DEN100 | | | | | | | | | | | | | |
| Chloroform | 21.2 | µg/L | SW8260C | 0.153 | 1.00 | 20.00 | 0 | 106 | 50 - 146 | 21.6 | 2.06 | 25 | |
| Methylene chloride | 22.0 | µg/L | SW8260C | 0.172 | 1.00 | 20.00 | 0 | 110 | 30 - 192 | 20.8 | 5.94 | 25 | |
| Surr: 1,2-Dichloroethane-d4 | 53.4 | µg/L | SW8260C | | | 50.00 | | 107 | 72 - 151 | | | | |
| Surr: 4-Bromofluorobenzene | 47.6 | µg/L | SW8260C | | | 50.00 | | 95.2 | 80 - 152 | | | | |
| Surr: Dibromofluoromethane | 52.6 | µg/L | SW8260C | | | 50.00 | | 105 | 80 - 124 | | | | |
| Surr: Toluene-d8 | 49.1 | µg/L | SW8260C | | | 50.00 | | 98.2 | 77 - 129 | | | | |
| **Lab Sample ID: 1608032-001AMSD** Date Analyzed: 08/03/2016 1655h | | | | | | | | | | | | | |
| Test Code: 8260-W-DEN100 | | | | | | | | | | | | | |
| Chloroform | 431 | µg/L | SW8260C | 3.06 | 20.0 | 400.0 | 0 | 108 | 50 - 146 | 452 | 4.80 | 25 | |
| Methylene chloride | 422 | µg/L | SW8260C | 3.44 | 20.0 | 400.0 | 0 | 106 | 30 - 192 | 476 | 12.0 | 25 | |
| Surr: 1,2-Dichloroethane-d4 | 1,020 | µg/L | SW8260C | | | 1,000 | | 102 | 72 - 151 | | | | |
| Surr: 4-Bromofluorobenzene | 937 | µg/L | SW8260C | | | 1,000 | | 93.7 | 80 - 152 | | | | |
| Surr: Dibromofluoromethane | 1,000 | µg/L | SW8260C | | | 1,000 | | 100 | 80 - 124 | | | | |
| Surr: Toluene-d8 | 992 | µg/L | SW8260C | | | 1,000 | | 99.2 | 77 - 129 | | | | |



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UL
Denison

## WORK ORDER Summary

Work Order: **1607518** 

**Client:** Energy Fuels Resources, Inc. Due Date: 8/9/2016

**Client ID:** DEN100 **Contact:** Garrin Palmer

**Project:** **3rd Quarter Chloroform 2016** **QC Level:** III WO Type: Project

**Comments:** PA Rush. QC 3 (Summary/No chromatograms). RL of 1 ppm for Chloride and VOC and 0.1 ppm for NO2/NO3 - Run NO2/NO3 at a 10X dilution. Expected levels provided by client - see Jenn. J-flag what we can't meet. EIM Locus and EDD-Denison. Email Group.; IP

| Sample ID | Client Sample ID | Collected Date | Received Date | Test Code | Matrix | Sel | Storage | |
|---|---|---|---|---|---|---|---|---|
| 1607518-001A | **TW4-03R_07262016** | 7/26/2016 1238h | 7/29/2016 1600h | **300.0-W** | Aqueous | | df - wc | 1 |
| | | | | *1 SEL Analytes: CL* | | | | |
| 1607518-001B | | | | **NO2/NO3-W-353.2** | | | df - no2/no3 | |
| | | | | *1 SEL Analytes: NO3NO2N* | | | | |
| 1607518-001C | | | | **8260-W-DEN100** | | | VOCFridge | 3 |
| | | | | *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4* | | | | |
| 1607518-002A | **TW4-03_07272016** | 7/27/2016 0754h | 7/29/2016 1600h | **300.0-W** | Aqueous | | df - wc | 1 |
| | | | | *1 SEL Analytes: CL* | | | | |
| 1607518-002B | | | | **NO2/NO3-W-353.2** | | | df - no2/no3 | |
| | | | | *1 SEL Analytes: NO3NO2N* | | | | |
| 1607518-002C | | | | **8260-W-DEN100** | | | VOCFridge | 3 |
| | | | | *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4* | | | | |
| 1607518-003A | **TW4-12_07272016** | 7/27/2016 0813h | 7/29/2016 1600h | **300.0-W** | Aqueous | | df - wc | 1 |
| | | | | *1 SEL Analytes: CL* | | | | |
| 1607518-003B | | | | **NO2/NO3-W-353.2** | | | df - no2/no3 | |
| | | | | *1 SEL Analytes: NO3NO2N* | | | | |
| 1607518-003C | | | | **8260-W-DEN100** | | | VOCFridge | 3 |
| | | | | *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4* | | | | |
| 1607518-004A | **TW4-28_07272016** | 7/27/2016 0820h | 7/29/2016 1600h | **300.0-W** | Aqueous | | df - wc | 1 |
| | | | | *1 SEL Analytes: CL* | | | | |
| 1607518-004B | | | | **NO2/NO3-W-353.2** | | | df - no2/no3 | |
| | | | | *1 SEL Analytes: NO3NO2N* | | | | |
| 1607518-004C | | | | **8260-W-DEN100** | | | VOCFridge | 3 |
| | | | | *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4* | | | | |
| 1607518-005A | **TW4-32_07282016** | 7/28/2016 0800h | 7/29/2016 1600h | **300.0-W** | Aqueous | | df - wc | 1 |
| | | | | *1 SEL Analytes: CL* | | | | |
| 1607518-005B | | | | **NO2/NO3-W-353.2** | | | df - no2/no3 | |
| | | | | *1 SEL Analytes: NO3NO2N* | | | | |
| 1607518-005C | | | | **8260-W-DEN100** | | | VOCFridge | 3 |
| | | | | *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4* | | | | |

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# WORK ORDER Summary

Work Order: **1607518** 

**Client:** Energy Fuels Resources, Inc. Due Date: 8/9/2016

| Sample ID | Client Sample ID | Collected Date | Received Date | Test Code | Matrix | Sel | Storage | |
|---|---|---|---|---|---|---|---|---|
| 1607518-006A | **TW4-13_07282016** | 7/28/2016 0807h | 7/29/2016 1600h | **300.0-W** | Aqueous | | df - wc | 1 |
| | | | | *1 SEL Analytes: CL* | | | | |
| 1607518-006B | | | | **NO2/NO3-W-353.2** | | | df - no2/no3 | |
| | | | | *1 SEL Analytes: NO3NO2N* | | | | |
| 1607518-006C | | | | **8260-W-DEN100** | | | VOCFridge | 3 |
| | | | | *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4* | | | | |
| 1607518-007A | **TW4-36_07282016** | 7/28/2016 0812h | 7/29/2016 1600h | **300.0-W** | Aqueous | | df - wc | 1 |
| | | | | *1 SEL Analytes: CL* | | | | |
| 1607518-007B | | | | **NO2/NO3-W-353.2** | | | df - no2/no3 | |
| | | | | *1 SEL Analytes: NO3NO2N* | | | | |
| 1607518-007C | | | | **8260-W-DEN100** | | | VOCFridge | 3 |
| | | | | *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4* | | | | |
| 1607518-008A | **TW4-31_07282016** | 7/28/2016 0819h | 7/29/2016 1600h | **300.0-W** | Aqueous | | df - wc | 1 |
| | | | | *1 SEL Analytes: CL* | | | | |
| 1607518-008B | | | | **NO2/NO3-W-353.2** | | | df - no2/no3 | |
| | | | | *1 SEL Analytes: NO3NO2N* | | | | |
| 1607518-008C | | | | **8260-W-DEN100** | | | VOCFridge | 3 |
| | | | | *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4* | | | | |
| 1607518-009A | **TW4-25_07252016** | 7/25/2016 1326h | 7/29/2016 1600h | **300.0-W** | Aqueous | | df - wc | 1 |
| | | | | *1 SEL Analytes: CL* | | | | |
| 1607518-009B | | | | **NO2/NO3-W-353.2** | | | df - no2/no3 | |
| | | | | *1 SEL Analytes: NO3NO2N* | | | | |
| 1607518-009C | | | | **8260-W-DEN100** | | | VOCFridge | 3 |
| | | | | *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4* | | | | |
| 1607518-010A | **TW4-24_07252016** | 7/25/2016 1341h | 7/29/2016 1600h | **300.0-W** | Aqueous | | df - wc | 1 |
| | | | | *1 SEL Analytes: CL* | | | | |
| 1607518-010B | | | | **NO2/NO3-W-353.2** | | | df - no2/no3 | |
| | | | | *1 SEL Analytes: NO3NO2N* | | | | |
| 1607518-010C | | | | **8260-W-DEN100** | | | VOCFridge | 3 |
| | | | | *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4* | | | | |
| 1607518-011A | **TW4-21_07252016** | 7/25/2016 1320h | 7/29/2016 1600h | **300.0-W** | Aqueous | | df - wc | 1 |
| | | | | *1 SEL Analytes: CL* | | | | |
| 1607518-011B | | | | **NO2/NO3-W-353.2** | | | df - no2/no3 | |
| | | | | *1 SEL Analytes: NO3NO2N* | | | | |
| 1607518-011C | | | | **8260-W-DEN100** | | | VOCFridge | 3 |
| | | | | *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4* | | | | |
| 1607518-012A | **TW4-01_07252016** | 7/25/2016 1437h | 7/29/2016 1600h | **300.0-W** | Aqueous | | df - wc | 1 |
| | | | | *1 SEL Analytes: CL* | | | | |

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# WORK ORDER Summary

Work Order: **1607518** 

**Client:** Energy Fuels Resources, Inc. Due Date: 8/9/2016

| Sample ID | Client Sample ID | Collected Date | Received Date | Test Code | Matrix | Sel | Storage | |
|---|---|---|---|---|---|---|---|---|
| 1607518-012B | **TW4-01_07252016** | 7/25/2016 1437h | 7/29/2016 1600h | **NO2/NO3-W-353.2**<br>*1 SEL Analytes: NO3NO2N* | Aqueous | | df - no2/no3 | 1 |
| 1607518-012C | | | | **8260-W-DEN100**<br>*Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4* | | | VOCFridge | 3 |
| 1607518-013A | **MW-04_07252016** | 7/25/2016 1432h | 7/29/2016 1600h | **300.0-W**<br>*1 SEL Analytes: CL* | Aqueous | | df - wc | 1 |
| 1607518-013B | | | | **NO2/NO3-W-353.2**<br>*1 SEL Analytes: NO3NO2N* | | | df - no2/no3 | |
| 1607518-013C | | | | **8260-W-DEN100**<br>*Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4* | | | VOCFridge | 3 |
| 1607518-014A | **TW4-04_07252016** | 7/25/2016 1445h | 7/29/2016 1600h | **300.0-W**<br>*1 SEL Analytes: CL* | Aqueous | | df - wc | 1 |
| 1607518-014B | | | | **NO2/NO3-W-353.2**<br>*1 SEL Analytes: NO3NO2N* | | | df - no2/no3 | |
| 1607518-014C | | | | **8260-W-DEN100**<br>*Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4* | | | VOCFridge | 3 |
| 1607518-015A | **TW4-02_07252016** | 7/25/2016 1425h | 7/29/2016 1600h | **300.0-W**<br>*1 SEL Analytes: CL* | Aqueous | | df - wc | 1 |
| 1607518-015B | | | | **NO2/NO3-W-353.2**<br>*1 SEL Analytes: NO3NO2N* | | | df - no2/no3 | |
| 1607518-015C | | | | **8260-W-DEN100**<br>*Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4* | | | VOCFridge | 3 |
| 1607518-016A | **MW-26_07252016** | 7/25/2016 1412h | 7/29/2016 1600h | **300.0-W**<br>*1 SEL Analytes: CL* | Aqueous | | df - wc | 1 |
| 1607518-016B | | | | **NO2/NO3-W-353.2**<br>*1 SEL Analytes: NO3NO2N* | | | df - no2/no3 | |
| 1607518-016C | | | | **8260-W-DEN100**<br>*Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4* | | | VOCFridge | 3 |
| 1607518-017A | **TW4-11_07252016** | 7/25/2016 1419h | 7/29/2016 1600h | **300.0-W**<br>*1 SEL Analytes: CL* | Aqueous | | df - wc | 1 |
| 1607518-017B | | | | **NO2/NO3-W-353.2**<br>*1 SEL Analytes: NO3NO2N* | | | df - no2/no3 | |
| 1607518-017C | | | | **8260-W-DEN100**<br>*Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4* | | | VOCFridge | 3 |
| 1607518-018A | **TW4-22_07252016** | 7/25/2016 1350h | 7/29/2016 1600h | **300.0-W**<br>*1 SEL Analytes: CL* | Aqueous | | df - wc | 1 |
| 1607518-018B | | | | **NO2/NO3-W-353.2**<br>*1 SEL Analytes: NO3NO2N* | | | df - no2/no3 | |

Printed: 7/29/2016 FOR LABORATORY USE ONLY [fill out on page 1]: %M ☐ RT ☐ CN ☐ TAT ☐ QC ☐ HOK_____ HOK_____ HOK_____ COC Emailed_____

# WORK ORDER Summary

Work Order: **1607518** 

**Client:** Energy Fuels Resources, Inc. Due Date: 8/9/2016

| Sample ID | Client Sample ID | Collected Date | Received Date | Test Code | Matrix | Sel | Storage | |
|---|---|---|---|---|---|---|---|---|
| 1607518-018C | **TW4-22_07252016** | 7/25/2016 1350h | 7/29/2016 1600h | **8260-W-DEN100** | Aqueous | | VOCFridge | 3 |
| | | | | *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4* | | | | |
| 1607518-019A | **TW4-19_07252016** | 7/25/2016 1500h | 7/29/2016 1600h | **300.0-W** | Aqueous | | df - wc | 1 |
| | | | | *1 SEL Analytes: CL* | | | | |
| 1607518-019B | | | | **NO2/NO3-W-353.2** | | | df - no2/no3 | |
| | | | | *1 SEL Analytes: NO3NO2N* | | | | |
| 1607518-019C | | | | **8260-W-DEN100** | | | VOCFridge | 3 |
| | | | | *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4* | | | | |
| 1607518-020A | **TW4-37_07252016** | 7/25/2016 1356h | 7/29/2016 1600h | **300.0-W** | Aqueous | | df - wc | 1 |
| | | | | *1 SEL Analytes: CL* | | | | |
| 1607518-020B | | | | **NO2/NO3-W-353.2** | | | df - no2/no3 | |
| | | | | *1 SEL Analytes: NO3NO2N* | | | | |
| 1607518-020C | | | | **8260-W-DEN100** | | | VOCFridge | 3 |
| | | | | *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4* | | | | |
| 1607518-021A | **TW4-20_07252016** | 7/25/2016 1404h | 7/29/2016 1600h | **300.0-W** | Aqueous | | df - wc | 1 |
| | | | | *1 SEL Analytes: CL* | | | | |
| 1607518-021B | | | | **NO2/NO3-W-353.2** | | | df - no2/no3 | |
| | | | | *1 SEL Analytes: NO3NO2N* | | | | |
| 1607518-021C | | | | **8260-W-DEN100** | | | VOCFridge | 3 |
| | | | | *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4* | | | | |
| 1607518-022A | **TW4-60_07252016** | 7/25/2016 1300h | 7/29/2016 1600h | **300.0-W** | Aqueous | | df - wc | 1 |
| | | | | *1 SEL Analytes: CL* | | | | |
| 1607518-022B | | | | **NO2/NO3-W-353.2** | | | df - no2/no3 | |
| | | | | *1 SEL Analytes: NO3NO2N* | | | | |
| 1607518-022C | | | | **8260-W-DEN100** | | | VOCFridge | 3 |
| | | | | *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4* | | | | |
| 1607518-023A | **TW4-65_07272016** | 7/27/2016 0820h | 7/29/2016 1600h | **300.0-W** | Aqueous | | df - wc | 1 |
| | | | | *1 SEL Analytes: CL* | | | | |
| 1607518-023B | | | | **NO2/NO3-W-353.2** | | | df - no2/no3 | |
| | | | | *1 SEL Analytes: NO3NO2N* | | | | |
| 1607518-023C | | | | **8260-W-DEN100** | | | VOCFridge | 3 |
| | | | | *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4* | | | | |
| 1607518-024A | **Trip Blank** | 7/25/2016 | 7/29/2016 1600h | **8260-W-DEN100** | Aqueous | | VOCFridge | 3 |
| | | | | *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4* | | | | |

# American West Analytical Laboratories

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www.awal-labs.com

# CHAIN OF CUSTODY

1607518
1607577 VP 7/29/16

All analysis will be conducted using NELAP accredited methods and all data will be reported using AWAL's standard analyte lists and reporting limits (PQL) unless specifically requested otherwise on this Chain of Custody and/or attached documentation.

AWAL Lab Sample Set #



| QC Level: | Turn Around Time: | Unless other arrangements have been made, signed reports will be emailed by 5:00 pm on the day they are due. | Due Date: |
|---|---|---|---|
| 3 | Standard | | 8/7/16. |

Client: **Energy Fuels Resources, Inc.**
Address: **6425 S. Hwy. 191**
**Blanding, UT 84511**
Contact: **Garrin Palmer**
Phone #: **(435) 678-2221** Cell #:
Email: **gpalmer@energyfuels.com; KWeinel@energyfuels.com; dturk@energyfuels.com**
Project Name: **3RD QUARTER CHLOROFORM 2016**
Project #:
PO #:
Sampler Name: **TANNER HOLLIDAY**

X Include EDD:
**LOCUS UPLOAD**
**EXCEL**
Field Filtered For:

**For Compliance With:**
- ☐ NELAP
- ☐ RCRA
- ☐ CWA
- ☐ SDWA
- ☐ ELAP / A2LA
- ☐ NLLAP
- ☐ Non-Compliance
- ☐ Other:

| | Sample ID: | Date Sampled | Time Sampled | # of Containers | Sample Matrix | NO2/NO3 (353.2) | Cl (4500 or 300.0) | VOCs (8260C) | Known Hazards & Sample Comments |
|---|---|---|---|---|---|---|---|---|---|
| 1 | TW4-04_07252016 | 7/25/2016 | 1445 | 5 | W | X | X | X | |
| 2 | TW4-02_07252016 | 7/25/2016 | 1425 | 5 | W | X | X | X | |
| 3 | MW-26_07252016 | 7/25/2016 | 1412 | 5 | W | X | X | X | |
| 4 | TW4-11_07252016 | 7/25/2016 | 1419 | 5 | W | X | X | X | |
| 5 | TW4-22_07252016 | 7/25/2016 | 1350 | 5 | W | X | X | X | |
| 6 | TW4-19_07252016 | 7/25/2016 | 1500 | 5 | W | X | X | X | |
| 7 | TW4-37_07252016 | 7/25/2016 | 1356 | 5 | W | X | X | X | |
| 8 | TW4-20_07252016 | 7/25/2016 | 1404 | 5 | W | X | X | X | |
| 9 | TW4-60_07252016 | 7/25/2016 | 1300 | 5 | W | X | X | X | |
| 10 | TW4-65_07272016 | 7/27/2016 | 820 | 5 | W | X | X | X | |
| 11 | TRIP BLANK | 7/25/2016 | | 3 | W | | | X | |
| 12 | TEMP BLANK | 7/29/2016 | | 1 | W | | | | |

**Laboratory Use Only**

Samples Were:
1 Shipped or hand delivered
2 Ambient or Chilled
3 Temperature 4.3 °C
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

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)

| Relinquished by: Signature | Date: | Time: | Received by: Signature | Date: | Time: |
|---|---|---|---|---|---|
| Garrin Palmer | 7/29/2016 | 1600 | Lorie Hogan | 7/29/16. | 16:00 |
| Print Name: GARRIN PALMER | | | Print Name: | | |
| Relinquished by: Signature | Date: | Time: | Received by: Signature | Date: | Time: |
| Print Name: | | | Print Name: | | |
| Relinquished by: Signature | Date: | Time: | Received by: Signature | Date: | Time: |
| Print Name: | | | Print Name: | | |
| Relinquished by: Signature | Date: | Time: | Received by: Signature | Date: | Time: |
| Print Name: | | | Print Name: | | |

Special Instructions:

See the Analytical Scope of Work for Reporting Limits and VOC analyte list.

# American West Analytical Laboratories

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www.awal-labs.com

# CHAIN OF CUSTODY

1607518
1607517 lot 7/29/16.

All analysis will be conducted using NELAP accredited methods and all data will be reported using AWAL's standard analyte lists and reporting limits (PQL) unless specifically requested otherwise on this Chain of Custody and/or attached documentation.

AWAL Lab Sample Set #

Page 1 of 2

| QC Level: | Turn Around Time: | Unless other arrangements have been made, signed reports will be emailed by 5:00 pm on the day they are due. | Due Date: |
|---|---|---|---|
| 3 | Standard | | 8/9/16 |

Client: **Energy Fuels Resources, Inc.**
Address: **6425 S. Hwy. 191**
**Blanding, UT 84511**
Contact: **Garrin Palmer**
Phone #: **(435) 678-2221** Cell #:
Email: **gpalmer@energyfuels.com; KWeinel@energyfuels.com; dturk@energyfuels.com**
Project Name: **3RD QUARTER CHLOROFORM 2016**
Project #:
PO #:
Sampler Name: **TANNER HOLLIDAY**

X Include EDD:
**LOCUS UPLOAD**
**EXCEL**
Field Filtered For:

**For Compliance With:**
- ☐ NELAP
- ☐ RCRA
- ☐ CWA
- ☐ SDWA
- ☐ ELAP / A2LA
- ☐ NLLAP
- ☐ Non-Compliance
- ☐ Other:

Known Hazards & Sample Comments

Laboratory Use Only

Samples Were:
1 Shipped or hand delivered
2 Ambient or Chilled
3 Temperature 4.3 °C
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

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

| | Sample ID: | Date Sampled | Time Sampled | # of Containers | Sample Matrix | NO2/NO3 (353.2) | Cl (4500 or 300.0) | VOCs (8260C) |
|---|---|---|---|---|---|---|---|---|
| 1 | TW4-03R_07262016 | 7/26/2016 | 1238 | 5 | W | X | X | X |
| 2 | TW4-03_07272016 | 7/27/2016 | 754 | 5 | W | X | X | X |
| 3 | TW4-12_07272016 | 7/27/2016 | 813 | 5 | W | X | X | X |
| 4 | TW4-28_07272016 | 7/27/2016 | 820 | 5 | W | X | X | X |
| 5 | TW4-32_07282016 | 7/28/2016 | 800 | 5 | W | X | X | X |
| 6 | TW4-13_07282016 | 7/28/2016 | 807 | 5 | W | X | X | X |
| 7 | TW4-36_07282016 | 7/28/2016 | 812 | 5 | W | X | X | X |
| 8 | TW4-31_07282016 | 7/28/2016 | 819 | 5 | W | X | X | X |
| 9 | TW4-25_07252016 | 7/25/2016 | 1326 | 5 | W | X | X | X |
| 10 | TW4-24_07252016 | 7/25/2016 | 1341 | 5 | W | X | X | X |
| 11 | TW4-21_07252016 | 7/25/2016 | 1320 | 5 | W | X | X | X |
| 12 | TW4-01_07252016 | 7/25/2016 | 1437 | 5 | W | X | X | X |
| 13 | MW-04_07252016 | 7/25/2016 | 1432 | 5 | W | X | X | X |

| Relinquished by: Signature | Date: | Received by: Signature | Date: |
|---|---|---|---|
| Garrin Palmer | 7/29/2016 | | 7/29/16. |
| Print Name: GARRIN PALMER | Time: 1600 | Print Name: Lorie Anderson | Time: 1600 |
| 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:

See the Analytical Scope of Work for Reporting Limits and VOC analyte list.

Lab Set ID: 1607578
pH lot #5003

## Preservation Check Sheet

### Sample Set Extension and pH

| Analysis | Preservative | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ammonia | pH <2 $H_2SO_4$ | | | | | | | | | | | | | | | | | | |
| COD | pH <2 $H_2SO_4$ | | | | | | | | | | | | | | | | | | |
| Cyanide | pH >12 NaOH | | | | | | | | | | | | | | | | | | |
| Metals | pH <2 $HNO_3$ | | | | | | | | | | | | | | | | | | |
| $NO_2$ & $NO_3$ | pH <2 $H_2SO_4$ | yes | yes | yes | yes | yes | yes | yes | yes | yes | yes | yes | yes | yes | yes | yes | yes | yes | yes |
| O & G | pH <2 HCL | | | | | | | | | | | | | | | | | | |
| Phenols | pH <2 $H_2SO_4$ | | | | | | | | | | | | | | | | | | |
| Sulfide | pH > 9NaOH, Zn Acetate | | | | | | | | | | | | | | | | | | |
| TKN | pH <2 $H_2SO_4$ | | | | | | | | | | | | | | | | | | |
| T $PO_4$ | pH <2 $H_2SO_4$ | | | | | | | | | | | | | | | | | | |
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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

* The sample required additional preservative upon receipt.

\+ The sample was received unpreserved.

▲ The sample was received unpreserved and therefore preserved upon receipt.

\# The sample pH was unadjustable to a pH < 2 due to the sample matrix.

• The sample pH was unadjustable to a pH > ____ due to the sample matrix interference.

Lab Set ID: 1607518

pH lot #5013

## Preservation Check Sheet

### Sample Set Extension and pH

| Analysis | Preservative | 19 | 20 | 21 | 22 | 23 | ~~24~~ 7/29/16 | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ammonia | pH <2 $H_2SO_4$ | | | | | | | | | | | | | | | | | |
| COD | pH <2 $H_2SO_4$ | | | | | | | | | | | | | | | | | |
| Cyanide | pH >12 NaOH | | | | | | | | | | | | | | | | | |
| Metals | pH <2 $HNO_3$ | | | | | | | | | | | | | | | | | |
| $NO_2$ & $NO_3$ | pH <2 $H_2SO_4$ | yes | yes | yes | yes | yes | | | | | | | | | | | | |
| O & G | pH <2 HCL | | | | | | | | | | | | | | | | | |
| Phenols | pH <2 $H_2SO_4$ | | | | | | | | | | | | | | | | | |
| Sulfide | pH > 9NaOH, Zn Acetate | | | | | | | | | | | | | | | | | |
| TKN | pH <2 $H_2SO_4$ | | | | | | | | | | | | | | | | | |
| T $PO_4$ | pH <2 $H_2SO_4$ | | | | | | | | | | | | | | | | | |
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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

* The sample required additional preservative upon receipt.

\+ The sample was received unpreserved.

▲ The sample was received unpreserved and therefore preserved upon receipt.

\# The sample pH was unadjustable to a pH < 2 due to the sample matrix.

• The sample pH was unadjustable to a pH > ____ due to the sample matrix interference.

American West
ANALYTICAL LABORATORIES

Garrin Palmer
Energy Fuels Resources, Inc.
6425 S. Hwy 191
Blanding, UT 84511
TEL: (303) 389-4134

RE: 3rd Quarter Chloroform 2016

Dear Garrin Palmer: Lab Set ID: 1608133

3440 South 700 West
Salt Lake City, UT 84119

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

American West Analytical Laboratories received sample(s) on 8/5/2016 for the analyses presented in the following report.

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, Wyoming, 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.

Thank You,

Approved by: Kyle F. Gross Digitally signed by Kyle F. Gross Date: 2016.08.18 08:18:25 -06'00'

Laboratory Director or designee



All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. Confidential Business Information: 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

# SAMPLE SUMMARY

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
**Project:** 3rd Quarter Chloroform 2016
**Lab Set ID:** 1608133
**Date Received:** 8/5/2016 1040h


3440 South 700 West
Salt Lake City, UT 84119

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web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer


| Lab Sample ID | Client Sample ID | Date Collected | | Matrix | Analysis |
|---|---|---|---|---|---|
| 1608133-001A | TW4-34R_08022016 | 8/2/2016 | 725h | Aqueous | Anions, E300.0 |
| 1608133-001B | TW4-34R_08022016 | 8/2/2016 | 725h | Aqueous | Nitrite/Nitrate (as N), E353.2 |
| 1608133-001C | TW4-34R_08022016 | 8/2/2016 | 725h | Aqueous | VOA by GC/MS Method 8260C/5030C |
| 1608133-002A | TW4-34_08032016 | 8/3/2016 | 807h | Aqueous | Anions, E300.0 |
| 1608133-002B | TW4-34_08032016 | 8/3/2016 | 807h | Aqueous | Nitrite/Nitrate (as N), E353.2 |
| 1608133-002C | TW4-34_08032016 | 8/3/2016 | 807h | Aqueous | VOA by GC/MS Method 8260C/5030C |
| 1608133-003A | TW4-35_08032016 | 8/3/2016 | 814h | Aqueous | Anions, E300.0 |
| 1608133-003B | TW4-35_08032016 | 8/3/2016 | 814h | Aqueous | Nitrite/Nitrate (as N), E353.2 |
| 1608133-003C | TW4-35_08032016 | 8/3/2016 | 814h | Aqueous | VOA by GC/MS Method 8260C/5030C |
| 1608133-004A | TW4-23_08032016 | 8/3/2016 | 823h | Aqueous | Anions, E300.0 |
| 1608133-004B | TW4-23_08032016 | 8/3/2016 | 823h | Aqueous | Nitrite/Nitrate (as N), E353.2 |
| 1608133-004C | TW4-23_08032016 | 8/3/2016 | 823h | Aqueous | VOA by GC/MS Method 8260C/5030C |
| 1608133-005A | TW4-27_08032016 | 8/3/2016 | 834h | Aqueous | Anions, E300.0 |
| 1608133-005B | TW4-27_08032016 | 8/3/2016 | 834h | Aqueous | Nitrite/Nitrate (as N), E353.2 |
| 1608133-005C | TW4-27_08032016 | 8/3/2016 | 834h | Aqueous | VOA by GC/MS Method 8260C/5030C |
| 1608133-006A | TW4-14_08032016 | 8/3/2016 | 840h | Aqueous | Anions, E300.0 |
| 1608133-006B | TW4-14_08032016 | 8/3/2016 | 840h | Aqueous | Nitrite/Nitrate (as N), E353.2 |
| 1608133-006C | TW4-14_08032016 | 8/3/2016 | 840h | Aqueous | VOA by GC/MS Method 8260C/5030C |
| 1608133-007A | TW4-30_08032016 | 8/3/2016 | 850h | Aqueous | Anions, E300.0 |
| 1608133-007B | TW4-30_08032016 | 8/3/2016 | 850h | Aqueous | Nitrite/Nitrate (as N), E353.2 |
| 1608133-007C | TW4-30_08032016 | 8/3/2016 | 850h | Aqueous | VOA by GC/MS Method 8260C/5030C |
| 1608133-008A | TW4-26_08032016 | 8/3/2016 | 900h | Aqueous | Anions, E300.0 |
| 1608133-008B | TW4-26_08032016 | 8/3/2016 | 900h | Aqueous | Nitrite/Nitrate (as N), E353.2 |
| 1608133-008C | TW4-26_08032016 | 8/3/2016 | 900h | Aqueous | VOA by GC/MS Method 8260C/5030C |
| 1608133-009A | TW4-05_08032016 | 8/3/2016 | 908h | Aqueous | Anions, E300.0 |
| 1608133-009B | TW4-05_08032016 | 8/3/2016 | 908h | Aqueous | Nitrite/Nitrate (as N), E353.2 |
| 1608133-009C | TW4-05_08032016 | 8/3/2016 | 908h | Aqueous | VOA by GC/MS Method 8260C/5030C |
| 1608133-010A | TW4-18_08032016 | 8/3/2016 | 917h | Aqueous | Anions, E300.0 |
| 1608133-010B | TW4-18_08032016 | 8/3/2016 | 917h | Aqueous | Nitrite/Nitrate (as N), E353.2 |



All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. Confidential Business Information: 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

American West
ANALYTICAL LABORATORIES

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
**Project:** 3rd Quarter Chloroform 2016
**Lab Set ID:** 1608133
**Date Received:** 8/5/2016 1040h

| Lab Sample ID | Client Sample ID | Date Collected | | Matrix | Analysis |
|---|---|---|---|---|---|
| 1608133-010C | TW4-18_08032016 | 8/3/2016 | 917h | Aqueous | VOA by GC/MS Method 8260C/5030C |
| 1608133-011A | TW4-09_08032016 | 8/3/2016 | 926h | Aqueous | Anions, E300.0 |
| 1608133-011B | TW4-09_08032016 | 8/3/2016 | 926h | Aqueous | Nitrite/Nitrate (as N), E353.2 |
| 1608133-011C | TW4-09_08032016 | 8/3/2016 | 926h | Aqueous | VOA by GC/MS Method 8260C/5030C |
| 1608133-012A | TW4-16_08032016 | 8/3/2016 | 932h | Aqueous | Anions, E300.0 |
| 1608133-012B | TW4-16_08032016 | 8/3/2016 | 932h | Aqueous | Nitrite/Nitrate (as N), E353.2 |
| 1608133-012C | TW4-16_08032016 | 8/3/2016 | 932h | Aqueous | VOA by GC/MS Method 8260C/5030C |
| 1608133-013A | TW4-33_08042016 | 8/4/2016 | 758h | Aqueous | Anions, E300.0 |
| 1608133-013B | TW4-33_08042016 | 8/4/2016 | 758h | Aqueous | Nitrite/Nitrate (as N), E353.2 |
| 1608133-013C | TW4-33_08042016 | 8/4/2016 | 758h | Aqueous | VOA by GC/MS Method 8260C/5030C |
| 1608133-014A | TW4-29_08042016 | 8/4/2016 | 805h | Aqueous | Anions, E300.0 |
| 1608133-014B | TW4-29_08042016 | 8/4/2016 | 805h | Aqueous | Nitrite/Nitrate (as N), E353.2 |
| 1608133-014C | TW4-29_08042016 | 8/4/2016 | 805h | Aqueous | VOA by GC/MS Method 8260C/5030C |
| 1608133-015A | TW4-06_08042016 | 8/4/2016 | 813h | Aqueous | Anions, E300.0 |
| 1608133-015B | TW4-06_08042016 | 8/4/2016 | 813h | Aqueous | Nitrite/Nitrate (as N), E353.2 |
| 1608133-015C | TW4-06_08042016 | 8/4/2016 | 813h | Aqueous | VOA by GC/MS Method 8260C/5030C |
| 1608133-016A | TW4-08_08042016 | 8/4/2016 | 819h | Aqueous | Anions, E300.0 |
| 1608133-016B | TW4-08_08042016 | 8/4/2016 | 819h | Aqueous | Nitrite/Nitrate (as N), E353.2 |
| 1608133-016C | TW4-08_08042016 | 8/4/2016 | 819h | Aqueous | VOA by GC/MS Method 8260C/5030C |
| 1608133-017A | TW4-07_08042016 | 8/4/2016 | 825h | Aqueous | Anions, E300.0 |
| 1608133-017B | TW4-07_08042016 | 8/4/2016 | 825h | Aqueous | Nitrite/Nitrate (as N), E353.2 |
| 1608133-017C | TW4-07_08042016 | 8/4/2016 | 825h | Aqueous | VOA by GC/MS Method 8260C/5030C |
| 1608133-018A | TW4-10_08042016 | 8/4/2016 | 831h | Aqueous | Anions, E300.0 |
| 1608133-018B | TW4-10_08042016 | 8/4/2016 | 831h | Aqueous | Nitrite/Nitrate (as N), E353.2 |
| 1608133-018C | TW4-10_08042016 | 8/4/2016 | 831h | Aqueous | VOA by GC/MS Method 8260C/5030C |
| 1608133-019A | TW4-70_08032016 | 8/3/2016 | 823h | Aqueous | Anions, E300.0 |
| 1608133-019B | TW4-70_08032016 | 8/3/2016 | 823h | Aqueous | Nitrite/Nitrate (as N), E353.2 |
| 1608133-019C | TW4-70_08032016 | 8/3/2016 | 823h | Aqueous | VOA by GC/MS Method 8260C/5030C |
| 1608133-020A | Trip Blank | 8/2/2016 | | Aqueous | VOA by GC/MS Method 8260C/5030C |


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# Inorganic Case Narrative

| | |
|---|---|
| **Client:** | Energy Fuels Resources, Inc. |
| **Contact:** | Garrin Palmer |
| **Project:** | 3rd Quarter Chloroform 2016 |
| **Lab Set ID:** | 1608133 |


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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer


**Sample Receipt Information:**

| | |
|---|---|
| **Date of Receipt:** | 8/5/2016 |
| **Date(s) of Collection:** | 8/2-8/4/2016 |
| **Sample Condition:** | Intact |
| **C-O-C Discrepancies:** | None |

**Holding Time and Preservation Requirements:** The analysis and preparation for the samples were performed within the method holding times. The 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, indicating no apparent matrix interferences.

**Corrective Action:** None required.



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Laboratory Director

Jose Rocha
QA Officer

# Volatile Case Narrative

| | |
|---|---|
| **Client:** | Energy Fuels Resources, Inc. |
| **Contact:** | Garrin Palmer |
| **Project:** | 3rd Quarter Chloroform 2016 |
| **Lab Set ID:** | 1608133 |

**Sample Receipt Information:**

| | |
|---|---|
| **Date of Receipt:** | 8/5/2016 |
| **Date(s) of Collection:** | 8/2-8/4/2016 |
| **Sample Condition:** | Intact |
| **C-O-C Discrepancies:** | None |
| **Method:** | SW-846 8260C/5030C |
| **Analysis:** | Volatile Organic Compounds |

**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.

**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:** 1608133
**Project:** 3rd Quarter Chloroform 2016

**Contact:** Garrin Palmer
**Dept:** WC
**QC Type:** LCS

| Analyte | Result | Units | Method | MDL | Reporting Limit | Amount Spiked | Spike Ref. Amount | %REC | Limits | RPD Ref. Amt | % RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab Sample ID: LCS-R92697** Date Analyzed: 08/10/2016 1139h<br>Test Code: 300.0-W | | | | | | | | | | | | | |
| Chloride | 5.09 | mg/L | E300.0 | 0.00516 | 0.100 | 5.000 | 0 | 102 | 90 - 110 | | | | |
| **Lab Sample ID: LCS-R92926** Date Analyzed: 08/16/2016 1830h<br>Test Code: 300.0-W | | | | | | | | | | | | | |
| Chloride | 5.24 | mg/L | E300.0 | 0.00516 | 0.100 | 5.000 | 0 | 105 | 90 - 110 | | | | |
| **Lab Sample ID: LCS NO2-R92553** Date Analyzed: 08/05/2016 1558h<br>Test Code: NO2/NO3-W-353.2 | | | | | | | | | | | | | |
| Nitrate/Nitrite (as N) | 1.03 | mg/L | E353.2 | 0.00833 | 0.0100 | 1.000 | 0 | 103 | 90 - 110 | | | | |
| **Lab Sample ID: LCS NO3-R92553** Date Analyzed: 08/05/2016 1600h<br>Test Code: NO2/NO3-W-353.2 | | | | | | | | | | | | | |
| Nitrate/Nitrite (as N) | 0.961 | mg/L | E353.2 | 0.00833 | 0.0100 | 1.000 | 0 | 96.1 | 90 - 110 | | | | |
| **Lab Sample ID: LCS-R92554** Date Analyzed: 08/05/2016 1638h<br>Test Code: NO2/NO3-W-353.2 | | | | | | | | | | | | | |
| Nitrate/Nitrite (as N) | 0.944 | mg/L | E353.2 | 0.00833 | 0.0100 | 1.000 | 0 | 94.4 | 90 - 110 | | | | |



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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

# QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.
**Lab Set ID:** 1608133
**Project:** 3rd Quarter Chloroform 2016

**Contact:** Garrin Palmer
**Dept:** WC
**QC Type:** MBLK

| Analyte | Result | Units | Method | MDL | Reporting Limit | Amount Spiked | Spike Ref. Amount | %REC | Limits | RPD Ref. Amt | % RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab Sample ID: MB-R92697** Date Analyzed: 08/10/2016 1122h | | | | | | | | | | | | | |
| Test Code: 300.0-W | | | | | | | | | | | | | |
| Chloride | < 0.100 | mg/L | E300.0 | 0.00516 | 0.100 | | | | | | | | |
| **Lab Sample ID: MB-R92926** Date Analyzed: 08/16/2016 1813h | | | | | | | | | | | | | |
| Test Code: 300.0-W | | | | | | | | | | | | | |
| Chloride | < 0.100 | mg/L | E300.0 | 0.00516 | 0.100 | | | | | | | | |
| **Lab Sample ID: MB-R92553** Date Analyzed: 08/05/2016 1557h | | | | | | | | | | | | | |
| Test Code: NO2/NO3-W-353.2 | | | | | | | | | | | | | |
| Nitrate/Nitrite (as N) | < 0.0100 | mg/L | E353.2 | 0.00833 | 0.0100 | | | | | | | | |
| **Lab Sample ID: MB-R92554** Date Analyzed: 08/05/2016 1637h | | | | | | | | | | | | | |
| Test Code: NO2/NO3-W-353.2 | | | | | | | | | | | | | |
| Nitrate/Nitrite (as N) | < 0.0100 | mg/L | E353.2 | 0.00833 | 0.0100 | | | | | | | | |



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Jose Rocha
QA Officer

# QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.
**Lab Set ID:** 1608133
**Project:** 3rd Quarter Chloroform 2016

**Contact:** Garrin Palmer
**Dept:** WC
**QC Type:** MS

| Analyte | Result | Units | Method | MDL | Reporting Limit | Amount Spiked | Spike Ref. Amount | %REC | Limits | RPD Ref. Amt | % RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab Sample ID: 1608133-005AMS** Date Analyzed: 08/10/2016 1452h<br>Test Code: 300.0-W | | | | | | | | | | | | | |
| Chloride | 132 | mg/L | E300.0 | 0.103 | 2.00 | 100.0 | 27.1 | 105 | 90 - 110 | | | | |
| **Lab Sample ID: 1608133-013AMS** Date Analyzed: 08/10/2016 1814h<br>Test Code: 300.0-W | | | | | | | | | | | | | |
| Chloride | 155 | mg/L | E300.0 | 0.103 | 2.00 | 100.0 | 48.5 | 106 | 90 - 110 | | | | |
| **Lab Sample ID: 1608133-008AMS** Date Analyzed: 08/16/2016 1940h<br>Test Code: 300.0-W | | | | | | | | | | | | | |
| Chloride | 40.9 | mg/L | E300.0 | 0.0258 | 0.500 | 25.00 | 13.9 | 108 | 90 - 110 | | | | |
| **Lab Sample ID: 1608133-002BMS** Date Analyzed: 08/05/2016 1617h<br>Test Code: NO2/NO3-W-353.2 | | | | | | | | | | | | | |
| Nitrate/Nitrite (as N) | 11.3 | mg/L | E353.2 | 0.0833 | 0.100 | 10.00 | 0.726 | 106 | 90 - 110 | | | | |
| **Lab Sample ID: 1608133-011BMS** Date Analyzed: 08/05/2016 1640h<br>Test Code: NO2/NO3-W-353.2 | | | | | | | | | | | | | |
| Nitrate/Nitrite (as N) | 12.5 | mg/L | E353.2 | 0.0833 | 0.100 | 10.00 | 2.11 | 103 | 90 - 110 | | | | |



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Jose Rocha
QA Officer

# QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.
**Lab Set ID:** 1608133
**Project:** 3rd Quarter Chloroform 2016

**Contact:** Garrin Palmer
**Dept:** WC
**QC Type:** MSD

| Analyte | Result | Units | Method | MDL | Reporting Limit | Amount Spiked | Spike Ref. Amount | %REC | Limits | RPD Ref. Amt | % RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab Sample ID: 1608133-005AMSD** Date Analyzed: 08/10/2016 1508h<br>Test Code: 300.0-W | | | | | | | | | | | | | |
| Chloride | 133 | mg/L | E300.0 | 0.103 | 2.00 | 100.0 | 27.1 | 106 | 90 - 110 | 132 | 0.562 | 20 | |
| **Lab Sample ID: 1608133-013AMSD** Date Analyzed: 08/10/2016 1831h<br>Test Code: 300.0-W | | | | | | | | | | | | | |
| Chloride | 154 | mg/L | E300.0 | 0.103 | 2.00 | 100.0 | 48.5 | 106 | 90 - 110 | 155 | 0.274 | 20 | |
| **Lab Sample ID: 1608133-008AMSD** Date Analyzed: 08/16/2016 1957h<br>Test Code: 300.0-W | | | | | | | | | | | | | |
| Chloride | 40.6 | mg/L | E300.0 | 0.0258 | 0.500 | 25.00 | 13.9 | 107 | 90 - 110 | 40.9 | 0.889 | 20 | |
| **Lab Sample ID: 1608133-002BMSD** Date Analyzed: 08/05/2016 1619h<br>Test Code: NO2/NO3-W-353.2 | | | | | | | | | | | | | |
| Nitrate/Nitrite (as N) | 11.6 | mg/L | E353.2 | 0.0833 | 0.100 | 10.00 | 0.726 | 109 | 90 - 110 | 11.3 | 2.35 | 10 | |
| **Lab Sample ID: 1608133-011BMSD** Date Analyzed: 08/05/2016 1641h<br>Test Code: NO2/NO3-W-353.2 | | | | | | | | | | | | | |
| Nitrate/Nitrite (as N) | 12.6 | mg/L | E353.2 | 0.0833 | 0.100 | 10.00 | 2.11 | 105 | 90 - 110 | 12.5 | 1.36 | 10 | |



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QA Officer

# QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.
**Lab Set ID:** 1608133
**Project:** 3rd Quarter Chloroform 2016

**Contact:** Garrin Palmer
**Dept:** MSVOA
**QC Type:** LCS

| Analyte | Result | Units | Method | MDL | Reporting Limit | Amount Spiked | Spike Ref. Amount | %REC | Limits | RPD Ref. Amt | % RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab Sample ID: LCS VOC-2 080816A** Date Analyzed: 08/08/2016 1148h | | | | | | | | | | | | | |
| Test Code: 8260-W-DEN100 | | | | | | | | | | | | | |
| Chloroform | 19.4 | µg/L | SW8260C | 0.153 | 1.00 | 20.00 | 0 | 97.0 | 85 - 124 | | | | |
| Methylene chloride | 19.4 | µg/L | SW8260C | 0.172 | 1.00 | 20.00 | 0 | 97.0 | 71 - 135 | | | | |
| Surr: 1,2-Dichloroethane-d4 | 48.3 | µg/L | SW8260C | | | 50.00 | | 96.5 | 80 - 122 | | | | |
| Surr: 4-Bromofluorobenzene | 49.4 | µg/L | SW8260C | | | 50.00 | | 98.8 | 85 - 121 | | | | |
| Surr: Dibromofluoromethane | 48.7 | µg/L | SW8260C | | | 50.00 | | 97.5 | 80 - 116 | | | | |
| Surr: Toluene-d8 | 48.6 | µg/L | SW8260C | | | 50.00 | | 97.1 | 81 - 123 | | | | |
| **Lab Sample ID: LCS VOC-1 080916A** Date Analyzed: 08/09/2016 1141h | | | | | | | | | | | | | |
| Test Code: 8260-W-DEN100 | | | | | | | | | | | | | |
| Chloroform | 22.5 | µg/L | SW8260C | 0.153 | 1.00 | 20.00 | 0 | 113 | 85 - 124 | | | | |
| Surr: 1,2-Dichloroethane-d4 | 52.5 | µg/L | SW8260C | | | 50.00 | | 105 | 80 - 122 | | | | |
| Surr: 4-Bromofluorobenzene | 48.8 | µg/L | SW8260C | | | 50.00 | | 97.7 | 85 - 121 | | | | |
| Surr: Dibromofluoromethane | 52.3 | µg/L | SW8260C | | | 50.00 | | 105 | 80 - 116 | | | | |
| Surr: Toluene-d8 | 49.8 | µg/L | SW8260C | | | 50.00 | | 99.5 | 81 - 123 | | | | |



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Laboratory Director

Jose Rocha
QA Officer

# QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.
**Lab Set ID:** 1608133
**Project:** 3rd Quarter Chloroform 2016

**Contact:** Garrin Palmer
**Dept:** MSVOA
**QC Type:** MBLK

| Analyte | Result | Units | Method | MDL | Reporting Limit | Amount Spiked | Spike Ref. Amount | %REC | Limits | RPD Ref. Amt | % RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab Sample ID: MB VOC-2 080816A** Date Analyzed: 08/08/2016 1228h | | | | | | | | | | | | | |
| Test Code: 8260-W-DEN100 | | | | | | | | | | | | | |
| Carbon tetrachloride | < 1.00 | µg/L | SW8260C | 0.504 | 1.00 | | | | | | | | |
| Chloroform | < 1.00 | µg/L | SW8260C | 0.153 | 1.00 | | | | | | | | |
| Chloromethane | < 1.00 | µg/L | SW8260C | 0.163 | 1.00 | | | | | | | | |
| Methylene chloride | < 1.00 | µg/L | SW8260C | 0.172 | 1.00 | | | | | | | | |
| Surr: 1,2-Dichloroethane-d4 | 50.4 | µg/L | SW8260C | | | 50.00 | | 101 | 80 - 122 | | | | |
| Surr: 4-Bromofluorobenzene | 51.4 | µg/L | SW8260C | | | 50.00 | | 103 | 85 - 121 | | | | |
| Surr: Dibromofluoromethane | 49.0 | µg/L | SW8260C | | | 50.00 | | 97.9 | 80 - 116 | | | | |
| Surr: Toluene-d8 | 50.0 | µg/L | SW8260C | | | 50.00 | | 99.9 | 81 - 123 | | | | |
| **Lab Sample ID: MB VOC-1 080916A** Date Analyzed: 08/09/2016 1220h | | | | | | | | | | | | | |
| Test Code: 8260-W-DEN100 | | | | | | | | | | | | | |
| Chloroform | < 1.00 | µg/L | SW8260C | 0.153 | 1.00 | | | | | | | | |
| Surr: 1,2-Dichloroethane-d4 | 54.8 | µg/L | SW8260C | | | 50.00 | | 110 | 80 - 122 | | | | |
| Surr: 4-Bromofluorobenzene | 51.2 | µg/L | SW8260C | | | 50.00 | | 103 | 85 - 121 | | | | |
| Surr: Dibromofluoromethane | 52.5 | µg/L | SW8260C | | | 50.00 | | 105 | 80 - 116 | | | | |
| Surr: Toluene-d8 | 50.8 | µg/L | SW8260C | | | 50.00 | | 102 | 81 - 123 | | | | |



analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. Confidential Business Information: This report is provided for the exclusive use of the addressee. Privileges of subsequent use of th ne 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

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

# QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.
**Lab Set ID:** 1608133
**Project:** 3rd Quarter Chloroform 2016

**Contact:** Garrin Palmer
**Dept:** MSVOA
**QC Type:** MS

| Analyte | Result | Units | Method | MDL | Reporting Limit | Amount Spiked | Spike Ref. Amount | %REC | Limits | RPD Ref. Amt | % RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab Sample ID: 1608133-001CMS** Date Analyzed: 08/08/2016 1407h | | | | | | | | | | | | | |
| Test Code: 8260-W-DEN100 | | | | | | | | | | | | | |
| Chloroform | 18.7 | µg/L | SW8260C | 0.153 | 1.00 | 20.00 | 0 | 93.5 | 50 - 146 | | | | |
| Methylene chloride | 19.0 | µg/L | SW8260C | 0.172 | 1.00 | 20.00 | 0 | 95.0 | 30 - 192 | | | | |
| Surr: 1,2-Dichloroethane-d4 | 48.5 | µg/L | SW8260C | | | 50.00 | | 97.1 | 72 - 151 | | | | |
| Surr: 4-Bromofluorobenzene | 48.5 | µg/L | SW8260C | | | 50.00 | | 97.1 | 80 - 152 | | | | |
| Surr: Dibromofluoromethane | 48.9 | µg/L | SW8260C | | | 50.00 | | 97.7 | 80 - 124 | | | | |
| Surr: Toluene-d8 | 47.4 | µg/L | SW8260C | | | 50.00 | | 94.8 | 77 - 129 | | | | |
| **Lab Sample ID: 1608166-003GMS** Date Analyzed: 08/09/2016 1359h | | | | | | | | | | | | | |
| Test Code: 8260-W-DEN100 | | | | | | | | | | | | | |
| Chloroform | 33.8 | µg/L | SW8260C | 0.153 | 1.00 | 20.00 | 12.6 | 106 | 50 - 146 | | | | |
| Surr: 1,2-Dichloroethane-d4 | 53.8 | µg/L | SW8260C | | | 50.00 | | 108 | 72 - 151 | | | | |
| Surr: 4-Bromofluorobenzene | 49.2 | µg/L | SW8260C | | | 50.00 | | 98.3 | 80 - 152 | | | | |
| Surr: Dibromofluoromethane | 53.4 | µg/L | SW8260C | | | 50.00 | | 107 | 80 - 124 | | | | |
| Surr: Toluene-d8 | 52.0 | µg/L | SW8260C | | | 50.00 | | 104 | 77 - 129 | | | | |



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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

# QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.
**Lab Set ID:** 1608133
**Project:** 3rd Quarter Chloroform 2016

**Contact:** Garrin Palmer
**Dept:** MSVOA
**QC Type:** MSD

| Analyte | Result | Units | Method | MDL | Reporting Limit | Amount Spiked | Spike Ref. Amount | %REC | Limits | RPD Ref. Amt | % RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab Sample ID: 1608133-001CMSD** Date Analyzed: 08/08/2016 1427h | | | | | | | | | | | | | |
| Test Code: 8260-W-DEN100 | | | | | | | | | | | | | |
| Chloroform | 19.2 | µg/L | SW8260C | 0.153 | 1.00 | 20.00 | 0 | 96.0 | 50 - 146 | 18.7 | 2.59 | 25 | |
| Methylene chloride | 19.5 | µg/L | SW8260C | 0.172 | 1.00 | 20.00 | 0 | 97.6 | 30 - 192 | 19 | 2.70 | 25 | |
| Surr: 1,2-Dichloroethane-d4 | 48.9 | µg/L | SW8260C | | | 50.00 | | 97.8 | 72 - 151 | | | | |
| Surr: 4-Bromofluorobenzene | 48.6 | µg/L | SW8260C | | | 50.00 | | 97.2 | 80 - 152 | | | | |
| Surr: Dibromofluoromethane | 49.1 | µg/L | SW8260C | | | 50.00 | | 98.3 | 80 - 124 | | | | |
| Surr: Toluene-d8 | 48.0 | µg/L | SW8260C | | | 50.00 | | 96.1 | 77 - 129 | | | | |
| **Lab Sample ID: 1608166-003GMSD** Date Analyzed: 08/09/2016 1419h | | | | | | | | | | | | | |
| Test Code: 8260-W-DEN100 | | | | | | | | | | | | | |
| Chloroform | 33.9 | µg/L | SW8260C | 0.153 | 1.00 | 20.00 | 12.6 | 106 | 50 - 146 | 33.8 | 0.236 | 25 | |
| Surr: 1,2-Dichloroethane-d4 | 53.6 | µg/L | SW8260C | | | 50.00 | | 107 | 72 - 151 | | | | |
| Surr: 4-Bromofluorobenzene | 48.3 | µg/L | SW8260C | | | 50.00 | | 96.6 | 80 - 152 | | | | |
| Surr: Dibromofluoromethane | 52.3 | µg/L | SW8260C | | | 50.00 | | 105 | 80 - 124 | | | | |
| Surr: Toluene-d8 | 50.9 | µg/L | SW8260C | | | 50.00 | | 102 | 77 - 129 | | | | |



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UL
Denison

## WORK ORDER Summary

Work Order: **1608133** 

**Client:** Energy Fuels Resources, Inc. Due Date: 8/16/2016

**Client ID:** DEN100 **Contact:** Garrin Palmer

**Project:** **3rd Quarter Chloroform 2016** **QC Level:** III WO Type: Project

**Comments:** PA Rush. QC 3 (Summary/No chromatograms). RL of 1 ppm for Chloride and VOC and 0.1 ppm for NO2/NO3 - Run NO2/NO3 at a 10X dilution. Expected levels provided by client - see Jenn. J-flag what we can't meet. EIM Locus and EDD-Denison. Email Group.;

| Sample ID | Client Sample ID | Collected Date | Received Date | Test Code | Matrix | Sel | Storage | |
|---|---|---|---|---|---|---|---|---|
| 1608133-001A | **TW4-34R_08022016** | 8/2/2016 0725h | 8/5/2016 1040h | **300.0-W** | Aqueous | | df - wc | 1 |
| | | | | *1 SEL Analytes: CL* | | | | |
| 1608133-001B | | | | **NO2/NO3-W-353.2** | | | df - no2/no3 | |
| | | | | *1 SEL Analytes: NO3NO2N* | | | | |
| 1608133-001C | | | | **8260-W-DEN100** | | | VOCFridge | 3 |
| | | | | *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4* | | | | |
| 1608133-002A | **TW4-34_08032016** | 8/3/2016 0807h | 8/5/2016 1040h | **300.0-W** | Aqueous | | df - wc | 1 |
| | | | | *1 SEL Analytes: CL* | | | | |
| 1608133-002B | | | | **NO2/NO3-W-353.2** | | | df - no2/no3 | |
| | | | | *1 SEL Analytes: NO3NO2N* | | | | |
| 1608133-002C | | | | **8260-W-DEN100** | | | VOCFridge | 3 |
| | | | | *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4* | | | | |
| 1608133-003A | **TW4-35_08032016** | 8/3/2016 0814h | 8/5/2016 1040h | **300.0-W** | Aqueous | | df - wc | 1 |
| | | | | *1 SEL Analytes: CL* | | | | |
| 1608133-003B | | | | **NO2/NO3-W-353.2** | | | df - no2/no3 | |
| | | | | *1 SEL Analytes: NO3NO2N* | | | | |
| 1608133-003C | | | | **8260-W-DEN100** | | | VOCFridge | 3 |
| | | | | *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4* | | | | |
| 1608133-004A | **TW4-23_08032016** | 8/3/2016 0823h | 8/5/2016 1040h | **300.0-W** | Aqueous | | df - wc | 1 |
| | | | | *1 SEL Analytes: CL* | | | | |
| 1608133-004B | | | | **NO2/NO3-W-353.2** | | | df - no2/no3 | |
| | | | | *1 SEL Analytes: NO3NO2N* | | | | |
| 1608133-004C | | | | **8260-W-DEN100** | | | VOCFridge | 3 |
| | | | | *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4* | | | | |
| 1608133-005A | **TW4-27_08032016** | 8/3/2016 0834h | 8/5/2016 1040h | **300.0-W** | Aqueous | | df - wc | 1 |
| | | | | *1 SEL Analytes: CL* | | | | |
| 1608133-005B | | | | **NO2/NO3-W-353.2** | | | df - no2/no3 | |
| | | | | *1 SEL Analytes: NO3NO2N* | | | | |
| 1608133-005C | | | | **8260-W-DEN100** | | | VOCFridge | 3 |
| | | | | *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4* | | | | |

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# WORK ORDER Summary

Work Order: **1608133** 

**Client:** Energy Fuels Resources, Inc. Due Date: 8/16/2016

| Sample ID | Client Sample ID | Collected Date | Received Date | Test Code | Matrix | Sel | Storage | |
|---|---|---|---|---|---|---|---|---|
| 1608133-006A | **TW4-14_08032016** | 8/3/2016 0840h | 8/5/2016 1040h | **300.0-W** | Aqueous | | df - wc | 1 |
| | | | | *1 SEL Analytes: CL* | | | | |
| 1608133-006B | | | | **NO2/NO3-W-353.2** | | | df - no2/no3 | |
| | | | | *1 SEL Analytes: NO3NO2N* | | | | |
| 1608133-006C | | | | **8260-W-DEN100** | | | VOCFridge | 3 |
| | | | | *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4* | | | | |
| 1608133-007A | **TW4-30_08032016** | 8/3/2016 0850h | 8/5/2016 1040h | **300.0-W** | Aqueous | | df - wc | 1 |
| | | | | *1 SEL Analytes: CL* | | | | |
| 1608133-007B | | | | **NO2/NO3-W-353.2** | | | df - no2/no3 | |
| | | | | *1 SEL Analytes: NO3NO2N* | | | | |
| 1608133-007C | | | | **8260-W-DEN100** | | | VOCFridge | 3 |
| | | | | *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4* | | | | |
| 1608133-008A | **TW4-26_08032016** | 8/3/2016 0900h | 8/5/2016 1040h | **300.0-W** | Aqueous | | df - wc | 1 |
| | | | | *1 SEL Analytes: CL* | | | | |
| 1608133-008B | | | | **NO2/NO3-W-353.2** | | | df - no2/no3 | |
| | | | | *1 SEL Analytes: NO3NO2N* | | | | |
| 1608133-008C | | | | **8260-W-DEN100** | | | VOCFridge | 3 |
| | | | | *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4* | | | | |
| 1608133-009A | **TW4-05_08032016** | 8/3/2016 0908h | 8/5/2016 1040h | **300.0-W** | Aqueous | | df - wc | 1 |
| | | | | *1 SEL Analytes: CL* | | | | |
| 1608133-009B | | | | **NO2/NO3-W-353.2** | | | df - no2/no3 | |
| | | | | *1 SEL Analytes: NO3NO2N* | | | | |
| 1608133-009C | | | | **8260-W-DEN100** | | | VOCFridge | 3 |
| | | | | *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4* | | | | |
| 1608133-010A | **TW4-18_08032016** | 8/3/2016 0917h | 8/5/2016 1040h | **300.0-W** | Aqueous | | df - wc | 1 |
| | | | | *1 SEL Analytes: CL* | | | | |
| 1608133-010B | | | | **NO2/NO3-W-353.2** | | | df - no2/no3 | |
| | | | | *1 SEL Analytes: NO3NO2N* | | | | |
| 1608133-010C | | | | **8260-W-DEN100** | | | VOCFridge | 3 |
| | | | | *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4* | | | | |
| 1608133-011A | **TW4-09_08032016** | 8/3/2016 0926h | 8/5/2016 1040h | **300.0-W** | Aqueous | | df - wc | 1 |
| | | | | *1 SEL Analytes: CL* | | | | |
| 1608133-011B | | | | **NO2/NO3-W-353.2** | | | df - no2/no3 | |
| | | | | *1 SEL Analytes: NO3NO2N* | | | | |
| 1608133-011C | | | | **8260-W-DEN100** | | | VOCFridge | 3 |
| | | | | *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4* | | | | |
| 1608133-012A | **TW4-16_08032016** | 8/3/2016 0932h | 8/5/2016 1040h | **300.0-W** | Aqueous | | df - wc | 1 |
| | | | | *1 SEL Analytes: CL* | | | | |

# WORK ORDER Summary

Work Order: **1608133** 

**Client:** Energy Fuels Resources, Inc. Due Date: 8/16/2016

| Sample ID | Client Sample ID | Collected Date | Received Date | Test Code | Matrix | Sel | Storage | |
|---|---|---|---|---|---|---|---|---|
| 1608133-012B | **TW4-16_08032016** | 8/3/2016 0932h | 8/5/2016 1040h | **NO2/NO3-W-353.2** | Aqueous | | df - no2/no3 | 1 |
| | | | | *1 SEL Analytes: NO3NO2N* | | | | |
| 1608133-012C | | | | **8260-W-DEN100** | | | VOCFridge | 3 |
| | | | | *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4* | | | | |
| 1608133-013A | **TW4-33_08042016** | 8/4/2016 0758h | 8/5/2016 1040h | **300.0-W** | Aqueous | | df - wc | 1 |
| | | | | *1 SEL Analytes: CL* | | | | |
| 1608133-013B | | | | **NO2/NO3-W-353.2** | | | df - no2/no3 | |
| | | | | *1 SEL Analytes: NO3NO2N* | | | | |
| 1608133-013C | | | | **8260-W-DEN100** | | | VOCFridge | 3 |
| | | | | *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4* | | | | |
| 1608133-014A | **TW4-29_08042016** | 8/4/2016 0805h | 8/5/2016 1040h | **300.0-W** | Aqueous | | df - wc | 1 |
| | | | | *1 SEL Analytes: CL* | | | | |
| 1608133-014B | | | | **NO2/NO3-W-353.2** | | | df - no2/no3 | |
| | | | | *1 SEL Analytes: NO3NO2N* | | | | |
| 1608133-014C | | | | **8260-W-DEN100** | | | VOCFridge | 3 |
| | | | | *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4* | | | | |
| 1608133-015A | **TW4-06_08042016** | 8/4/2016 0813h | 8/5/2016 1040h | **300.0-W** | Aqueous | | df - wc | 1 |
| | | | | *1 SEL Analytes: CL* | | | | |
| 1608133-015B | | | | **NO2/NO3-W-353.2** | | | df - no2/no3 | |
| | | | | *1 SEL Analytes: NO3NO2N* | | | | |
| 1608133-015C | | | | **8260-W-DEN100** | | | VOCFridge | 3 |
| | | | | *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4* | | | | |
| 1608133-016A | **TW4-08_08042016** | 8/4/2016 0819h | 8/5/2016 1040h | **300.0-W** | Aqueous | | df - wc | 1 |
| | | | | *1 SEL Analytes: CL* | | | | |
| 1608133-016B | | | | **NO2/NO3-W-353.2** | | | df - no2/no3 | |
| | | | | *1 SEL Analytes: NO3NO2N* | | | | |
| 1608133-016C | | | | **8260-W-DEN100** | | | VOCFridge | 3 |
| | | | | *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4* | | | | |
| 1608133-017A | **TW4-07_08042016** | 8/4/2016 0825h | 8/5/2016 1040h | **300.0-W** | Aqueous | | df - wc | 1 |
| | | | | *1 SEL Analytes: CL* | | | | |
| 1608133-017B | | | | **NO2/NO3-W-353.2** | | | df - no2/no3 | |
| | | | | *1 SEL Analytes: NO3NO2N* | | | | |
| 1608133-017C | | | | **8260-W-DEN100** | | | VOCFridge | 3 |
| | | | | *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4* | | | | |
| 1608133-018A | **TW4-10_08042016** | 8/4/2016 0831h | 8/5/2016 1040h | **300.0-W** | Aqueous | | df - wc | 1 |
| | | | | *1 SEL Analytes: CL* | | | | |
| 1608133-018B | | | | **NO2/NO3-W-353.2** | | | df - no2/no3 | |
| | | | | *1 SEL Analytes: NO3NO2N* | | | | |

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# WORK ORDER Summary

Work Order: **1608133** 

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

Due Date: 8/16/2016

| Sample ID | Client Sample ID | Collected Date | Received Date | Test Code | Matrix | Sel | Storage | |
|---|---|---|---|---|---|---|---|---|
| 1608133-018C | **TW4-10_08042016** | 8/4/2016 0831h | 8/5/2016 1040h | **8260-W-DEN100** | Aqueous | | VOCFridge | 3 |
| | | | | *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4* | | | | |
| 1608133-019A | **TW4-70_08032016** | 8/3/2016 0823h | 8/5/2016 1040h | **300.0-W** | Aqueous | | df - wc | 1 |
| | | | | *1 SEL Analytes: CL* | | | | |
| 1608133-019B | | | | **NO2/NO3-W-353.2** | | | df - no2/no3 | |
| | | | | *1 SEL Analytes: NO3NO2N* | | | | |
| 1608133-019C | | | | **8260-W-DEN100** | | | VOCFridge | 3 |
| | | | | *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4* | | | | |
| 1608133-020A | **Trip Blank** | 8/2/2016 | 8/5/2016 1040h | **8260-W-DEN100** | Aqueous | | VOCFridge | 3 |
| | | | | *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4* | | | | |

# CHAIN OF CUSTODY

1608133

AWAL Lab Sample Set #

Page 1 of 2


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Fax # (801) 263-8687 Email awal@awal-labs.com

www.awal-labs.com


All analysis will be conducted using NELAP accredited methods and all data will be reported using AWAL's standard analyte lists and reporting limits (PQL) unless specifically requested otherwise on this Chain of Custody and/or attached documentation.

| QC Level: | Turn Around Time: | Unless other arrangements have been made, signed reports will be emailed by 5:00 pm on the day they are due. | Due Date: |
|---|---|---|---|
| 3 | Standard | | |

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

Address: **6425 S. Hwy. 191**
**Blanding, UT 84511**

Contact: **Garrin Palmer**

Phone #: **(435) 678-2221** Cell #: 435 459 9463

Email: **gpalmer@energyfuels.com; KWeinel@energyfuels.com; dturk@energyfuels.com**

Project Name: **3rd Quarter Chloroform 2016**

Project #:

PO #:

Sampler Name: **Tanner Holliday**

X Include EDD:
**LOCUS UPLOAD**
**EXCEL**
Field Filtered For:

**For Compliance With:**
- ☐ NELAP
- ☐ RCRA
- ☐ CWA
- ☐ SDWA
- ☐ ELAP / A2LA
- ☐ NLLAP
- ☐ Non-Compliance
- ☐ Other:

Laboratory Use Only

Samples Were: UPS
1 Shipped or hand delivered
2 Ambient or Chilled
3 Temperature 4.0 °C 2.6
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

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

| | Sample ID: | Date Sampled | Time Sampled | # of Containers | Sample Matrix | NO2/NO3 (353.2) | Cl (4500 or 300.0) | VOCs (8260C) | Known Hazards & Sample Comments |
|---|---|---|---|---|---|---|---|---|---|
| 1 | TW4-34R_08022016 | 8/2/2016 | 725 | 5 | W | X | X | X | |
| 2 | TW4-34_08032016 | 8/3/2016 | 807 | 5 | W | X | X | X | |
| 3 | TW4-35_08032016 | 8/3/2016 | 814 | 5 | W | X | X | X | |
| 4 | TW4-23_08032016 | 8/3/2016 | 823 | 5 | W | X | X | X | |
| 5 | TW4-27_08032016 | 8/3/2016 | 834 | 5 | W | X | X | X | |
| 6 | TW4-14_08032016 | 8/3/2016 | 840 | 5 | W | X | X | X | |
| 7 | TW4-30_08032016 | 8/3/2016 | 850 | 5 | W | X | X | X | |
| 8 | TW4-26_08032016 | 8/3/2016 | 900 | 5 | W | X | X | X | |
| 9 | TW4-05_08032016 | 8/3/2016 | 908 | 5 | W | X | X | X | |
| 10 | TW4-18_08032016 | 8/3/2016 | 917 | 5 | W | X | X | X | |
| 11 | TW4-09_08032016 | 8/3/2016 | 926 | 5 | W | X | X | X | |
| 12 | TW4-16_08032016 | 8/3/2016 | 932 | 5 | W | X | X | X | |
| 13 | TW4-33_08042016 | 8/4/2016 | 758 | 5 | W | X | X | X | |

| | | | |
|---|---|---|---|
| Relinquished by: Signature: Garrin Palmer | Date: 8/4/16 | Received by: Signature: | Date: |
| Print Name: Garrin Palmer | Time: 1230 | Print Name: | Time: |
| Relinquished by: Signature: | Date: | Received by: Signature: Elma Haynes | Date: 8/5/16 |
| Print Name: | Time: | Print Name: Elma Haynes | Time: 1040 |
| 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:

See the Analytical Scope of Work for Reporting Limits and VOC analyte list.

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www.awal-labs.com

# CHAIN OF CUSTODY

1608133
AWAL Lab Sample Set #
Page 2 of 2

All analysis will be conducted using NELAP accredited methods and all data will be reported using AWAL's standard analyte lists and reporting limits (PQL) unless specifically requested otherwise on this Chain of Custody and/or attached documentation.

| QC Level: | Turn Around Time: | Unless other arrangements have been made, signed reports will be emailed by 5:00 pm on the day they are due. | Due Date: |
|---|---|---|---|
| 3 | Standard | | |

Client: **Energy Fuels Resources, Inc.**
Address: **6425 S. Hwy. 191**
**Blanding, UT 84511**
Contact: **Garrin Palmer**
Phone #: **(435) 678-2221** Cell #: 435 459 9463
Email: **gpalmer@energyfuels.com; KWeinel@energyfuels.com; dturk@energyfuels.com**
Project Name: **3rd Quarter Chloroform 2016**
Project #:
PO #:
Sampler Name: **Tanner Holliday**

X Include EDD:
**LOCUS UPLOAD**
**EXCEL**
Field Filtered For:

**For Compliance With:**
☐ NELAP
☐ RCRA
☐ CWA
☐ SDWA
☐ ELAP / A2LA
☐ NLLAP
☐ Non-Compliance
☐ Other:

Laboratory Use Only

Samples Were: ICE
1 Shipped or hand delivered
2 Ambient or Chilled
3 Temperature 2.0 °C
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

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

| | Sample ID: | Date Sampled | Time Sampled | # of Containers | Sample Matrix | NO2/NO3 (353.2) | Cl (4500 or 300.0) | VOCs (8260C) | Known Hazards & Sample Comments |
|---|---|---|---|---|---|---|---|---|---|
| 4 | TW4-29_08042016 | 8/4/2016 | 805 | 5 | W | X | X | X | |
| 5 | TW4-06_08042016 | 8/4/2016 | 813 | 5 | W | X | X | X | |
| 6 | TW4-08_08042016 | 8/4/2016 | 819 | 5 | W | X | X | X | |
| 7 | TW4-07_08042016 | 8/4/2016 | 825 | 5 | W | X | X | X | |
| 8 | TW4-10_08042016 | 8/4/2016 | 831 | 5 | W | X | X | X | |
| 9 | TW4-70_08032016 | 8/3/2016 | 823 | 5 | W | X | X | X | |
| 10 | Trip Blank | 8/2/2016 | | 3 | W | | | X | |
| 8 | Temp Blank | | | 1 | W | | | | |
| 9 | | | | | | | | | |
| 10 | | | | | | | | | |
| 11 | | | | | | | | | |
| 12 | | | | | | | | | |
| 13 | | | | | | | | | |

| Relinquished by: Signature | Date | Time | Received by: Signature | Date | Time |
|---|---|---|---|---|---|
| Garrin Palmer | 8/4/16 | 1230 | | | |
| Print Name: Garrin Palmer | | | Print Name: | | |
| Relinquished by: Signature | Date | Time | Received by: Signature | Date | Time |
| | | | Elmer Hayes | 8-5-16 | 1040 |
| Print Name: | | | Print Name: Elmer Hayes | | |
| Relinquished by: Signature | Date | Time | Received by: Signature | Date | Time |
| Print Name: | | | Print Name: | | |
| Relinquished by: Signature | Date | Time | Received by: Signature | Date | Time |
| Print Name: | | | Print Name: | | |

Special Instructions:

See the Analytical Scope of Work for Reporting Limits and VOC analyte list.

Lab Set ID: 1608133
pH Lot 5003

## Preservation Check Sheet

### Sample Set Extension and pH

| Analysis | Preservative | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ammonia | pH <2 $H_2SO_4$ | | | | | | | | | | | | | | | | | | | |
| COD | pH <2 $H_2SO_4$ | | | | | | | | | | | | | | | | | | | |
| Cyanide | pH >12 NaOH | | | | | | | | | | | | | | | | | | | |
| Metals | pH <2 $HNO_3$ | | | | | | | | | | | | | | | | | | | |
| $NO_2$ & $NO_3$ | pH <2 $H_2SO_4$ | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| O & G | pH <2 HCL | | | | | | | | | | | | | | | | | | | |
| Phenols | pH <2 $H_2SO_4$ | | | | | | | | | | | | | | | | | | | |
| Sulfide | pH > 9NaOH, Zn Acetate | | | | | | | | | | | | | | | | | | | |
| TKN | pH <2 $H_2SO_4$ | | | | | | | | | | | | | | | | | | | |
| T $PO_4$ | pH <2 $H_2SO_4$ | | | | | | | | | | | | | | | | | | | |
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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

* The sample required additional preservative upon receipt.

\+ The sample was received unpreserved.

▲ The sample was received unpreserved and therefore preserved upon receipt.

\# The sample pH was unadjustable to a pH < 2 due to the sample matrix.

• The sample pH was unadjustable to a pH > ____ due to the sample matrix interference.

American West
ANALYTICAL LABORATORIES

Garrin Palmer
Energy Fuels Resources, Inc.
6425 S. Hwy 191
Blanding, UT 84511
TEL: (303) 389-4134

RE: 3rd Quarter Chloroform 2016

Dear Garrin Palmer: Lab Set ID: 1608399

3440 South 700 West
Salt Lake City, UT 84119

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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

American West Analytical Laboratories received sample(s) on 8/19/2016 for the analyses presented in the following report.

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, Wyoming, 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.

Thank You,

Approved by: Jose G. Rocha

Digitally signed by Jose G. Rocha
DN: cn=Jose G. Rocha, o=American West Analytical Laboratories, ou, email=jose@awal-labs.com, c=US
Date: 2016.08.26 09:42:42 -06'00'

Laboratory Director or designee



All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. Confidential Business Information: 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

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

# SAMPLE SUMMARY

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
**Project:** 3rd Quarter Chloroform 2016
**Lab Set ID:** 1608399
**Date Received:** 8/19/2016 1040h

| Lab Sample ID | Client Sample ID | Date Collected | Matrix | Analysis |
|---|---|---|---|---|
| 1608399-001A | MW-32_08172016 | 8/17/2016 1235h | Aqueous | Anions, E300.0 |
| 1608399-001B | MW-32_08172016 | 8/17/2016 1235h | Aqueous | Nitrite/Nitrate (as N), E353.2 |
| 1608399-001C | MW-32_08172016 | 8/17/2016 1235h | Aqueous | VOA by GC/MS Method 8260C/5030C |
| 1608399-002A | Trip Blank | 8/17/2016 | Aqueous | VOA by GC/MS Method 8260C/5030C |



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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:** | 3rd Quarter Chloroform 2016 |
| **Lab Set ID:** | 1608399 |

**Sample Receipt Information:**

| | |
|---|---|
| **Date of Receipt:** | 8/19/2016 |
| **Date of Collection:** | 8/17/2016 |
| **Sample Condition:** | Intact |
| **C-O-C Discrepancies:** | None |
| **Method:** | SW-846 8260C/5030C |
| **Analysis:** | Volatile Organic Compounds |

**General Set Comments:** No 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.

**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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# Inorganic Case Narrative

| | |
|---|---|
| **Client:** | Energy Fuels Resources, Inc. |
| **Contact:** | Garrin Palmer |
| **Project:** | 3rd Quarter Chloroform 2016 |
| **Lab Set ID:** | 1608399 |


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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer


**Sample Receipt Information:**

| | |
|---|---|
| **Date of Receipt:** | 8/19/2016 |
| **Date of Collection:** | 8/17/2016 |
| **Sample Condition:** | Intact |
| **C-O-C Discrepancies:** | None |

**Holding Time and Preservation Requirements:** The analysis and preparation for the samples were performed within the method holding times. The 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, DUP:

**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.

**Duplicate (DUP):** The parameters that required a duplicate analysis had RPDs within the control 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:** 1608399
**Project:** 3rd Quarter Chloroform 2016

**Contact:** Garrin Palmer
**Dept:** WC
**QC Type:** LCS

| Analyte | Result | Units | Method | MDL | Reporting Limit | Amount Spiked | Spike Ref. Amount | %REC | Limits | RPD Ref. Amt | % RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab Sample ID: LCS-R93109** Date Analyzed: 08/22/2016 1321h | | | | | | | | | | | | | |
| Test Code: 300.0-W | | | | | | | | | | | | | |
| Chloride | 5.33 | mg/L | E300.0 | 0.00516 | 0.100 | 5.000 | 0 | 107 | 90 - 110 | | | | |
| **Lab Sample ID: LCS-R93046** Date Analyzed: 08/19/2016 1940h | | | | | | | | | | | | | |
| Test Code: NO2/NO3-W-353.2 | | | | | | | | | | | | | |
| Nitrate/Nitrite (as N) | 0.970 | mg/L | E353.2 | 0.00833 | 0.0100 | 1.000 | 0 | 97.0 | 90 - 110 | | | | |



analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. Confidential Business Information: This report is provided for the exclusive use of the addressee. Privileges of subsequent use of th ne 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

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

# QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.
**Lab Set ID:** 1608399
**Project:** 3rd Quarter Chloroform 2016

**Contact:** Garrin Palmer
**Dept:** WC
**QC Type:** MBLK

| Analyte | Result | Units | Method | MDL | Reporting Limit | Amount Spiked | Spike Ref. Amount | %REC | Limits | RPD Ref. Amt | % RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab Sample ID: MB-R93109** Date Analyzed: 08/22/2016 1304h | | | | | | | | | | | | | |
| Test Code: 300.0-W | | | | | | | | | | | | | |
| Chloride | < 0.100 | mg/L | E300.0 | 0.00516 | 0.100 | | | | | | | | |
| **Lab Sample ID: MB-R93046** Date Analyzed: 08/19/2016 1937h | | | | | | | | | | | | | |
| Test Code: NO2/NO3-W-353.2 | | | | | | | | | | | | | |
| Nitrate/Nitrite (as N) | < 0.0100 | mg/L | E353.2 | 0.00833 | 0.0100 | | | | | | | | |



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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

# QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.
**Lab Set ID:** 1608399
**Project:** 3rd Quarter Chloroform 2016

**Contact:** Garrin Palmer
**Dept:** WC
**QC Type:** MS

| Analyte | Result | Units | Method | MDL | Reporting Limit | Amount Spiked | Spike Ref. Amount | %REC | Limits | RPD Ref. Amt | % RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab Sample ID: 1608399-001AMS** Date Analyzed: 08/22/2016 1355h | | | | | | | | | | | | | |
| Test Code: 300.0-W | | | | | | | | | | | | | |
| Chloride | 145 | mg/L | E300.0 | 0.103 | 2.00 | 100.0 | 37.5 | 108 | 90 - 110 | | | | |
| **Lab Sample ID: 1608400-007AMS** Date Analyzed: 08/22/2016 1445h | | | | | | | | | | | | | |
| Test Code: 300.0-W | | | | | | | | | | | | | |
| Chloride | 1,230 | mg/L | E300.0 | 1.03 | 20.0 | 1,000 | 150 | 108 | 90 - 110 | | | | |
| **Lab Sample ID: 1608399-001BMS** Date Analyzed: 08/19/2016 2018h | | | | | | | | | | | | | |
| Test Code: NO2/NO3-W-353.2 | | | | | | | | | | | | | |
| Nitrate/Nitrite (as N) | 10.2 | mg/L | E353.2 | 0.0833 | 0.100 | 10.00 | 0 | 102 | 90 - 110 | | | | |



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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

# QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.
**Lab Set ID:** 1608399
**Project:** 3rd Quarter Chloroform 2016

**Contact:** Garrin Palmer
**Dept:** WC
**QC Type:** MSD

| Analyte | Result | Units | Method | MDL | Reporting Limit | Amount Spiked | Spike Ref. Amount | %REC | Limits | RPD Ref. Amt | % RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab Sample ID: 1608399-001AMSD** Date Analyzed: 08/22/2016 1412h<br>Test Code: 300.0-W | | | | | | | | | | | | | |
| Chloride | 144 | mg/L | E300.0 | 0.103 | 2.00 | 100.0 | 37.5 | 107 | 90 - 110 | 145 | 0.634 | 20 | |
| **Lab Sample ID: 1608400-007AMSD** Date Analyzed: 08/22/2016 1502h<br>Test Code: 300.0-W | | | | | | | | | | | | | |
| Chloride | 1,220 | mg/L | E300.0 | 1.03 | 20.0 | 1,000 | 150 | 107 | 90 - 110 | 1230 | 0.606 | 20 | |
| **Lab Sample ID: 1608399-001BMSD** Date Analyzed: 08/19/2016 2019h<br>Test Code: NO2/NO3-W-353.2 | | | | | | | | | | | | | |
| Nitrate/Nitrite (as N) | 10.3 | mg/L | E353.2 | 0.0833 | 0.100 | 10.00 | 0 | 103 | 90 - 110 | 10.2 | 0.682 | 10 | |



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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

# QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.
**Lab Set ID:** 1608399
**Project:** 3rd Quarter Chloroform 2016

**Contact:** Garrin Palmer
**Dept:** MSVOA
**QC Type:** LCS

| Analyte | Result | Units | Method | MDL | Reporting Limit | Amount Spiked | Spike Ref. Amount | %REC | Limits | RPD Ref. Amt | % RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab Sample ID: LCS VOC-1 082216A** Date Analyzed: 08/22/2016 711h | | | | | | | | | | | | | |
| Test Code: 8260-W-DEN100 | | | | | | | | | | | | | |
| Chloroform | 19.2 | µg/L | SW8260C | 0.153 | 1.00 | 20.00 | 0 | 95.8 | 85 - 124 | | | | |
| Methylene chloride | 21.7 | µg/L | SW8260C | 0.172 | 1.00 | 20.00 | 0 | 109 | 71 - 135 | | | | |
| Surr: 1,2-Dichloroethane-d4 | 49.7 | µg/L | SW8260C | | | 50.00 | | 99.4 | 80 - 122 | | | | |
| Surr: 4-Bromofluorobenzene | 46.1 | µg/L | SW8260C | | | 50.00 | | 92.2 | 85 - 121 | | | | |
| Surr: Dibromofluoromethane | 51.0 | µg/L | SW8260C | | | 50.00 | | 102 | 80 - 116 | | | | |
| Surr: Toluene-d8 | 48.2 | µg/L | SW8260C | | | 50.00 | | 96.4 | 81 - 123 | | | | |



analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. Confidential Business Information: This report is provided for the exclusive use of the addressee. Privileges of subsequent use of th ne 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

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

# QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.
**Lab Set ID:** 1608399
**Project:** 3rd Quarter Chloroform 2016

**Contact:** Garrin Palmer
**Dept:** MSVOA
**QC Type:** MBLK

| Analyte | Result | Units | Method | MDL | Reporting Limit | Amount Spiked | Spike Ref. Amount | %REC | Limits | RPD Ref. Amt | % RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab Sample ID: MB VOC-1 082216A** Date Analyzed: 08/22/2016 751h | | | | | | | | | | | | | |
| Test Code: 8260-W-DEN100 | | | | | | | | | | | | | |
| Carbon tetrachloride | < 1.00 | µg/L | SW8260C | 0.504 | 1.00 | | | | | | | | |
| Chloroform | < 1.00 | µg/L | SW8260C | 0.153 | 1.00 | | | | | | | | |
| Chloromethane | < 1.00 | µg/L | SW8260C | 0.163 | 1.00 | | | | | | | | |
| Methylene chloride | < 1.00 | µg/L | SW8260C | 0.172 | 1.00 | | | | | | | | |
| Surr: 1,2-Dichloroethane-d4 | 49.8 | µg/L | SW8260C | | | 50.00 | | 99.6 | 80 - 122 | | | | |
| Surr: 4-Bromofluorobenzene | 47.8 | µg/L | SW8260C | | | 50.00 | | 95.6 | 85 - 121 | | | | |
| Surr: Dibromofluoromethane | 49.7 | µg/L | SW8260C | | | 50.00 | | 99.5 | 80 - 116 | | | | |
| Surr: Toluene-d8 | 49.5 | µg/L | SW8260C | | | 50.00 | | 98.9 | 81 - 123 | | | | |



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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

# QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.
**Lab Set ID:** 1608399
**Project:** 3rd Quarter Chloroform 2016

**Contact:** Garrin Palmer
**Dept:** MSVOA
**QC Type:** MS

| Analyte | Result | Units | Method | MDL | Reporting Limit | Amount Spiked | Spike Ref. Amount | %REC | Limits | RPD Ref. Amt | % RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab Sample ID: 1608399-001CMS** Date Analyzed: 08/22/2016 1219h | | | | | | | | | | | | | |
| Test Code: 8260-W-DEN100 | | | | | | | | | | | | | |
| Chloroform | 18.9 | µg/L | SW8260C | 0.153 | 1.00 | 20.00 | 0 | 94.4 | 50 - 146 | | | | |
| Methylene chloride | 21.4 | µg/L | SW8260C | 0.172 | 1.00 | 20.00 | 0 | 107 | 30 - 192 | | | | |
| Surr: 1,2-Dichloroethane-d4 | 50.1 | µg/L | SW8260C | | | 50.00 | | 100 | 72 - 151 | | | | |
| Surr: 4-Bromofluorobenzene | 46.4 | µg/L | SW8260C | | | 50.00 | | 92.8 | 80 - 152 | | | | |
| Surr: Dibromofluoromethane | 50.5 | µg/L | SW8260C | | | 50.00 | | 101 | 80 - 124 | | | | |
| Surr: Toluene-d8 | 47.9 | µg/L | SW8260C | | | 50.00 | | 95.9 | 77 - 129 | | | | |
| **Lab Sample ID: 1608400-006EMS** Date Analyzed: 08/22/2016 1017h | | | | | | | | | | | | | |
| Test Code: 8260-W-DEN100 | | | | | | | | | | | | | |
| Chloroform | 3,790 | µg/L | SW8260C | 7.65 | 50.0 | 1,000 | 2950 | 84.0 | 50 - 146 | | | | |
| Methylene chloride | 1,110 | µg/L | SW8260C | 8.60 | 50.0 | 1,000 | 0 | 111 | 30 - 192 | | | | |
| Surr: 1,2-Dichloroethane-d4 | 2,540 | µg/L | SW8260C | | | 2,500 | | 102 | 72 - 151 | | | | |
| Surr: 4-Bromofluorobenzene | 2,240 | µg/L | SW8260C | | | 2,500 | | 89.6 | 80 - 152 | | | | |
| Surr: Dibromofluoromethane | 2,560 | µg/L | SW8260C | | | 2,500 | | 103 | 80 - 124 | | | | |
| Surr: Toluene-d8 | 2,410 | µg/L | SW8260C | | | 2,500 | | 96.5 | 77 - 129 | | | | |



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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

# QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.
**Lab Set ID:** 1608399
**Project:** 3rd Quarter Chloroform 2016

**Contact:** Garrin Palmer
**Dept:** MSVOA
**QC Type:** MSD

| Analyte | Result | Units | Method | MDL | Reporting Limit | Amount Spiked | Spike Ref. Amount | %REC | Limits | RPD Ref. Amt | % RPD | RPD Limit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab Sample ID: 1608399-001CMSD** Date Analyzed: 08/22/2016 1239h | | | | | | | | | | | | | |
| Test Code: 8260-W-DEN100 | | | | | | | | | | | | | |
| Chloroform | 19.8 | µg/L | SW8260C | 0.153 | 1.00 | 20.00 | 0 | 99.0 | 50 - 146 | 18.9 | 4.71 | 25 | |
| Methylene chloride | 19.6 | µg/L | SW8260C | 0.172 | 1.00 | 20.00 | 0 | 98.2 | 30 - 192 | 21.4 | 8.29 | 25 | |
| Surr: 1,2-Dichloroethane-d4 | 51.2 | µg/L | SW8260C | | | 50.00 | | 102 | 72 - 151 | | | | |
| Surr: 4-Bromofluorobenzene | 45.6 | µg/L | SW8260C | | | 50.00 | | 91.2 | 80 - 152 | | | | |
| Surr: Dibromofluoromethane | 51.7 | µg/L | SW8260C | | | 50.00 | | 103 | 80 - 124 | | | | |
| Surr: Toluene-d8 | 47.7 | µg/L | SW8260C | | | 50.00 | | 95.5 | 77 - 129 | | | | |
| **Lab Sample ID: 1608400-006EMSD** Date Analyzed: 08/22/2016 1037h | | | | | | | | | | | | | |
| Test Code: 8260-W-DEN100 | | | | | | | | | | | | | |
| Chloroform | 3,650 | µg/L | SW8260C | 7.65 | 50.0 | 1,000 | 2950 | 69.8 | 50 - 146 | 3790 | 3.82 | 25 | |
| Methylene chloride | 1,080 | µg/L | SW8260C | 8.60 | 50.0 | 1,000 | 0 | 108 | 30 - 192 | 1110 | 2.74 | 25 | |
| Surr: 1,2-Dichloroethane-d4 | 2,560 | µg/L | SW8260C | | | 2,500 | | 102 | 72 - 151 | | | | |
| Surr: 4-Bromofluorobenzene | 2,290 | µg/L | SW8260C | | | 2,500 | | 91.4 | 80 - 152 | | | | |
| Surr: Dibromofluoromethane | 2,580 | µg/L | SW8260C | | | 2,500 | | 103 | 80 - 124 | | | | |
| Surr: Toluene-d8 | 2,440 | µg/L | SW8260C | | | 2,500 | | 97.5 | 77 - 129 | | | | |



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UL
Denison

## WORK ORDER Summary

Work Order: **1608399** Page 1 of 1

**Client:** Energy Fuels Resources, Inc. Due Date: 8/30/2016

**Client ID:** DEN100 **Contact:** Garrin Palmer

**Project:** **3rd Quarter Chloroform 2016** **QC Level:** III WO Type: Project

**Comments:** PA Rush. QC 3 (Summary/No chromatograms). RL of 1 ppm for Chloride and VOC and 0.1 ppm for NO2/NO3 - Run NO2/NO3 at a 10X dilution. Expected levels provided by client - see Jenn. J-flag what we can't meet. EIM Locus and EDD-Denison. Email Group.;

| Sample ID | Client Sample ID | Collected Date | Received Date | Test Code | Matrix | Sel | Storage | |
|---|---|---|---|---|---|---|---|---|
| 1608399-001A | **MW-32_08172016** | 8/17/2016 1235h | 8/19/2016 1040h | **300.0-W** | Aqueous | | df - wc | 1 |
| | | | | *1 SEL Analytes: CL* | | | | |
| 1608399-001B | | | | **NO2/NO3-W-353.2** | | | df - no2/no3 | |
| | | | | *1 SEL Analytes: NO3NO2N* | | | | |
| 1608399-001C | | | | **8260-W-DEN100** | | | VOCFridge | 3 |
| | | | | *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4* | | | | |
| 1608399-002A | **Trip Blank** | 8/17/2016 | 8/19/2016 1040h | **8260-W-DEN100** | Aqueous | | VOCFridge | 3 |
| | | | | *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4* | | | | |

Printed: 8/19/2016 FOR LABORATORY USE ONLY [fill out on page 1]: %M ☐ RT ☐ CN ☐ TAT ☐ QC ☐ HOK_____ HOK_____ HOK_____ COC Emailed 8/19/16 el

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# CHAIN OF CUSTODY

1608399
AWAL Lab Sample Set #

Page 1 of 1

All analysis will be conducted using NELAP accredited methods and all data will be reported using AWAL's standard analyte lists and reporting limits (PQL) unless specifically requested otherwise on this Chain of Custody and/or attached documentation.

| QC Level: | Turn Around Time: | Unless other arrangements have been made, signed reports will be emailed by 5:00 pm on the day they are due. | Due Date: |
|---|---|---|---|
| 3 | Standard | | |

Client: **Energy Fuels Resources, Inc.**
Address: **6425 S. Hwy. 191**
**Blanding, UT 84511**
Contact: **Garrin Palmer**
Phone #: **(435) 678-2221** Cell #: 435 459 9463
Email: **gpalmer@energyfuels.com; KWeinel@energyfuels.com; dturk@energyfuels.com**
Project Name: **3rd Quarter Chloroform 2016**
Project #:
PO #:
Sampler Name: **Tanner Holliday**

X Include EDD:
**LOCUS UPLOAD**
**EXCEL**
Field Filtered For:

**For Compliance With:**
- ☐ NELAP
- ☐ RCRA
- ☐ CWA
- ☐ SDWA
- ☐ ELAP / A2LA
- ☐ NLLAP
- ☐ Non-Compliance
- ☐ Other:

| | Sample ID: | Date Sampled | Time Sampled | # of Containers | Sample Matrix | NO2/NO3 (353.2) | Cl (4500 or 300.0) | VOCs (8260C) | Known Hazards & Sample Comments |
|---|---|---|---|---|---|---|---|---|---|
| 1 | MW-32_08172016 | 8/17/2016 | 1235 | 5 | X | X | X | X | |
| 2 | Trip Blank | 8/17/16 | | 3 | X | | | X | |
| 3 | | | | | | | | | |
| 4 | | | | | | | | | |
| 5 | | | | | | | | | |
| 6 | | | | | | | | | |
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| 10 | | | | | | | | | |
| 11 | | | | | | | | | |
| 12 | | | | | | | | | |

**Laboratory Use Only**

Samples Were: (U) HS
1 Shipped or hand delivered
2 Ambient or Chilled
3 Temperature 3.8 °C
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

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? (N)
4-19-16

| Relinquished by: Signature | Date: | Received by: Signature | Date: |
|---|---|---|---|
| Print Name: Garrin Palmer | Time: 1230 | Print Name: | Time: |
| Relinquished by: Signature | Date: | Received by: Signature | Date: 8/19/16 |
| Print Name: | Time: | Print Name: Elmer Hayford | Time: 1040 |
| 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:

See the Analytical Scope of Work for Reporting Limits and VOC analyte list.

| Contaminant | Analytical Methods to be Used | Reporting Limit | Maximum Holding Times | Sample Preservation Requirements | Sample Temperature Requirements |
|---|---|---|---|---|---|
| General Inorganics | | | | | |
| Chloride | A4500-Cl B or A4500-Cl E or E300.0 | 1 mg/L | 28 days | None | ≤ 6°C |
| Sulfate | A4500-SO4 E or E300.0 | 1 mg/L | 28 days | None | ≤ 6°C |
| Carbonate as CO3 | A2320 B | 1 mg/L | 14 days | None | ≤ 6°C |
| Bicarbonate as HCO3 | A2320 B | 1 mg/L | 14 days | None | |
| Volatile Organic Compounds –Chloroform Program | | | | | |
| Carbon Tetrachloride | SW8260B or SW8260C | 1.0 µg/L | 14 days | HCl to pH<2 | ≤ 6°C |
| Chloroform | SW8260B or SW8260C | 1.0 µg/L | 14 days | HCl to pH<2 | ≤ 6°C |
| Dichloromethane (Methylene Chloride) | SW8260B or SW8260C | 1.0 µg/L | 14 days | HCl to pH<2 | ≤ 6°C |
| Chloromethane | SW8260B or SW8260C | 1.0 µg/L | 14 days | HCl to pH<2 | ≤ 6°C |
| SVOCs – Tailings Impoundment Samples Only | | | | | |
| 1,2,4-Trichlorobenzene | SW8270D | <10 ug/L | 7/40 days | None | ≤ 6°C |
| 1,2-Dichlorobenzene | SW8270D | <10 ug/L | 7/40 days | None | ≤ 6°C |
| 1,3-Dichlorobenzene | SW8270D | <10 ug/L | 7/40 days | None | ≤ 6°C |
| 1,4-Dichlorobenzene | SW8270D | <10 ug/L | 7/40 days | None | ≤ 6°C |
| 1-Methylnaphthalene | SW8270D | <10 ug/L | 7/40 days | None | ≤ 6°C |
| 2,4,5-Trichlorophenol | SW8270D | <10 ug/L | 7/40 days | None | ≤ 6°C |
| 2,4,6-Trichlorophenol | SW8270D | <10 ug/L | 7/40 days | None | ≤ 6°C |
| 2,4-Dichlorophenol | SW8270D | <10 ug/L | 7/40 days | None | ≤ 6°C |
| 2,4-Dimethylphenol | SW8270D | <10 ug/L | 7/40 days | None | ≤ 6°C |
| 2,4-Dinitrophenol | SW8270D | <20 ug/L | 7/40 days | None | ≤ 6°C |
| 2,4-Dinitrotoluene | SW8270D | <10 ug/L | 7/40 days | None | ≤ 6°C |
| 2,6-Dinitrotoluene | SW8270D | <10 ug/L | 7/40 days | None | ≤ 6°C |
| 2-Chloronaphthalene | SW8270D | <10 ug/L | 7/40 days | None | ≤ 6°C |
| 2-Chlorophenol | SW8270D | <10 ug/L | 7/40 days | None | ≤ 6°C |
| 2-Methylnaphthalene | SW8270D | <10 ug/L | 7/40 days | None | ≤ 6°C |
| 2-Methylphenol | SW8270D | <10 ug/L | 7/40 days | None | ≤ 6°C |
| 2-Nitrophenol | SW8270D | <10 ug/L | 7/40 days | None | ≤ 6°C |
| 3&4-Methylphenol | SW8270D | <10 ug/L | 7/40 days | None | ≤ 6°C |
| 3,3´-Dichlorobenzidine | SW8270D | <10 ug/L | 7/40 days | None | ≤ 6°C |
| 4,6-Dinitro-2-methylphenol | SW8270D | <10 ug/L | 7/40 days | None | ≤ 6°C |

Lab Set ID: 1608399
pH Lot 5003

## Preservation Check Sheet

### Sample Set Extension and pH

| Analysis | Preservative | 1 | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ammonia | pH <2 $H_2SO_4$ | | | | | | | | | | | | | | | | | | |
| COD | pH <2 $H_2SO_4$ | | | | | | | | | | | | | | | | | | |
| Cyanide | pH >12 NaOH | | | | | | | | | | | | | | | | | | |
| Metals | pH <2 $HNO_3$ | | | | | | | | | | | | | | | | | | |
| $NO_2$ & $NO_3$ | pH <2 $H_2SO_4$ | Yes | | | | | | | | | | | | | | | | | |
| O & G | pH <2 HCL | | | | | | | | | | | | | | | | | | |
| Phenols | pH <2 $H_2SO_4$ | | | | | | | | | | | | | | | | | | |
| Sulfide | pH > 9NaOH, Zn Acetate | | | | | | | | | | | | | | | | | | |
| TKN | pH <2 $H_2SO_4$ | | | | | | | | | | | | | | | | | | |
| T $PO_4$ | pH <2 $H_2SO_4$ | | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | | | |

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

* The sample required additional preservative upon receipt.

\+ The sample was received unpreserved.

▲ The sample was received unpreserved and therefore preserved upon receipt.

\# The sample pH was unadjustable to a pH < 2 due to the sample matrix.

• The sample pH was unadjustable to a pH > ____ due to the sample matrix interference.

Tab I

Quality Assurance and Data Validation Tables

I-1: Field QA/QC Evaluation

| Location | 1x Casing Volume | Volume Pumped | 2x Casing Volume | Volume Check | Conductivity | | RPD | pH | | RPD | Temp | | RPD | Redox Potential | | RPD | Turbidity | | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-04 | NA | Continuously pumped well | -- | | 1895 | | N/A | 6.57 | | N/A | 16.01 | | N/A | 326 | | N/A | 5.3 | | N/A |
| TW4-01 | NA | Continuously pumped well | -- | | 2481 | | N/A | 6.59 | | N/A | 16.14 | | N/A | 346 | | N/A | 0.0 | | N/A |
| TW4-02 | NA | Continuously pumped well | -- | | 3422 | | N/A | 6.40 | | N/A | 15.43 | | N/A | 329 | | N/A | 8.5 | | N/A |
| TW4-03 | 54.59 | 100.00 | 109 | Pumped Dry | 1715 | 1724 | 0.52 | 6.25 | 6.27 | 0.32 | 16.50 | 16.43 | 0.43 | NM | | NC | NM | | NC |
| TW4-04 | NA | Continuously pumped well | -- | | 2400 | | N/A | 6.63 | | N/A | 16.34 | | N/A | 363 | | N/A | 8.0 | | N/A |
| TW4-05 | 35.85 | 90.00 | 72 | OK | 1528 | 1518 | 0.66 | 6.36 | 6.38 | 0.31 | 15.62 | 15.60 | 0.13 | 500 | 500 | 0.00 | 14 | 14 | 0.00 |
| TW4-06 | 16.11 | 30.00 | 32 | Pumped Dry | 3878 | 3891 | 0.33 | 6.46 | 6.45 | 0.15 | 14.86 | 14.84 | 0.13 | NM | | NC | NM | | NC |
| TW4-07 | 28.53 | 80.00 | 57 | OK | 1656 | 1698 | 2.50 | 6.55 | 6.57 | 0.30 | 15.25 | 15.23 | 0.13 | 504 | 504 | 0.00 | 53 | 53 | 0.00 |
| TW4-08 | 29.80 | 80.00 | 80 | OK | 5031 | 5025 | 0.12 | 6.18 | 6.19 | 0.16 | 15.22 | 15.21 | 0.07 | 543 | 543 | 0.00 | 11.2 | 11.3 | 0.89 |
| TW4-09 | 43.76 | 100.00 | 88 | OK | 2498 | 2494 | 0.16 | 6.23 | 6.24 | 0.16 | 15.29 | 15.29 | 0.00 | 486 | 486 | 0.00 | 30 | 30 | 0.00 |
| TW4-10 | 31.63 | 60.75 | 63 | Pumped Dry | 3025 | 3025 | 0.00 | 6.33 | 6.29 | 0.63 | 15.05 | 15.00 | 0.33 | NM | | NC | NM | | NC |
| TW4-11 | NA | Continuously pumped well | -- | | 3778 | | N/A | 6.35 | | N/A | 18.17 | | N/A | 293 | | N/A | 0.0 | | N/A |
| TW4-12 | 36.04 | 70.00 | 72 | Pumped Dry | 1548 | 1549 | 0.06 | 6.57 | 6.59 | 0.30 | 15.45 | 15.43 | 0.13 | NM | | NC | NM | | NC |
| TW4-13 | 26.11 | 60.00 | 52 | Pumped Dry | 2141 | 2152 | 0.51 | 6.61 | 6.61 | 0.00 | 15.30 | 15.27 | 0.20 | 355 | 356 | NC | 16 | 17 | NC |
| TW4-14 | 8.78 | 15.00 | 18 | Pumped Dry | 5344 | 5348 | 0.07 | 6.37 | 6.38 | 0.16 | 15.10 | 15.09 | 0.07 | NM | | NC | NM | | NC |
| MW-26 | NA | Continuously pumped well | -- | | 3512 | | N/A | 6.26 | | N/A | 16.49 | | N/A | 251 | | N/A | 7.10 | | N/A |
| TW4-16 | 50.87 | 110.00 | 102 | OK | 3930 | 3934 | 0.10 | 6.19 | 6.20 | 0.16 | 15.15 | 15.14 | 0.07 | 497 | 496 | 0.20 | 121 | 123 | 1.64 |
| MW-32 | 35.77 | 71.61 | 72 | OK | 3921 | 3920 | 0.03 | 6.30 | 6.29 | 0.16 | 15.27 | 15.16 | 0.72 | 483 | 475 | 1.67 | 13.0 | 13.0 | 0.00 |
| TW4-18 | 46.68 | 110.00 | 93 | OK | 1970 | 1964 | 0.31 | 5.96 | 5.96 | 0.00 | 15.72 | 15.72 | 0.00 | 469 | 468 | 0.21 | 37 | 37 | 0.00 |
| TW4-19 | NA | Continuously pumped well | -- | | 2902 | | N/A | 6.28 | | N/A | 17.15 | | N/A | 408 | | N/A | 0.0 | | N/A |
| TW4-20 | NA | Continuously pumped well | -- | | 4736 | | N/A | 6.31 | | N/A | 17.20 | | N/A | 384 | | N/A | 1.8 | | N/A |
| TW4-21 | NA | Continuously pumped well | -- | | 4628 | | N/A | 5.99 | | N/A | 17.15 | | N/A | 541 | | N/A | 8.3 | | N/A |
| TW4-22 | NA | Continuously pumped well | -- | | 5712 | | N/A | 6.36 | | N/A | 16.21 | | N/A | 422 | | N/A | 3.7 | | N/A |
| TW4-23 | 28.75 | 90.00 | 58 | OK | 3747 | 3747 | 0.00 | 6.25 | 6.24 | 0.16 | 14.46 | 14.48 | 0.14 | 470 | 467 | 0.64 | 42 | 40 | 4.88 |
| TW4-24 | NA | Continuously pumped well | -- | | 8841 | | N/A | 6.19 | | N/A | 16.22 | | N/A | 453 | | N/A | 25 | | N/A |
| TW4-25 | NA | Continuously pumped well | -- | | 2820 | | N/A | 6.42 | | N/A | 16.54 | | N/A | 479 | | N/A | 5.3 | | N/A |
| TW4-26 | 12.25 | 20.00 | 25 | Pumped Dry | 6547 | 6527 | 0.31 | 4.11 | 4.08 | 0.73 | 15.53 | 15.50 | 0.19 | NM | | NC | NM | | NC |
| TW4-27 | 10.72 | 15.00 | 21 | Pumped Dry | 5285 | 5296 | 0.21 | 6.26 | 6.27 | 0.16 | 15.27 | 15.25 | 0.13 | NM | | NC | NM | | NC |
| TW4-28 | 43.55 | 90.00 | 87 | OK | 1457 | 1457 | 0.00 | 6.53 | 6.57 | 0.61 | 15.09 | 15.07 | 0.13 | 437 | 436 | 0.23 | 38 | 36 | 5.41 |
| TW4-29 | 12.64 | 20.00 | 25 | Pumped Dry | 4353 | 4368 | 0.34 | 6.33 | 6.34 | 0.16 | 15.20 | 15.10 | 0.66 | NM | | NC | NM | | NC |
| TW4-30 | 10.93 | 20.00 | 22 | Pumped Dry | 4437 | 4449 | 0.27 | 5.20 | 5.19 | 0.19 | 15.48 | 15.31 | 1.10 | NM | | NC | NM | | NC |
| TW4-31 | 17.53 | 27.50 | 35 | Pumped Dry | 4879 | 4868 | 0.23 | 6.64 | 6.66 | 0.30 | 15.34 | 15.30 | 0.26 | NM | | NC | NM | | NC |
| TW4-32 | 41.41 | 90.00 | 83 | OK | 6960 | 6978 | 0.26 | 3.46 | 3.47 | 0.29 | 14.93 | 14.93 | 0.00 | 616 | 615 | 0.16 | 14 | 15 | 6.90 |
| TW4-33 | 9.75 | 13.33 | 20 | Pumped Dry | 4594 | 4587 | 0.15 | 5.60 | 5.66 | 1.07 | 16.18 | 16.15 | 0.19 | NM | | NC | NM | | NC |
| TW4-34 | 16.32 | 33.33 | 33 | Pumped Dry | 3934 | 3989 | 1.39 | 6.35 | 6.37 | 0.31 | 15.76 | 15.72 | 0.25 | NM | | NC | NM | | NC |
| TW4-35 | 8.71 | 10.00 | 17 | Pumped Dry | 4530 | 4540 | 0.22 | 6.43 | 6.41 | 0.31 | 15.09 | 15.03 | 0.40 | NM | | NC | NM | | NC |
| TW4-36 | 27.80 | 45.00 | 56 | Pumped Dry | 2439 | 2473 | 1.38 | 6.85 | 6.84 | 0.15 | 15.79 | 15.75 | 0.25 | NM | | NC | NM | | NC |
| TW4-37 | NA | Continuously pumped well | -- | | 4201 | | N/A | 6.60 | | N/A | 16.48 | | N/A | 411 | | N/A | 2.1 | | N/A |

MW-4, TW4-01, TW4-02, TW4-4, TW4-11, MW-26, TW4-19, TW4-20, TW4-21, TW4-22, TW4-24, TW4-25, and TW4-37 are continually pumped wells. TW4-22, TW4-24, and TW4-25 are pumped under the nitrate program.

TW4-03, TW4-06, TW4-10, TW4-12, TW4-14, TW4-26, TW4-27, TW4-29, TW4-30, TW4-31, TW4-33, TW4-34, TW4-35, and TW4-36 were pumped dry and sampled after recovery.

NM = Not Measured. The QAP does not require the measurement of redox potential or turbidity in wells that were purged to dryness.

RPD = Relative Percent Difference

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 | 7/25/2016 | 8/2/2016 | 8 | 14 | OK |
| Trip Blank | Chloroform | 7/25/2016 | 8/2/2016 | 8 | 14 | OK |
| Trip Blank | Chloromethane | 7/25/2016 | 8/2/2016 | 8 | 14 | OK |
| Trip Blank | Methylene chloride | 7/25/2016 | 8/2/2016 | 8 | 14 | OK |
| Trip Blank | Carbon tetrachloride | 8/2/2016 | 8/8/2016 | 6 | 14 | OK |
| Trip Blank | Chloroform | 8/2/2016 | 8/8/2016 | 6 | 14 | OK |
| Trip Blank | Chloromethane | 8/2/2016 | 8/8/2016 | 6 | 14 | OK |
| Trip Blank | Methylene chloride | 8/2/2016 | 8/8/2016 | 6 | 14 | OK |
| Trip Blank | Carbon tetrachloride | 8/17/2016 | 8/22/2016 | 5 | 14 | OK |
| Trip Blank | Chloroform | 8/17/2016 | 8/22/2016 | 5 | 14 | OK |
| Trip Blank | Chloromethane | 8/17/2016 | 8/22/2016 | 5 | 14 | OK |
| Trip Blank | Methylene chloride | 8/17/2016 | 8/22/2016 | 5 | 14 | OK |
| MW-04 | Chloride | 7/25/2016 | 8/1/2016 | 7 | 28 | OK |
| MW-04 | Carbon tetrachloride | 7/25/2016 | 8/1/2016 | 7 | 14 | OK |
| MW-04 | Chloroform | 7/25/2016 | 8/2/2016 | 8 | 14 | OK |
| MW-04 | Chloromethane | 7/25/2016 | 8/1/2016 | 7 | 14 | OK |
| MW-04 | Methylene chloride | 7/25/2016 | 8/1/2016 | 7 | 14 | OK |
| MW-04 | Nitrate/Nitrite (as N) | 7/25/2016 | 8/1/2016 | 7 | 28 | OK |
| MW-26 | Chloride | 7/25/2016 | 8/1/2016 | 7 | 28 | OK |
| MW-26 | Carbon tetrachloride | 7/25/2016 | 8/1/2016 | 7 | 14 | OK |
| MW-26 | Chloroform | 7/25/2016 | 8/2/2016 | 8 | 14 | OK |
| MW-26 | Chloromethane | 7/25/2016 | 8/1/2016 | 7 | 14 | OK |
| MW-26 | Methylene chloride | 7/25/2016 | 8/1/2016 | 7 | 14 | OK |
| MW-26 | Nitrate/Nitrite (as N) | 7/25/2016 | 8/1/2016 | 7 | 28 | OK |
| MW-32 | Chloride | 8/17/2016 | 8/22/2016 | 5 | 28 | OK |
| MW-32 | Carbon tetrachloride | 8/17/2016 | 8/22/2016 | 5 | 14 | OK |
| MW-32 | Chloroform | 8/17/2016 | 8/22/2016 | 5 | 14 | OK |
| MW-32 | Chloromethane | 8/17/2016 | 8/22/2016 | 5 | 14 | OK |
| MW-32 | Methylene chloride | 8/17/2016 | 8/22/2016 | 5 | 14 | OK |
| MW-32 | Nitrate/Nitrite (as N) | 8/17/2016 | 8/19/2016 | 2 | 28 | OK |
| TW4-01 | Chloride | 7/25/2016 | 8/1/2016 | 7 | 28 | OK |
| TW4-01 | Carbon tetrachloride | 7/25/2016 | 8/1/2016 | 7 | 14 | OK |
| TW4-01 | Chloroform | 7/25/2016 | 8/2/2016 | 8 | 14 | OK |
| TW4-01 | Chloromethane | 7/25/2016 | 8/1/2016 | 7 | 14 | OK |
| TW4-01 | Methylene chloride | 7/25/2016 | 8/1/2016 | 7 | 14 | OK |
| TW4-01 | Nitrate/Nitrite (as N) | 7/25/2016 | 8/1/2016 | 7 | 28 | OK |
| TW4-02 | Chloride | 7/25/2016 | 8/1/2016 | 7 | 28 | OK |
| TW4-02 | Carbon tetrachloride | 7/25/2016 | 8/1/2016 | 7 | 14 | OK |
| TW4-02 | Chloroform | 7/25/2016 | 8/2/2016 | 8 | 14 | OK |
| TW4-02 | Chloromethane | 7/25/2016 | 8/1/2016 | 7 | 14 | OK |
| TW4-02 | Methylene chloride | 7/25/2016 | 8/1/2016 | 7 | 14 | OK |
| TW4-02 | Nitrate/Nitrite (as N) | 7/25/2016 | 8/1/2016 | 7 | 28 | OK |
| TW4-03 | Chloride | 7/27/2016 | 8/1/2016 | 5 | 28 | OK |
| TW4-03 | Carbon tetrachloride | 7/27/2016 | 8/1/2016 | 5 | 14 | OK |
| TW4-03 | Chloroform | 7/27/2016 | 8/1/2016 | 5 | 14 | OK |
| TW4-03 | Chloromethane | 7/27/2016 | 8/1/2016 | 5 | 14 | OK |
| TW4-03 | Methylene chloride | 7/27/2016 | 8/1/2016 | 5 | 14 | OK |
| TW4-03 | Nitrate/Nitrite (as N) | 7/27/2016 | 8/1/2016 | 5 | 28 | OK |
| TW4-03R | Chloride | 7/26/2016 | 8/1/2016 | 6 | 28 | OK |
| TW4-03R | Carbon tetrachloride | 7/26/2016 | 8/1/2016 | 6 | 14 | OK |
| TW4-03R | Chloroform | 7/26/2016 | 8/1/2016 | 6 | 14 | OK |
| TW4-03R | Chloromethane | 7/26/2016 | 8/1/2016 | 6 | 14 | OK |
| TW4-03R | Methylene chloride | 7/26/2016 | 8/1/2016 | 6 | 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 |
|---|---|---|---|---|---|---|
| TW4-03R | Nitrate/Nitrite (as N) | 7/26/2016 | 8/1/2016 | 6 | 28 | OK |
| TW4-04 | Chloride | 7/25/2016 | 8/1/2016 | 7 | 28 | OK |
| TW4-04 | Carbon tetrachloride | 7/25/2016 | 8/1/2016 | 7 | 14 | OK |
| TW4-04 | Chloroform | 7/25/2016 | 8/2/2016 | 8 | 14 | OK |
| TW4-04 | Chloromethane | 7/25/2016 | 8/1/2016 | 7 | 14 | OK |
| TW4-04 | Methylene chloride | 7/25/2016 | 8/1/2016 | 7 | 14 | OK |
| TW4-04 | Nitrate/Nitrite (as N) | 7/25/2016 | 8/1/2016 | 7 | 28 | OK |
| TW4-05 | Chloride | 8/3/2016 | 8/10/2016 | 7 | 28 | OK |
| TW4-05 | Carbon tetrachloride | 8/3/2016 | 8/8/2016 | 5 | 14 | OK |
| TW4-05 | Chloroform | 8/3/2016 | 8/8/2016 | 5 | 14 | OK |
| TW4-05 | Chloromethane | 8/3/2016 | 8/8/2016 | 5 | 14 | OK |
| TW4-05 | Methylene chloride | 8/3/2016 | 8/8/2016 | 5 | 14 | OK |
| TW4-05 | Nitrate/Nitrite (as N) | 8/3/2016 | 8/5/2016 | 2 | 28 | OK |
| TW4-06 | Chloride | 8/4/2016 | 8/10/2016 | 6 | 28 | OK |
| TW4-06 | Carbon tetrachloride | 8/4/2016 | 8/8/2016 | 4 | 14 | OK |
| TW4-06 | Chloroform | 8/4/2016 | 8/9/2016 | 5 | 14 | OK |
| TW4-06 | Chloromethane | 8/4/2016 | 8/8/2016 | 4 | 14 | OK |
| TW4-06 | Methylene chloride | 8/4/2016 | 8/8/2016 | 4 | 14 | OK |
| TW4-06 | Nitrate/Nitrite (as N) | 8/4/2016 | 8/5/2016 | 1 | 28 | OK |
| TW4-07 | Chloride | 8/4/2016 | 8/10/2016 | 6 | 28 | OK |
| TW4-07 | Carbon tetrachloride | 8/4/2016 | 8/8/2016 | 4 | 14 | OK |
| TW4-07 | Chloroform | 8/4/2016 | 8/9/2016 | 5 | 14 | OK |
| TW4-07 | Chloromethane | 8/4/2016 | 8/8/2016 | 4 | 14 | OK |
| TW4-07 | Methylene chloride | 8/4/2016 | 8/8/2016 | 4 | 14 | OK |
| TW4-07 | Nitrate/Nitrite (as N) | 8/4/2016 | 8/5/2016 | 1 | 28 | OK |
| TW4-08 | Chloride | 8/4/2016 | 8/10/2016 | 6 | 28 | OK |
| TW4-08 | Carbon tetrachloride | 8/4/2016 | 8/8/2016 | 4 | 14 | OK |
| TW4-08 | Chloroform | 8/4/2016 | 8/9/2016 | 5 | 14 | OK |
| TW4-08 | Chloromethane | 8/4/2016 | 8/8/2016 | 4 | 14 | OK |
| TW4-08 | Methylene chloride | 8/4/2016 | 8/8/2016 | 4 | 14 | OK |
| TW4-08 | Nitrate/Nitrite (as N) | 8/4/2016 | 8/5/2016 | 1 | 28 | OK |
| TW4-09 | Chloride | 8/3/2016 | 8/10/2016 | 7 | 28 | OK |
| TW4-09 | Carbon tetrachloride | 8/3/2016 | 8/8/2016 | 5 | 14 | OK |
| TW4-09 | Chloroform | 8/3/2016 | 8/8/2016 | 5 | 14 | OK |
| TW4-09 | Chloromethane | 8/3/2016 | 8/8/2016 | 5 | 14 | OK |
| TW4-09 | Methylene chloride | 8/3/2016 | 8/8/2016 | 5 | 14 | OK |
| TW4-09 | Nitrate/Nitrite (as N) | 8/3/2016 | 8/5/2016 | 2 | 28 | OK |
| TW4-10 | Chloride | 8/4/2016 | 8/10/2016 | 6 | 28 | OK |
| TW4-10 | Carbon tetrachloride | 8/4/2016 | 8/8/2016 | 4 | 14 | OK |
| TW4-10 | Chloroform | 8/4/2016 | 8/9/2016 | 5 | 14 | OK |
| TW4-10 | Chloromethane | 8/4/2016 | 8/8/2016 | 4 | 14 | OK |
| TW4-10 | Methylene chloride | 8/4/2016 | 8/8/2016 | 4 | 14 | OK |
| TW4-10 | Nitrate/Nitrite (as N) | 8/4/2016 | 8/5/2016 | 1 | 28 | OK |
| TW4-11 | Chloride | 7/25/2016 | 8/1/2016 | 7 | 28 | OK |
| TW4-11 | Carbon tetrachloride | 7/25/2016 | 8/1/2016 | 7 | 14 | OK |
| TW4-11 | Chloroform | 7/25/2016 | 8/2/2016 | 8 | 14 | OK |
| TW4-11 | Chloromethane | 7/25/2016 | 8/1/2016 | 7 | 14 | OK |
| TW4-11 | Methylene chloride | 7/25/2016 | 8/1/2016 | 7 | 14 | OK |
| TW4-11 | Nitrate/Nitrite (as N) | 7/25/2016 | 8/1/2016 | 7 | 28 | OK |
| TW4-12 | Chloride | 7/27/2016 | 8/1/2016 | 5 | 28 | OK |
| TW4-12 | Carbon tetrachloride | 7/27/2016 | 8/1/2016 | 5 | 14 | OK |
| TW4-12 | Chloroform | 7/27/2016 | 8/1/2016 | 5 | 14 | OK |
| TW4-12 | Chloromethane | 7/27/2016 | 8/1/2016 | 5 | 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 |
|---|---|---|---|---|---|---|
| TW4-12 | Methylene chloride | 7/27/2016 | 8/1/2016 | 5 | 14 | OK |
| TW4-12 | Nitrate/Nitrite (as N) | 7/27/2016 | 8/1/2016 | 5 | 28 | OK |
| TW4-13 | Chloride | 7/28/2016 | 8/1/2016 | 4 | 28 | OK |
| TW4-13 | Carbon tetrachloride | 7/28/2016 | 8/1/2016 | 4 | 14 | OK |
| TW4-13 | Chloroform | 7/28/2016 | 8/1/2016 | 4 | 14 | OK |
| TW4-13 | Chloromethane | 7/28/2016 | 8/1/2016 | 4 | 14 | OK |
| TW4-13 | Methylene chloride | 7/28/2016 | 8/1/2016 | 4 | 14 | OK |
| TW4-13 | Nitrate/Nitrite (as N) | 7/28/2016 | 8/1/2016 | 4 | 28 | OK |
| TW4-14 | Chloride | 8/3/2016 | 8/10/2016 | 7 | 28 | OK |
| TW4-14 | Carbon tetrachloride | 8/3/2016 | 8/8/2016 | 5 | 14 | OK |
| TW4-14 | Chloroform | 8/3/2016 | 8/8/2016 | 5 | 14 | OK |
| TW4-14 | Chloromethane | 8/3/2016 | 8/8/2016 | 5 | 14 | OK |
| TW4-14 | Methylene chloride | 8/3/2016 | 8/8/2016 | 5 | 14 | OK |
| TW4-14 | Nitrate/Nitrite (as N) | 8/3/2016 | 8/5/2016 | 2 | 28 | OK |
| TW4-16 | Chloride | 8/3/2016 | 8/10/2016 | 7 | 28 | OK |
| TW4-16 | Carbon tetrachloride | 8/3/2016 | 8/8/2016 | 5 | 14 | OK |
| TW4-16 | Chloroform | 8/3/2016 | 8/8/2016 | 5 | 14 | OK |
| TW4-16 | Chloromethane | 8/3/2016 | 8/8/2016 | 5 | 14 | OK |
| TW4-16 | Methylene chloride | 8/3/2016 | 8/8/2016 | 5 | 14 | OK |
| TW4-16 | Nitrate/Nitrite (as N) | 8/3/2016 | 8/5/2016 | 2 | 28 | OK |
| TW4-18 | Chloride | 8/3/2016 | 8/10/2016 | 7 | 28 | OK |
| TW4-18 | Carbon tetrachloride | 8/3/2016 | 8/8/2016 | 5 | 14 | OK |
| TW4-18 | Chloroform | 8/3/2016 | 8/8/2016 | 5 | 14 | OK |
| TW4-18 | Chloromethane | 8/3/2016 | 8/8/2016 | 5 | 14 | OK |
| TW4-18 | Methylene chloride | 8/3/2016 | 8/8/2016 | 5 | 14 | OK |
| TW4-18 | Nitrate/Nitrite (as N) | 8/3/2016 | 8/5/2016 | 2 | 28 | OK |
| TW4-19 | Chloride | 7/25/2016 | 8/1/2016 | 7 | 28 | OK |
| TW4-19 | Carbon tetrachloride | 7/25/2016 | 8/1/2016 | 7 | 14 | OK |
| TW4-19 | Chloroform | 7/25/2016 | 8/2/2016 | 8 | 14 | OK |
| TW4-19 | Chloromethane | 7/25/2016 | 8/1/2016 | 7 | 14 | OK |
| TW4-19 | Methylene chloride | 7/25/2016 | 8/1/2016 | 7 | 14 | OK |
| TW4-19 | Nitrate/Nitrite (as N) | 7/25/2016 | 8/1/2016 | 7 | 28 | OK |
| TW4-20 | Chloride | 7/25/2016 | 8/1/2016 | 7 | 28 | OK |
| TW4-20 | Carbon tetrachloride | 7/25/2016 | 8/2/2016 | 8 | 14 | OK |
| TW4-20 | Chloroform | 7/25/2016 | 8/3/2016 | 9 | 14 | OK |
| TW4-20 | Chloromethane | 7/25/2016 | 8/2/2016 | 8 | 14 | OK |
| TW4-20 | Methylene chloride | 7/25/2016 | 8/2/2016 | 8 | 14 | OK |
| TW4-20 | Nitrate/Nitrite (as N) | 7/25/2016 | 8/1/2016 | 7 | 28 | OK |
| TW4-21 | Chloride | 7/25/2016 | 8/1/2016 | 7 | 28 | OK |
| TW4-21 | Carbon tetrachloride | 7/25/2016 | 8/1/2016 | 7 | 14 | OK |
| TW4-21 | Chloroform | 7/25/2016 | 8/2/2016 | 8 | 14 | OK |
| TW4-21 | Chloromethane | 7/25/2016 | 8/1/2016 | 7 | 14 | OK |
| TW4-21 | Methylene chloride | 7/25/2016 | 8/1/2016 | 7 | 14 | OK |
| TW4-21 | Nitrate/Nitrite (as N) | 7/25/2016 | 8/1/2016 | 7 | 28 | OK |
| TW4-22 | Chloride | 7/25/2016 | 8/1/2016 | 7 | 28 | OK |
| TW4-22 | Carbon tetrachloride | 7/25/2016 | 8/1/2016 | 7 | 14 | OK |
| TW4-22 | Chloroform | 7/25/2016 | 8/2/2016 | 8 | 14 | OK |
| TW4-22 | Chloromethane | 7/25/2016 | 8/1/2016 | 7 | 14 | OK |
| TW4-22 | Methylene chloride | 7/25/2016 | 8/1/2016 | 7 | 14 | OK |
| TW4-22 | Nitrate/Nitrite (as N) | 7/25/2016 | 8/1/2016 | 7 | 28 | OK |
| TW4-23 | Chloride | 8/3/2016 | 8/10/2016 | 7 | 28 | OK |
| TW4-23 | Carbon tetrachloride | 8/3/2016 | 8/8/2016 | 5 | 14 | OK |
| TW4-23 | Chloroform | 8/3/2016 | 8/8/2016 | 5 | 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 |
|---|---|---|---|---|---|---|
| TW4-23 | Chloromethane | 8/3/2016 | 8/8/2016 | 5 | 14 | OK |
| TW4-23 | Methylene chloride | 8/3/2016 | 8/8/2016 | 5 | 14 | OK |
| TW4-23 | Nitrate/Nitrite (as N) | 8/3/2016 | 8/5/2016 | 2 | 28 | OK |
| TW4-24 | Chloride | 7/25/2016 | 8/1/2016 | 7 | 28 | OK |
| TW4-24 | Carbon tetrachloride | 7/25/2016 | 8/1/2016 | 7 | 14 | OK |
| TW4-24 | Chloroform | 7/25/2016 | 8/1/2016 | 7 | 14 | OK |
| TW4-24 | Chloromethane | 7/25/2016 | 8/1/2016 | 7 | 14 | OK |
| TW4-24 | Methylene chloride | 7/25/2016 | 8/1/2016 | 7 | 14 | OK |
| TW4-24 | Nitrate/Nitrite (as N) | 7/25/2016 | 8/1/2016 | 7 | 28 | OK |
| TW4-25 | Chloride | 7/25/2016 | 8/1/2016 | 7 | 28 | OK |
| TW4-25 | Carbon tetrachloride | 7/25/2016 | 8/1/2016 | 7 | 14 | OK |
| TW4-25 | Chloroform | 7/25/2016 | 8/1/2016 | 7 | 14 | OK |
| TW4-25 | Chloromethane | 7/25/2016 | 8/1/2016 | 7 | 14 | OK |
| TW4-25 | Methylene chloride | 7/25/2016 | 8/1/2016 | 7 | 14 | OK |
| TW4-25 | Nitrate/Nitrite (as N) | 7/25/2016 | 8/1/2016 | 7 | 28 | OK |
| TW4-26 | Chloride | 8/3/2016 | 8/16/2016 | 13 | 28 | OK |
| TW4-26 | Carbon tetrachloride | 8/3/2016 | 8/8/2016 | 5 | 14 | OK |
| TW4-26 | Chloroform | 8/3/2016 | 8/8/2016 | 5 | 14 | OK |
| TW4-26 | Chloromethane | 8/3/2016 | 8/8/2016 | 5 | 14 | OK |
| TW4-26 | Methylene chloride | 8/3/2016 | 8/8/2016 | 5 | 14 | OK |
| TW4-26 | Nitrate/Nitrite (as N) | 8/3/2016 | 8/5/2016 | 2 | 28 | OK |
| TW4-27 | Chloride | 8/3/2016 | 8/10/2016 | 7 | 28 | OK |
| TW4-27 | Carbon tetrachloride | 8/3/2016 | 8/8/2016 | 5 | 14 | OK |
| TW4-27 | Chloroform | 8/3/2016 | 8/8/2016 | 5 | 14 | OK |
| TW4-27 | Chloromethane | 8/3/2016 | 8/8/2016 | 5 | 14 | OK |
| TW4-27 | Methylene chloride | 8/3/2016 | 8/8/2016 | 5 | 14 | OK |
| TW4-27 | Nitrate/Nitrite (as N) | 8/3/2016 | 8/5/2016 | 2 | 28 | OK |
| TW4-28 | Chloride | 7/27/2016 | 8/1/2016 | 5 | 28 | OK |
| TW4-28 | Carbon tetrachloride | 7/27/2016 | 8/1/2016 | 5 | 14 | OK |
| TW4-28 | Chloroform | 7/27/2016 | 8/1/2016 | 5 | 14 | OK |
| TW4-28 | Chloromethane | 7/27/2016 | 8/1/2016 | 5 | 14 | OK |
| TW4-28 | Methylene chloride | 7/27/2016 | 8/1/2016 | 5 | 14 | OK |
| TW4-28 | Nitrate/Nitrite (as N) | 7/27/2016 | 8/1/2016 | 5 | 28 | OK |
| TW4-29 | Chloride | 8/4/2016 | 8/10/2016 | 6 | 28 | OK |
| TW4-29 | Carbon tetrachloride | 8/4/2016 | 8/8/2016 | 4 | 14 | OK |
| TW4-29 | Chloroform | 8/4/2016 | 8/9/2016 | 5 | 14 | OK |
| TW4-29 | Chloromethane | 8/4/2016 | 8/8/2016 | 4 | 14 | OK |
| TW4-29 | Methylene chloride | 8/4/2016 | 8/8/2016 | 4 | 14 | OK |
| TW4-29 | Nitrate/Nitrite (as N) | 8/4/2016 | 8/5/2016 | 1 | 28 | OK |
| TW4-30 | Chloride | 8/3/2016 | 8/10/2016 | 7 | 28 | OK |
| TW4-30 | Carbon tetrachloride | 8/3/2016 | 8/8/2016 | 5 | 14 | OK |
| TW4-30 | Chloroform | 8/3/2016 | 8/8/2016 | 5 | 14 | OK |
| TW4-30 | Chloromethane | 8/3/2016 | 8/8/2016 | 5 | 14 | OK |
| TW4-30 | Methylene chloride | 8/3/2016 | 8/8/2016 | 5 | 14 | OK |
| TW4-30 | Nitrate/Nitrite (as N) | 8/3/2016 | 8/5/2016 | 2 | 28 | OK |
| TW4-31 | Chloride | 7/28/2016 | 8/1/2016 | 4 | 28 | OK |
| TW4-31 | Carbon tetrachloride | 7/28/2016 | 8/1/2016 | 4 | 14 | OK |
| TW4-31 | Chloroform | 7/28/2016 | 8/1/2016 | 4 | 14 | OK |
| TW4-31 | Chloromethane | 7/28/2016 | 8/1/2016 | 4 | 14 | OK |
| TW4-31 | Methylene chloride | 7/28/2016 | 8/1/2016 | 4 | 14 | OK |
| TW4-31 | Nitrate/Nitrite (as N) | 7/28/2016 | 8/1/2016 | 4 | 28 | OK |
| TW4-32 | Chloride | 7/28/2016 | 8/1/2016 | 4 | 28 | OK |
| TW4-32 | Carbon tetrachloride | 7/28/2016 | 8/1/2016 | 4 | 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 |
|---|---|---|---|---|---|---|
| TW4-32 | Chloroform | 7/28/2016 | 8/1/2016 | 4 | 14 | OK |
| TW4-32 | Chloromethane | 7/28/2016 | 8/1/2016 | 4 | 14 | OK |
| TW4-32 | Methylene chloride | 7/28/2016 | 8/1/2016 | 4 | 14 | OK |
| TW4-32 | Nitrate/Nitrite (as N) | 7/28/2016 | 8/1/2016 | 4 | 28 | OK |
| TW4-33 | Chloride | 8/4/2016 | 8/10/2016 | 6 | 28 | OK |
| TW4-33 | Carbon tetrachloride | 8/4/2016 | 8/8/2016 | 4 | 14 | OK |
| TW4-33 | Chloroform | 8/4/2016 | 8/8/2016 | 4 | 14 | OK |
| TW4-33 | Chloromethane | 8/4/2016 | 8/8/2016 | 4 | 14 | OK |
| TW4-33 | Methylene chloride | 8/4/2016 | 8/8/2016 | 4 | 14 | OK |
| TW4-33 | Nitrate/Nitrite (as N) | 8/4/2016 | 8/5/2016 | 1 | 28 | OK |
| TW4-34 | Chloride | 8/3/2016 | 8/10/2016 | 7 | 28 | OK |
| TW4-34 | Carbon tetrachloride | 8/3/2016 | 8/8/2016 | 5 | 14 | OK |
| TW4-34 | Chloroform | 8/3/2016 | 8/8/2016 | 5 | 14 | OK |
| TW4-34 | Chloromethane | 8/3/2016 | 8/8/2016 | 5 | 14 | OK |
| TW4-34 | Methylene chloride | 8/3/2016 | 8/8/2016 | 5 | 14 | OK |
| TW4-34 | Nitrate/Nitrite (as N) | 8/3/2016 | 8/5/2016 | 2 | 28 | OK |
| TW4-34R | Chloride | 8/2/2016 | 8/11/2016 | 9 | 28 | OK |
| TW4-34R | Carbon tetrachloride | 8/2/2016 | 8/8/2016 | 6 | 14 | OK |
| TW4-34R | Chloroform | 8/2/2016 | 8/8/2016 | 6 | 14 | OK |
| TW4-34R | Chloromethane | 8/2/2016 | 8/8/2016 | 6 | 14 | OK |
| TW4-34R | Methylene chloride | 8/2/2016 | 8/8/2016 | 6 | 14 | OK |
| TW4-34R | Nitrate/Nitrite (as N) | 8/2/2016 | 8/5/2016 | 3 | 28 | OK |
| TW4-35 | Chloride | 8/3/2016 | 8/10/2016 | 7 | 28 | OK |
| TW4-35 | Carbon tetrachloride | 8/3/2016 | 8/8/2016 | 5 | 14 | OK |
| TW4-35 | Chloroform | 8/3/2016 | 8/8/2016 | 5 | 14 | OK |
| TW4-35 | Chloromethane | 8/3/2016 | 8/8/2016 | 5 | 14 | OK |
| TW4-35 | Methylene chloride | 8/3/2016 | 8/8/2016 | 5 | 14 | OK |
| TW4-35 | Nitrate/Nitrite (as N) | 8/3/2016 | 8/5/2016 | 2 | 28 | OK |
| TW4-36 | Chloride | 7/28/2016 | 8/1/2016 | 4 | 28 | OK |
| TW4-36 | Carbon tetrachloride | 7/28/2016 | 8/1/2016 | 4 | 14 | OK |
| TW4-36 | Chloroform | 7/28/2016 | 8/1/2016 | 4 | 14 | OK |
| TW4-36 | Chloromethane | 7/28/2016 | 8/1/2016 | 4 | 14 | OK |
| TW4-36 | Methylene chloride | 7/28/2016 | 8/1/2016 | 4 | 14 | OK |
| TW4-36 | Nitrate/Nitrite (as N) | 7/28/2016 | 8/1/2016 | 4 | 28 | OK |
| TW4-37 | Chloride | 7/25/2016 | 8/1/2016 | 7 | 28 | OK |
| TW4-37 | Carbon tetrachloride | 7/25/2016 | 8/1/2016 | 7 | 14 | OK |
| TW4-37 | Chloroform | 7/25/2016 | 8/2/2016 | 8 | 14 | OK |
| TW4-37 | Chloromethane | 7/25/2016 | 8/1/2016 | 7 | 14 | OK |
| TW4-37 | Methylene chloride | 7/25/2016 | 8/1/2016 | 7 | 14 | OK |
| TW4-37 | Nitrate/Nitrite (as N) | 7/25/2016 | 8/1/2016 | 7 | 28 | OK |
| TW4-60 | Chloride | 7/25/2016 | 8/1/2016 | 7 | 28 | OK |
| TW4-60 | Carbon tetrachloride | 7/25/2016 | 8/3/2016 | 9 | 14 | OK |
| TW4-60 | Chloroform | 7/25/2016 | 8/3/2016 | 9 | 14 | OK |
| TW4-60 | Chloromethane | 7/25/2016 | 8/3/2016 | 9 | 14 | OK |
| TW4-60 | Methylene chloride | 7/25/2016 | 8/3/2016 | 9 | 14 | OK |
| TW4-60 | Nitrate/Nitrite (as N) | 7/25/2016 | 8/1/2016 | 7 | 28 | OK |
| TW4-65 | Chloride | 7/27/2016 | 8/1/2016 | 5 | 28 | OK |
| TW4-65 | Carbon tetrachloride | 7/27/2016 | 8/3/2016 | 7 | 14 | OK |
| TW4-65 | Chloroform | 7/27/2016 | 8/3/2016 | 7 | 14 | OK |
| TW4-65 | Chloromethane | 7/27/2016 | 8/3/2016 | 7 | 14 | OK |
| TW4-65 | Methylene chloride | 7/27/2016 | 8/3/2016 | 7 | 14 | OK |
| TW4-65 | Nitrate/Nitrite (as N) | 7/27/2016 | 8/1/2016 | 5 | 28 | OK |
| TW4-70 | Chloride | 8/3/2016 | 8/10/2016 | 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 |
|---|---|---|---|---|---|---|
| TW4-70 | Carbon tetrachloride | 8/3/2016 | 8/8/2016 | 5 | 14 | OK |
| TW4-70 | Chloroform | 8/3/2016 | 8/8/2016 | 5 | 14 | OK |
| TW4-70 | Chloromethane | 8/3/2016 | 8/8/2016 | 5 | 14 | OK |
| TW4-70 | Methylene chloride | 8/3/2016 | 8/8/2016 | 5 | 14 | OK |
| TW4-70 | Nitrate/Nitrite (as N) | 8/3/2016 | 8/5/2016 | 2 | 28 | OK |

Table I-3 Recipt Temperature Check

| Sample Batch | Wells in Batch | Temperature |
|---|---|---|
| 1607518 | MW-04, MW-26, TW4-01, TW4-02, TW4-03, TW4-03R, TW4-04, TW4-11, TW4-12, TW4-13, TW4-19, TW4-20, TW4-21, TW4-22, TW4-24, TW4-25, TW4-28, TW4-31, TW4-32, TW4-36, TW4-37, TW4-60, TW4-65, Trip Blank | 4.3 °C |
| 1608133 | TW4-05, TW4-06, TW4-07, TW4-08, TW4-09, TW4-10, TW4-14, TW4-16, TW4=18, TW4-23, TW4-26, TW4-27, TW4-29, TW4-30, TW4-33, TW4-34, TW4-34R, TW4-35, TW4-70 and Trip Blank | 2.6 °C |
| 1608399 | MW-32 and Trip Blank | 3.8 °C |

I-4 Analytical Method Check

| Parameter | Method | Method Used by Lab |
|---|---|---|
| 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 specificied in the QAP

I-5 Reporting Limit Check

| Location | Analyte | Lab Reporting Limit | Units | Qualifier | Dilution Factor | Required Reporting Limit | RL Check |
|---|---|---|---|---|---|---|---|
| Trip Blank | Carbon tetrachloride | 1 | ug/L | U | 1 | 1 | OK |
| Trip Blank | Chloroform | 1 | ug/L | U | 1 | 1 | OK |
| Trip Blank | Chloromethane | 1 | ug/L | U | 1 | 1 | OK |
| Trip Blank | Methylene chloride | 1 | ug/L | U | 1 | 1 | OK |
| Trip Blank | Carbon tetrachloride | 1 | ug/L | U | 1 | 1 | OK |
| Trip Blank | Chloroform | 1 | ug/L | U | 1 | 1 | OK |
| Trip Blank | Chloromethane | 1 | ug/L | U | 1 | 1 | OK |
| Trip Blank | Methylene chloride | 1 | ug/L | U | 1 | 1 | OK |
| Trip Blank | Carbon tetrachloride | 1 | ug/L | U | 1 | 1 | OK |
| Trip Blank | Chloroform | 1 | ug/L | U | 1 | 1 | OK |
| Trip Blank | Chloromethane | 1 | ug/L | U | 1 | 1 | OK |
| Trip Blank | Methylene chloride | 1 | ug/L | U | 1 | 1 | OK |
| MW-04 | Chloride | 10 | mg/L | | 10 | 1 | OK |
| MW-04 | Carbon tetrachloride | 1 | ug/L | U | 1 | 1 | OK |
| MW-04 | Chloroform | 50 | ug/L | | 50 | 1 | OK |
| MW-04 | Chloromethane | 1 | ug/L | U | 1 | 1 | OK |
| MW-04 | Methylene chloride | 1 | ug/L | U | 1 | 1 | OK |
| MW-04 | Nitrate/Nitrite (as N) | 0.1 | mg/L | | 10 | 0.1 | OK |
| MW-26 | Chloride | 10 | mg/L | | 10 | 1 | OK |
| MW-26 | Carbon tetrachloride | 1 | ug/L | U | 1 | 1 | OK |
| MW-26 | Chloroform | 50 | ug/L | | 50 | 1 | OK |
| MW-26 | Chloromethane | 1 | ug/L | U | 1 | 1 | OK |
| MW-26 | Methylene chloride | 1 | ug/L | | 1 | 1 | OK |
| MW-26 | Nitrate/Nitrite (as N) | 0.1 | mg/L | | 10 | 0.1 | OK |
| MW-32 | Chloride | 10 | mg/L | | 10 | 1 | OK |
| MW-32 | Carbon tetrachloride | 1 | ug/L | U | 1 | 1 | OK |
| MW-32 | Chloroform | 1 | ug/L | U | 1 | 1 | OK |
| MW-32 | Chloromethane | 1 | ug/L | U | 1 | 1 | OK |
| MW-32 | Methylene chloride | 1 | ug/L | U | 1 | 1 | OK |
| MW-32 | Nitrate/Nitrite (as N) | 0.1 | mg/L | U | 10 | 0.1 | OK |
| TW4-01 | Chloride | 10 | mg/L | | 10 | 1 | OK |
| TW4-01 | Carbon tetrachloride | 1 | ug/L | U | 1 | 1 | OK |
| TW4-01 | Chloroform | 50 | ug/L | | 50 | 1 | OK |
| TW4-01 | Chloromethane | 1 | ug/L | U | 1 | 1 | OK |
| TW4-01 | Methylene chloride | 1 | ug/L | U | 1 | 1 | OK |
| TW4-01 | Nitrate/Nitrite (as N) | 0.1 | mg/L | | 10 | 0.1 | OK |
| TW4-02 | Chloride | 10 | mg/L | | 10 | 1 | OK |
| TW4-02 | Carbon tetrachloride | 1 | ug/L | U | 1 | 1 | OK |
| TW4-02 | Chloroform | 50 | ug/L | | 50 | 1 | OK |
| TW4-02 | Chloromethane | 1 | ug/L | U | 1 | 1 | OK |
| TW4-02 | Methylene chloride | 1 | ug/L | U | 1 | 1 | OK |
| TW4-02 | Nitrate/Nitrite (as N) | 0.1 | mg/L | | 10 | 0.1 | OK |
| TW4-03 | Chloride | 10 | mg/L | | 10 | 1 | OK |
| TW4-03 | Carbon tetrachloride | 1 | ug/L | U | 1 | 1 | OK |
| TW4-03 | Chloroform | 1 | ug/L | U | 1 | 1 | OK |
| TW4-03 | Chloromethane | 1 | ug/L | U | 1 | 1 | OK |
| TW4-03 | Methylene chloride | 1 | ug/L | U | 1 | 1 | OK |
| TW4-03 | Nitrate/Nitrite (as N) | 0.1 | mg/L | | 10 | 0.1 | OK |
| TW4-03R | Chloride | 1 | mg/L | U | 1 | 1 | OK |
| TW4-03R | Carbon tetrachloride | 1 | ug/L | U | 1 | 1 | OK |
| TW4-03R | Chloroform | 1 | ug/L | U | 1 | 1 | OK |
| TW4-03R | Chloromethane | 1 | ug/L | U | 1 | 1 | OK |
| TW4-03R | Methylene chloride | 1 | ug/L | U | 1 | 1 | OK |
| TW4-03R | Nitrate/Nitrite (as N) | 0.1 | mg/L | U | 10 | 0.1 | OK |

I-5 Reporting Limit Check

| Location | Analyte | Lab Reporting Limit | Units | Qualifier | Dilution Factor | Required Reporting Limit | RL Check |
|---|---|---|---|---|---|---|---|
| TW4-04 | Chloride | 10 | mg/L | | 10 | 1 | OK |
| TW4-04 | Carbon tetrachloride | 1 | ug/L | U | 1 | 1 | OK |
| TW4-04 | Chloroform | 50 | ug/L | | 50 | 1 | OK |
| TW4-04 | Chloromethane | 1 | ug/L | U | 1 | 1 | OK |
| TW4-04 | Methylene chloride | 1 | ug/L | U | 1 | 1 | OK |
| TW4-04 | Nitrate/Nitrite (as N) | 0.1 | mg/L | | 10 | 0.1 | OK |
| TW4-05 | Chloride | 10 | mg/L | | 10 | 1 | OK |
| TW4-05 | Carbon tetrachloride | 1 | ug/L | U | 1 | 1 | OK |
| TW4-05 | Chloroform | 1 | ug/L | | 1 | 1 | OK |
| TW4-05 | Chloromethane | 1 | ug/L | U | 1 | 1 | OK |
| TW4-05 | Methylene chloride | 1 | ug/L | U | 1 | 1 | OK |
| TW4-05 | Nitrate/Nitrite (as N) | 0.1 | mg/L | | 10 | 0.1 | OK |
| TW4-06 | Chloride | 10 | mg/L | | 10 | 1 | OK |
| TW4-06 | Carbon tetrachloride | 1 | ug/L | U | 1 | 1 | OK |
| TW4-06 | Chloroform | 10 | ug/L | | 10 | 1 | OK |
| TW4-06 | Chloromethane | 1 | ug/L | U | 1 | 1 | OK |
| TW4-06 | Methylene chloride | 1 | ug/L | U | 1 | 1 | OK |
| TW4-06 | Nitrate/Nitrite (as N) | 0.1 | mg/L | | 10 | 0.1 | OK |
| TW4-07 | Chloride | 10 | mg/L | | 10 | 1 | OK |
| TW4-07 | Carbon tetrachloride | 1 | ug/L | U | 1 | 1 | OK |
| TW4-07 | Chloroform | 50 | ug/L | | 50 | 1 | OK |
| TW4-07 | Chloromethane | 1 | ug/L | U | 1 | 1 | OK |
| TW4-07 | Methylene chloride | 1 | ug/L | U | 1 | 1 | OK |
| TW4-07 | Nitrate/Nitrite (as N) | 0.1 | mg/L | | 10 | 0.1 | OK |
| TW4-08 | Chloride | 10 | mg/L | | 10 | 1 | OK |
| TW4-08 | Carbon tetrachloride | 1 | ug/L | U | 1 | 1 | OK |
| TW4-08 | Chloroform | 10 | ug/L | | 10 | 1 | OK |
| TW4-08 | Chloromethane | 1 | ug/L | U | 1 | 1 | OK |
| TW4-08 | Methylene chloride | 1 | ug/L | U | 1 | 1 | OK |
| TW4-08 | Nitrate/Nitrite (as N) | 0.1 | mg/L | | 10 | 0.1 | OK |
| TW4-09 | Chloride | 10 | mg/L | | 10 | 1 | OK |
| TW4-09 | Carbon tetrachloride | 1 | ug/L | U | 1 | 1 | OK |
| TW4-09 | Chloroform | 1 | ug/L | | 1 | 1 | OK |
| TW4-09 | Chloromethane | 1 | ug/L | U | 1 | 1 | OK |
| TW4-09 | Methylene chloride | 1 | ug/L | U | 1 | 1 | OK |
| TW4-09 | Nitrate/Nitrite (as N) | 0.1 | mg/L | | 10 | 0.1 | OK |
| TW4-10 | Chloride | 10 | mg/L | | 10 | 1 | OK |
| TW4-10 | Carbon tetrachloride | 1 | ug/L | U | 1 | 1 | OK |
| TW4-10 | Chloroform | 50 | ug/L | | 50 | 1 | OK |
| TW4-10 | Chloromethane | 1 | ug/L | U | 1 | 1 | OK |
| TW4-10 | Methylene chloride | 1 | ug/L | U | 1 | 1 | OK |
| TW4-10 | Nitrate/Nitrite (as N) | 0.1 | mg/L | | 10 | 0.1 | OK |
| TW4-11 | Chloride | 10 | mg/L | | 10 | 1 | OK |
| TW4-11 | Carbon tetrachloride | 1 | ug/L | U | 1 | 1 | OK |
| TW4-11 | Chloroform | 50 | ug/L | | 50 | 1 | OK |
| TW4-11 | Chloromethane | 1 | ug/L | U | 1 | 1 | OK |
| TW4-11 | Methylene chloride | 1 | ug/L | U | 1 | 1 | OK |
| TW4-11 | Nitrate/Nitrite (as N) | 0.1 | mg/L | | 10 | 0.1 | OK |
| TW4-12 | Chloride | 10 | mg/L | | 10 | 1 | OK |
| TW4-12 | Carbon tetrachloride | 1 | ug/L | U | 1 | 1 | OK |
| TW4-12 | Chloroform | 1 | ug/L | U | 1 | 1 | OK |
| TW4-12 | Chloromethane | 1 | ug/L | U | 1 | 1 | OK |
| TW4-12 | Methylene chloride | 1 | ug/L | U | 1 | 1 | OK |
| TW4-12 | Nitrate/Nitrite (as N) | 0.2 | mg/L | | 20 | 0.1 | OK |

I-5 Reporting Limit Check

| Location | Analyte | Lab Reporting Limit | Units | Qualifier | Dilution Factor | Required Reporting Limit | RL Check |
|---|---|---|---|---|---|---|---|
| TW4-13 | Chloride | 10 | mg/L | | 10 | 1 | OK |
| TW4-13 | Carbon tetrachloride | 1 | ug/L | U | 1 | 1 | OK |
| TW4-13 | Chloroform | 1 | ug/L | U | 1 | 1 | OK |
| TW4-13 | Chloromethane | 1 | ug/L | U | 1 | 1 | OK |
| TW4-13 | Methylene chloride | 1 | ug/L | U | 1 | 1 | OK |
| TW4-13 | Nitrate/Nitrite (as N) | 0.1 | mg/L | | 10 | 0.1 | OK |
| TW4-14 | Chloride | 10 | mg/L | | 10 | 1 | OK |
| TW4-14 | Carbon tetrachloride | 1 | ug/L | U | 1 | 1 | OK |
| TW4-14 | Chloroform | 1 | ug/L | | 1 | 1 | OK |
| TW4-14 | Chloromethane | 1 | ug/L | U | 1 | 1 | OK |
| TW4-14 | Methylene chloride | 1 | ug/L | | 1 | 1 | OK |
| TW4-14 | Nitrate/Nitrite (as N) | 0.1 | mg/L | | 10 | 0.1 | OK |
| TW4-16 | Chloride | 10 | mg/L | | 10 | 1 | OK |
| TW4-16 | Carbon tetrachloride | 1 | ug/L | U | 1 | 1 | OK |
| TW4-16 | Chloroform | 1 | ug/L | | 1 | 1 | OK |
| TW4-16 | Chloromethane | 1 | ug/L | U | 1 | 1 | OK |
| TW4-16 | Methylene chloride | 1 | ug/L | U | 1 | 1 | OK |
| TW4-16 | Nitrate/Nitrite (as N) | 0.1 | mg/L | | 10 | 0.1 | OK |
| TW4-18 | Chloride | 10 | mg/L | | 10 | 1 | OK |
| TW4-18 | Carbon tetrachloride | 1 | ug/L | U | 1 | 1 | OK |
| TW4-18 | Chloroform | 1 | ug/L | | 1 | 1 | OK |
| TW4-18 | Chloromethane | 1 | ug/L | U | 1 | 1 | OK |
| TW4-18 | Methylene chloride | 1 | ug/L | U | 1 | 1 | OK |
| TW4-18 | Nitrate/Nitrite (as N) | 0.1 | mg/L | | 10 | 0.1 | OK |
| TW4-19 | Chloride | 100 | mg/L | | 100 | 1 | OK |
| TW4-19 | Carbon tetrachloride | 1 | ug/L | | 1 | 1 | OK |
| TW4-19 | Chloroform | 100 | ug/L | | 100 | 1 | OK |
| TW4-19 | Chloromethane | 1 | ug/L | U | 1 | 1 | OK |
| TW4-19 | Methylene chloride | 1 | ug/L | U | 1 | 1 | OK |
| TW4-19 | Nitrate/Nitrite (as N) | 0.1 | mg/L | | 10 | 0.1 | OK |
| TW4-20 | Chloride | 100 | mg/L | | 100 | 1 | OK |
| TW4-20 | Carbon tetrachloride | 1 | ug/L | | 1 | 1 | OK |
| TW4-20 | Chloroform | 1000 | ug/L | | 1000 | 1 | OK |
| TW4-20 | Chloromethane | 1 | ug/L | U | 1 | 1 | OK |
| TW4-20 | Methylene chloride | 1 | ug/L | U | 1 | 1 | OK |
| TW4-20 | Nitrate/Nitrite (as N) | 0.1 | mg/L | | 10 | 0.1 | OK |
| TW4-21 | Chloride | 100 | mg/L | | 100 | 1 | OK |
| TW4-21 | Carbon tetrachloride | 1 | ug/L | U | 1 | 1 | OK |
| TW4-21 | Chloroform | 10 | ug/L | | 10 | 1 | OK |
| TW4-21 | Chloromethane | 1 | ug/L | U | 1 | 1 | OK |
| TW4-21 | Methylene chloride | 1 | ug/L | U | 1 | 1 | OK |
| TW4-21 | Nitrate/Nitrite (as N) | 0.1 | mg/L | | 10 | 0.1 | OK |
| TW4-22 | Chloride | 100 | mg/L | | 100 | 1 | OK |
| TW4-22 | Carbon tetrachloride | 1 | ug/L | U | 1 | 1 | OK |
| TW4-22 | Chloroform | 100 | ug/L | | 100 | 1 | OK |
| TW4-22 | Chloromethane | 1 | ug/L | U | 1 | 1 | OK |
| TW4-22 | Methylene chloride | 1 | ug/L | U | 1 | 1 | OK |
| TW4-22 | Nitrate/Nitrite (as N) | 0.5 | mg/L | | 50 | 0.1 | OK |
| TW4-23 | Chloride | 10 | mg/L | | 10 | 1 | OK |
| TW4-23 | Carbon tetrachloride | 1 | ug/L | U | 1 | 1 | OK |
| TW4-23 | Chloroform | 1 | ug/L | U | 1 | 1 | OK |
| TW4-23 | Chloromethane | 1 | ug/L | U | 1 | 1 | OK |
| TW4-23 | Methylene chloride | 1 | ug/L | U | 1 | 1 | OK |
| TW4-23 | Nitrate/Nitrite (as N) | 0.1 | mg/L | U | 10 | 0.1 | OK |

I-5 Reporting Limit Check

| Location | Analyte | Lab Reporting Limit | Units | Qualifier | Dilution Factor | Required Reporting Limit | RL Check |
|---|---|---|---|---|---|---|---|
| TW4-24 | Chloride | 100 | mg/L | | 100 | 1 | OK |
| TW4-24 | Carbon tetrachloride | 1 | ug/L | U | 1 | 1 | OK |
| TW4-24 | Chloroform | 1 | ug/L | | 1 | 1 | OK |
| TW4-24 | Chloromethane | 1 | ug/L | U | 1 | 1 | OK |
| TW4-24 | Methylene chloride | 1 | ug/L | U | 1 | 1 | OK |
| TW4-24 | Nitrate/Nitrite (as N) | 0.5 | mg/L | | 50 | 0.1 | OK |
| TW4-25 | Chloride | 10 | mg/L | | 10 | 1 | OK |
| TW4-25 | Carbon tetrachloride | 1 | ug/L | U | 1 | 1 | OK |
| TW4-25 | Chloroform | 1 | ug/L | U | 1 | 1 | OK |
| TW4-25 | Chloromethane | 1 | ug/L | U | 1 | 1 | OK |
| TW4-25 | Methylene chloride | 1 | ug/L | U | 1 | 1 | OK |
| TW4-25 | Nitrate/Nitrite (as N) | 0.1 | mg/L | | 10 | 0.1 | OK |
| TW4-26 | Chloride | 1 | mg/L | | 1 | 1 | OK |
| TW4-26 | Carbon tetrachloride | 1 | ug/L | U | 1 | 1 | OK |
| TW4-26 | Chloroform | 1 | ug/L | | 1 | 1 | OK |
| TW4-26 | Chloromethane | 1 | ug/L | U | 1 | 1 | OK |
| TW4-26 | Methylene chloride | 1 | ug/L | U | 1 | 1 | OK |
| TW4-26 | Nitrate/Nitrite (as N) | 0.1 | mg/L | | 10 | 0.1 | OK |
| TW4-27 | Chloride | 10 | mg/L | | 10 | 1 | OK |
| TW4-27 | Carbon tetrachloride | 1 | ug/L | U | 1 | 1 | OK |
| TW4-27 | Chloroform | 1 | ug/L | | 1 | 1 | OK |
| TW4-27 | Chloromethane | 1 | ug/L | U | 1 | 1 | OK |
| TW4-27 | Methylene chloride | 1 | ug/L | U | 1 | 1 | OK |
| TW4-27 | Nitrate/Nitrite (as N) | 0.2 | mg/L | | 20 | 0.1 | OK |
| TW4-28 | Chloride | 10 | mg/L | | 10 | 1 | OK |
| TW4-28 | Carbon tetrachloride | 1 | ug/L | U | 1 | 1 | OK |
| TW4-28 | Chloroform | 1 | ug/L | U | 1 | 1 | OK |
| TW4-28 | Chloromethane | 1 | ug/L | U | 1 | 1 | OK |
| TW4-28 | Methylene chloride | 1 | ug/L | U | 1 | 1 | OK |
| TW4-28 | Nitrate/Nitrite (as N) | 0.2 | mg/L | | 20 | 0.1 | OK |
| TW4-29 | Chloride | 10 | mg/L | | 10 | 1 | OK |
| TW4-29 | Carbon tetrachloride | 1 | ug/L | U | 1 | 1 | OK |
| TW4-29 | Chloroform | 10 | ug/L | | 10 | 1 | OK |
| TW4-29 | Chloromethane | 1 | ug/L | U | 1 | 1 | OK |
| TW4-29 | Methylene chloride | 1 | ug/L | U | 1 | 1 | OK |
| TW4-29 | Nitrate/Nitrite (as N) | 0.1 | mg/L | | 10 | 0.1 | OK |
| TW4-30 | Chloride | 10 | mg/L | | 10 | 1 | OK |
| TW4-30 | Carbon tetrachloride | 1 | ug/L | U | 1 | 1 | OK |
| TW4-30 | Chloroform | 1 | ug/L | | 1 | 1 | OK |
| TW4-30 | Chloromethane | 1 | ug/L | U | 1 | 1 | OK |
| TW4-30 | Methylene chloride | 1 | ug/L | U | 1 | 1 | OK |
| TW4-30 | Nitrate/Nitrite (as N) | 0.1 | mg/L | | 10 | 0.1 | OK |
| TW4-31 | Chloride | 10 | mg/L | | 10 | 1 | OK |
| TW4-31 | Carbon tetrachloride | 1 | ug/L | U | 1 | 1 | OK |
| TW4-31 | Chloroform | 1 | ug/L | U | 1 | 1 | OK |
| TW4-31 | Chloromethane | 1 | ug/L | U | 1 | 1 | OK |
| TW4-31 | Methylene chloride | 1 | ug/L | U | 1 | 1 | OK |
| TW4-31 | Nitrate/Nitrite (as N) | 0.1 | mg/L | | 10 | 0.1 | OK |
| TW4-32 | Chloride | 10 | mg/L | | 10 | 1 | OK |
| TW4-32 | Carbon tetrachloride | 1 | ug/L | U | 1 | 1 | OK |
| TW4-32 | Chloroform | 1 | ug/L | U | 1 | 1 | OK |
| TW4-32 | Chloromethane | 1 | ug/L | U | 1 | 1 | OK |
| TW4-32 | Methylene chloride | 1 | ug/L | U | 1 | 1 | OK |
| TW4-32 | Nitrate/Nitrite (as N) | 0.1 | mg/L | | 10 | 0.1 | OK |

I-5 Reporting Limit Check

| Location | Analyte | Lab Reporting Limit | Units | Qualifier | Dilution Factor | Required Reporting Limit | RL Check |
|---|---|---|---|---|---|---|---|
| TW4-33 | Chloride | 10 | mg/L | | 10 | 1 | OK |
| TW4-33 | Carbon tetrachloride | 1 | ug/L | U | 1 | 1 | OK |
| TW4-33 | Chloroform | 1 | ug/L | | 1 | 1 | OK |
| TW4-33 | Chloromethane | 1 | ug/L | U | 1 | 1 | OK |
| TW4-33 | Methylene chloride | 1 | ug/L | U | 1 | 1 | OK |
| TW4-33 | Nitrate/Nitrite (as N) | 0.1 | mg/L | | 10 | 0.1 | OK |
| TW4-34 | Chloride | 10 | mg/L | | 10 | 1 | OK |
| TW4-34 | Carbon tetrachloride | 1 | ug/L | U | 1 | 1 | OK |
| TW4-34 | Chloroform | 1 | ug/L | U | 1 | 1 | OK |
| TW4-34 | Chloromethane | 1 | ug/L | U | 1 | 1 | OK |
| TW4-34 | Methylene chloride | 1 | ug/L | U | 1 | 1 | OK |
| TW4-34 | Nitrate/Nitrite (as N) | 0.1 | mg/L | | 10 | 0.1 | OK |
| TW4-34R | Chloride | 1 | mg/L | U | 1 | 1 | OK |
| TW4-34R | Carbon tetrachloride | 1 | ug/L | U | 1 | 1 | OK |
| TW4-34R | Chloroform | 1 | ug/L | U | 1 | 1 | OK |
| TW4-34R | Chloromethane | 1 | ug/L | U | 1 | 1 | OK |
| TW4-34R | Methylene chloride | 1 | ug/L | U | 1 | 1 | OK |
| TW4-34R | Nitrate/Nitrite (as N) | 0.1 | mg/L | U | 10 | 0.1 | OK |
| TW4-35 | Chloride | 10 | mg/L | | 10 | 1 | OK |
| TW4-35 | Carbon tetrachloride | 1 | ug/L | U | 1 | 1 | OK |
| TW4-35 | Chloroform | 1 | ug/L | U | 1 | 1 | OK |
| TW4-35 | Chloromethane | 1 | ug/L | U | 1 | 1 | OK |
| TW4-35 | Methylene chloride | 1 | ug/L | U | 1 | 1 | OK |
| TW4-35 | Nitrate/Nitrite (as N) | 0.1 | mg/L | | 10 | 0.1 | OK |
| TW4-36 | Chloride | 10 | mg/L | | 10 | 1 | OK |
| TW4-36 | Carbon tetrachloride | 1 | ug/L | U | 1 | 1 | OK |
| TW4-36 | Chloroform | 1 | ug/L | U | 1 | 1 | OK |
| TW4-36 | Chloromethane | 1 | ug/L | U | 1 | 1 | OK |
| TW4-36 | Methylene chloride | 1 | ug/L | U | 1 | 1 | OK |
| TW4-36 | Nitrate/Nitrite (as N) | 0.1 | mg/L | U | 10 | 0.1 | OK |
| TW4-37 | Chloride | 100 | mg/L | | 100 | 1 | OK |
| TW4-37 | Carbon tetrachloride | 1 | ug/L | | 1 | 1 | OK |
| TW4-37 | Chloroform | 100 | ug/L | | 100 | 1 | OK |
| TW4-37 | Chloromethane | 1 | ug/L | U | 1 | 1 | OK |
| TW4-37 | Methylene chloride | 1 | ug/L | U | 1 | 1 | OK |
| TW4-37 | Nitrate/Nitrite (as N) | 0.2 | mg/L | | 20 | 0.1 | OK |
| TW4-60 | Chloride | 1 | mg/L | U | 1 | 1 | OK |
| TW4-60 | Carbon tetrachloride | 1 | ug/L | U | 1 | 1 | OK |
| TW4-60 | Chloroform | 1 | ug/L | U | 1 | 1 | OK |
| TW4-60 | Chloromethane | 1 | ug/L | U | 1 | 1 | OK |
| TW4-60 | Methylene chloride | 1 | ug/L | U | 1 | 1 | OK |
| TW4-60 | Nitrate/Nitrite (as N) | 0.1 | mg/L | U | 10 | 0.1 | OK |
| TW4-65 | Chloride | 10 | mg/L | | 10 | 1 | OK |
| TW4-65 | Carbon tetrachloride | 1 | ug/L | U | 1 | 1 | OK |
| TW4-65 | Chloroform | 1 | ug/L | U | 1 | 1 | OK |
| TW4-65 | Chloromethane | 1 | ug/L | U | 1 | 1 | OK |
| TW4-65 | Methylene chloride | 1 | ug/L | U | 1 | 1 | OK |
| TW4-65 | Nitrate/Nitrite (as N) | 0.2 | mg/L | | 20 | 0.1 | OK |
| TW4-70 | Chloride | 10 | mg/L | | 10 | 1 | OK |
| TW4-70 | Carbon tetrachloride | 1 | ug/L | U | 1 | 1 | OK |
| TW4-70 | Chloroform | 1 | ug/L | U | 1 | 1 | OK |
| TW4-70 | Chloromethane | 1 | ug/L | U | 1 | 1 | OK |
| TW4-70 | Methylene chloride | 1 | ug/L | U | 1 | 1 | OK |
| TW4-70 | Nitrate/Nitrite (as N) | 0.1 | mg/L | U | 10 | 0.1 | OK |

I-6 Trip Blank Evaluation

| Lab Report | Constituent | Result | |
|---|---|---|---|
| 1607518 | Carbon tetrachloride | ND | ug/L |
| | Chloroform | ND | ug/L |
| | Chloromethane | ND | ug/L |
| | Methylene chloride | ND | ug/L |
| 1608133 | Carbon tetrachloride | ND | ug/L |
| | Chloroform | ND | ug/L |
| | Chloromethane | ND | ug/L |
| | Methylene chloride | ND | ug/L |
| 1608399 | Carbon tetrachloride | ND | ug/L |
| | Chloroform | ND | ug/L |
| | Chloromethane | ND | ug/L |
| | Methylene chloride | ND | ug/L |

I-7 QA/QC Evaluation for Sample Duplicates

| Constituent | TW4-28 | TW4-65 | %RPD |
|---|---|---|---|
| Chloride (mg/L) | 70.1 | 70.9 | 1.1 |
| Nitrate + Nitrite (as N) | 31.3 | 35.6 | 12.9 |
| Carbon Tetrachloride | ND | ND | NC |
| Chloroform | ND | ND | NC |
| Chloromethane | ND | ND | NC |
| Dichloromethane (Methylene Chloride) | ND | ND | NC |

| Constituent | TW4-23 | TW4-70 | %RPD |
|---|---|---|---|
| Chloride (mg/L) | 49.6 | 48.3 | 2.7 |
| 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 |

RPD = Relative Percent Difference
ND = The analyte was not detected

I-8 QC Control Limits for Analysis and Blanks

**Method Blank Detections**

All Method Blanks for the quarter were non-detect.

**Matrix Spike % Recovery Comparison**

| Lab Report | Lab Sample ID | Well | Analyte | MS %REC | MSD %REC | REC Range | RPD |
|---|---|---|---|---|---|---|---|
| 1607518 | 1607518-009BMSD | TW4-25 | Nitrate | 103 | 117 | 90 - 110 | 10.7 |

**Laboratory Control Sample**

All Laboratory Control Sample recoveries were within acceptance limits for the quarter.

**Surrogate % Recovery**

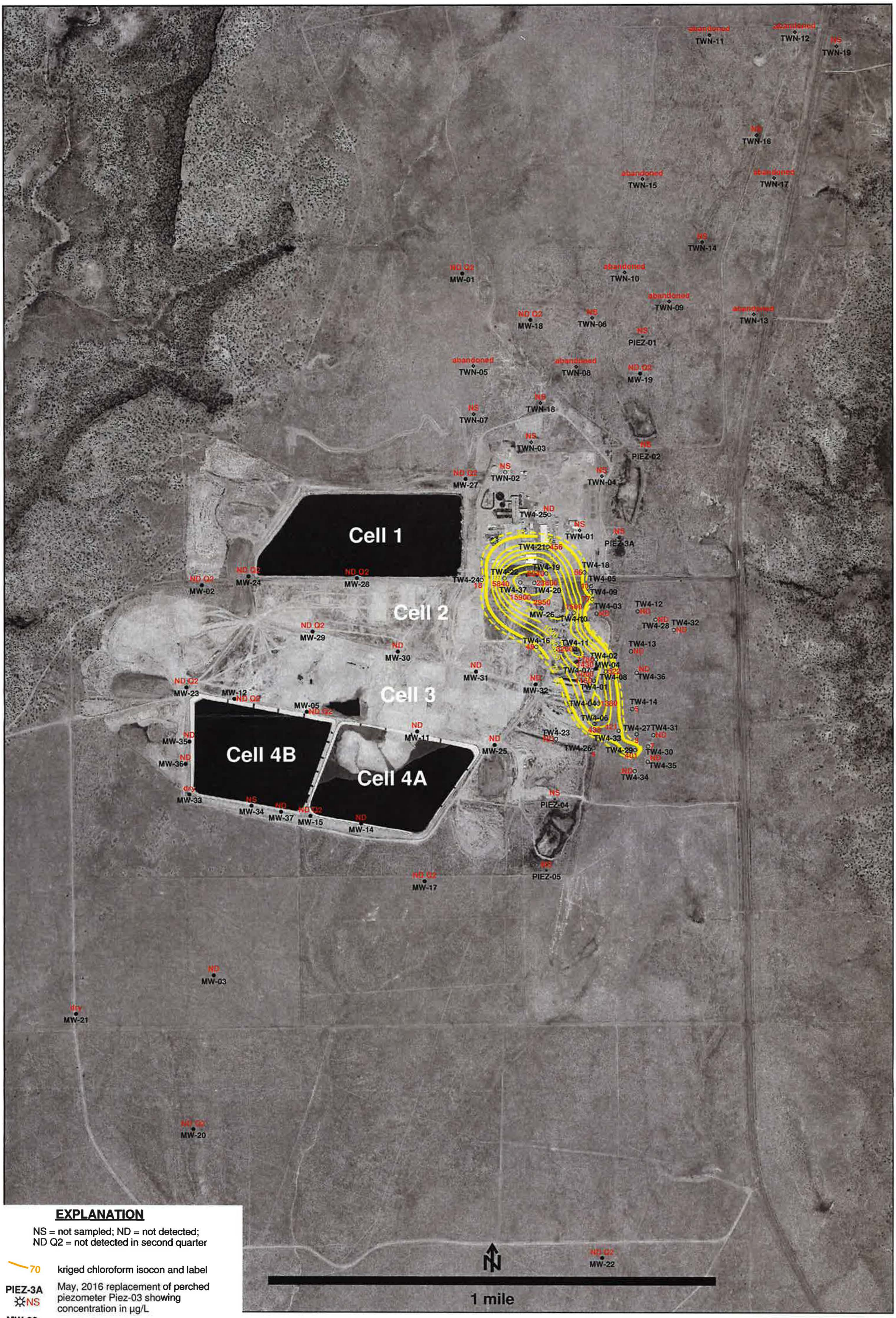
All Surrogate recoveries were within acceptance limits for the quarter.

I-9 Rinsate Evaluation

All rinsate blanks results were nondetect for the quarter.

Tab J

Kriged Current Quarter Chloroform Isoconcentration Map




## EXPLANATION

NS = not sampled; ND = not detected;
ND Q2 = not detected in second quarter

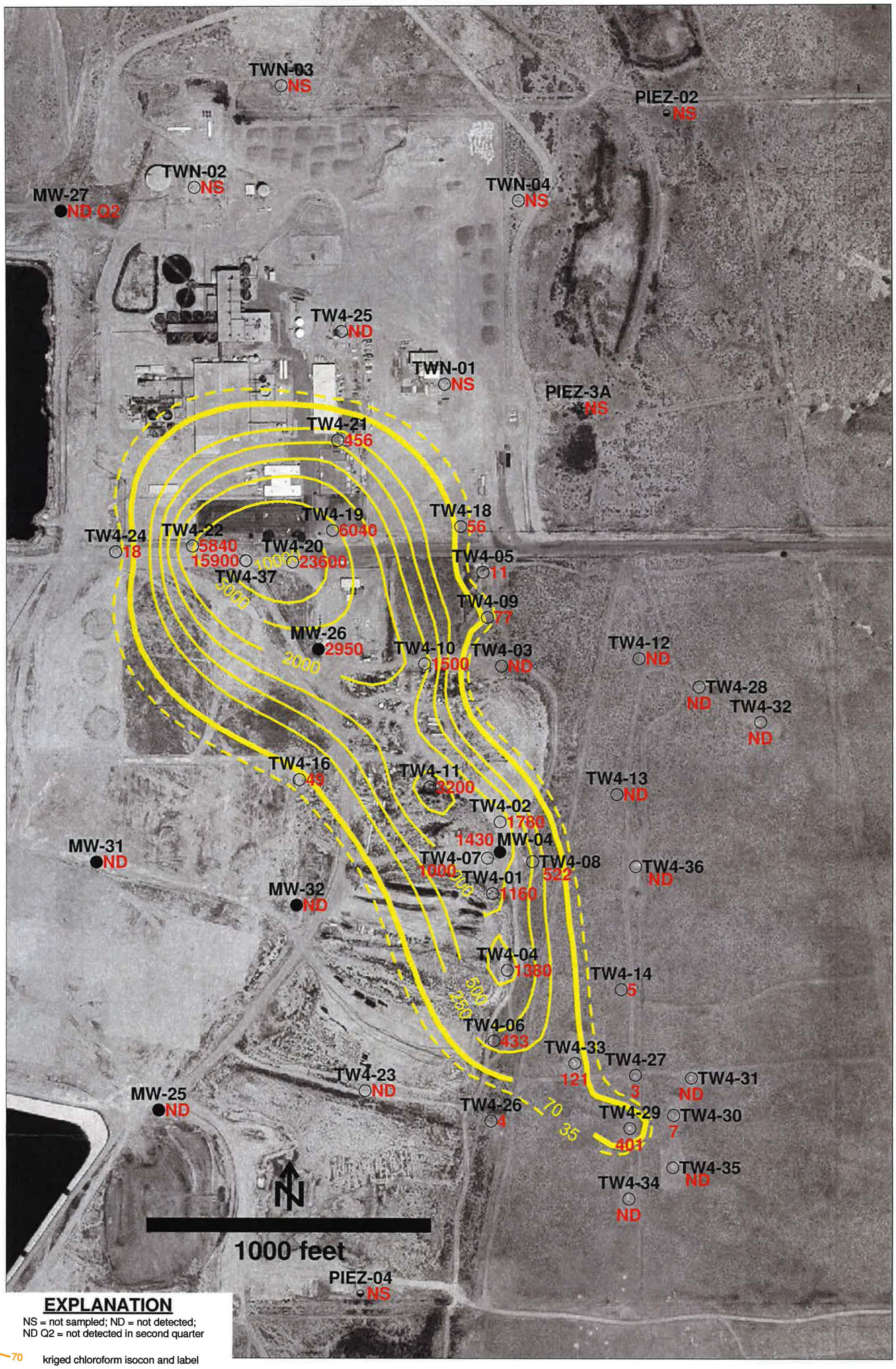
| | |
|---|---|
| 70 | kriged chloroform isocon and label |
| PIEZ-3A NS | May, 2016 replacement of perched piezometer Piez-03 showing concentration in µg/L |
| MW-32 ND | perched monitoring well showing concentration in µg/L |
| TW4-7 1000 | temporary perched monitoring well showing concentration in µg/L |
| TWN-1 NS | temporary perched nitrate monitoring well (not sampled) |
| PIEZ-1 NS | perched piezometer (not sampled) |

NOTE: MW-4, MW-26, TW4-1, TW4-2, TW4-4, TW4-11,TW4-19, TW4-20, TW4-21, and TW4-37 are chloroform pumping wells; TW4-22, TW4-24, TW4-25, and TWN-2 are nitrate pumping wells

HYDRO GEO CHEM, INC.

# KRIGED 3rd QUARTER, 2016 CHLOROFORM (µg/L) WHITE MESA SITE

| APPROVED | DATE | REFERENCE | FIGURE |
|---|---|---|---|
| | | H:/718000/Nov16/chloroform/Uchl0916.srf | J-1 |




## EXPLANATION

NS = not sampled; ND = not detected;
ND Q2 = not detected in second quarter

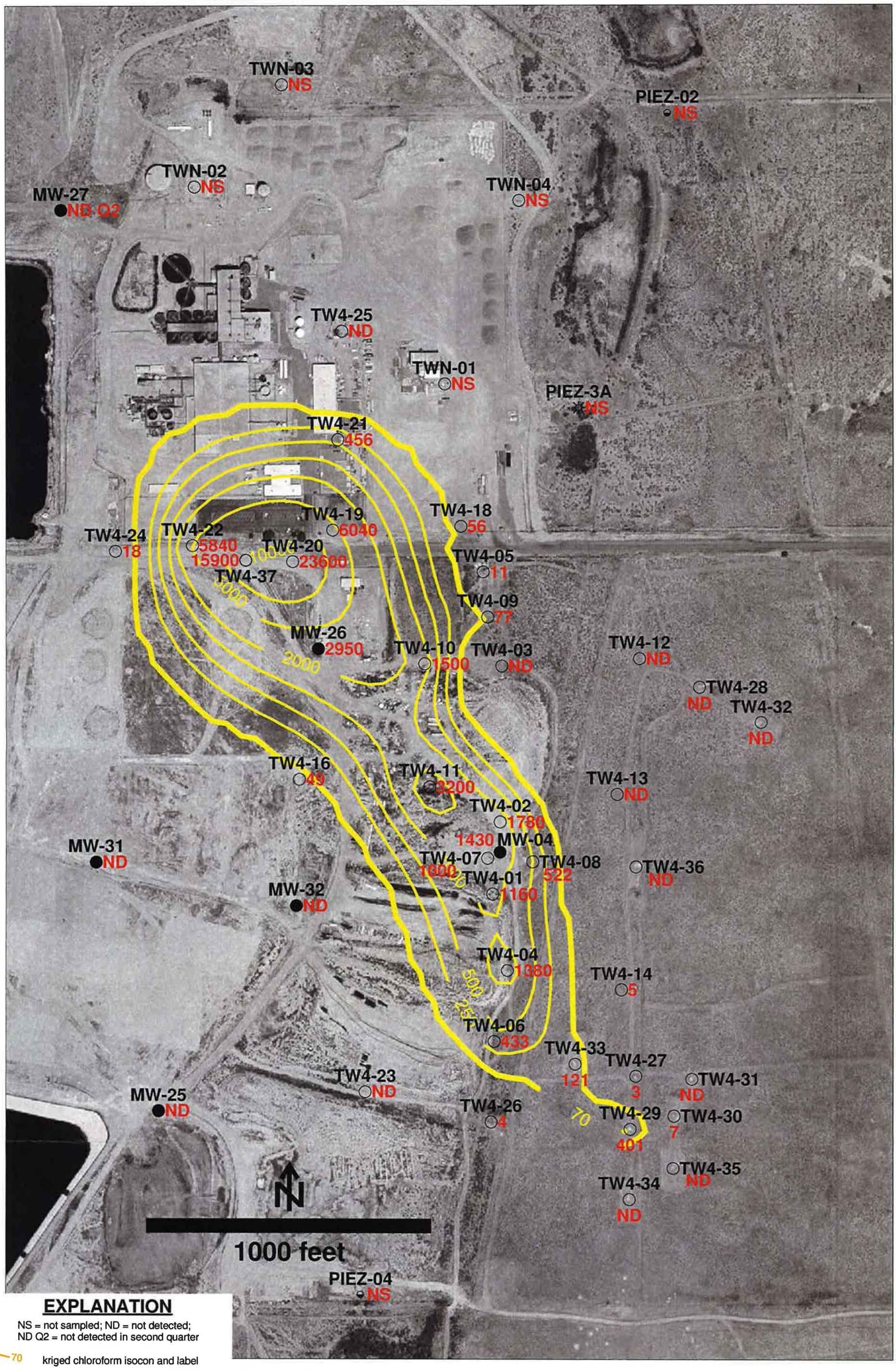
| | |
|---|---|
| 70 | kriged chloroform isocon and label |
| PIEZ-3A ☼ NS | May, 2016 replacement of perched piezometer Piez-03 (not sampled) |
| MW-32 ● ND | perched monitoring well showing concentration (µg/L) |
| TW4-7 ○ 1000 | temporary perched monitoring well showing concentration (µg/L) |
| PIEZ-2 ◒ NS | perched piezometer showing concentration (µg/L) |

NOTE: MW-4, MW-26, TW4-1, TW4-2, TW4-4, TW4-11, TW4-19, TW4-20, TW4-21 and TW4-37 are chloroform pumping wells; TW4-22, TW4-24, TW4-25, and TWN-2 are nitrate pumping wells

HYDRO GEO CHEM, INC.

# KRIGED 3rd QUARTER, 2016 CHLOROFORM (µg/L) WHITE MESA SITE (detail map)

| APPROVED | DATE | REFERENCE | FIGURE |
|---|---|---|---|
| | | H:/718000/ nov16/chloroform/Uchl0916det.srf | J-2 |




## EXPLANATION

NS = not sampled; ND = not detected;
ND Q2 = not detected in second quarter

- 70 — kriged chloroform isocon and label
- PIEZ-3A ☼ NS — May, 2016 replacement of perched piezometer Piez-03 (not sampled)
- MW-32 ● ND — perched monitoring well showing concentration (µg/L)
- TW4-7 ○ 1000 — temporary perched monitoring well showing concentration (µg/L)
- PIEZ-2 ◒ NS — perched piezometer showing concentration (µg/L)

NOTE: MW-4, MW-26, TW4-1, TW4-2, TW4-4, TW4-11, TW4-19, TW4-20, TW4-21 and TW4-37 are chloroform pumping wells; TW4-22, TW4-24, TW4-25, and TWN-2 are nitrate pumping wells

HYDRO GEO CHEM, INC.

# 3rd QUARTER, 2016 CHLOROFORM GREATER THAN OR EQUAL TO 70 µgL GRID WHITE MESA SITE

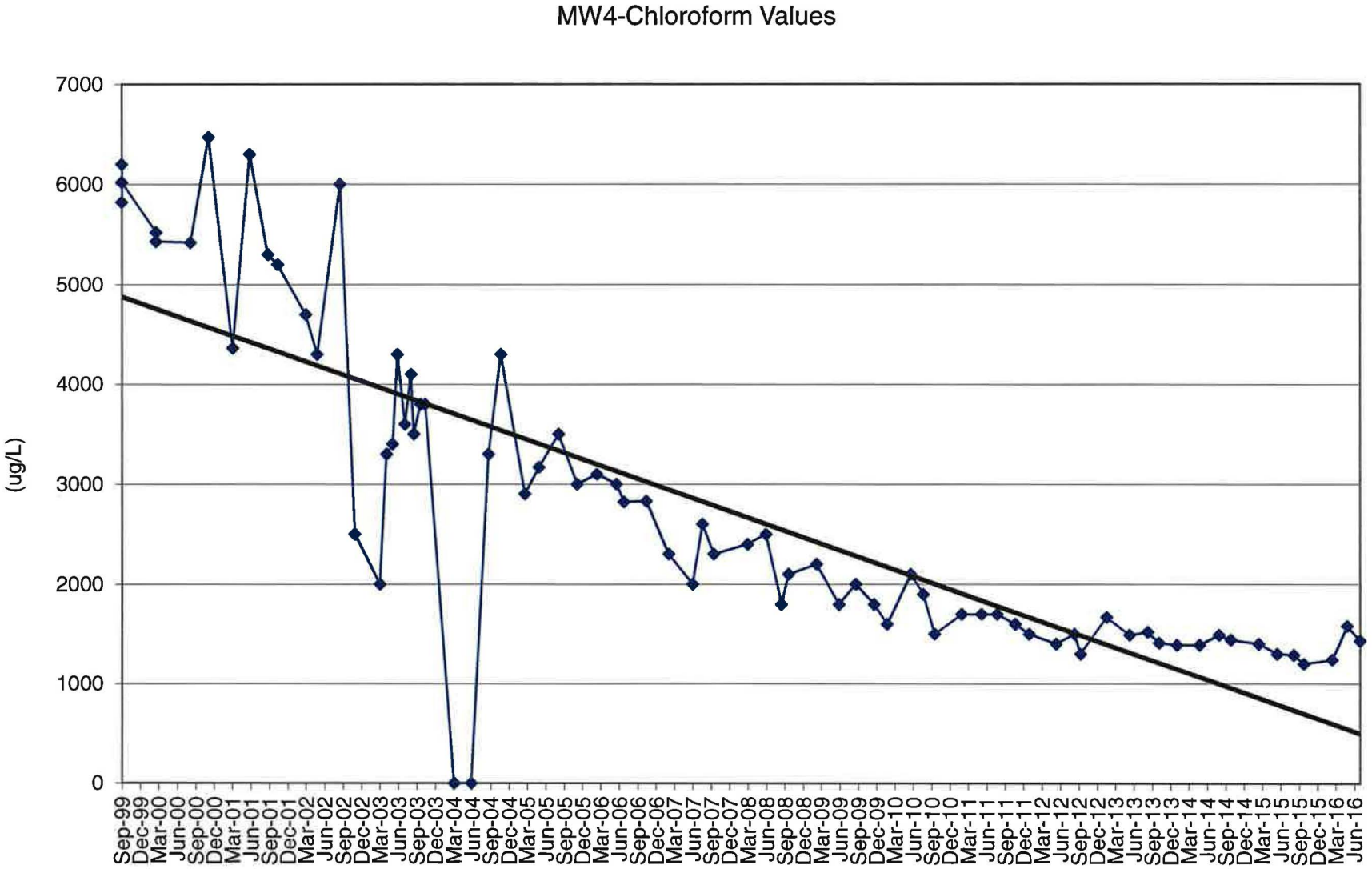
| APPROVED | DATE | REFERENCE | FIGURE |
|---|---|---|---|
| | | H:/718000/ nov16/chloroform/Uchl0916ge70.srf | J-3 |

Tab K

Analyte Concentration Data and Chloroform Concentration Trend Graphs 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 |
| 5-Jun-13 | 1490 | 1.31 | ND | ND | 4.22 | 44 |
| 3-Sep-13 | 1520 | 1.13 | ND | ND | 4.89 | 41.4 |
| 29-Oct-13 | 1410 | 5.58 | ND | ND | 5.25 | 40.1 |
| 27-Jan-14 | 1390 | 4.15 | ND | ND | 4.7 | 38.5 |
| 19-May-14 | 1390 | 5.21 | ND | ND | 4.08 | 39.9 |
| 24-Aug-14 | 1490 | ND | 7.6 | ND | 3.7 | 41 |
| 21-Oct-14 | 1440 | ND | ND | ND | 5.07 | 41.5 |
| 9-Mar-15 | 1400 | 1.26 | ND | ND | 5.75 | 40.7 |
| 8-Jun-15 | 1300 | ND | ND | ND | 2.53 | 43.1 |
| 31-Aug-15 | 1290 | ND | ND | ND | 4.79 | 44.3 |
| 19-Oct-15 | 1200 | ND | ND | ND | 4.43 | 40.8 |
| 9-Mar-16 | 1240 | ND | ND | ND | 5.15 | 42.2 |
| 23-May-16 | 1580 | 1.44 | ND | ND | 4.54 | 43.7 |
| 25-Jul-16 | 1430 | ND | ND | ND | 4.95 | 42.5 |


MW4-Chloroform Values
(ug/L)
7000
6000
5000
4000
3000
2000
1000
0
Sep-99
Dec-99
Mar-00
Jun-00
Sep-00
Dec-00
Mar-01
Jun-01
Sep-01
Dec-01
Mar-02
Jun-02
Sep-02
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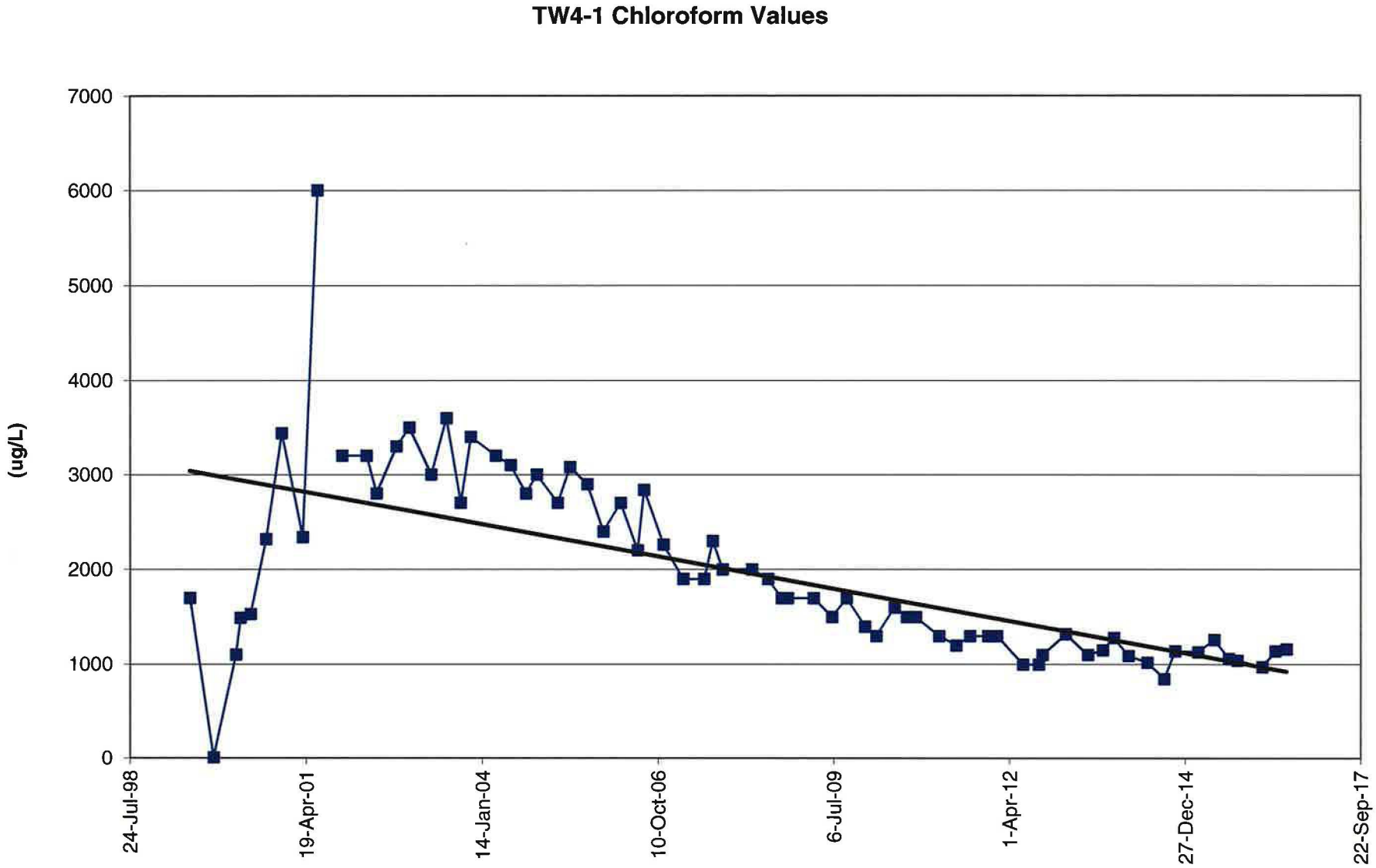
Sep-15
Dec-15
Mar-16
Jun-16

| 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 |

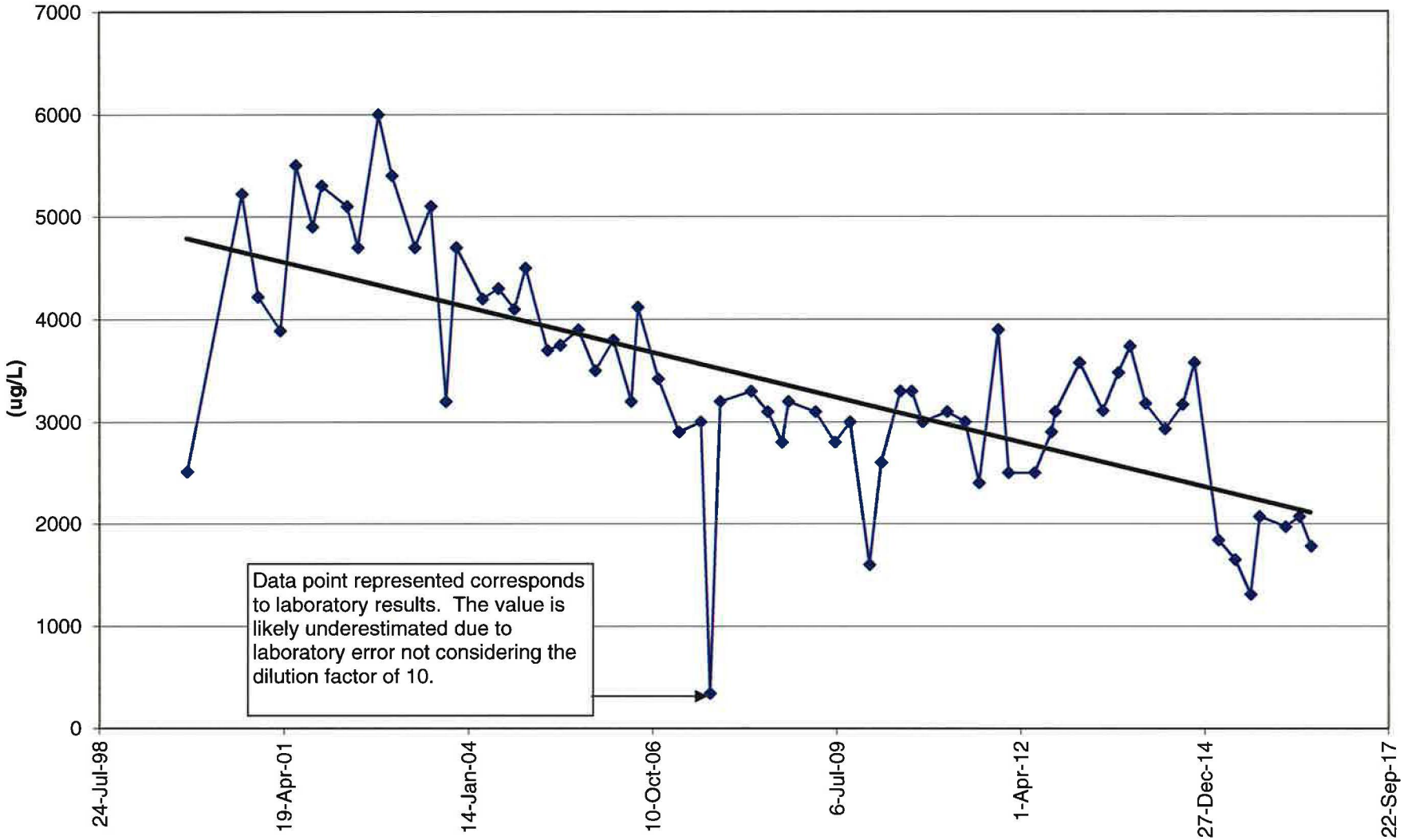
| TW4-1 | Chloroform (ug/l) | Carbon Tetrachloride (ug/l) | Chloromethane (ug/l) | Methylene Chloride (ug/l) | Nitrate (mg/l) | Chloride (mg/l) |
|---|---|---|---|---|---|---|
| 11-Mar-09 | 1700 | 1.1 | <1 | <1 | 7.5 | 37 |
| 24-Jun-09 | 1500 | 1 | <1 | <1 | 6.9 | 37 |
| 15-Sep-09 | 1700 | <1 | <1 | <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 |
| 19-Jun-13 | 1100 | ND | ND | ND | 6.87 | 39.1 |
| 12-Sep-13 | 1150 | ND | ND | ND | 7.12 | 37.6 |
| 14-Nov-13 | 1280 | ND | ND | ND | 7.08 | 36.5 |
| 5-Feb-14 | 1090 | 5.47 | ND | ND | 7.74 | 38.9 |
| 23-May-14 | 1020 | 4.77 | ND | ND | 6.93 | 37.4 |
| 27-Aug-14 | 845 | ND | 1.4 | ND | 4.8 | 38 |
| 29-Oct-14 | 1140 | ND | ND | ND | 6.31 | 38.7 |
| 9-Mar-15 | 1130 | ND | ND | ND | 7.06 | 38.3 |
| 8-Jun-15 | 1260 | ND | ND | ND | 6.07 | 40.3 |
| 31-Aug-15 | 1060 | ND | ND | ND | 6.28 | 45.9 |
| 19-Oct-15 | 1040 | ND | ND | ND | 1.55 | 38.5 |
| 9-Mar-16 | 974 | ND | ND | ND | 0.148 | 41.7 |
| 23-May-16 | 1140 | ND | ND | ND | 0.138 | 44.4 |
| 25-Jul-16 | 1160 | ND | ND | ND | 5.49 | 44.7 |


TW4-1 Chloroform Values
(ug/L)
7000
6000
5000
4000
3000
2000
1000
0
24-Jul-98
19-Apr-01
14-Jan-04
10-Oct-06
6-Jul-09
1-Apr-12
27-Dec-14
22-Sep-17

| 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 |

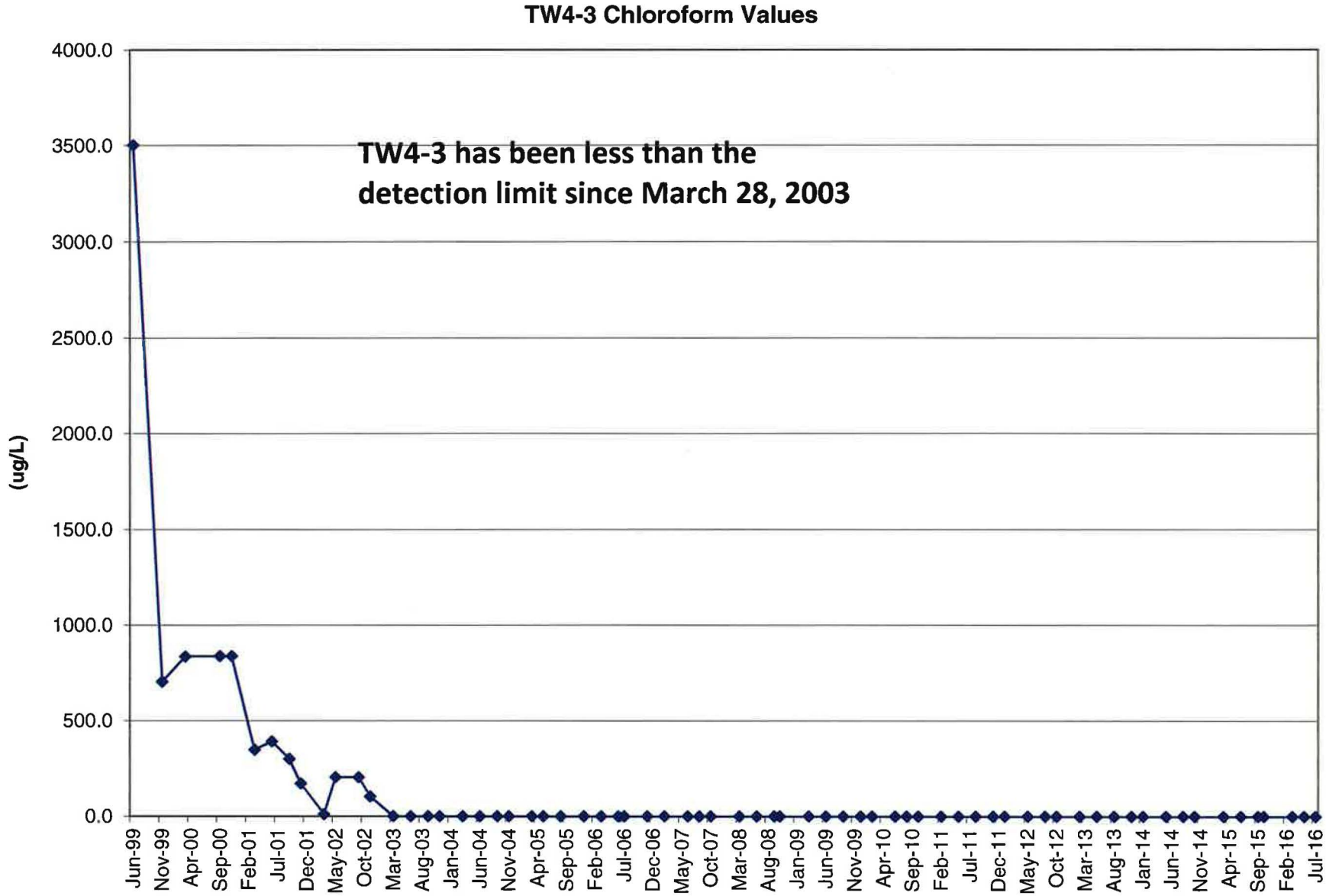
| TW4-2 | Chloroform (ug/l) | Carbon Tetrachloride (ug/l) | Chloromethane (ug/l) | Methylene Chloride (ug/l) | Nitrate (mg/l) | Chloride (mg/l) |
|---|---|---|---|---|---|---|
| 3-Mar-10 | 2600 | 2 | <1 | <1 | 6.8 | 42 |
| 15-Jun-10 | 3300 | 2.6 | <1 | <1 | 6.7 | 43 |
| 16-Aug-10 | 3300 | 2.5 | <1 | <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 |
| 13-Feb-13 | 3580 | 5.17 | ND | ND | 8.1 | 46 |
| 19-Jun-13 | 3110 | 2.65 | ND | ND | 7.51 | 46.9 |
| 12-Sep-13 | 3480 | 2.41 | ND | ND | 9.3 | 44.9 |
| 14-Nov-13 | 3740 | 3.15 | ND | ND | 8.39 | 43.9 |
| 6-Feb-14 | 3180 | 7.1 | ND | ND | 7.87 | 45.9 |
| 23-May-14 | 2930 | 6.05 | ND | ND | 9.11 | 45.4 |
| 27-Aug-14 | 3170 | 1.4 | 3.6 | ND | 6.2 | 45 |
| 30-Oct-14 | 3580 | 2.6 | ND | ND | 8.45 | 45.5 |
| 9-Mar-15 | 1840 | 1.44 | ND | ND | 5.32 | 44.9 |
| 8-Jun-15 | 1650 | ND | ND | ND | 4.3 | 48.1 |
| 31-Aug-15 | 1310 | ND | ND | ND | 3.76 | 50.0 |
| 19-Oct-15 | 2070 | ND | ND | ND | 5.18 | 41.9 |
| 9-Mar-16 | 1970 | 1.20 | ND | ND | 5.30 | 43.4 |
| 23-May-16 | 2070 | 1.49 | ND | ND | 5.67 | 43.8 |
| 25-Jul-16 | 1780 | ND | ND | ND | 4.07 | 42.9 |

## TW4-2 Chloroform Values



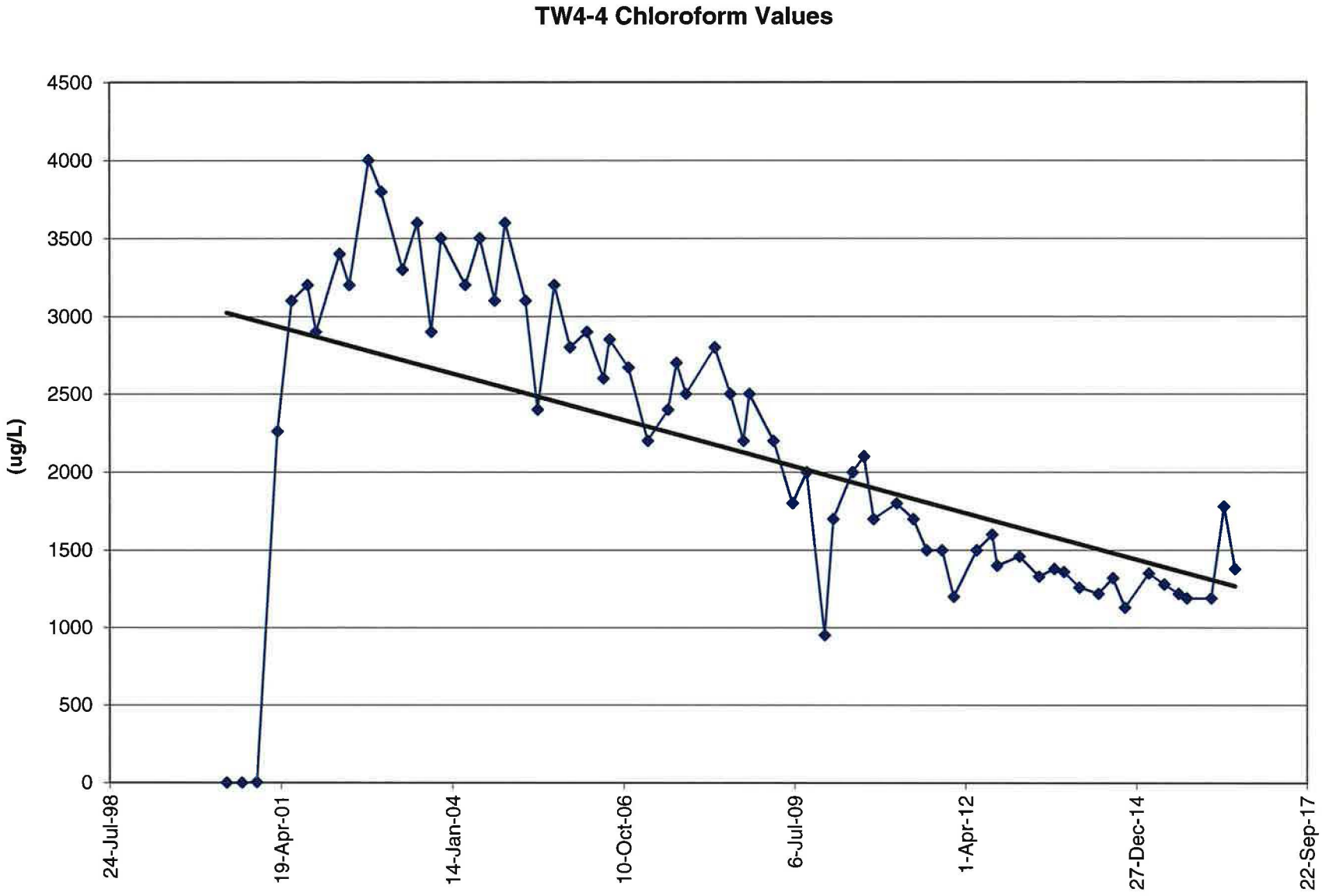
| TW4-3 | Chloroform (ug/l) | Carbon Tetrachloride (ug/l) | Chloromethane (ug/l) | Methylene Chloride (ug/l) | Nitrate (mg/l) | Chloride (mg/l) |
|---|---|---|---|---|---|---|
| 28-Jun-99 | 3500 | | | | 7.6 | |
| 29-Nov-99 | 702 | | | | | |
| 15-Mar-00 | 834 | | | | | |
| 2-Sep-00 | 836 | | | | 1.56 | |
| 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 |
| 29-May-13 | ND | ND | ND | ND | 5.83 | 23.8 |
| 29-Aug-13 | ND | ND | ND | ND | 6.26 | 24.0 |
| 6-Nov-13 | ND | ND | ND | ND | 5.89 | 24.1 |
| 22-Jan-14 | ND | ND | ND | ND | 6.66 | 24.9 |
| 19-May-14 | ND | ND | ND | ND | 6.01 | 24.4 |
| 13-Aug-14 | ND | ND | ND | ND | 5.3 | 26 |
| 23-Oct-14 | ND | ND | ND | ND | 6.07 | 26.7 |
| 11-Mar-15 | ND | ND | ND | ND | 6.64 | 26.2 |
| 10-Jun-15 | ND | ND | ND | ND | 5.71 | 27.5 |
| 2-Sep-15 | ND | ND | ND | ND | 3.88 | 27.4 |
| 21-Oct-15 | ND | ND | ND | ND | 5.37 | 25.6 |
| 15-Mar-16 | ND | ND | ND | ND | 5.83 | 32.8 |
| 25-May-16 | ND | ND | ND | ND | 5.65 | 27.9 |
| 27-Jul-16 | ND | ND | ND | ND | 6.10 | 26.5 |


TW4-3 Chloroform Values
TW4-3 has been less than the detection limit since March 28, 2003
(ug/L)
4000.0
3500.0
3000.0
2500.0
2000.0
1500.0
1000.0
500.0
0.0
Jun-99
Nov-99
Apr-00
Sep-00
Feb-01
Jul-01
Dec-01
May-02
Oct-02
Mar-03
Aug-03
Jan-04
Jun-04
Nov-04
Apr-05
Sep-05
Feb-06
Jul-06
Dec-06
May-07
Oct-07
Mar-08
Aug-08
Jan-09
Jun-09
Nov-09
Apr-10
Sep-10
Feb-11
Jul-11
Dec-11
May-12
Oct-12
Mar-13
Aug-13
Jan-14
Jun-14
Nov-14
Apr-15
Sep-15
Feb-16
Jul-16

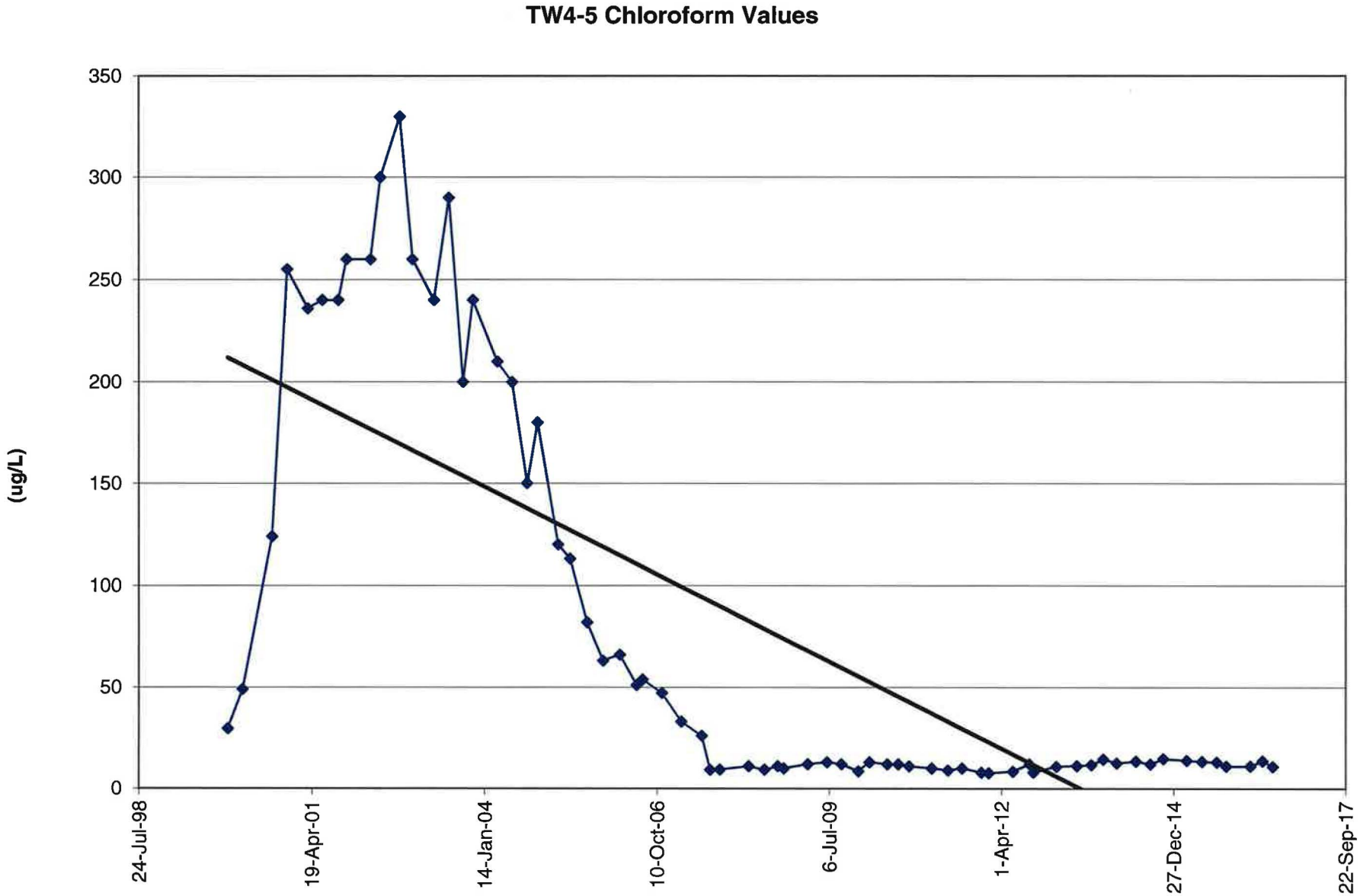
| TW4-4 | Chloroform (ug/l) | Carbon Tetrachloride (ug/l) | Chloromethane (ug/l) | Methylene Chloride (ug/l) | Nitrate (mg/l) | Chloride (mg/l) |
|---|---|---|---|---|---|---|
| 6-Jun-00 | 0 | | | | | |
| 2-Sep-00 | 0 | | | | | |
| 28-Nov-00 | 3.9 | | | | | |
| 28-Mar-01 | 2260 | | | | 1.02 | |
| 20-Jun-01 | 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 |
| 5-Jun-13 | 1330 | ND | ND | ND | 6.3 | 39.6 |
| 3-Sep-13 | 1380 | ND | ND | ND | 7.22 | 38.8 |
| 29-Oct-13 | 1360 | 5.3 | ND | ND | 7.84 | 43.9 |
| 27-Jan-14 | 1260 | 3.88 | ND | ND | 7.28 | 37.4 |
| 19-May-14 | 1220 | 5 | ND | ND | 5.91 | 47.5 |
| 11-Aug-14 | 1320 | ND | 7 | ND | 5.30 | 40.0 |
| 21-Oct-14 | 1130 | ND | ND | ND | 7.02 | 40.0 |
| 9-Mar-15 | 1350 | 1 | ND | ND | 7.70 | 37.6 |
| 8-Jun-15 | 1280 | ND | ND | ND | 6.33 | 41.3 |
| 31-Aug-15 | 1220 | ND | ND | ND | 6.45 | 45.8 |
| 19-Oct-15 | 1190 | ND | ND | ND | 6.27 | 38.5 |
| 9-Mar-16 | 1190 | ND | ND | ND | 6.71 | 39.7 |
| 23-May-16 | 1780 | 1 | ND | ND | 6.56 | 41.9 |
| 26-Jul-16 | 1380 | ND | ND | ND | 7.22 | 40.2 |


TW4-4 Chloroform Values
(ug/L)
4500
4000
3500
3000
2500
2000
1500
1000
500
0
24-Jul-98
19-Apr-01
14-Jan-04
10-Oct-06
6-Jul-09
1-Apr-12
27-Dec-14
22-Sep-17

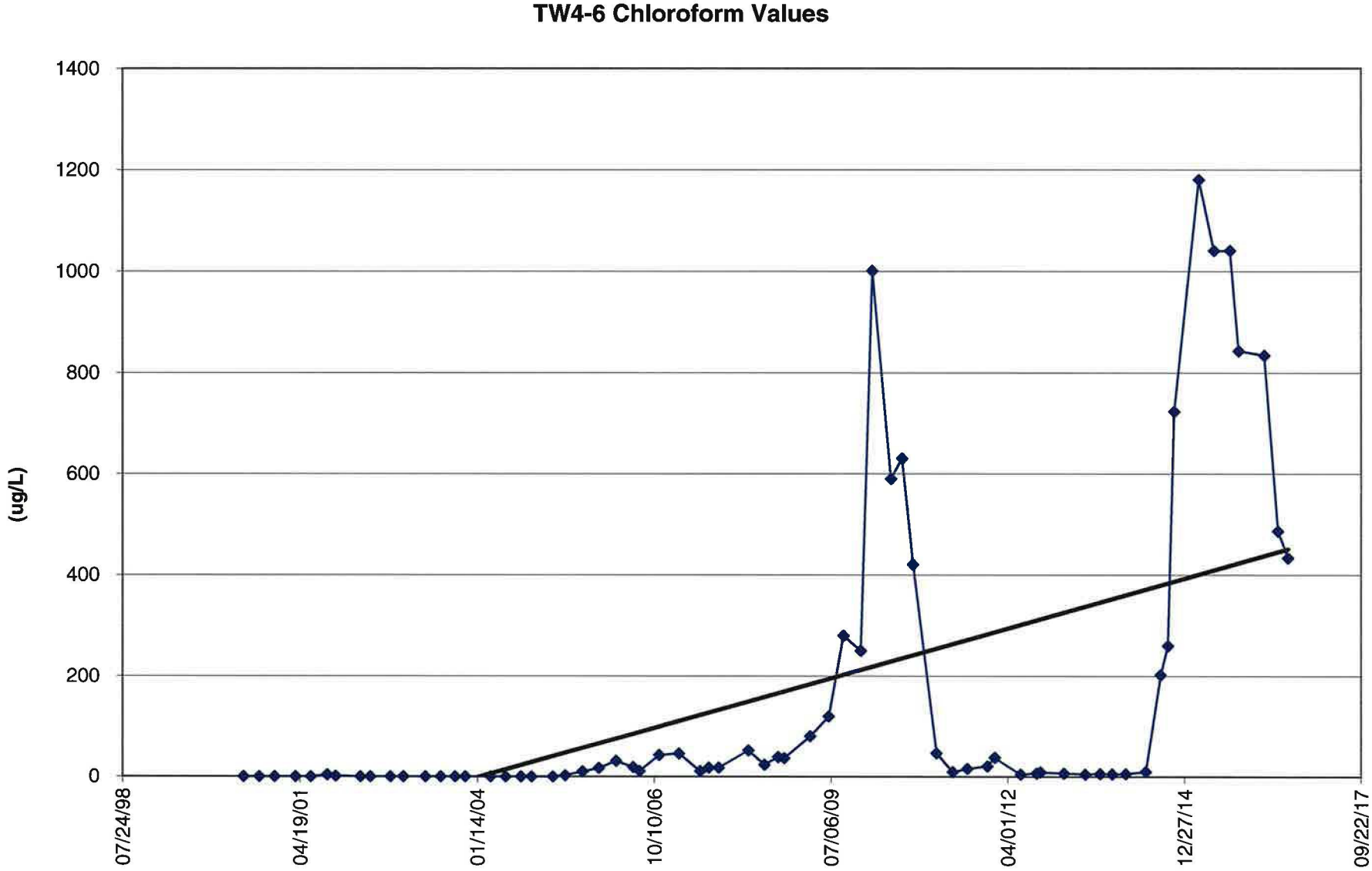
| TW4-5 | Chloroform (ug/l) | Carbon Tetrachloride (ug/l) | Chloromethane (ug/l) | Methylene Chloride (ug/l) | Nitrate (mg/l) | Chloride (mg/l) |
|---|---|---|---|---|---|---|
| 20-Dec-99 | 29.5 | | | | | |
| 15-Mar-00 | 49.0 | | | | | |
| 2-Sep-00 | 124 | | | | | |
| 29-Nov-00 | 255 | | | | | |
| 28-Mar-01 | 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 |
| 13-Jun-13 | 11.2 | ND | ND | ND | 10.7 | 36.5 |
| 5-Sep-13 | 11.6 | ND | ND | ND | 7.79 | 39.1 |
| 13-Nov-13 | 14.4 | ND | ND | ND | 7.75 | 41.1 |
| 30-Jan-14 | 12.5 | ND | ND | ND | 9.16 | 40.5 |
| 22-May-14 | 13.4 | ND | ND | ND | 7.78 | 51.4 |
| 14-Aug-14 | 12.0 | ND | ND | ND | 7.2 | 44 |
| 28-Oct-14 | 14.6 | ND | ND | ND | 8.31 | 45.1 |
| 12-Mar-15 | 13.8 | ND | ND | ND | 9.32 | 45.1 |
| 10-Jun-15 | 13.3 | ND | 1.07 | ND | 7.08 | 47.3 |
| 3-Sep-15 | 12.9 | ND | ND | ND | 8.1 | 52.2 |
| 28-Oct-15 | 11.0 | ND | ND | ND | 8.03 | 43.6 |
| 17-Mar-16 | 11.0 | ND | ND | ND | 10.2 | 44.7 |
| 26-May-16 | 13.6 | ND | ND | ND | 8.98 | 45.9 |
| 25-Jul-16 | 10.8 | ND | ND | ND | 8.49 | 44.6 |


TW4-5 Chloroform Values
(ug/L)
350
300
250
200
150
100
50
0
24-Jul-98
19-Apr-01
14-Jan-04
10-Oct-06
6-Jul-09
1-Apr-12
27-Dec-14
22-Sep-17

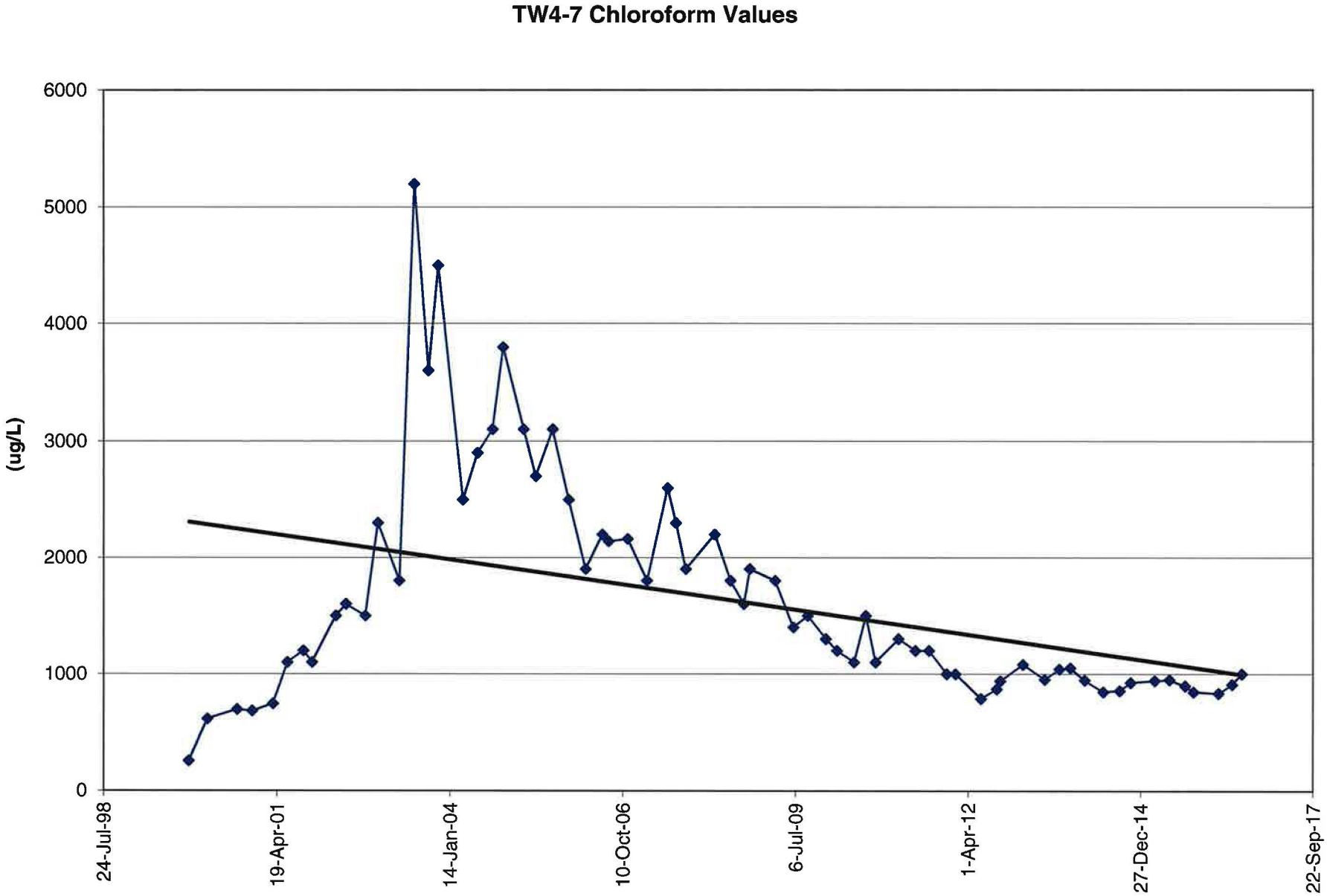
| TW4-6 | Chloroform (ug/l) | Carbon Tetrachloride (ug/l) | Chloromethane (ug/l) | Methylene Chloride (ug/l) | Nitrate (mg/l) | Chloride (mg/l) |
|---|---|---|---|---|---|---|
| 6-Jun-00 | 0 | | | | | |
| 2-Sep-00 | 0 | | | | | |
| 28-Nov-00 | 0 | | | | ND | |
| 26-Mar-01 | 0 | | | | 0.13 | |
| 20-Jun-01 | 0 | | | | ND | |
| 20-Sep-01 | 4 | | | | ND | |
| 7-Nov-01 | 1 | | | | ND | |
| 26-Mar-02 | 0 | | | | ND | |
| 21-May-02 | 0 | | | | ND | |
| 12-Sep-02 | 0 | | | | ND | |
| 24-Nov-02 | 0 | | | | ND | |
| 28-Mar-03 | 0 | | | | 0.1 | |
| 23-Jun-03 | 0 | | | | ND | |
| 12-Sep-03 | 0 | | | | ND | |
| 8-Nov-03 | 0 | | | | ND | |
| 29-Mar-04 | 0 | | | | ND | |
| 22-Jun-04 | 0 | | | | ND | |
| 17-Sep-04 | 0 | | | | ND | |
| 17-Nov-04 | 0 | | | | ND | |
| 16-Mar-05 | 0 | | | | 0.2 | |
| 25-May-05 | 2.5 | NA | NA | NA | 0.4 | NA |
| 31-Aug-05 | 10.0 | <1 | 2.8 | <1 | 0.8 | NA |
| 1-Dec-05 | 17.0 | <1 | 1.3 | <1 | 0.9 | NA |
| 9-Mar-06 | 31.0 | <1 | <1 | <1 | 1.2 | 31 |
| 14-Jun-06 | 19.0 | <1 | <1 | <1 | 1 | 30 |
| 20-Jul-06 | 11.0 | <1 | <1 | <1 | 0.6 | 37 |
| 8-Nov-06 | 42.8 | <1 | <1 | <1 | 1.4 | 65 |
| 28-Feb-07 | 46.0 | <1 | <1 | <1 | 1.5 | 32 |
| 27-Jun-07 | 11.0 | <1 | <1 | <1 | 0.6 | 38 |
| 15-Aug-07 | 18.0 | <1 | <1 | <1 | 0.7 | 36 |
| 10-Oct-07 | 18.0 | <1 | <1 | <1 | 0.8 | 38 |
| 26-Mar-08 | 52.0 | <1 | <1 | <1 | 1.1 | 33 |
| 25-Jun-08 | 24.0 | <1 | <1 | <1 | 0.9 | 35 |
| 10-Sep-08 | 39.0 | <1 | <1 | <1 | 1.14 | 35 |
| 15-Oct-08 | 37.0 | <1 | <1 | <1 | 1.01 | 33 |
| 11-Mar-09 | 81.0 | <1 | <1 | <1 | 2.2 | 35 |
| 24-Jun-09 | 120 | <1 | <1 | <1 | 2.7 | 37 |
| 15-Sep-09 | 280 | <1 | <1 | <1 | 5.0 | 37 |
| 22-Dec-09 | 250 | <1 | <1 | <1 | 6.1 | 41 |
| 25-Feb-10 | 1000 | <1 | <1 | <1 | 1.6 | 45 |
| 10-Jun-10 | 590 | <1 | <1 | <1 | 2.5 | 33 |
| 12-Aug-10 | 630 | <1 | <1 | <1 | 3.9 | 31 |
| 13-Oct-10 | 420 | <1 | <1 | <1 | 4.3 | 41 |
| 23-Feb-11 | 47 | ND | ND | ND | 0.7 | 40 |

| TW4-6 | Chloroform (ug/l) | Carbon Tetrachloride (ug/l) | Chloromethane (ug/l) | Methylene Chloride (ug/l) | Nitrate (mg/l) | Chloride (mg/l) |
|---|---|---|---|---|---|---|
| 26-May-11 | 10 | ND | ND | ND | 0.3 | 42 |
| 17-Aug-11 | 16 | ND | ND | ND | 0.3 | 39 |
| 7-Dec-11 | 21 | ND | ND | ND | 0.8 | 36 |
| 18-Jan-12 | 38 | ND | ND | ND | 0.7 | 38 |
| 13-Jun-12 | 4.7 | ND | ND | ND | 0.2 | 40 |
| 11-Sep-12 | 6.9 | ND | ND | ND | 0.1 | 21 |
| 3-Oct-12 | 9.0 | ND | ND | ND | 0.2 | 41 |
| 13-Feb-13 | 6.9 | ND | ND | ND | 0.154 | 40.4 |
| 13-Jun-13 | 4.9 | ND | ND | ND | 0.155 | 37.9 |
| 5-Sep-13 | 5.9 | ND | ND | ND | 0.157 | 40.6 |
| 13-Nov-13 | 5.5 | ND | ND | ND | 1.52 | 40.2 |
| 29-Jan-14 | 5.7 | ND | ND | ND | 0.184 | 40.6 |
| 22-May-14 | 10.3 | ND | ND | ND | 0.312 | 37 |
| 14-Aug-14 | 202.0 | ND | ND | ND | 4.2 | 40 |
| 24-Sep-14 | 260.0 | ND | ND | ND | N/A | N/A |
| 29-Oct-14 | 723.0 | ND | ND | ND | 6.92 | 41.1 |
| 18-Mar-15 | 1180.0 | ND | ND | ND | 5.25 | 41.2 |
| 11-Jun-15 | 1040.0 | ND | ND | ND | 5.87 | 41.6 |
| 10-Sep-15 | 1040.0 | ND | ND | ND | 6.75 | 47.0 |
| 29-Oct-15 | 843.0 | ND | ND | ND | 5.61 | 40.2 |
| 22-Mar-16 | 834.0 | ND | ND | ND | 6.79 | 42.0 |
| 8-Jun-16 | 486.0 | ND | ND | ND | 3.19 | 44.1 |
| 4-Aug-16 | 433.0 | ND | ND | ND | 3.85 | 42.2 |


TW4-6 Chloroform Values
1400
1200
1000
800
600
400
200
0
(ug/L)
07/24/98
04/19/01
01/14/04
10/10/06
07/06/09
04/01/12
12/27/14
09/22/17

| 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 |

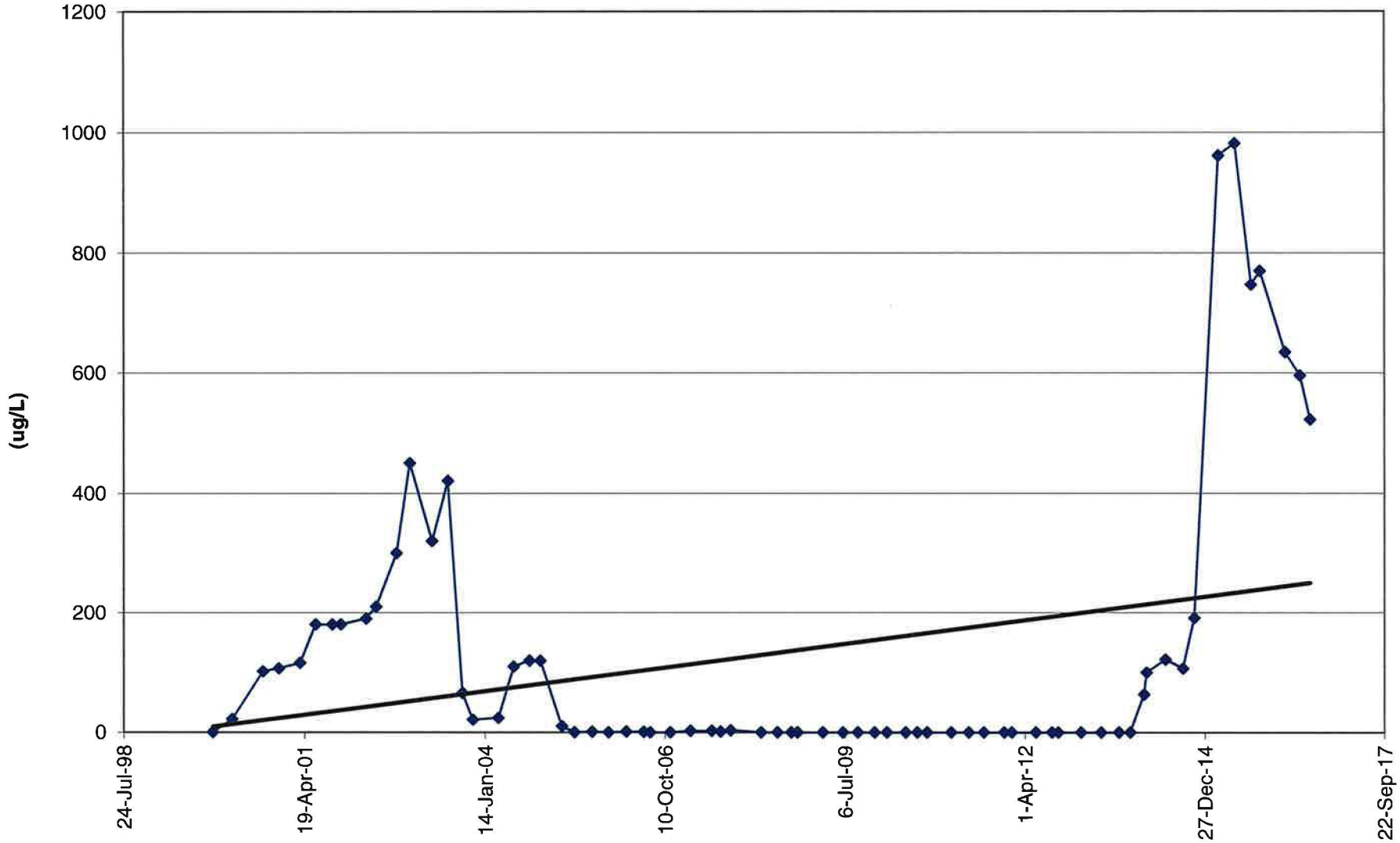
| TW4-7 | Chloroform (ug/l) | Carbon Tetrachloride (ug/l) | Chloromethane (ug/l) | Methylene Chloride (ug/l) | Nitrate (mg/l) | Chloride (mg/l) |
|---|---|---|---|---|---|---|
| 29-Dec-09 | 1300 | <1 | <1 | <1 | 4.2 | 37 |
| 3-Mar-10 | 1200 | <1 | <1 | <1 | 3.8 | 36 |
| 10-Jun-10 | 1100 | <1 | <1 | <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 |
| 18-Jun-13 | 953 | ND | ND | ND | 4.04 | 39.3 |
| 12-Sep-13 | 1040 | ND | ND | ND | 4.17 | 36.4 |
| 14-Nov-13 | 1050 | ND | ND | ND | 4.13 | 37.2 |
| 5-Feb-14 | 946 | 5.41 | ND | ND | 4.24 | 38.2 |
| 23-May-14 | 847 | 4.78 | ND | ND | 4.19 | 37.7 |
| 27-Aug-14 | 857 | ND | 1.5 | ND | 2.9 | 39 |
| 30-Oct-14 | 926 | ND | ND | ND | 3.68 | 40.2 |
| 18-Mar-15 | 942 | ND | ND | ND | 4.25 | 40.4 |
| 11-Jun-15 | 950 | ND | ND | ND | 2.62 | 42.1 |
| 10-Sep-15 | 897 | ND | ND | ND | 4.72 | 46.7 |
| 29-Oct-15 | 847 | ND | ND | ND | 3.49 | 40.6 |
| 22-Mar-16 | 834 | ND | ND | ND | 4.43 | 42.4 |
| 8-Jun-16 | 909 | ND | ND | ND | 3.75 | 44.1 |
| 4-Aug-16 | 1000 | ND | ND | ND | 4.21 | 42.3 |


TW4-7 Chloroform Values
(ug/L)
6000
5000
4000
3000
2000
1000
0
24-Jul-98
19-Apr-01
14-Jan-04
10-Oct-06
6-Jul-09
1-Apr-12
27-Dec-14
22-Sep-17

| 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 |
| 30-May-13 | ND | ND | ND | ND | ND | 45.5 |
| 5-Sep-13 | ND | ND | ND | ND | ND | 47.5 |
| 7-Nov-13 | ND | ND | ND | ND | ND | 46.1 |
| 23-Jan-14 | 63.8 | ND | ND | ND | 0.166 | 48.5 |
| 6-Feb-14 | 100 | ND | ND | ND | 0.165 | 46.6 |
| 22-May-14 | 122 | ND | ND | ND | 0.538 | 53 |
| 27-Aug-14 | 107 | ND | ND | ND | 0.6 | 47 |
| 29-Oct-14 | 191 | ND | ND | ND | 0.914 | 46.7 |
| 12-Mar-15 | 961 | ND | ND | ND | 2.34 | 49.6 |
| 11-Jun-15 | 981 | ND | ND | ND | 1.88 | 53 |
| 10-Sep-15 | 747 | ND | ND | ND | 1.96 | 59.6 |
| 29-Oct-15 | 770 | ND | ND | ND | 2.2 | 52.0 |
| 17-Mar-16 | 634 | ND | ND | ND | 2.48 | 54.2 |
| 8-Jun-16 | 595 | ND | ND | ND | 2.14 | 58.7 |
| 4-Aug-16 | 522 | ND | ND | ND | 2.1 | 56.9 |

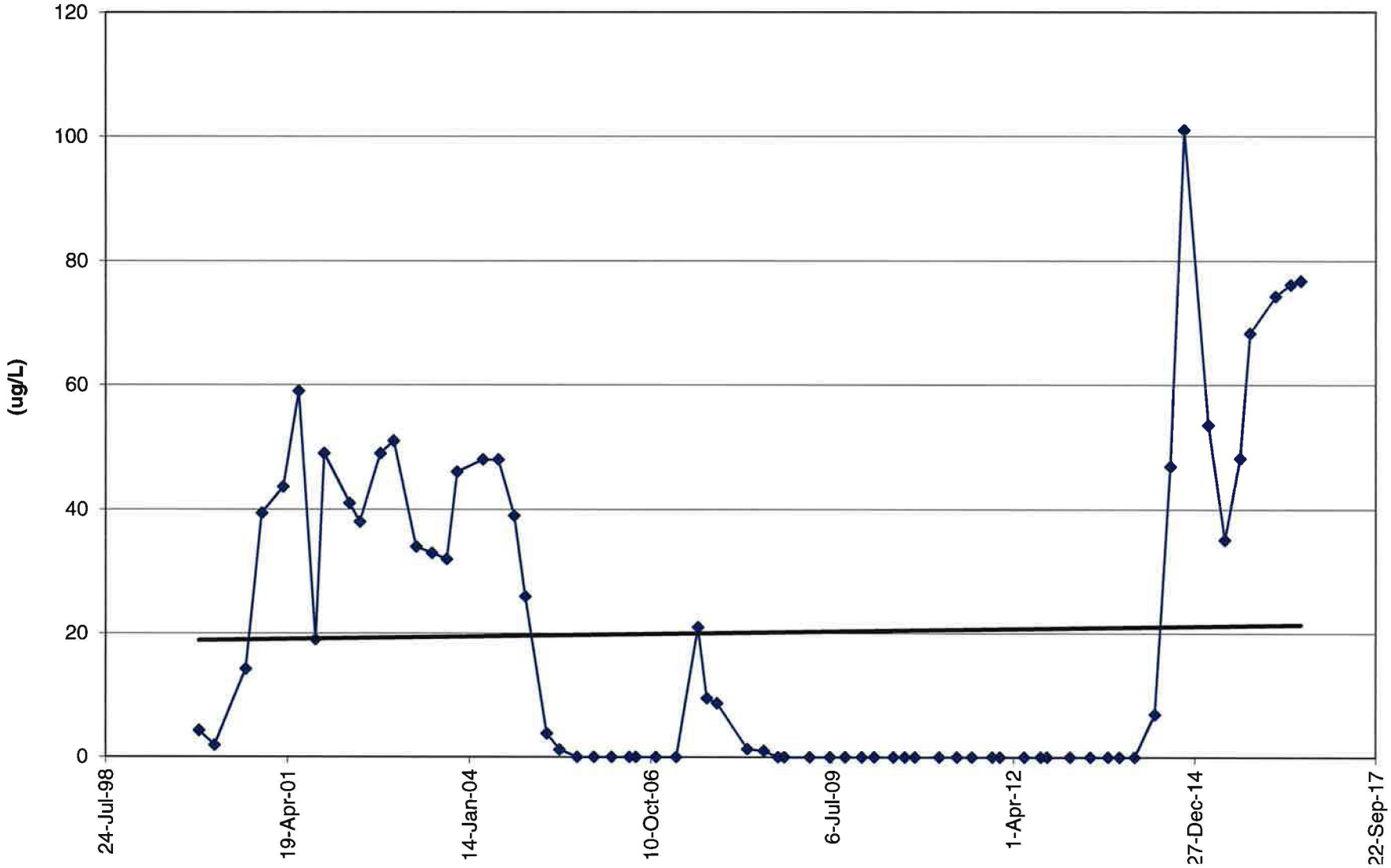
## TW4-8 Chloroform Values



| 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 |

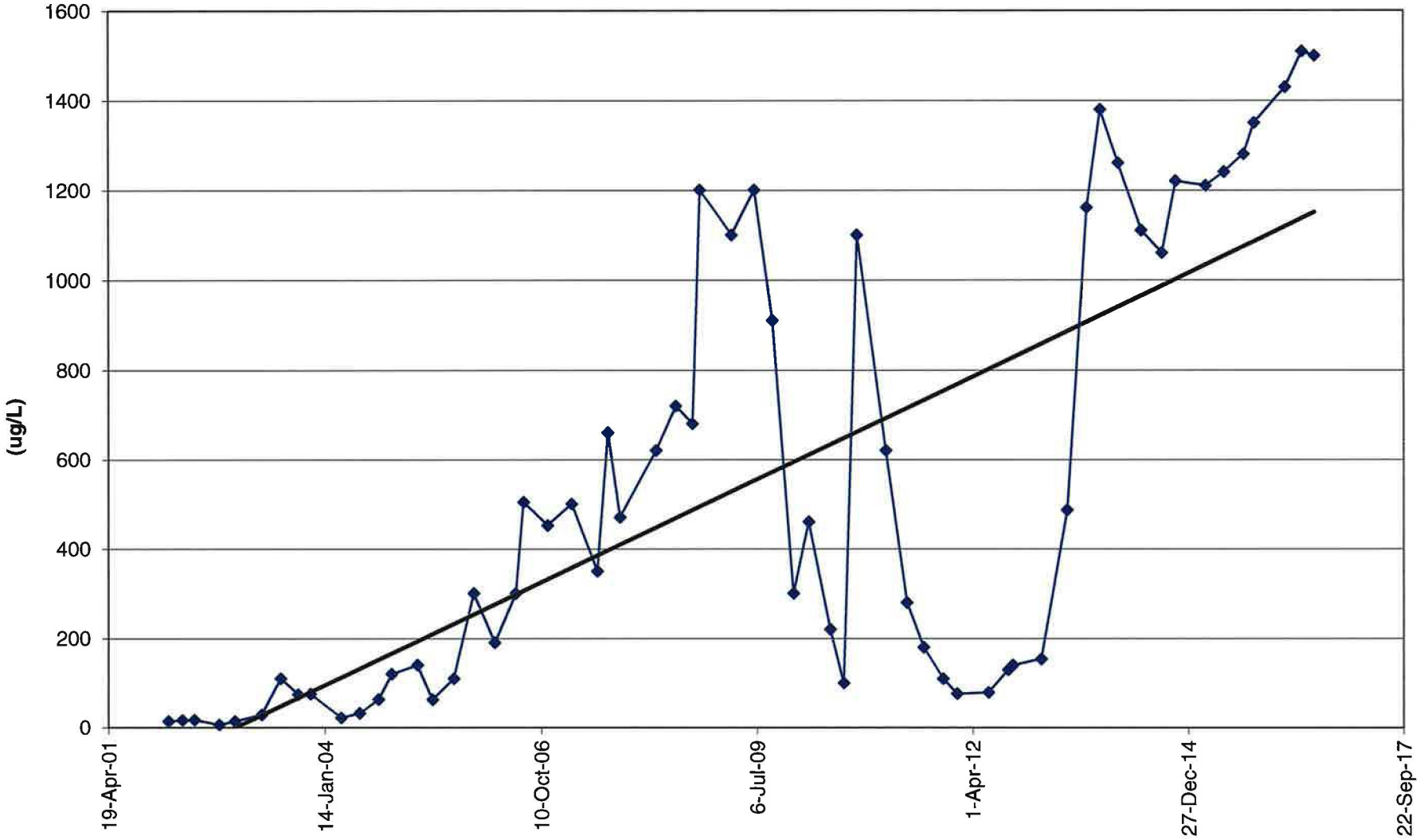
| TW4-9 | Chloroform (ug/l) | Carbon Tetrachloride (ug/l) | Chloromethane (ug/l) | Methylene Chloride (ug/l) | Nitrate (mg/l) | Chloride (mg/l) |
|---|---|---|---|---|---|---|
| 17-Dec-09 | <1 | <1 | <1 | <1 | 1.7 | 37 |
| 23-Feb-10 | <1 | <1 | <1 | <1 | 1.7 | 47 |
| 9-Jun-10 | <1 | <1 | <1 | <1 | 1.5 | 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 |
| 30-May-13 | ND | ND | ND | ND | 4.49 | 21.4 |
| 5-Sep-13 | ND | ND | ND | ND | 4.03 | 22.7 |
| 7-Nov-13 | ND | ND | ND | ND | 4.87 | 23.6 |
| 29-Jan-14 | ND | ND | ND | ND | 4.36 | 22 |
| 21-May-14 | 6.9 | ND | ND | ND | 3.44 | 24 |
| 14-Aug-14 | 46.9 | ND | ND | ND | 2.7 | 27 |
| 29-Oct-14 | 101 | ND | ND | ND | 4.27 | 25 |
| 12-Mar-15 | 53.5 | ND | ND | ND | 3.28 | 29.5 |
| 11-Jun-15 | 35.1 | ND | ND | ND | 1.83 | 35.3 |
| 3-Sep-15 | 48.2 | ND | ND | ND | 1.44 | 39.5 |
| 28-Oct-15 | 68.4 | ND | ND | ND | 2.89 | 29.2 |
| 17-Mar-16 | 74.3 | ND | ND | ND | 2.51 | 33.6 |
| 8-Jun-16 | 76.2 | ND | ND | ND | 2.16 | 35.1 |
| 3-Aug-16 | 76.8 | ND | ND | ND | 2.11 | 33.6 |

## TW4-9 Chloroform Values



| TW4-10 | Chloroform (ug/l) | Carbon Tetrachloride (ug/l) | Chloromethane (ug/l) | Methylene Chloride (ug/l) | Nitrate (mg/l) | Chloride (mg/l) |
|---|---|---|---|---|---|---|
| 21-Jan-02 | 14 | | | | | |
| 26-Mar-02 | 16 | | | | 0.14 | |
| 21-May-02 | 17 | | | | 0.11 | |
| 12-Sep-02 | 6 | | | | ND | |
| 24-Nov-02 | 14 | | | | ND | |
| 28-Mar-03 | 29 | | | | 0.2 | |
| 23-Jun-03 | 110 | | | | 0.4 | |
| 12-Sep-03 | 74 | | | | 0.4 | |
| 8-Nov-03 | 75 | | | | 0.3 | |
| 29-Mar-04 | 22 | | | | 0.1 | |
| 22-Jun-04 | 32 | | | | ND | |
| 17-Sep-04 | 63 | | | | 0.46 | |
| 17-Nov-04 | 120 | | | | 0.4 | |
| 16-Mar-05 | 140 | | | | 1.6 | |
| 25-May-05 | 62.4 | NA | NA | NA | 0.8 | NA |
| 31-Aug-05 | 110 | <2.5 | 6.2 | <2.5 | 1.1 | NA |
| 1-Dec-05 | 300 | <2.5 | <2.5 | <2.5 | 3.3 | NA |
| 9-Mar-06 | 190 | <5 | <50 | <50 | 2.4 | 50 |
| 14-Jun-06 | 300 | <5 | <50 | <50 | 3.5 | 54 |
| 20-Jul-06 | 504 | <5 | <50 | <50 | 6.8 | 61 |
| 8-Nov-06 | 452 | <1 | 1.6 | 1 | 5.7 | 58 |
| 28-Feb-07 | 500 | <1 | <1 | 1 | 7.6 | 62 |
| 27-Jun-07 | 350 | <1 | <1 | 1 | 5.1 | 54 |
| 15-Aug-07 | 660 | <1 | <1 | 1 | 7.3 | 59 |
| 10-Oct-07 | 470 | <1 | <1 | 1 | 6.7 | 59 |
| 26-Mar-08 | 620 | <1 | <1 | 1 | 7.3 | 55 |
| 25-Jun-08 | 720 | <1 | <1 | 1 | 9.91 | 58 |
| 10-Sep-08 | 680 | <1 | <1 | 1 | 9.23 | 51 |
| 15-Oct-08 | 1200 | <2 | <2 | 2 | 10.5 | 61 |
| 11-Mar-09 | 1100 | <1 | <1 | 1 | 11.6 | 64 |
| 24-Jun-09 | 1200 | <1 | <1 | 1 | 9.8 | 62 |
| 15-Sep-09 | 910 | <1 | <1 | 1 | 8.1 | 51 |
| 22-Dec-09 | 300 | <1 | <1 | <1 | 3.5 | 51 |
| 3-Mar-10 | 460 | <1 | <1 | <1 | 5 | 49 |
| 10-Jun-10 | 220 | <1 | <1 | <1 | 1.6 | 42 |
| 12-Aug-10 | 100 | <1 | <1 | <1 | 0.8 | 38 |
| 13-Oct-10 | 1100 | <1 | <1 | <1 | 11 | 52 |
| 23-Feb-11 | 620 | ND | ND | ND | 9 | 62 |
| 1-Jun-11 | 280 | ND | ND | ND | 3.3 | 42 |

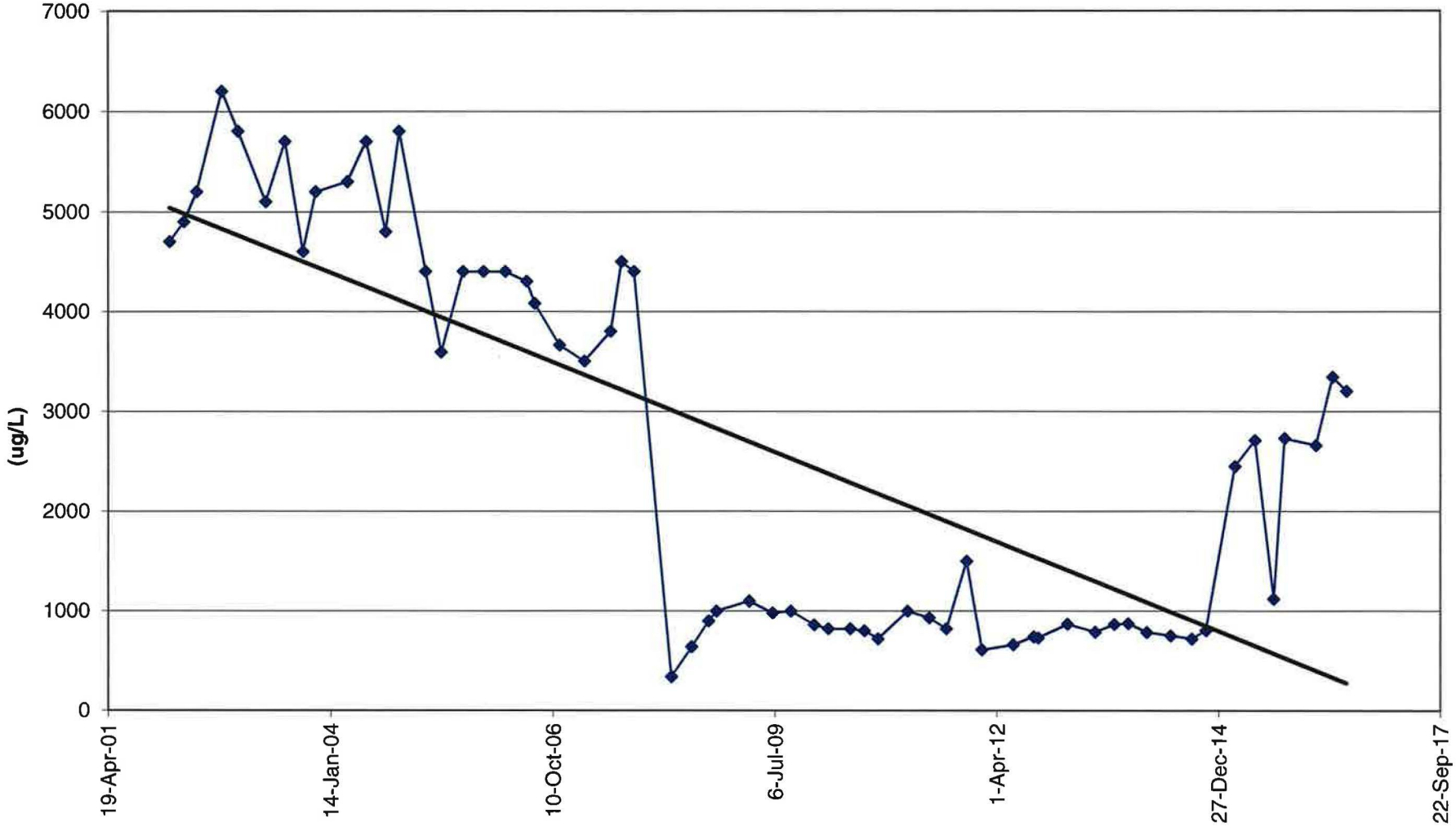
| TW4-10 | Chloroform (ug/l) | Carbon Tetrachloride (ug/l) | Chloromethane (ug/l) | Methylene Chloride (ug/l) | Nitrate (mg/l) | Chloride (mg/l) |
|---|---|---|---|---|---|---|
| 17-Aug-11 | 180 | ND | ND | ND | 1.9 | 41 |
| 16-Nov-11 | 110 | ND | ND | ND | 1.1 | 45 |
| 19-Jan-12 | 76 | ND | ND | ND | 0.9 | 40 |
| 13-Jun-12 | 79 | ND | ND | ND | 0.8 | 46 |
| 12-Sep-12 | 130 | ND | ND | ND | 1.0 | 44 |
| 3-Oct-12 | 140 | ND | ND | ND | 1.6 | 45 |
| 13-Feb-13 | 154 | ND | ND | ND | 1.2 | 49.1 |
| 13-Jun-13 | 486 | ND | ND | ND | 5.6 | 51.5 |
| 12-Sep-13 | 1160 | ND | ND | ND | 13.0 | 67.9 |
| 14-Nov-13 | 1380 | ND | ND | ND | 16.0 | 70.9 |
| 5-Feb-14 | 1260 | 5.16 | ND | ND | 16.8 | 73 |
| 23-May-14 | 1110 | ND | ND | ND | 13.9 | 77.3 |
| 27-Aug-14 | 1060 | ND | 1.5 | ND | 9.8 | 74 |
| 30-Oct-14 | 1220 | ND | ND | ND | 13.2 | 75.2 |
| 18-Mar-15 | 1210 | ND | ND | ND | 15.0 | 78.6 |
| 11-Jun-15 | 1240 | ND | ND | ND | 11.4 | 75 |
| 10-Sep-15 | 1280 | ND | ND | ND | 14.0 | 89.5 |
| 29-Oct-15 | 1350 | ND | ND | ND | 13.5 | 79.9 |
| 22-Mar-16 | 1430 | ND | ND | ND | 17.3 | 84.1 |
| 8-Jun-16 | 1510 | ND | ND | ND | 14.9 | 89.5 |
| 4-Aug-16 | 1500 | ND | ND | ND | 14.9 | 85.3 |


TW4-10 Chloroform Values
(ug/L)
1600
1400
1200
1000
800
600
400
200
0
19-Apr-01
14-Jan-04
10-Oct-06
6-Jul-09
1-Apr-12
27-Dec-14
22-Sep-17

| TW4-11 | Chloroform (ug/l) | Carbon Tetrachloride (ug/l) | Chloromethane (ug/l) | Methylene Chloride (ug/l) | Nitrate (mg/l) | Chloride (mg/l) |
|---|---|---|---|---|---|---|
| 21-Jan-02 | 4700 | | | | | |
| 26-Mar-02 | 4900 | | | | 9.6 | |
| 22-May-02 | 5200 | | | | 9.07 | |
| 12-Sep-02 | 6200 | | | | 8.84 | |
| 24-Nov-02 | 5800 | | | | 9.7 | |
| 28-Mar-03 | 5100 | | | | 9.7 | |
| 23-Jun-03 | 5700 | | | | 9.4 | |
| 12-Sep-03 | 4600 | | | | 9.9 | |
| 8-Nov-03 | 5200 | | | | 9.3 | |
| 29-Mar-04 | 5300 | | | | 9.07 | |
| 22-Jun-04 | 5700 | | | | 8.74 | |
| 17-Sep-04 | 4800 | | | | 8.75 | |
| 17-Nov-04 | 5800 | | | | 9.7 | |
| 16-Mar-05 | 4400 | | | | 8.7 | |
| 25-May-05 | 3590 | NA | NA | NA | 10.3 | NA |
| 31-Aug-05 | 4400 | <10 | <10 | <10 | 9.4 | NA |
| 1-Dec-05 | 4400 | <100 | <100 | <100 | 9.4 | NA |
| 9-Mar-06 | 4400 | <50 | <50 | <50 | 9.2 | 56 |
| 14-Jun-06 | 4300 | <50 | <50 | <50 | 10 | 56 |
| 20-Jul-06 | 4080 | <50 | <50 | <50 | 10 | 55 |
| 8-Nov-06 | 3660 | 1.7 | 2.7 | 1.3 | 10 | 55 |
| 28-Feb-07 | 3500 | 1.3 | <1 | 1.6 | 10.1 | 54 |
| 27-Jun-07 | 3800 | 1.6 | <1 | 1.1 | 10.6 | 53 |
| 15-Aug-07 | 4500 | 1.7 | <1 | 1.1 | 10.2 | 53 |
| 10-Oct-07 | 4400 | 1.6 | <1 | 1.2 | 9.8 | 53 |
| 26-Mar-08 | 340 | <1 | <1 | <1 | 7.7 | 63 |
| 25-Jun-08 | 640 | <1 | <1 | <1 | 7.28 | 46 |
| 10-Sep-08 | 900 | <1 | <1 | <1 | 7.93 | 42 |
| 15-Oct-08 | 1000 | <2 | <2 | <2 | 9.46 | 47 |
| 11-Mar-09 | 1100 | <1 | <1 | <1 | 7.3 | 49 |
| 24-Jun-09 | 980 | <1 | <1 | <1 | 6.8 | 44 |
| 15-Sep-09 | 1000 | <1 | <1 | <1 | 7 | 49 |
| 29-Dec-09 | 860 | <1 | <1 | <1 | 6.6 | 46 |
| 3-Mar-10 | 820 | <1 | <1 | <1 | 6.8 | 42 |
| 10-Jun-10 | 820 | <1 | <1 | <1 | 6.9 | 40 |
| 12-Aug-10 | 800 | <1 | <1 | <1 | 6.7 | 43 |
| 13-Oct-10 | 720 | <1 | <1 | <1 | 6.4 | 49 |
| 23-Feb-11 | 1000 | ND | ND | ND | 6.5 | 46 |
| 1-Jun-11 | 930 | ND | ND | ND | 7.3 | 49 |

| TW4-11 | Chloroform (ug/l) | Carbon Tetrachloride (ug/l) | Chloromethane (ug/l) | Methylene Chloride (ug/l) | Nitrate (mg/l) | Chloride (mg/l) |
|---|---|---|---|---|---|---|
| 17-Aug-11 | 820 | ND | ND | ND | 7.1 | 48 |
| 16-Nov-11 | 1500 | ND | ND | ND | 7.1 | 46 |
| 24-Jan-12 | 610 | ND | ND | ND | 6.8 | 43 |
| 13-Jun-12 | 660 | ND | ND | ND | 6.7 | 52 |
| 13-Sep-12 | 740 | ND | ND | ND | 3 | 49 |
| 4-Oct-12 | 730 | ND | ND | ND | 7 | 50 |
| 13-Feb-13 | 867 | 3.23 | ND | ND | 6.83 | 47.3 |
| 18-Jun-13 | 788 | ND | ND | ND | 7.42 | 49.7 |
| 12-Sep-13 | 865 | ND | ND | ND | 7.8 | 46.6 |
| 13-Nov-13 | 874 | ND | ND | ND | 8.01 | 46.7 |
| 5-Feb-14 | 785 | 5.19 | ND | ND | 8.47 | 48.5 |
| 23-May-14 | 751 | ND | ND | ND | 6.92 | 51.6 |
| 27-Aug-14 | 719 | ND | 1.2 | ND | 5.4 | 48 |
| 29-Oct-14 | 803 | ND | ND | ND | 7.33 | 56.4 |
| 9-Mar-15 | 2450 | 1.24 | ND | ND | 8.72 | 49.8 |
| 8-Jun-15 | 2710 | ND | ND | ND | 8.48 | 62.2 |
| 31-Aug-15 | 1120 | ND | 1.62 | ND | 9.61 | 73.1 |
| 19-Oct-15 | 2730 | ND | ND | ND | 7.5 | 55.3 |
| 9-Mar-16 | 2660 | 1.2 | ND | ND | 7.13 | 55.5 |
| 23-May-16 | 3340 | 2.19 | ND | ND | 7.81 | 56.4 |
| 25-Jul-16 | 3200 | ND | ND | ND | 8.83 | 55.3 |

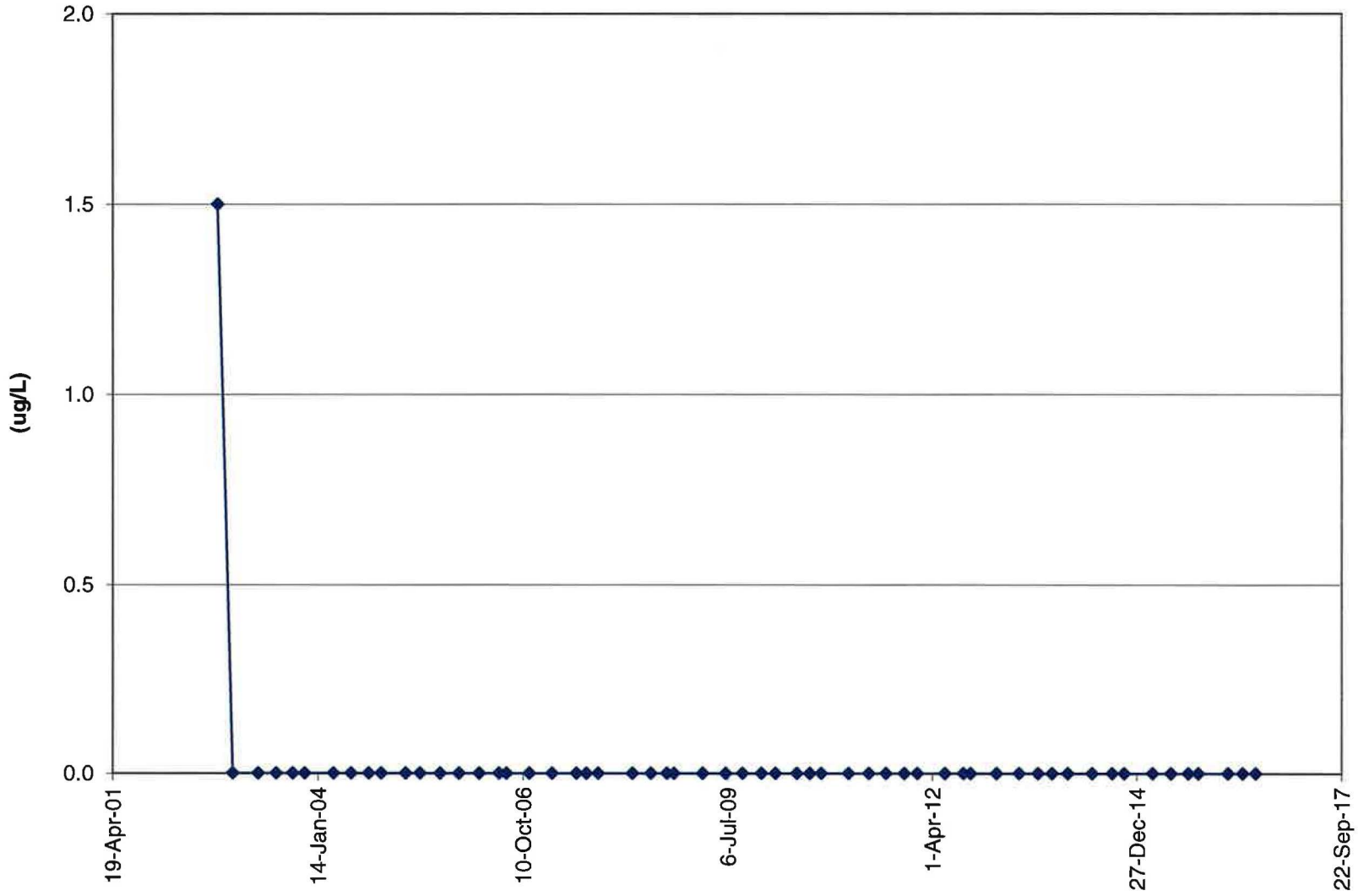
## TW4-11 Chloroform Values



| TW4-12 | Chloroform (ug/l) | Carbon Tetrachloride (ug/l) | Chloromethane (ug/l) | Methylene Chloride (ug/l) | Nitrate (mg/l) | Chloride (mg/l) |
|---|---|---|---|---|---|---|
| 12-Sep-02 | 2 | | | | 2.54 | |
| 24-Nov-02 | 0 | | | | 2.2 | |
| 28-Mar-03 | 0 | | | | 1.9 | |
| 23-Jun-03 | 0 | | | | 1.8 | |
| 12-Sep-03 | 0 | | | | 1.8 | |
| 9-Nov-03 | 0 | | | | 1.6 | |
| 29-Mar-04 | 0 | | | | 1.58 | |
| 22-Jun-04 | 0 | | | | 1.4 | |
| 17-Sep-04 | 0 | | | | 1.24 | |
| 17-Nov-04 | 0 | | | | 1.5 | |
| 16-Mar-05 | 0 | | | | 1.4 | |
| 25-May-05 | <1 | NA | NA | NA | 1.6 | NA |
| 31-Aug-05 | <1 | <1 | 5.8 | <1 | 1.5 | NA |
| 1-Dec-05 | <1 | <1 | 1.9 | <2 | 1.4 | NA |
| 9-Mar-06 | <1 | <1 | 2.6 | <1 | 1.3 | 19 |
| 14-Jun-06 | <1 | <1 | 1.4 | <1 | 1.4 | 16 |
| 20-Jul-06 | <1 | <1 | <1 | <1 | 1.4 | 16 |
| 8-Nov-06 | <1 | <1 | <1 | <1 | 1.4 | 16 |
| 28-Feb-07 | <1 | <1 | <1 | <1 | 1.5 | 16 |
| 27-Jun-07 | <1 | <1 | <1 | <1 | 1,5 | 18 |
| 15-Aug-07 | <1 | <1 | <1 | <1 | 1.4 | 29 |
| 10-Oct-07 | <1 | <1 | <1 | <1 | 1.4 | 16 |
| 26-Mar-08 | <1 | <1 | <1 | <1 | 1.6 | 16 |
| 25-Jun-08 | <1 | <1 | <1 | <1 | 2.69 | 19 |
| 10-Sep-08 | <1 | <1 | <1 | <1 | 2.65 | 18 |
| 15-Oct-08 | <1 | <1 | <1 | <1 | 2.47 | 22 |
| 4-Mar-09 | <1 | <1 | <1 | <1 | 2.4 | 23 |
| 24-Jun-09 | <1 | <1 | <1 | <1 | 3.8 | 22 |
| 15-Sep-09 | <1 | <1 | <1 | <1 | 5.1 | 22 |
| 16-Dec-09 | <1 | <1 | <1 | <1 | 3.6 | 23 |
| 23-Feb-10 | <1 | <1 | <1 | <1 | 4 | 22 |
| 8-Jun-10 | <1 | <1 | <1 | <1 | 11 | 29 |
| 10-Aug-10 | <1 | <1 | <1 | <1 | 9 | 35 |
| 5-Oct-10 | <1 | <1 | <1 | <1 | 8 | 31 |
| 15-Feb-11 | ND | ND | ND | ND | 6.5 | 31 |
| 25-May-11 | ND | ND | ND | ND | 7 | 32 |
| 16-Aug-11 | ND | ND | ND | ND | 6.8 | 31 |
| 15-Nov-11 | ND | ND | ND | ND | 8 | 30 |
| 17-Jan-12 | ND | ND | ND | ND | 7.7 | 28 |

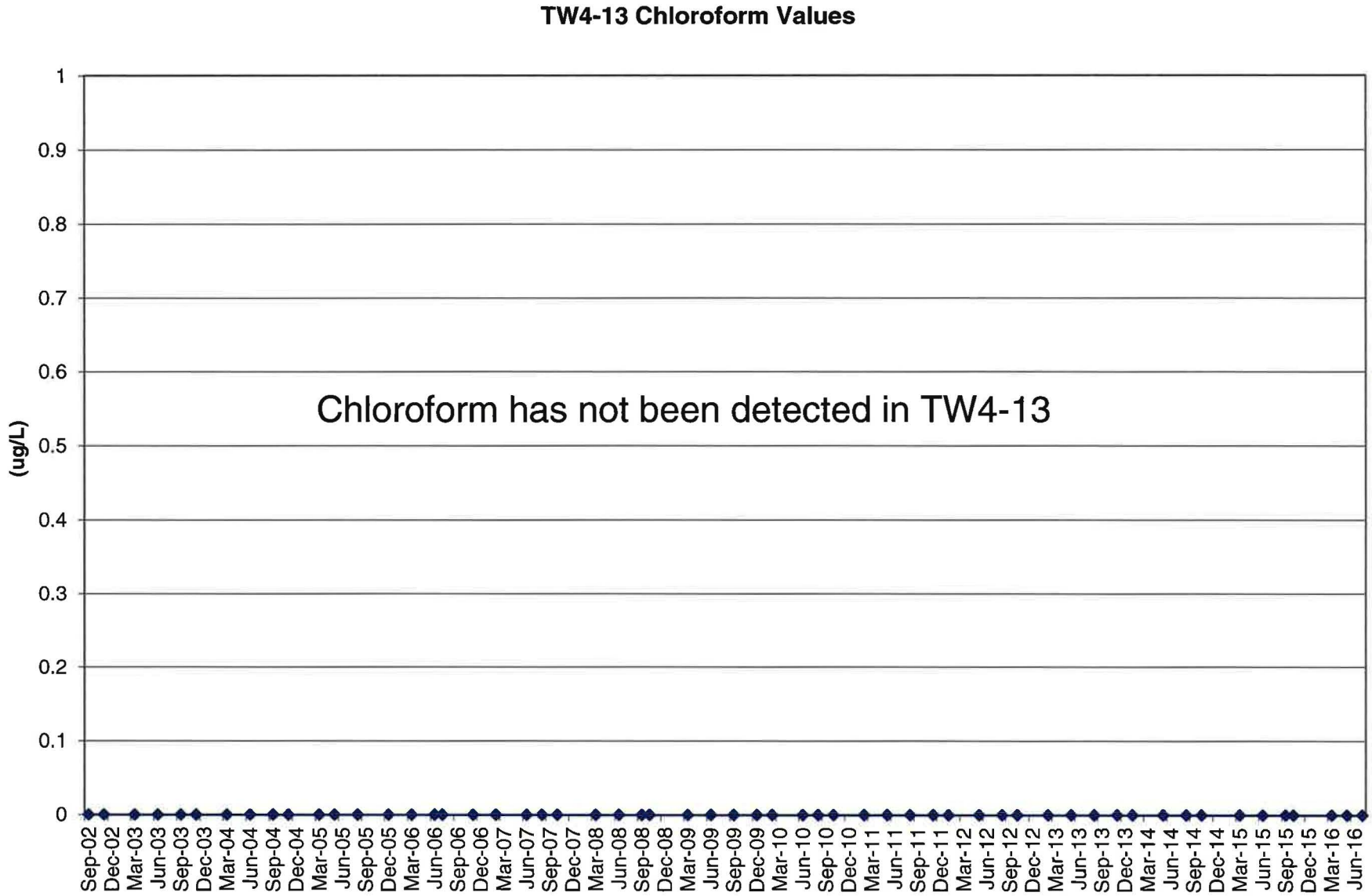
| TW4-12 | Chloroform (ug/l) | Carbon Tetrachloride (ug/l) | Chloromethane (ug/l) | Methylene Chloride (ug/l) | Nitrate (mg/l) | Chloride (mg/l) |
|---|---|---|---|---|---|---|
| 31-May-12 | ND | ND | ND | ND | 10 | 34 |
| 29-Aug-12 | ND | ND | ND | ND | 13 | 39 |
| 3-Oct-12 | ND | ND | ND | ND | 13 | 39 |
| 7-Feb-13 | ND | ND | ND | ND | 12.6 | 36.7 |
| 29-May-13 | ND | ND | ND | ND | 14.2 | 38.6 |
| 29-Aug-13 | ND | ND | ND | ND | 17.4 | 41.7 |
| 6-Nov-13 | ND | ND | ND | ND | 16.4 | 41.4 |
| 22-Jan-14 | ND | ND | ND | ND | 18.4 | 41.6 |
| 21-May-14 | ND | ND | ND | ND | 17 | 40.2 |
| 27-Aug-14 | ND | ND | ND | ND | 13 | 47 |
| 23-Oct-14 | ND | ND | ND | ND | 16.1 | 50.2 |
| 11-Mar-15 | ND | ND | ND | ND | 19.2 | 50.6 |
| 10-Jun-15 | ND | ND | ND | ND | 18.8 | 56 |
| 2-Sep-15 | ND | ND | ND | ND | 16.4 | 60.2 |
| 21-Oct-15 | ND | ND | ND | ND | 18 | 51.0 |
| 15-Mar-16 | ND | ND | ND | ND | 34.8 | 56.2 |
| 25-May-16 | ND | ND | ND | ND | 30.7 | 66.4 |
| 27-Jul-16 | ND | ND | ND | ND | 37.7 | 67.5 |

## TW4-12 Chloroform Values



| TW4-13 | Chloroform (ug/l) | Carbon Tetrachloride (ug/l) | Chloromethane (ug/l) | Methylene Chloride (ug/l) | Nitrate (mg/l) | Chloride (mg/l) |
|---|---|---|---|---|---|---|
| 12-Sep-02 | ND | | | | ND | |
| 24-Nov-02 | ND | | | | ND | |
| 28-Mar-03 | ND | | | | 0.2 | |
| 23-Jun-03 | ND | | | | 0.2 | |
| 12-Sep-03 | ND | | | | ND | |
| 9-Nov-03 | ND | | | | 0.9 | |
| 29-Mar-04 | ND | | | | 0.12 | |
| 22-Jun-04 | ND | | | | 0.17 | |
| 17-Sep-04 | ND | | | | 4.43 | |
| 17-Nov-04 | ND | | | | 4.7 | |
| 16-Mar-05 | ND | | | | 4.2 | |
| 25-May-05 | <1 | NA | NA | NA | 4.3 | NA |
| 31-Aug-05 | <1 | <1 | 3.1 | <1 | 4.6 | NA |
| 1-Dec-05 | <1 | <1 | <1 | <1 | 4.3 | NA |
| 9-Mar-06 | <1 | <1 | 1.7 | <1 | 4.2 | 67 |
| 14-Jun-06 | <1 | <1 | 1.4 | <1 | 4.9 | 66 |
| 20-Jul-06 | <1 | <1 | <1 | <1 | 4.3 | 65 |
| 8-Nov-06 | <1 | <1 | <1 | <1 | 0.8 | 33 |
| 28-Feb-07 | <1 | <1 | <1 | <1 | 4 | 59 |
| 27-Jun-07 | <1 | <1 | <1 | <1 | 4.6 | 59 |
| 15-Aug-07 | <1 | <1 | <1 | <1 | 4.4 | 58 |
| 10-Oct-07 | <1 | <1 | <1 | <1 | 4.1 | 58 |
| 26-Mar-08 | <1 | <1 | <1 | <1 | 3.8 | 54 |
| 25-Jun-08 | <1 | <1 | <1 | <1 | 4.24 | 58 |
| 10-Sep-08 | <1 | <1 | <1 | <1 | 4.26 | 50 |
| 15-Oct-08 | <1 | <1 | <1 | <1 | 4.63 | 58 |
| 4-Mar-09 | <1 | <1 | <1 | <1 | 3.7 | 58 |
| 24-Jun-09 | <1 | <1 | <1 | <1 | 1.2 | 57 |
| 15-Sep-09 | <1 | <1 | <1 | <1 | 4.7 | 63 |
| 16-Dec-09 | <1 | <1 | <1 | <1 | 4.1 | 60 |
| 24-Feb-10 | <1 | <1 | <1 | <1 | 4.3 | 53 |
| 8-Jun-10 | <1 | <1 | <1 | <1 | 5.2 | 52 |
| 10-Aug-10 | <1 | <1 | <1 | <1 | 5.6 | 55 |
| 5-Oct-10 | <1 | <1 | <1 | <1 | 5.8 | 55 |
| 15-Feb-11 | ND | ND | ND | ND | 5.5 | 60 |
| 25-May-11 | ND | ND | ND | ND | 5.4 | 56 |
| 16-Aug-11 | ND | ND | ND | ND | 5.2 | 60 |
| 15-Nov-11 | ND | ND | ND | ND | 5.9 | 54 |
| 17-Jan-12 | ND | ND | ND | ND | 5.5 | 55 |
| 31-May-12 | ND | ND | ND | ND | 6 | 59 |
| 29-Aug-12 | ND | ND | ND | ND | 6.2 | 60 |
| 3-Oct-12 | ND | ND | ND | ND | 5.9 | 60 |
| 7-Feb-13 | ND | ND | ND | ND | 6.31 | 59.3 |

| TW4-13 | Chloroform (ug/l) | Carbon Tetrachloride (ug/l) | Chloromethane (ug/l) | Methylene Chloride (ug/l) | Nitrate (mg/l) | Chloride (mg/l) |
|---|---|---|---|---|---|---|
| 29-May-13 | ND | ND | ND | ND | 6.84 | 56 |
| 29-Aug-13 | ND | ND | ND | ND | 7.16 | 63.5 |
| 6-Nov-13 | ND | ND | ND | ND | 6.48 | 58.5 |
| 22-Jan-14 | ND | ND | ND | ND | 7.09 | 63.1 |
| 21-May-14 | ND | ND | ND | ND | 5.99 | 56.1 |
| 13-Aug-14 | ND | ND | ND | ND | 4.8 | 62 |
| 23-Oct-14 | ND | ND | ND | ND | 6.28 | 66.1 |
| 11-Mar-15 | ND | ND | ND | ND | 7.09 | 66.4 |
| 10-Jun-15 | ND | ND | ND | ND | 6.32 | 70.3 |
| 2-Sep-15 | ND | ND | ND | ND | 5.7 | 76.5 |
| 21-Oct-15 | ND | ND | ND | ND | 5.78 | 65.5 |
| 16-Mar-16 | ND | ND | ND | ND | 7.97 | 69.4 |
| 25-May-16 | ND | ND | ND | ND | 5.87 | 71.8 |
| 28-Jul-16 | ND | ND | ND | ND | 6.14 | 69.3 |


TW4-13 Chloroform Values
(ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
Chloroform has not been detected in TW4-13
Sep-02
Dec-02
Mar-03
Jun-03
Sep-03
Dec-03
Mar-04
Jun-04
Sep-04
Dec-04
Mar-05
Jun-05
Sep-05
Dec-05
Mar-06
Jun-06
Sep-06
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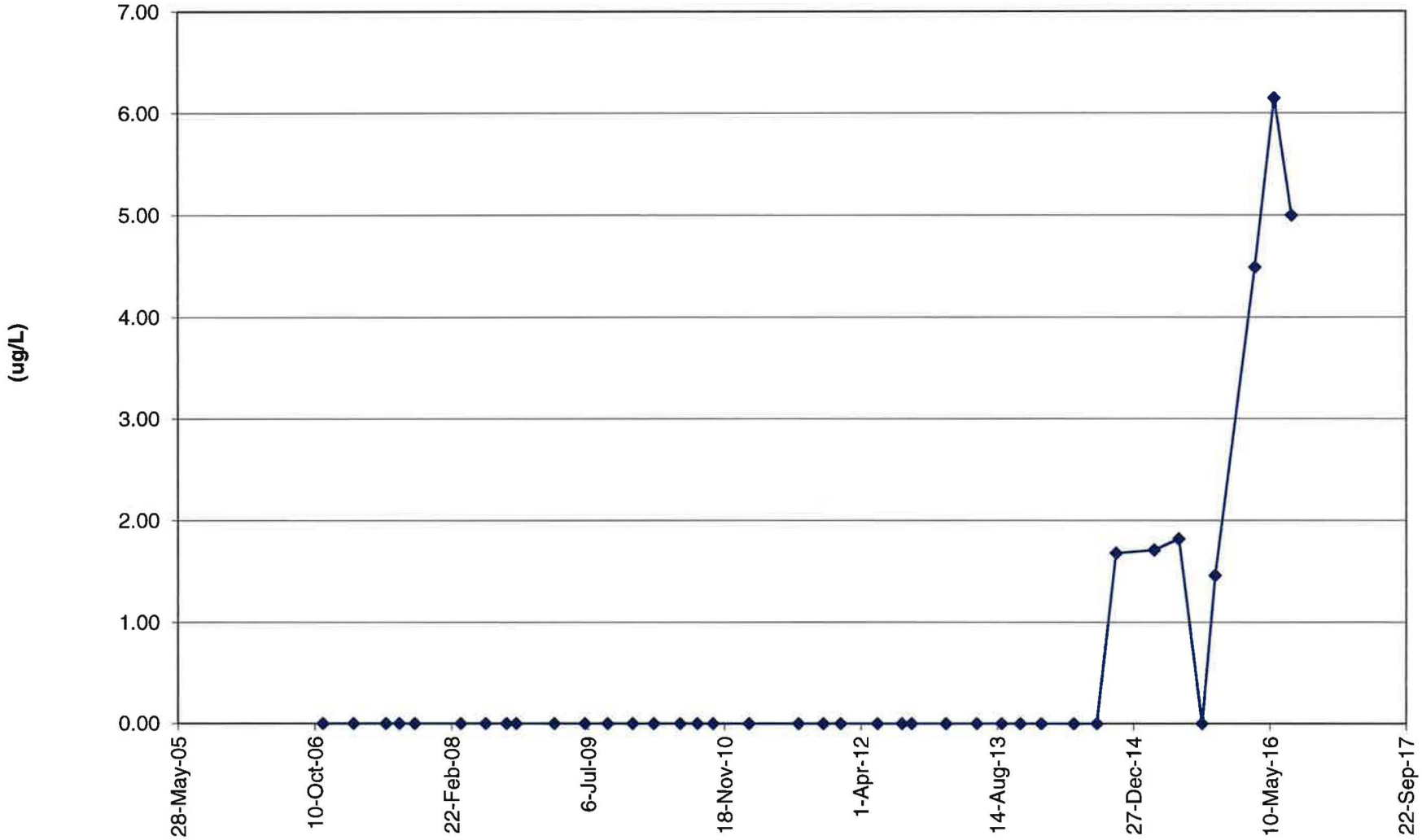
Sep-14
Dec-14
Mar-15
Jun-15
Sep-15
Dec-15
Mar-16
Jun-16

| 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 |
| 30-May-13 | ND | ND | ND | ND | 4.37 | 38.6 |
| 29-Aug-13 | ND | ND | ND | ND | 4.51 | 37.6 |
| 6-Nov-13 | ND | ND | ND | ND | 4.81 | 36.5 |
| 22-Jan-14 | ND | ND | ND | ND | 5.92 | 35.5 |
| 21-May-14 | ND | ND | ND | ND | 4.87 | 32.5 |
| 13-Aug-14 | ND | ND | ND | ND | 4.1 | 38 |
| 23-Oct-14 | 1.68 | ND | ND | ND | 5.22 | 38.9 |
| 12-Mar-15 | 1.71 | ND | ND | ND | 5.22 | 40.1 |
| 10-Jun-15 | 1.82 | ND | ND | ND | 3.55 | 41.8 |
| 3-Sep-15 | ND | ND | ND | ND | 2.77 | 42.4 |
| 21-Oct-15 | 1.46 | ND | ND | ND | 2.45 | 40.6 |
| 16-Mar-16 | 4.49 | ND | ND | 2.18 | 2.94 | 42.4 |
| 26-May-16 | 6.15 | ND | ND | 3.18 | 2.45 | 43.6 |
| 28-Jul-16 | 5.00 | ND | ND | 1.80 | 2.88 | 42.4 |

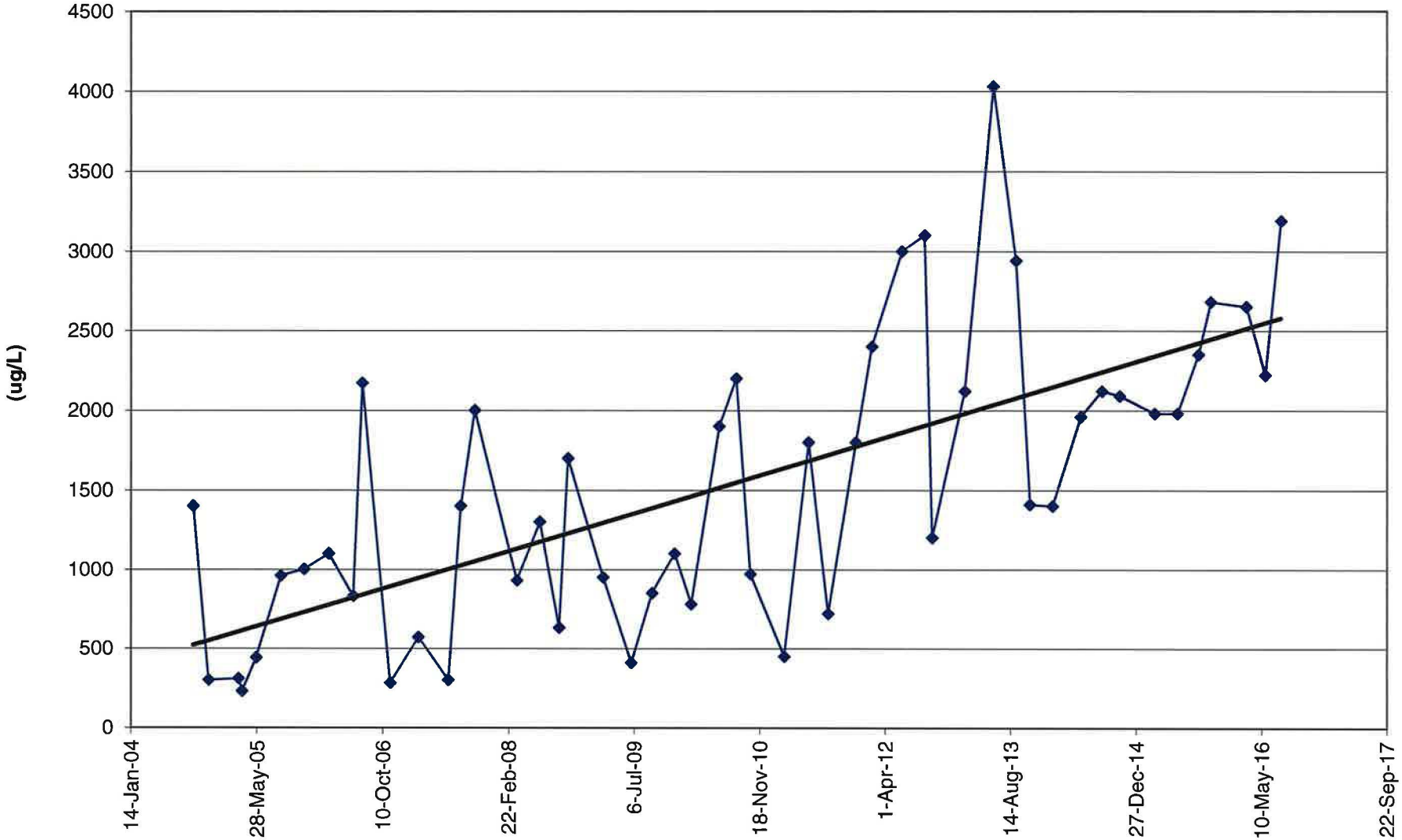
## TW4-14 Chloroform Values



| 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 |
| 5-Jun-13 | 4030 | ND | ND | 52.4 | 2.11 | 77.9 |
| 3-Sep-13 | 2940 | ND | ND | 33.2 | 1.18 | 60.5 |
| 29-Oct-13 | 1410 | ND | ND | 4.03 | 1.38 | 72.3 |
| 27-Jan-14 | 1400 | ND | ND | 13.8 | 0.549 | 59.4 |
| 19-May-14 | 1960 | ND | ND | 15.4 | 0.928 | 53.4 |
| 11-Aug-14 | 2120 | ND | 8.7 | 26 | 0.7 | 59 |
| 21-Oct-14 | 2090 | ND | ND | 23.2 | 0.934 | 60.1 |
| 9-Mar-15 | 1980 | ND | ND | 27.4 | 0.732 | 56.5 |
| 8-Jun-15 | 1980 | ND | ND | 11.2 | 0.419 | 62 |
| 31-Aug-15 | 2350 | ND | 4.05 | 11.6 | 0.684 | 69.6 |
| 19-Oct-15 | 2680 | ND | 1.32 | 8.28 | 0.991 | 62.6 |
| 9-Mar-16 | 2650 | ND | 1.32 | 4.66 | 1.45 | 68.3 |
| 23-May-16 | 2220 | ND | ND | 4.57 | 1.12 | 66.2 |
| 25-Jul-16 | 3190 | ND | ND | 7.81 | 1.57 | 66.4 |

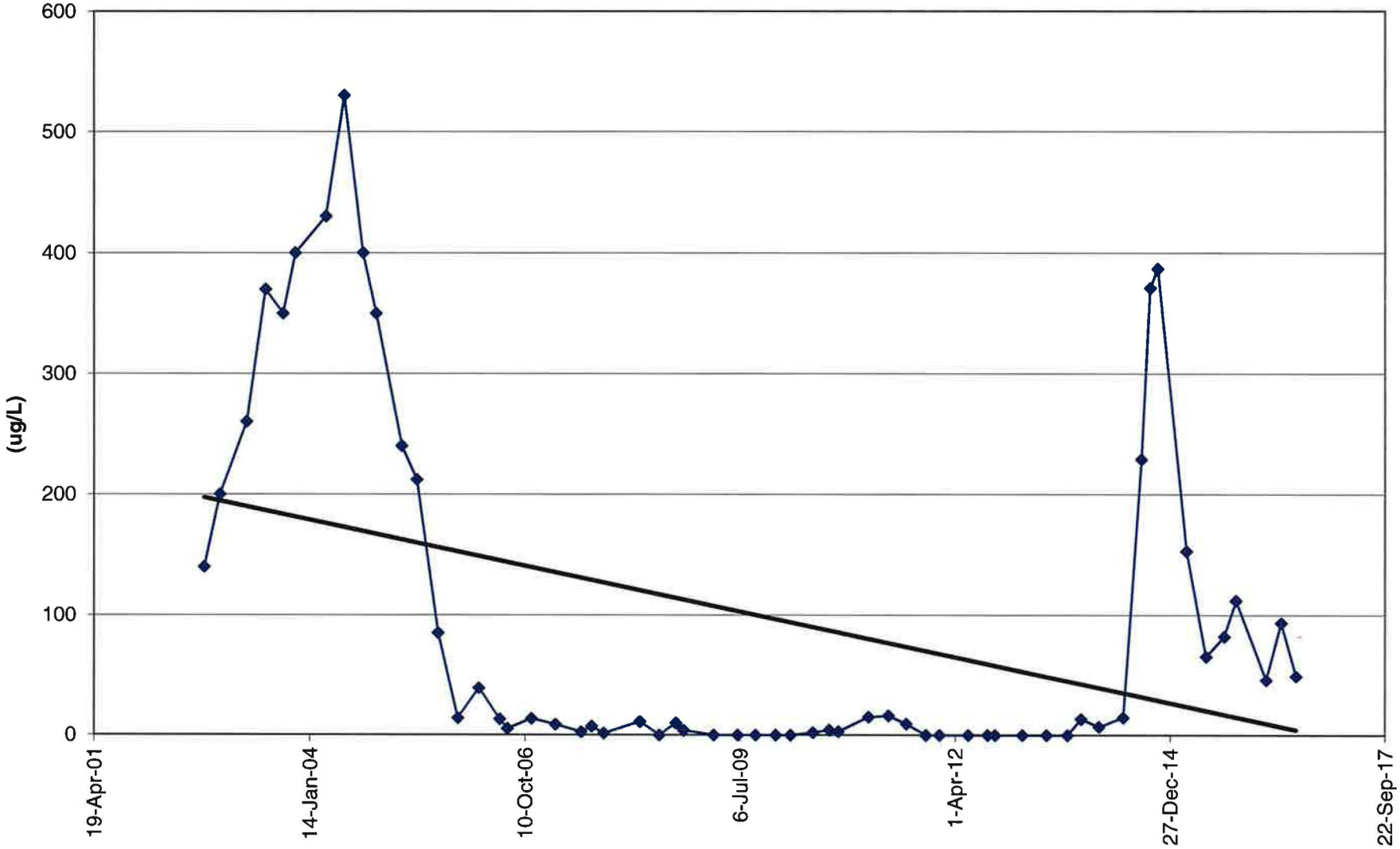
## MW-26 Chloroform Values



| TW4-16 | Chloroform (ug/l) | Carbon Tetrachloride (ug/l) | Chloromethane (ug/l) | Methylene Chloride (ug/l) | Nitrate (mg/l) | Chloride (mg/l) |
|---|---|---|---|---|---|---|
| 12-Sep-02 | 140 | | | | ND | |
| 24-Nov-02 | 200 | | | | ND | |
| 28-Mar-03 | 260 | | | | ND | |
| 23-Jun-03 | 370 | | | | ND | |
| 12-Sep-03 | 350 | | | | ND | |
| 8-Nov-03 | 400 | | | | ND | |
| 29-Mar-04 | 430 | | | | ND | |
| 22-Jun-04 | 530 | | | | ND | |
| 17-Sep-04 | 400 | | | | ND | |
| 17-Nov-04 | 350 | | | | ND | |
| 16-Mar-05 | 240 | | | | ND | |
| 25-May-05 | 212 | NA | NA | NA | <0.1 | NA |
| 31-Aug-05 | 85 | <1 | 3.2 | 43 | <0.1 | NA |
| 1-Dec-05 | 14 | <2.5 | 2.6 | 5.9 | 1.4 | NA |
| 9-Mar-06 | 39.0 | <1 | 1.1 | 21 | 3 | 60 |
| 14-Jun-06 | 13.0 | <1 | 2.4 | 8.9 | 1.9 | 55 |
| 20-Jul-06 | 5.2 | <1 | <1 | 2.7 | 2.7 | 60 |
| 8-Nov-06 | 13.6 | <1 | <1 | 9.2 | 5.6 | 62 |
| 28-Feb-07 | 8.7 | <1 | <1 | 6.5 | 12.3 | 79 |
| 27-Jun-07 | 2.6 | <1 | <1 | 1.8 | 9.9 | 75 |
| 15-Aug-07 | 7.1 | <1 | <1 | 5.1 | 5.4 | 66 |
| 10-Oct-07 | 1.4 | <1 | <1 | <1 | 4.4 | 69 |
| 26-Mar-08 | 11.0 | <1 | <1 | 26 | ND | 52 |
| 25-Jun-08 | <1 | <1 | <1 | <1 | 1.46 | 58 |
| 10-Sep-08 | 10 | <1 | <1 | 14 | 10.5 | 71 |
| 15-Oct-08 | 3.9 | <1 | <1 | 6.6 | 9.82 | 89 |
| 4-Mar-09 | <1 | <1 | <1 | <1 | 9.6 | 78 |
| 24-Jun-09 | <1 | <1 | <1 | <1 | 8.9 | 76 |
| 15-Sep-09 | <1 | <1 | <1 | <1 | 8.8 | 79 |
| 17-Dec-09 | <1 | <1 | <1 | <1 | 5.2 | 76 |
| 24-Feb-10 | <1 | <1 | <1 | <1 | 4.2 | 77 |
| 9-Jun-10 | 2.1 | <1 | <1 | <1 | 4.7 | 64 |
| 24-Aug-10 | 4.3 | <1 | <1 | <1 | 4.6 | 72 |
| 6-Oct-10 | 3.0 | <1 | <1 | <1 | 3.3 | 72 |
| 22-Feb-11 | 15.0 | ND | ND | ND | 7 | 86 |
| 26-May-11 | 16.0 | ND | ND | ND | 5 | 81 |
| 17-Aug-11 | 9.2 | ND | ND | ND | 1.7 | 63 |
| 16-Nov-11 | ND | ND | ND | 1.4 | 0.4 | 38 |
| 18-Jan-12 | ND | ND | ND | 1.7 | 0.1 | 48 |

| TW4-16 | Chloroform (ug/l) | Carbon Tetrachloride (ug/l) | Chloromethane (ug/l) | Methylene Chloride (ug/l) | Nitrate (mg/l) | Chloride (mg/l) |
|---|---|---|---|---|---|---|
| 31-May-12 | ND | ND | ND | ND | ND | 53 |
| 30-Aug-12 | ND | ND | ND | ND | ND | 59 |
| 3-Oct-12 | ND | ND | ND | 3 | ND | 53 |
| 7-Feb-13 | ND | ND | ND | 3 | ND | 58.1 |
| 30-May-13 | ND | ND | ND | 4.21 | ND | 49.8 |
| 5-Sep-13 | ND | ND | ND | ND | ND | 54.4 |
| 7-Nov-13 | 13.4 | ND | ND | ND | 1.37 | 56.6 |
| 29-Jan-14 | 6.9 | ND | ND | ND | 3.16 | 66.8 |
| 22-May-14 | 14.6 | ND | ND | ND | 4.94 | 80.7 |
| 14-Aug-14 | 229.0 | ND | ND | ND | 5.1 | 80 |
| 24-Sep-14 | 371.0 | ND | ND | ND | N/A | N/A |
| 29-Oct-14 | 387.0 | ND | ND | ND | 8.40 | 92.1 |
| 12-Mar-15 | 153.0 | ND | ND | ND | 4.30 | 65.3 |
| 11-Jun-15 | 65.3 | ND | ND | ND | 1.06 | 61 |
| 3-Sep-15 | 82.0 | ND | ND | ND | 1.18 | 65.8 |
| 28-Oct-15 | 112.0 | ND | ND | ND | 1.69 | 58.3 |
| 17-Mar-16 | 45.9 | ND | ND | ND | 1.63 | 56.5 |
| 26-May-16 | 93.4 | ND | ND | ND | 1.89 | 61.3 |
| 3-Aug-16 | 49.0 | ND | ND | ND | 2.20 | 60.0 |

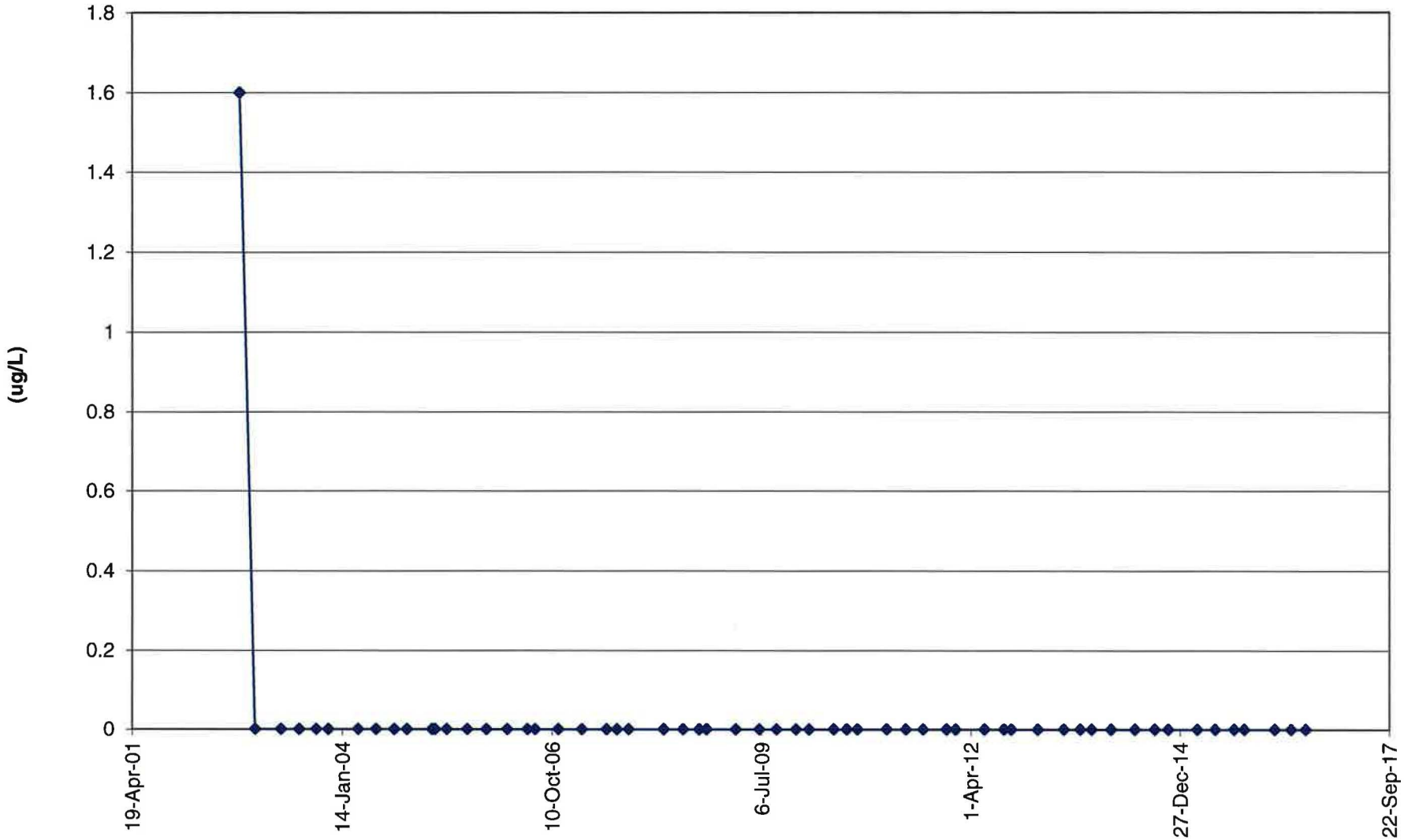
## TW4-16 Chloroform Values



| 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 |
| 18-Jun-13 | ND | ND | ND | ND | ND | 34.9 |
| 4-Sep-13 | ND | ND | ND | ND | ND | 33 |
| 29-Oct-13 | ND | ND | ND | ND | ND | 35.7 |
| 29-Jan-14 | ND | ND | ND | ND | ND | 34 |
| 23-May-14 | ND | ND | ND | ND | ND | 39.7 |
| 26-Aug-14 | ND | ND | ND | ND | ND | 34 |
| 29-Oct-14 | ND | ND | ND | ND | ND | 34.9 |
| 17-Mar-15 | ND | ND | ND | ND | ND | 36.3 |
| 11-Jun-15 | ND | ND | ND | ND | ND | 35.8 |
| 9-Sep-15 | ND | ND | ND | ND | ND | 37.7 |
| 28-Oct-15 | ND | ND | ND | ND | ND | 34.7 |
| 22-Mar-16 | ND | ND | ND | ND | ND | 36.7 |
| 8-Jun-16 | ND | ND | ND | ND | ND | 37.2 |
| 17-Aug-16 | ND | ND | ND | ND | ND | 37.5 |

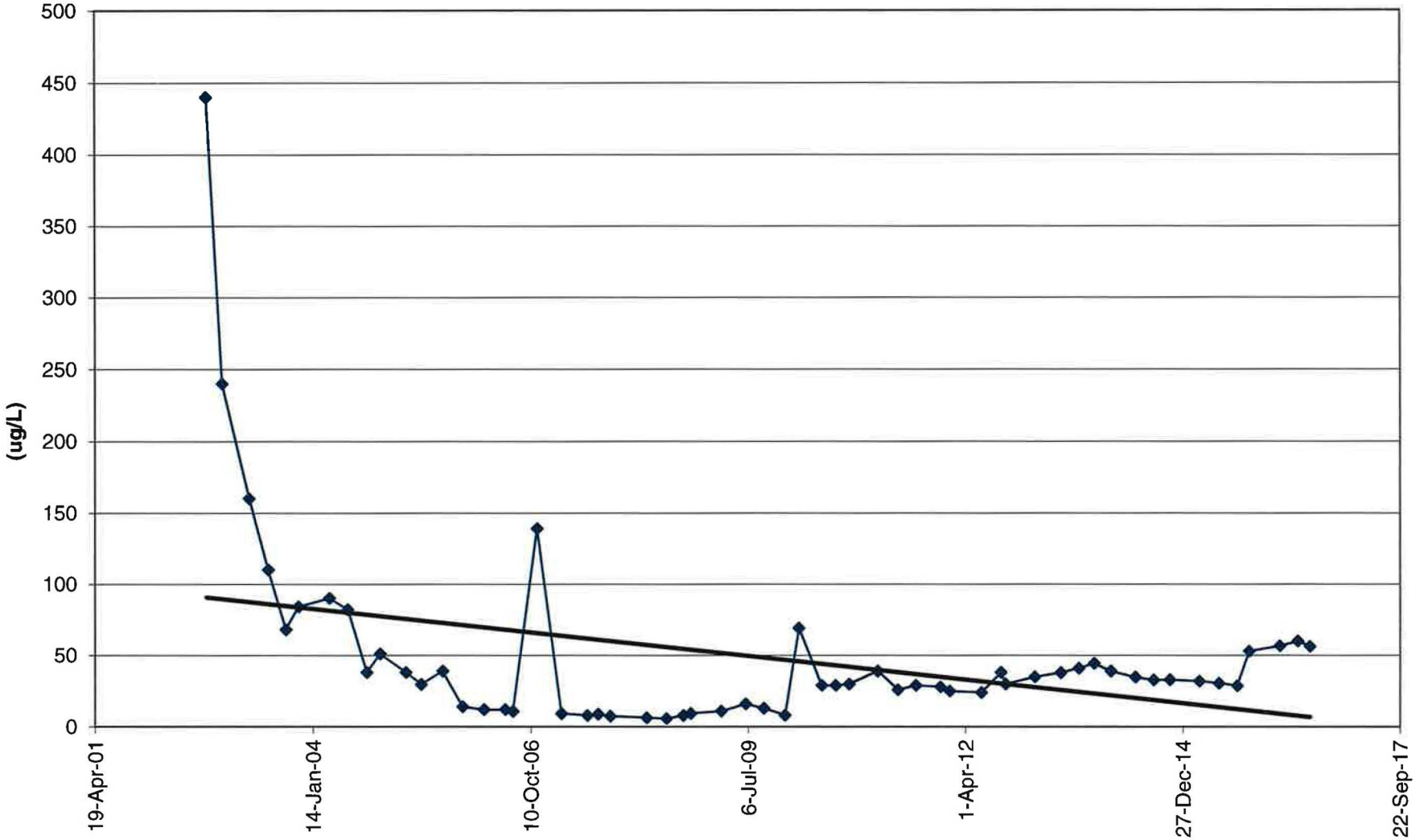
## MW-32 Chloroform Values



| TW4-18 | Chloroform (ug/l) | Carbon Tetrachloride (ug/l) | Chloromethane (ug/l) | Methylene Chloride (ug/l) | Nitrate (mg/l) | Chloride (mg/l) |
|---|---|---|---|---|---|---|
| 12-Sep-02 | 440 | | | | 1.49 | |
| 24-Nov-02 | 240 | | | | 13.3 | |
| 28-Mar-03 | 160 | | | | 13.1 | |
| 23-Jun-03 | 110 | | | | 19 | |
| 12-Sep-03 | 68.0 | | | | 19.9 | |
| 9-Nov-03 | 84.0 | | | | 20.7 | |
| 29-Mar-04 | 90.0 | | | | 14 | |
| 22-Jun-04 | 82.0 | | | | 12.2 | |
| 17-Sep-04 | 38.0 | | | | 14.5 | |
| 17-Nov-04 | 51.0 | | | | 17.3 | |
| 16-Mar-05 | 38.0 | | | | 14.1 | |
| 25-May-05 | 29.8 | NA | NA | NA | 12.9 | NA |
| 31-Aug-05 | 39 | <1 | 2.8 | <1 | 13.3 | NA |
| 1-Dec-05 | 14 | <1 | 1.1 | <1 | 7.3 | NA |
| 9-Mar-06 | 12.0 | <1 | 1.1 | <1 | 5.9 | 5.9 |
| 14-Jun-06 | 12.0 | <1 | 1.6 | <1 | 4.7 | 35 |
| 20-Jul-06 | 10.8 | <1 | 2.7 | <1 | 6.1 | 35 |
| 8-Nov-06 | 139 | <1 | <1 | <1 | 8.7 | 34 |
| 28-Feb-07 | 9.2 | <1 | <1 | <1 | 5.1 | 30 |
| 27-Jun-07 | 8.0 | <1 | <1 | <1 | 4.9 | 28 |
| 15-Aug-07 | 8.9 | <1 | <1 | <1 | 5 | 32 |
| 10-Oct-07 | 7.4 | <1 | <1 | <1 | 4.4 | 27 |
| 26-Mar-08 | 6.4 | <1 | <1 | <1 | 0.7 | 23 |
| 25-Jun-08 | 5.7 | <1 | <1 | <1 | 4.55 | 23 |
| 10-Sep-08 | 8.0 | <1 | <1 | <1 | 4.68 | 26 |
| 15-Oct-08 | 9.4 | <1 | <1 | <1 | 5,15 | 30 |
| 4-Mar-09 | 11.0 | <1 | <1 | <1 | 5.2 | 29 |
| 24-Jun-09 | 16.0 | <1 | <1 | <1 | 6.2 | 30 |
| 15-Sep-09 | 13.0 | <1 | <1 | <1 | 5.9 | 26 |
| 22-Dec-09 | 8.2 | <1 | <1 | <1 | 5.4 | 30 |
| 24-Feb-10 | 69.0 | <1 | <1 | <1 | 5.1 | 41 |
| 9-Jun-10 | 29.0 | <1 | <1 | <1 | 9 | 35 |
| 12-Aug-10 | 29.0 | <1 | <1 | <1 | 9 | 37 |
| 13-Oct-10 | 30.0 | <1 | <1 | <1 | 10 | 50 |
| 22-Feb-11 | 39.0 | ND | ND | ND | 10 | 52 |
| 26-May-11 | 26.0 | ND | ND | ND | 9 | 36 |
| 17-Aug-11 | 29.0 | ND | ND | ND | 4.6 | 23 |
| 7-Dec-11 | 28.0 | ND | ND | ND | 6.3 | 23 |
| 19-Jan-12 | 25.0 | ND | ND | ND | 4.4 | 18 |

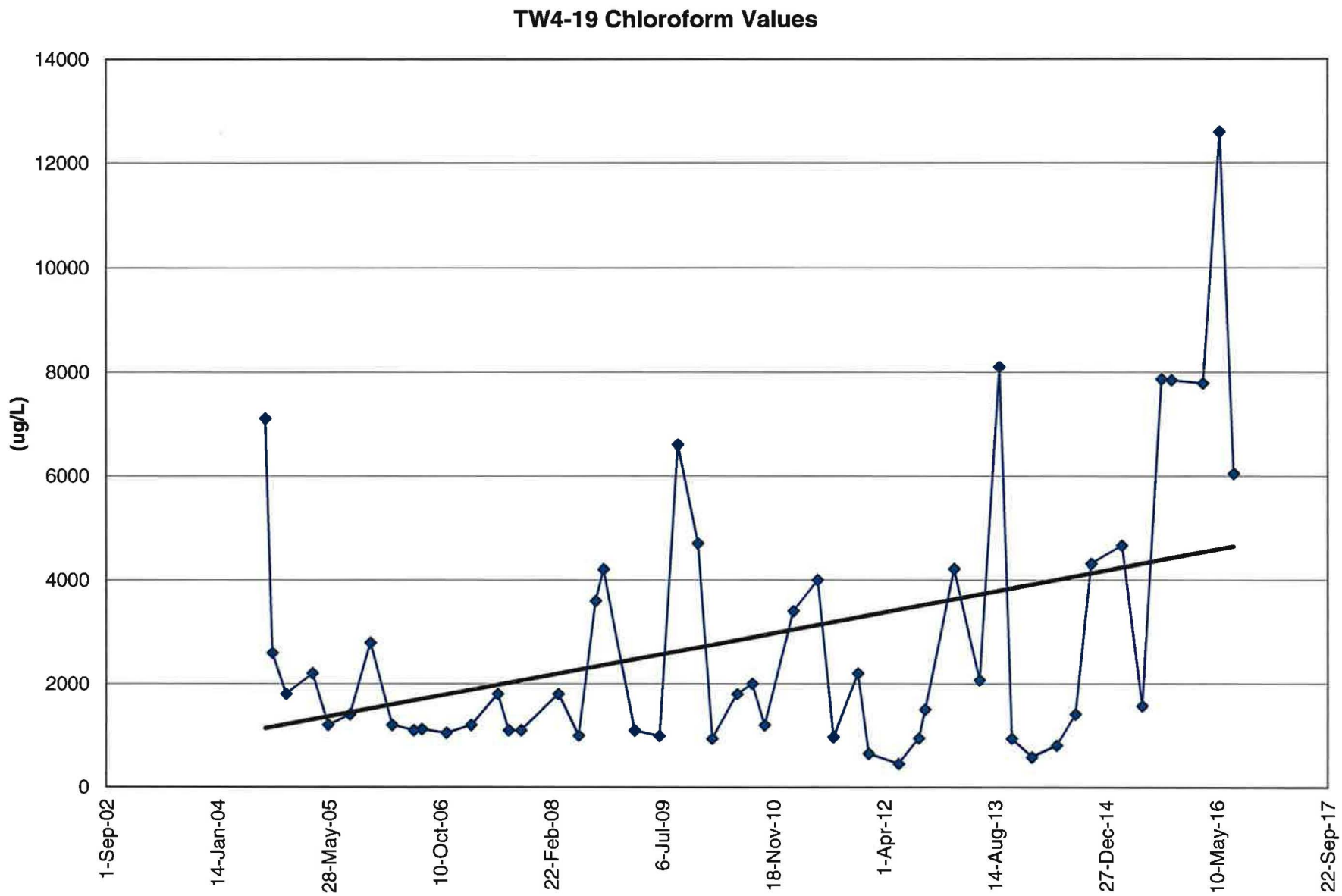
| TW4-18 | Chloroform (ug/l) | Carbon Tetrachloride (ug/l) | Chloromethane (ug/l) | Methylene Chloride (ug/l) | Nitrate (mg/l) | Chloride (mg/l) |
|---|---|---|---|---|---|---|
| 13-Jun-12 | 24.0 | ND | ND | ND | 6.6 | 30 |
| 11-Sep-12 | 38.0 | ND | ND | ND | 6.6 | 26 |
| 3-Oct-12 | 30.0 | ND | ND | ND | 6 | 27 |
| 13-Feb-13 | 34.9 | ND | ND | ND | 5.58 | 23.1 |
| 13-Jun-13 | 37.9 | ND | ND | ND | 8.86 | 22.9 |
| 5-Sep-13 | 41.0 | ND | ND | ND | 12.1 | 36.2 |
| 13-Nov-13 | 44.3 | ND | ND | ND | 14.2 | 37.1 |
| 30-Jan-14 | 38.9 | ND | ND | ND | 12.8 | 40.9 |
| 22-May-14 | 34.8 | ND | ND | ND | 12.2 | 47 |
| 14-Aug-14 | 32.8 | ND | ND | ND | 9.8 | 49 |
| 28-Oct-14 | 33.0 | ND | ND | ND | 11.1 | 40.8 |
| 12-Mar-15 | 32.0 | ND | ND | ND | 11.7 | 41.6 |
| 11-Jun-15 | 30.5 | ND | ND | ND | 9.69 | 43.5 |
| 3-Sep-15 | 28.7 | ND | ND | ND | 15.7 | 47.6 |
| 28-Oct-15 | 52.9 | ND | ND | ND | 6.24 | 39.4 |
| 17-Mar-16 | 56.6 | ND | ND | ND | 5.96 | 40.7 |
| 8-Jun-16 | 60.0 | ND | ND | ND | 5.43 | 43.8 |
| 3-Aug-16 | 56.3 | ND | ND | ND | 5.79 | 40.7 |

## TW4-18 Chloroform Values



| TW4-19 | Chloroform (ug/l) | Carbon Tetrachloride (ug/l) | Chloromethane (ug/l) | Methylene Chloride (ug/l) | Nitrate (mg/l) | Chloride (mg/l) |
|---|---|---|---|---|---|---|
| 12-Sep-02 | 7700 | | | | 47.6 | |
| 24-Nov-02 | 5400 | | | | 42 | |
| 28-Mar-03 | 4200 | | | | 61.4 | |
| 15-May-03 | 4700 | | | | NA | |
| 23-Jun-03 | 4500 | | | | 11.4 | |
| 15-Jul-03 | 2400 | | | | 6.8 | |
| 15-Aug-03 | 2600 | | | | 4 | |
| 12-Sep-03 | 2500 | | | | 5.7 | |
| 25-Sep-03 | 4600 | | | | 9.2 | |
| 29-Oct-03 | 4600 | | | | 7.7 | |
| 9-Nov-03 | 2600 | | | | 4.8 | |
| 29-Mar-04 | NA | | | | NA | |
| 22-Jun-04 | NA | | | | NA | |
| 16-Aug-04 | 7100 | | | | 9.91 | |
| 17-Sep-04 | 2600 | | | | 4.5 | |
| 17-Nov-04 | 1800 | | | | 3.6 | |
| 16-Mar-05 | 2200 | | | | 5.3 | |
| 25-May-05 | 1200 | | | | 5.7 | |
| 31-Aug-05 | 1400 | <5 | <5 | <5 | 4.6 | NA |
| 1-Dec-05 | 2800 | <50 | <50 | <50 | <0.1 | NA |
| 9-Mar-06 | 1200 | <50 | <50 | <50 | 4 | 86 |
| 14-Jun-06 | 1100 | <50 | <50 | <50 | 5.2 | 116 |
| 20-Jul-06 | 1120 | <50 | <50 | <50 | 4.3 | 123 |
| 8-Nov-06 | 1050 | 1.6 | 2.6 | <1 | 4.6 | 134 |
| 28-Feb-07 | 1200 | 1.3 | <1 | <1 | 4 | 133 |
| 27-Jun-07 | 1800 | | | | 2.3 | |
| 15-Aug-07 | 1100 | 1.9 | <1 | <1 | 4.1 | 129 |
| 10-Oct-07 | 1100 | 1.9 | <1 | <1 | 4 | 132 |
| 26-Mar-08 | 1800 | 2.9 | <1 | <1 | 2.2 | 131 |
| 25-Jun-08 | 1000 | 1 | <1 | <1 | 2.81 | 128 |
| 10-Sep-08 | 3600 | 8.6 | <1 | <1 | 36.2 | 113 |
| 15-Oct-08 | 4200 | 12 | <1 | <1 | 47.8 | 124 |
| 4-Mar-09 | 1100 | 1.2 | <1 | <1 | 3.2 | 127 |
| 24-Jun-09 | 990 | 1.2 | <1 | <1 | 2.4 | 132 |
| 15-Sep-09 | 6600 | 15 | <1 | <1 | 0.1 | 43 |
| 14-Dec-09 | 4700 | 16 | <1 | <1 | 26.7 | 124 |
| 17-Feb-10 | 940 | 1.3 | <1 | <1 | 2 | 144 |
| 9-Jun-10 | 1800 | 4.2 | <1 | <1 | 4.4 | 132 |
| 16-Aug-10 | 2000 | 4.9 | <1 | <1 | 5.9 | 142 |

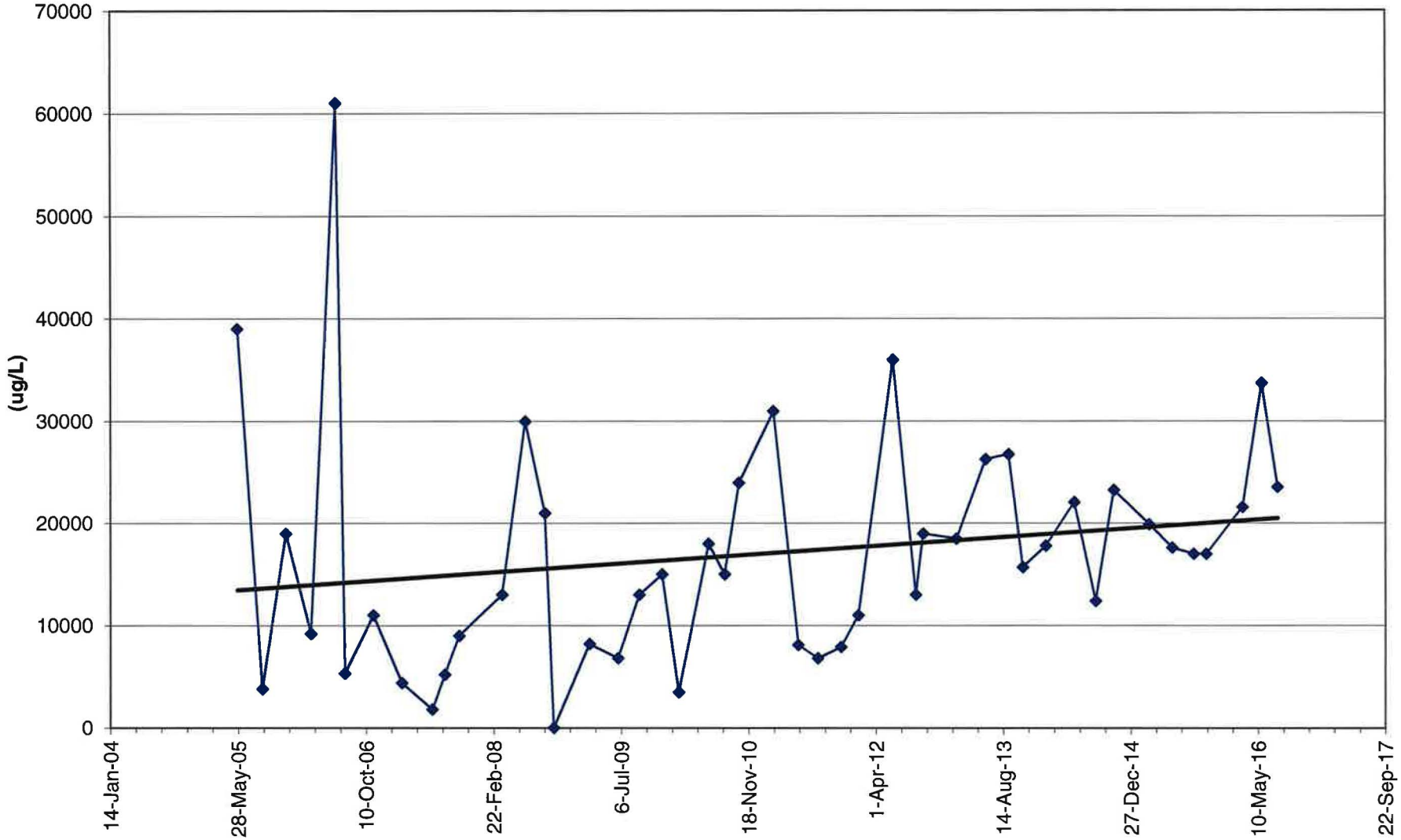
| TW4-19 | Chloroform (ug/l) | Carbon Tetrachloride (ug/l) | Chloromethane (ug/l) | Methylene Chloride (ug/l) | Nitrate (mg/l) | Chloride (mg/l) |
|---|---|---|---|---|---|---|
| 11-Oct-10 | 1200 | 1.3 | <1 | <1 | 2.7 | 146 |
| 17-Feb-11 | 3400 | 17 | ND | ND | 17 | 135 |
| 7-Jun-11 | 4000 | 8.3 | ND | ND | 12 | 148 |
| 17-Aug-11 | 970 | 2.1 | ND | ND | 3 | 148 |
| 5-Dec-11 | 2200 | 5.4 | ND | ND | 5 | 148 |
| 23-Jan-12 | 650 | 1.5 | ND | ND | 0.6 | 138 |
| 6-Jun-12 | 460 | 1.1 | ND | ND | 2.4 | 149 |
| 5-Sep-12 | 950 | 3.5 | ND | ND | 2.5 | 149 |
| 3-Oct-12 | 1500 | 4 | ND | ND | 4.1 | 150 |
| 11-Feb-13 | 4210 | 5.15 | ND | ND | 7.99 | 164 |
| 5-Jun-13 | 2070 | 5.15 | ND | ND | 2.95 | 148 |
| 3-Sep-13 | 8100 | 20.7 | ND | ND | 17.6 | 179 |
| 29-Oct-13 | 942 | 6.42 | ND | ND | 4.7 | 134 |
| 27-Jan-14 | 586 | 4.05 | ND | ND | 1.62 | 134 |
| 19-May-14 | 810 | 5.51 | ND | ND | 1.34 | 152 |
| 11-Aug-14 | 1410 | 1.9 | 8.3 | ND | 1.6 | 140 |
| 21-Oct-14 | 4310 | 4.8 | ND | ND | 4.72 | 130 |
| 9-Mar-15 | 4660 | 8.92 | ND | ND | 8.56 | 238 |
| 8-Jun-15 | 1570 | 2.62 | ND | ND | 0.916 | 180 |
| 4-Sep-15 | 7860 | 7.78 | ND | ND | 11.6 | 326 |
| 19-Oct-15 | 7840 | 12.2 | 5.46 | ND | 10.6 | 252 |
| 9-Mar-16 | 7780 | 13.5 | 1.40 | ND | 15.7 | 276 |
| 23-May-16 | 12600 | 23.1 | ND | ND | 1.27 | 204 |
| 25-Jul-16 | 6040 | 9.89 | ND | ND | 10.5 | 214 |


TW4-19 Chloroform Values
14000
12000
10000
8000
6000
4000
2000
0
(ug/L)
1-Sep-02
14-Jan-04
28-May-05
10-Oct-06
22-Feb-08
6-Jul-09
18-Nov-10
1-Apr-12
14-Aug-13
27-Dec-14
10-May-16
22-Sep-17

| 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 |
| 5-Jun-13 | 26300 | 32.5 | ND | 1.13 | 9.76 | 250 |
| 3-Sep-13 | 26800 | 25.7 | ND | 2.14 | 8.65 | 260 |
| 29-Oct-13 | 15700 | 17.3 | ND | 1.37 | 9.64 | 272 |
| 27-Jan-14 | 17800 | 18.4 | ND | 2.04 | 7.56 | 254 |
| 19-May-14 | 22100 | 22.1 | 2.31 | 3.98 | 5.95 | 269 |
| 11-Aug-14 | 12400 | 14.1 | 55.2 | 2.2 | 4.3 | 299 |
| 21-Oct-14 | 23300 | 18.5 | 4.04 | 2.38 | 7.67 | 292 |

| TW4-20 | Chloroform (ug/l) | Carbon Tetrachloride (ug/l) | Chloromethane (ug/l) | Methylene Chloride (ug/l) | Nitrate (mg/l) | Chloride (mg/l) |
|---|---|---|---|---|---|---|
| 9-Mar-15 | 19900 | 20.8 | 4.85 | 1.38 | 9.8 | 290 |
| 8-Jun-15 | 17600 | 16.2 | 13.4 | 1.73 | 5.76 | 296 |
| 31-Aug-15 | 17000 | 15.1 | 12.3 | ND | 9.27 | 365 |
| 19-Oct-15 | 17000 | 14.5 | 10.8 | 1 | 6.23 | 293 |
| 9-Mar-16 | 21600 | 20.2 | 4.09 | 1.16 | 10.3 | 293 |
| 23-May-16 | 33700 | 40.6 | ND | ND | 11.2 | 318 |
| 25-Jul-16 | 23600 | 26.6 | ND | ND | 11.3 | 307 |

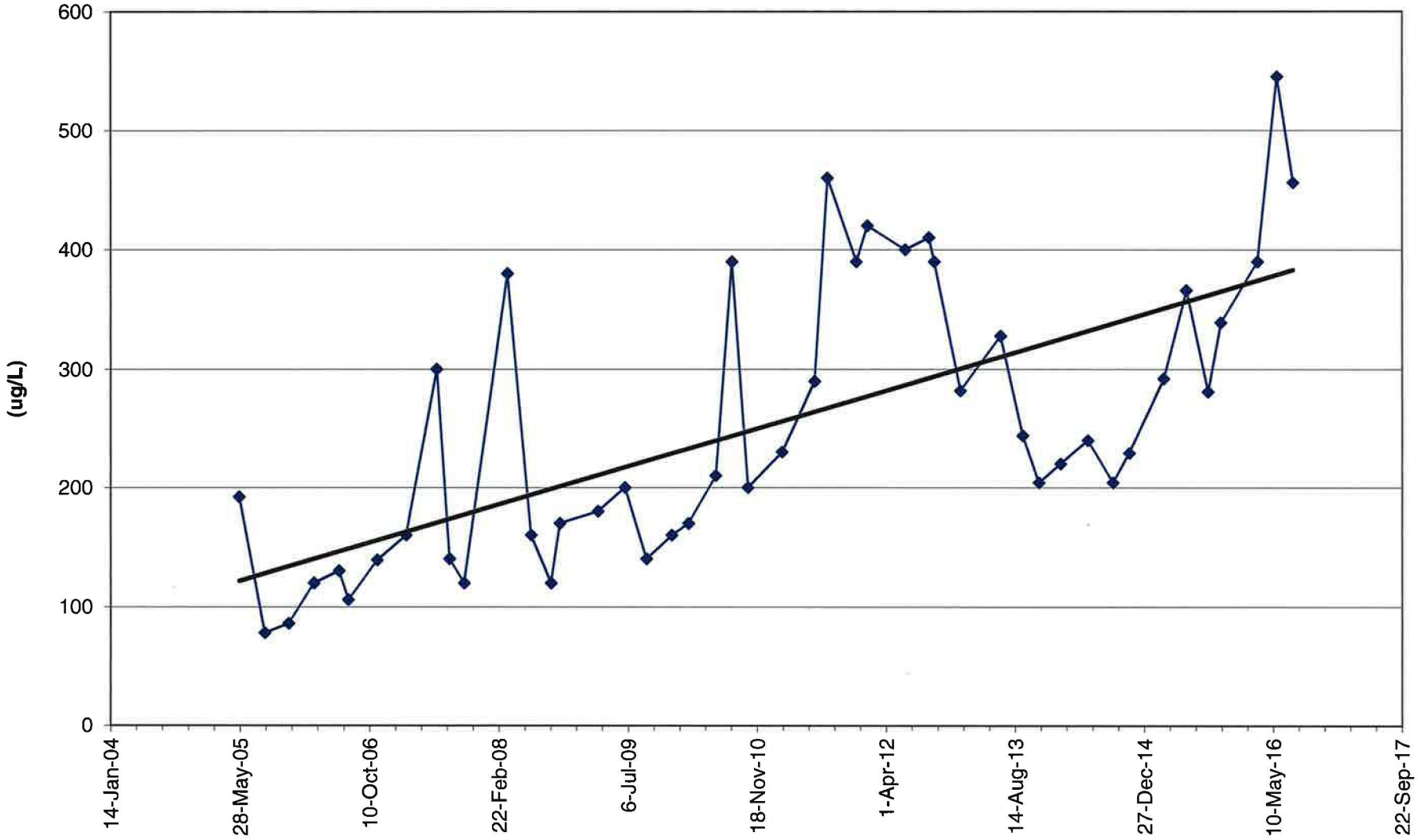
## TW4-20 Chloroform Values



| 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 |
| 18-Jun-13 | 328 | 3.49 | ND | ND | 13.8 | 243 |
| 12-Sep-13 | 244 | 2.13 | ND | ND | 10.3 | 207 |
| 13-Nov-13 | 204 | ND | ND | ND | 9 | 206 |
| 5-Feb-14 | 220 | 6.23 | ND | ND | 11.4 | 200 |
| 22-May-14 | 240 | 4.73 | ND | ND | 11.5 | 243 |
| 27-Aug-14 | 204 | ND | ND | ND | 7.1 | 230 |
| 29-Oct-14 | 229 | 1.04 | ND | ND | 10 | 252 |

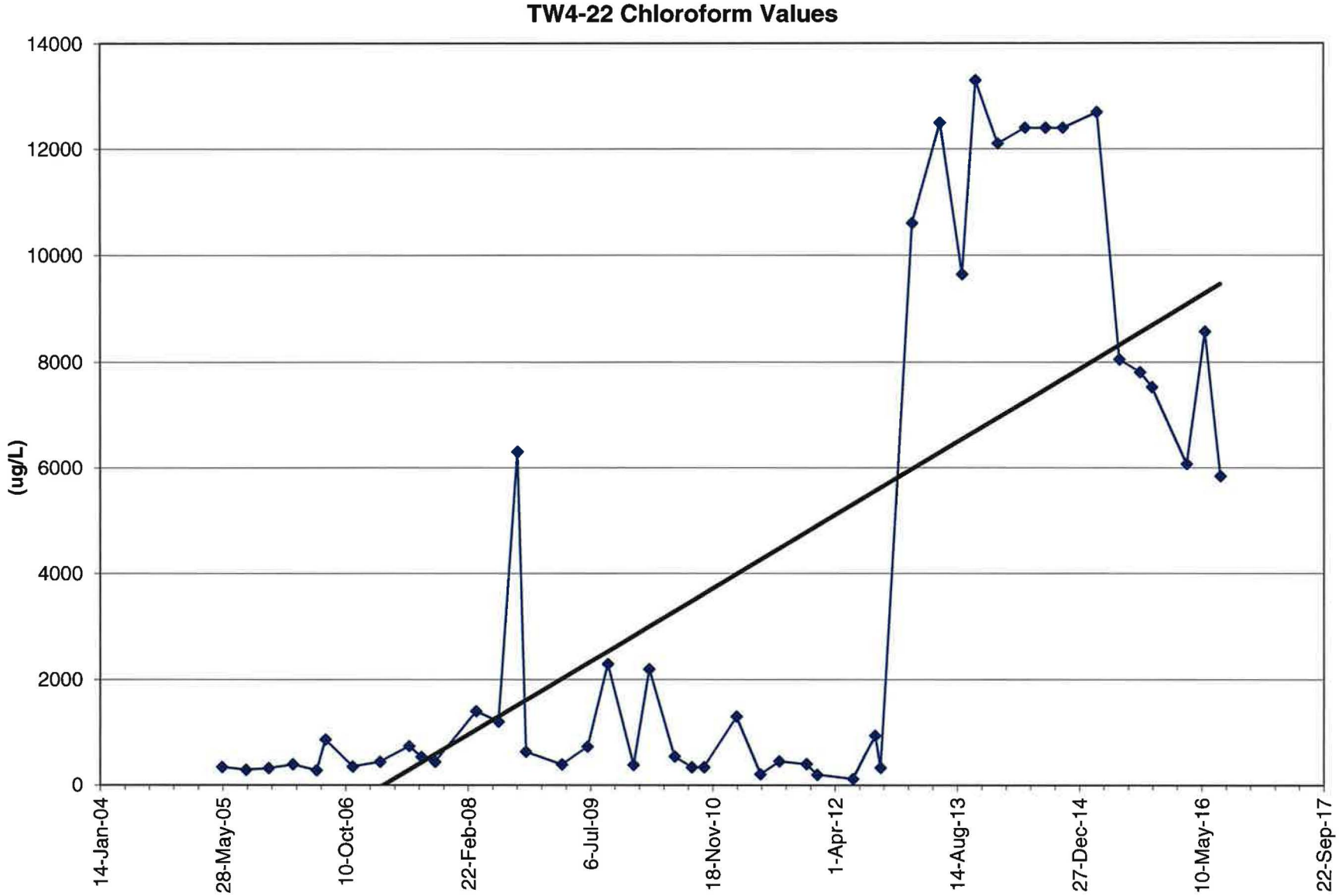
| TW4-21 | Chloroform (ug/l) | Carbon Tetrachloride (ug/l) | Chloromethane (ug/l) | Methylene Chloride (ug/l) | Nitrate (mg/l) | Chloride (mg/l) |
|---|---|---|---|---|---|---|
| 12-Mar-15 | 292 | 1.75 | ND | ND | 10.9 | 255 |
| 8-Jun-15 | 366 | 1.92 | ND | ND | 13.1 | 494 |
| 31-Aug-15 | 281 | ND | ND | ND | 14.7 | 499 |
| 19-Oct-15 | 339 | ND | ND | ND | 14.3 | 413 |
| 9-Mar-16 | 390 | ND | ND | ND | 14.6 | 452 |
| 23-May-16 | 545 | ND | ND | ND | 13.1 | 425 |
| 25-Jul-16 | 456 | ND | ND | ND | 16.5 | 457 |

## TW4-21 Chloroform Values

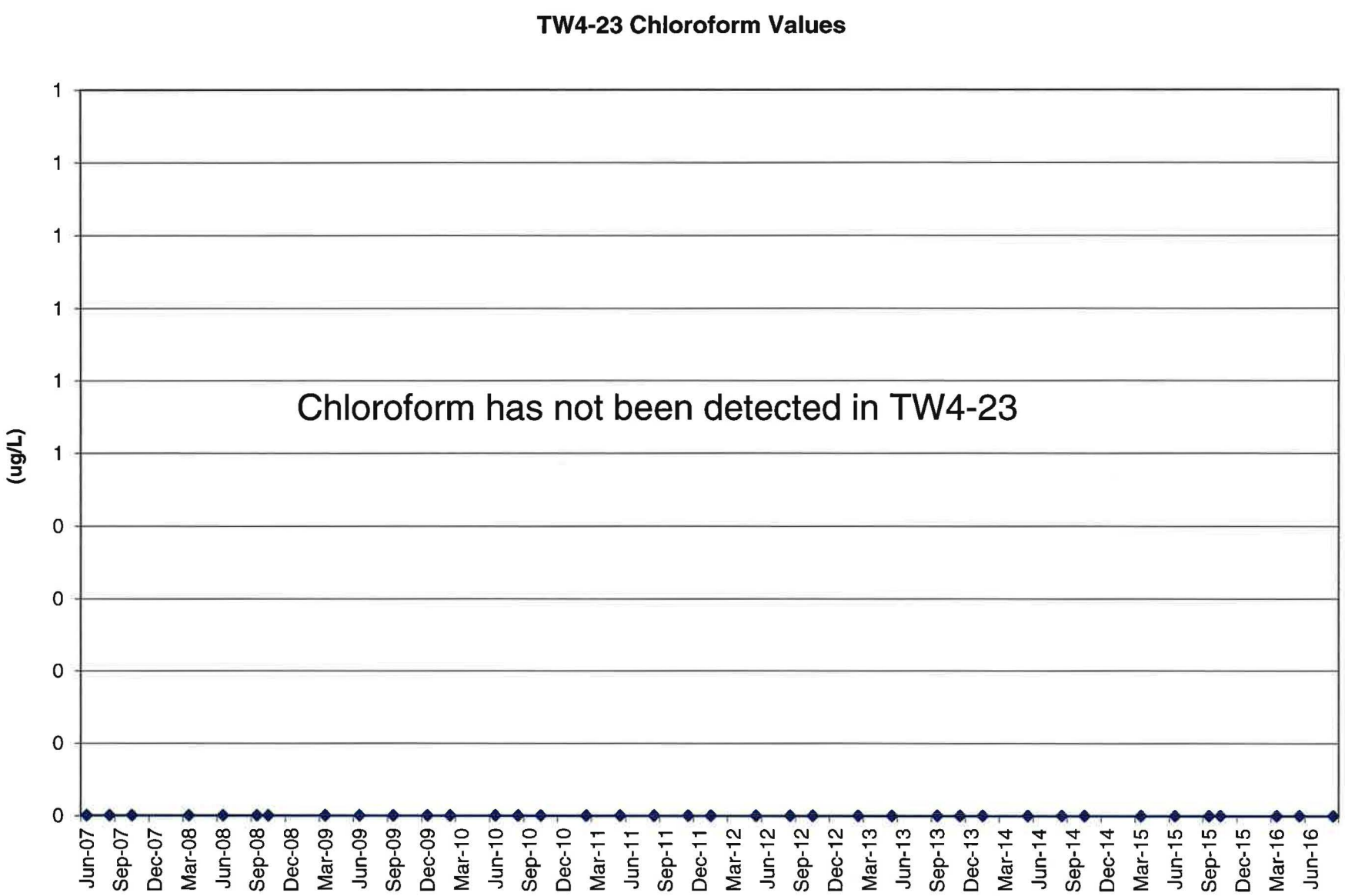


| TW4-22 | Chloroform (ug/l) | Carbon Tetrachloride (ug/l) | Chloromethane (ug/l) | Methylene Chloride (ug/l) | Nitrate (mg/l) | Chloride (mg/l) |
|---|---|---|---|---|---|---|
| 25-May-05 | 340 | NA | NA | NA | 18.2 | NA |
| 31-Aug-05 | 290 | <5 | <5 | <5 | 15.7 | NA |
| 1-Dec-05 | 320 | <5 | <5 | <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 |
| 5-Jun-13 | 12500 | 3.35 | ND | ND | 50.2 | 586 |
| 3-Sep-13 | 9640 | 3.25 | ND | ND | 29.7 | 487 |
| 29-Oct-13 | 13300 | 8.09 | ND | ND | 45.2 | 501 |
| 27-Jan-14 | 12100 | 6.06 | ND | 2.83 | 54.6 | 598 |
| 19-May-14 | 12400 | 6.65 | ND | ND | 47.2 | 614 |
| 11-Aug-14 | 12400 | 1.9 | 40 | ND | 41.5 | 540 |
| 21-Oct-14 | 12400 | 3.32 | 1.61 | ND | 54.9 | 596 |

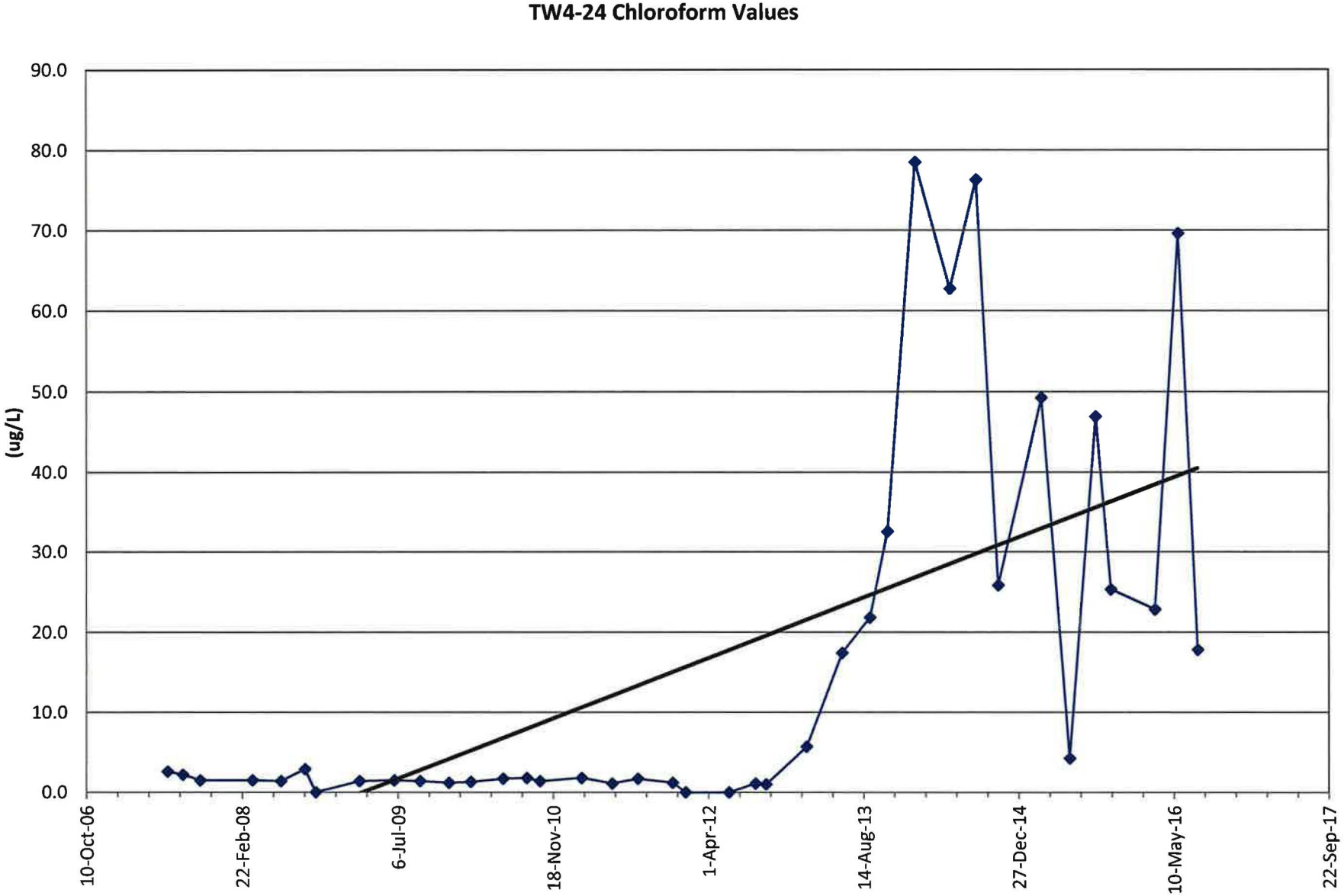
| TW4-22 | Chloroform (ug/l) | Carbon Tetrachloride (ug/l) | Chloromethane (ug/l) | Methylene Chloride (ug/l) | Nitrate (mg/l) | Chloride (mg/l) |
|---|---|---|---|---|---|---|
| 9-Mar-15 | 12700 | 3.77 | 4.31 | ND | 69.2 | 675 |
| 8-Jun-15 | 8050 | 2.42 | 3.42 | ND | 47.1 | 390 |
| 31-Aug-15 | 7810 | ND | 5.47 | ND | 64.7 | 557 |
| 19-Oct-15 | 7530 | ND | 5.1 | ND | 56.1 | 567 |
| 9-Mar-16 | 6070 | ND | ND | ND | 31.1 | 583 |
| 23-May-16 | 8570 | 2.64 | ND | ND | 58.4 | 598 |
| 25-Jul-16 | 5840 | ND | ND | ND | 61.3 | 619 |


TW4-22 Chloroform Values
14000
12000
10000
8000
6000
4000
2000
0
(ug/L)
14-Jan-04
28-May-05
10-Oct-06
22-Feb-08
6-Jul-09
18-Nov-10
1-Apr-12
14-Aug-13
27-Dec-14
10-May-16
22-Sep-17

| 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 |
| 30-May-13 | ND | ND | ND | ND | 0.116 | 44.7 |
| 5-Sep-13 | ND | ND | ND | ND | ND | 48.0 |
| 7-Nov-13 | ND | ND | ND | ND | ND | 43.0 |
| 23-Jan-14 | ND | ND | ND | ND | ND | 44.6 |
| 21-May-14 | ND | ND | ND | ND | ND | 42.3 |
| 13-Aug-14 | ND | ND | ND | ND | ND | 46.0 |
| 28-Oct-14 | ND | ND | ND | ND | ND | 46.8 |
| 12-Mar-15 | ND | ND | ND | ND | ND | 47.3 |
| 10-Jun-15 | ND | ND | ND | ND | ND | 48.4 |
| 3-Sep-15 | ND | ND | ND | ND | ND | 54.1 |
| 28-Oct-15 | ND | ND | ND | ND | ND | 46.4 |
| 16-Mar-16 | ND | ND | ND | ND | ND | 49.1 |
| 26-May-16 | ND | ND | ND | ND | ND | 50.4 |
| 3-Aug-16 | ND | ND | ND | ND | ND | 49.6 |

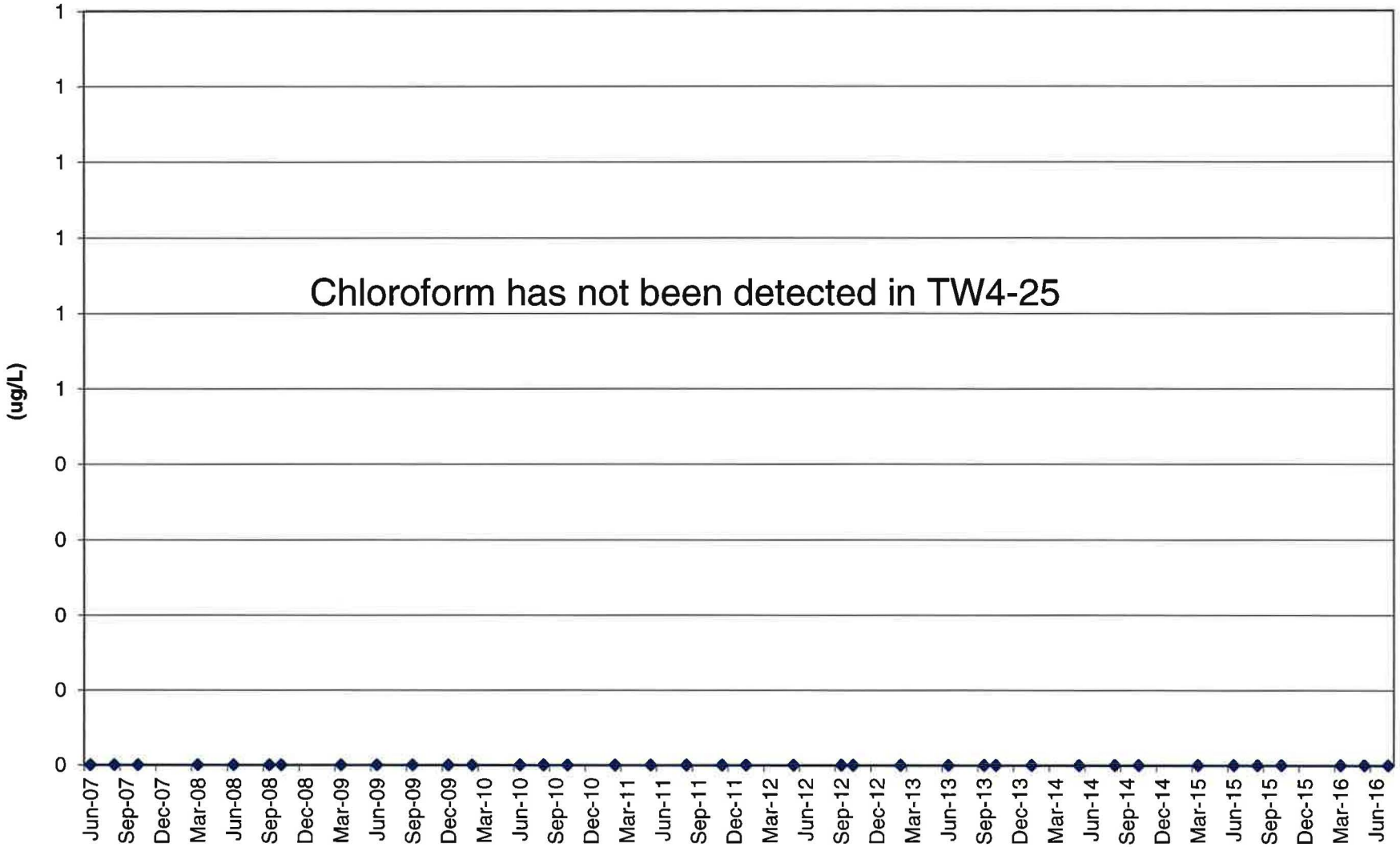

TW4-23 Chloroform Values
(ug/L)
1
1
1
1
1
1
0
0
0
0
0
Chloroform has not been detected in TW4-23
Jun-07
Sep-07
Dec-07
Mar-08
Jun-08
Sep-08
Dec-08
Mar-09
Jun-09
Sep-09
Dec-09
Mar-10
Jun-10
Sep-10
Dec-10
Mar-11
Jun-11
Sep-11
Dec-11
Mar-12
Jun-12
Sep-12
Dec-12
Mar-13
Jun-13
Sep-13
Dec-13
Mar-14
Jun-14
Sep-14
Dec-14
Mar-15
Jun-15
Sep-15
Dec-15
Mar-16
Jun-16

| 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 |
| 5-Jun-13 | 17.4 | ND | ND | ND | 23.7 | 916 |
| 3-Sep-13 | 21.8 | ND | ND | ND | 32.6 | 998 |
| 29-Oct-13 | 32.5 | ND | ND | ND | 34.6 | 1030 |
| 27-Jan-14 | 78.5 | ND | ND | 1.18 | 31.6 | 809 |
| 19-May-14 | 62.7 | ND | ND | ND | 35 | 1020 |
| 11-Aug-14 | 76.3 | ND | ND | ND | 31.5 | 1150 |
| 21-Oct-14 | 25.8 | ND | ND | ND | 35.7 | 1050 |
| 9-Mar-15 | 49.2 | ND | ND | ND | 34.6 | 944 |
| 8-Jun-15 | 4.3 | ND | ND | ND | 31.8 | 1290 |
| 31-Aug-15 | 46.9 | ND | ND | ND | 25.3 | 788 |
| 19-Oct-15 | 25.3 | ND | ND | ND | 29.6 | 909 |
| 9-Mar-16 | 22.8 | ND | ND | ND | 29.1 | 989 |
| 23-May-16 | 69.6 | ND | ND | ND | 24.2 | 771 |
| 25-Jul-16 | 17.8 | ND | ND | ND | 34.4 | 1180 |

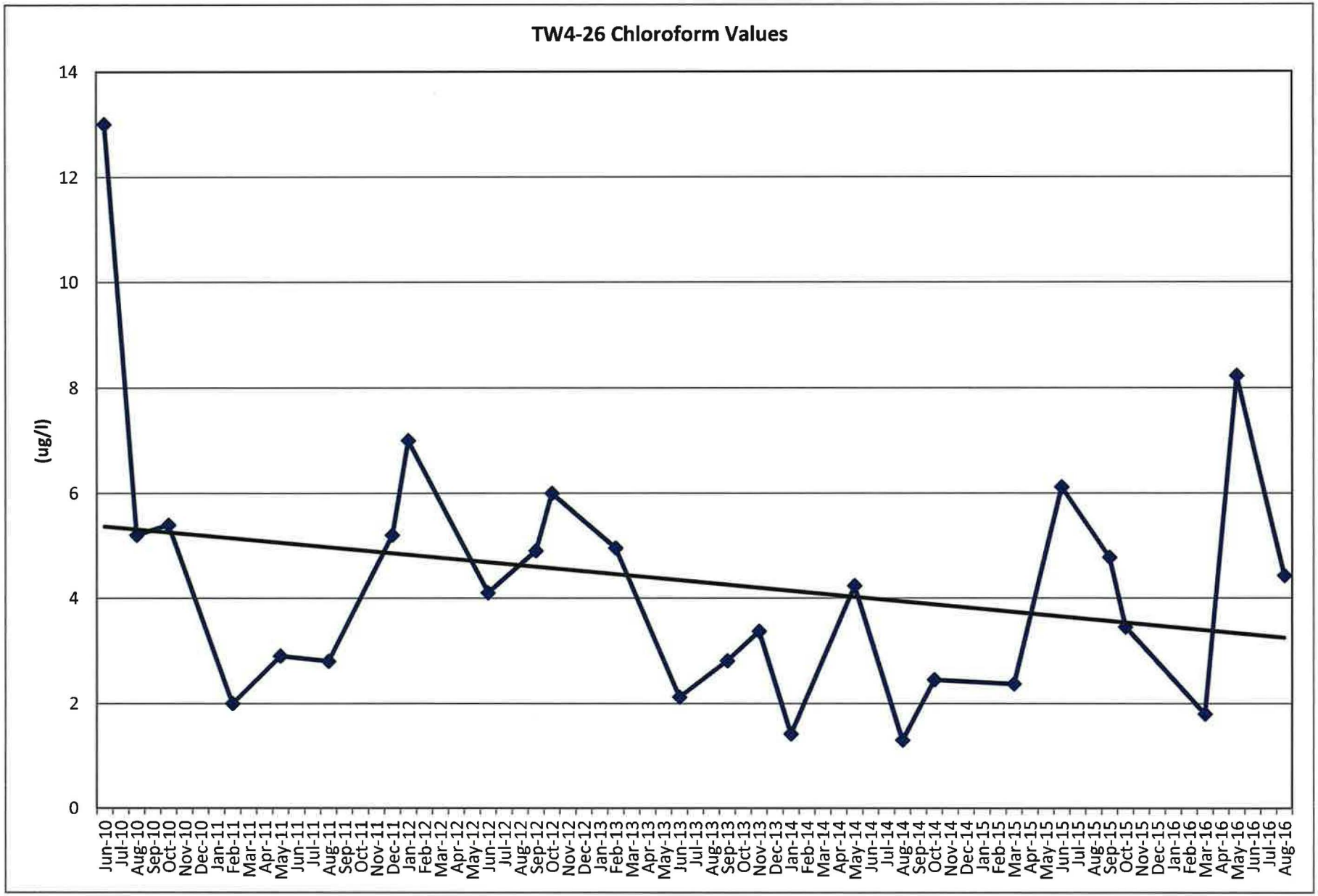

TW4-24 Chloroform Values
90.0
80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
(ug/L)
10-Oct-06
22-Feb-08
6-Jul-09
18-Nov-10
1-Apr-12
14-Aug-13
27-Dec-14
10-May-16
22-Sep-17

| 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 |
| 5-Jun-13 | ND | ND | ND | ND | 5.24 | 136 |
| 3-Sep-13 | ND | ND | ND | ND | 5.69 | 119 |
| 29-Oct-13 | ND | ND | ND | ND | 6.1 | 88.6 |
| 27-Jan-14 | ND | ND | ND | ND | 2.16 | 85.7 |
| 19-May-14 | ND | ND | ND | ND | 1.21 | 51.1 |
| 11-Aug-14 | ND | ND | ND | ND | 1.6 | 67 |
| 21-Oct-14 | ND | ND | ND | ND | 1.03 | 58.1 |
| 9-Mar-15 | ND | ND | ND | ND | 14.4 | 310 |
| 8-Jun-15 | ND | ND | ND | ND | 1.14 | 58.3 |
| 31-Aug-15 | ND | ND | ND | ND | 1.63 | 69.2 |
| 21-Oct-15 | ND | ND | ND | ND | 1.78 | 93.7 |
| 9-Mar-16 | ND | ND | ND | ND | 0.837 | 62.7 |
| 23-May-16 | ND | ND | ND | ND | 0.959 | 75.5 |
| 25-Jul-16 | ND | ND | ND | ND | 1.78 | 74.1 |

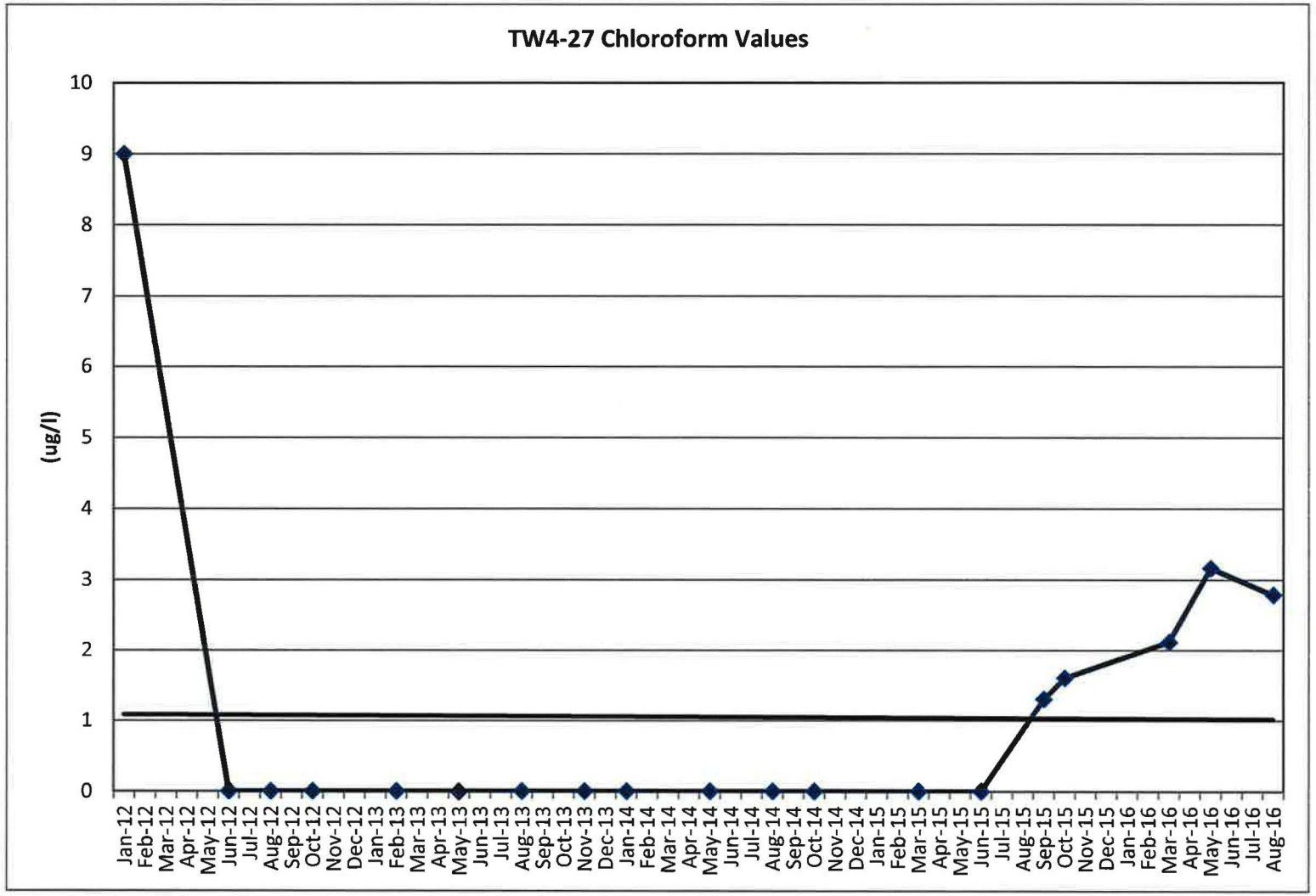
**TW4-25 Chloroform Values**



| 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 |
| 13-Jun-13 | 2.1 | ND | ND | ND | 13.6 | 14.5 |
| 5-Sep-13 | 2.8 | ND | ND | ND | 11.7 | 17.6 |
| 7-Nov-13 | 3.4 | ND | ND | ND | 15.9 | 15.9 |
| 29-Jan-14 | 1.4 | ND | ND | ND | 14.2 | 16.9 |
| 21-May-14 | 4.2 | ND | ND | ND | 12.5 | 15.4 |
| 11-Aug-14 | 1.3 | ND | ND | ND | 10.8 | 15 |
| 28-Oct-14 | 2.45 | ND | ND | ND | 12.3 | 14.6 |
| 12-Mar-15 | 2.37 | ND | ND | ND | 14.4 | 14.4 |
| 10-Jun-15 | 6.12 | ND | 1.17 | ND | 11.3 | 14.4 |
| 3-Sep-15 | 4.77 | ND | ND | ND | 14.2 | 14.0 |
| 28-Oct-15 | 3.45 | ND | ND | ND | 13.9 | 13.3 |
| 16-Mar-16 | 1.80 | ND | ND | ND | 16.9 | 13.7 |
| 26-May-16 | 8.23 | ND | ND | ND | 15.2 | 13.9 |
| 3-Aug-16 | 4.42 | ND | ND | ND | 17.9 | 13.9 |

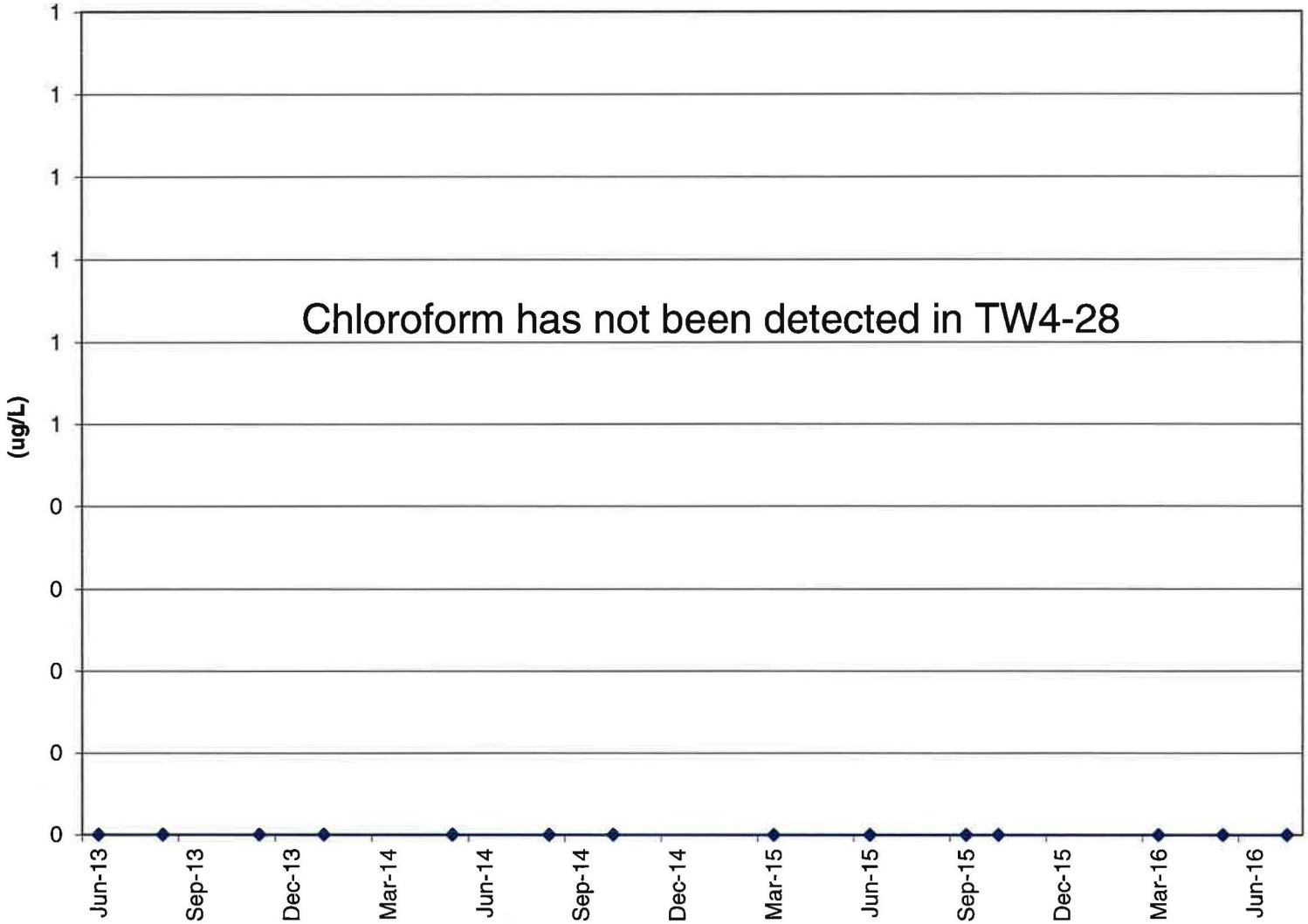

TW4-26 Chloroform Values
(ug/l)
0
2
4
6
8
10
12
14
Jun-10
Jul-10
Aug-10
Sep-10
Oct-10
Nov-10
Dec-10
Jan-11
Feb-11
Mar-11
Apr-11
May-11
Jun-11
Jul-11
Aug-11
Sep-11
Oct-11
Nov-11
Dec-11
Jan-12
Feb-12
Mar-12
Apr-12
May-12
Jun-12
Jul-12
Aug-12
Sep-12
Oct-12
Nov-12
Dec-12
Jan-13
Feb-13
Mar-13
Apr-13
May-13
Jun-13
Jul-13
Aug-13
Sep-13
Oct-13
Nov-13
Dec-13
Jan-14
Feb-14
Mar-14
Apr-14
May-14
Jun-14
Jul-14
Aug-14
Sep-14
Oct-14
Nov-14
Dec-14
Jan-15
Feb-15
Mar-15
Apr-15
May-15
Jun-15
Jul-15
Aug-15
Sep-15
Oct-15
Nov-15
Dec-15
Jan-16
Feb-16
Mar-16
Apr-16
May-16
Jun-16
Jul-16
Aug-16

| TW4-27 | Chloroform (ug/l) | Carbon Tetrachloride (ug/l) | Chloromethane (ug/l) | Methylene Chloride (ug/l) | Nitrate (mg/l) | Chloride (mg/l) |
|---|---|---|---|---|---|---|
| 24-Jan-12 | 9 | ND | ND | ND | 24 | 11 |
| 13-Jun-12 | ND | ND | ND | ND | 41 | 17 |
| 30-Aug-12 | ND | ND | ND | ND | 37 | 21 |
| 3-Oct-12 | ND | ND | ND | ND | 36 | 18 |
| 7-Feb-13 | ND | ND | ND | ND | 31.2 | 18.8 |
| 30-May-13 | ND | ND | ND | ND | 29.4 | 20.3 |
| 29-Aug-13 | ND | ND | ND | ND | 27.2 | 19 |
| 6-Nov-13 | ND | ND | ND | ND | 29.8 | 21.8 |
| 23-Jan-14 | ND | ND | ND | ND | 31.3 | 21.8 |
| 21-May-14 | ND | ND | ND | ND | 31.1 | 20.6 |
| 13-Aug-14 | ND | ND | ND | ND | 27.0 | 23 |
| 23-Oct-14 | ND | ND | ND | ND | 28.2 | 24.4 |
| 11-Mar-15 | ND | ND | ND | ND | 26.5 | 26.2 |
| 10-Jun-15 | ND | ND | ND | ND | 24.0 | 26.8 |
| 2-Sep-15 | 1.30 | ND | ND | ND | 20.9 | 26.8 |
| 28-Oct-15 | 1.60 | ND | ND | ND | 23.5 | 26.2 |
| 16-Mar-16 | 2.11 | ND | ND | ND | 25.0 | 28.0 |
| 26-May-16 | 3.16 | ND | ND | ND | 21.2 | 28.7 |
| 3-Aug-16 | 2.78 | ND | ND | ND | 21.8 | 27.1 |

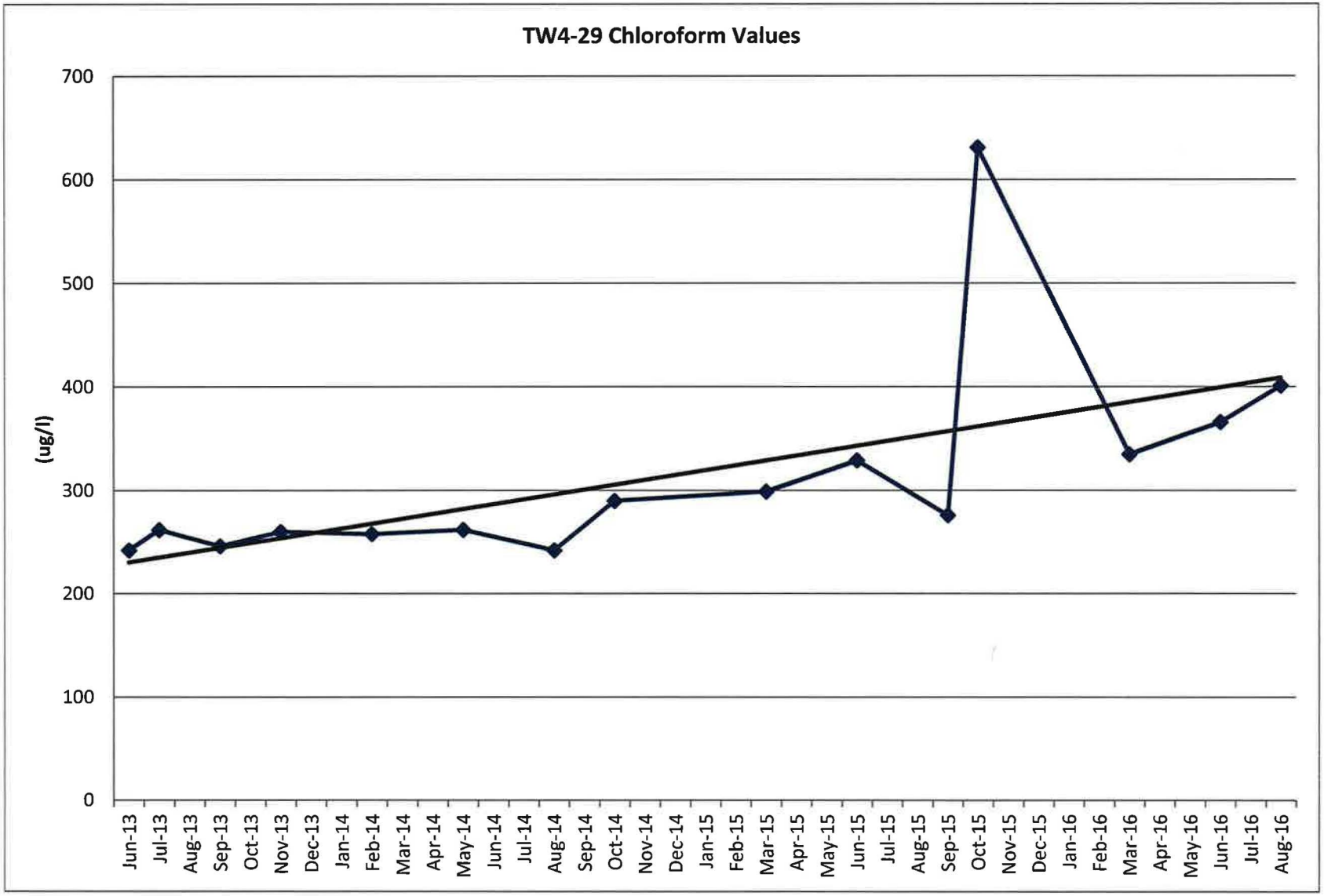

TW4-27 Chloroform Values
(ug/l)
10
9
8
7
6
5
4
3
2
1
0
Jan-12
Feb-12
Mar-12
Apr-12
May-12
Jun-12
Jul-12
Aug-12
Sep-12
Oct-12
Nov-12
Dec-12
Jan-13
Feb-13
Mar-13
Apr-13
May-13
Jun-13
Jul-13
Aug-13
Sep-13
Oct-13
Nov-13
Dec-13
Jan-14
Feb-14
Mar-14
Apr-14
May-14
Jun-14
Jul-14
Aug-14
Sep-14
Oct-14
Nov-14
Dec-14
Jan-15
Feb-15
Mar-15
Apr-15
May-15
Jun-15
Jul-15
Aug-15
Sep-15
Oct-15
Nov-15
Dec-15
Jan-16
Feb-16
Mar-16
Apr-16
May-16
Jun-16
Jul-16
Aug-16

| TW4-28 | Chloroform (ug/l) | Carbon Tetrachloride (ug/l) | Chloromethane (ug/l) | Methylene Chloride (ug/l) | Nitrate (mg/l) | Chloride (mg/l) |
|---|---|---|---|---|---|---|
| 19-Jun-13 | ND | ND | ND | ND | 14.9 | 44.6 |
| 29-Aug-13 | ND | ND | ND | ND | 17.3 | 45.3 |
| 6-Nov-13 | ND | ND | ND | ND | 16.2 | 45.2 |
| 22-Jan-14 | ND | ND | ND | ND | 16.9 | 47.8 |
| 21-May-14 | ND | ND | ND | ND | 16.5 | 45.7 |
| 13-Aug-14 | ND | ND | ND | ND | 14.2 | 50 |
| 23-Oct-14 | ND | ND | ND | ND | 16.5 | 52.1 |
| 11-Mar-15 | ND | ND | ND | ND | 19 | 52.2 |
| 10-Jun-15 | ND | ND | ND | ND | 19 | 56.4 |
| 2-Sep-15 | ND | ND | ND | ND | 17.8 | 61.4 |
| 21-Oct-15 | ND | ND | ND | ND | 18.7 | 52.7 |
| 15-Mar-16 | ND | ND | ND | ND | 34.0 | 61.6 |
| 25-May-16 | ND | ND | ND | ND | 29.0 | 67.1 |
| 27-Jul-16 | ND | ND | ND | ND | 31.3 | 70.1 |

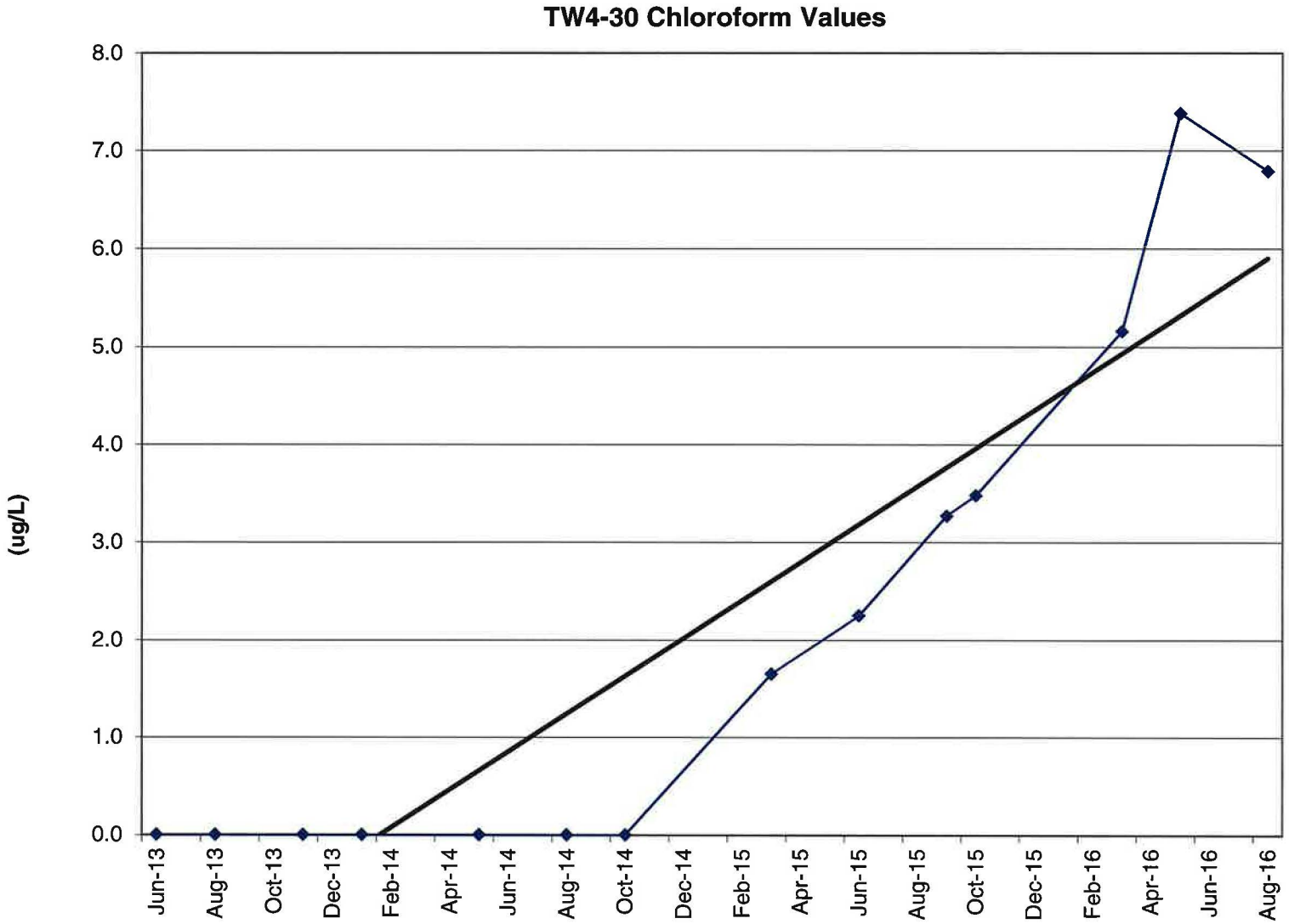
**TW4-28 Chloroform Values**



| TW4-29 | Chloroform (ug/l) | Carbon Tetrachloride (ug/l) | Chloromethane (ug/l) | Methylene Chloride (ug/l) | Nitrate (mg/l) | Chloride (mg/l) |
|---|---|---|---|---|---|---|
| 19-Jun-13 | 242 | ND | ND | ND | 4.63 | 44.8 |
| 11-Jul-13 | 262 | ND | ND | ND | 3.52 | 37.7 |
| 26-Sep-13 | 246 | ND | ND | ND | 4.18 | 41.4 |
| 13-Nov-13 | 260 | ND | ND | ND | 4.11 | 42.5 |
| 5-Feb-14 | 258 | ND | ND | ND | 4.63 | 41.9 |
| 22-May-14 | 262 | ND | ND | ND | 3.52 | 38.2 |
| 27-Aug-14 | 242 | ND | ND | ND | 3.4 | 41 |
| 29-Oct-14 | 290 | ND | ND | ND | 3.64 | 41 |
| 12-Mar-15 | 299 | ND | ND | ND | 4.14 | 40.5 |
| 11-Jun-15 | 329 | ND | ND | ND | 2.95 | 42.5 |
| 3-Sep-15 | 276 | ND | ND | ND | 2.19 | 47.3 |
| 29-Oct-15 | 631 | ND | ND | ND | 2.74 | 39.8 |
| 17-Mar-16 | 335 | ND | ND | ND | 2.92 | 40.3 |
| 8-Jun-16 | 366 | ND | ND | ND | 2.51 | 42.9 |
| 4-Aug-16 | 401 | ND | ND | ND | 2.44 | 40.6 |

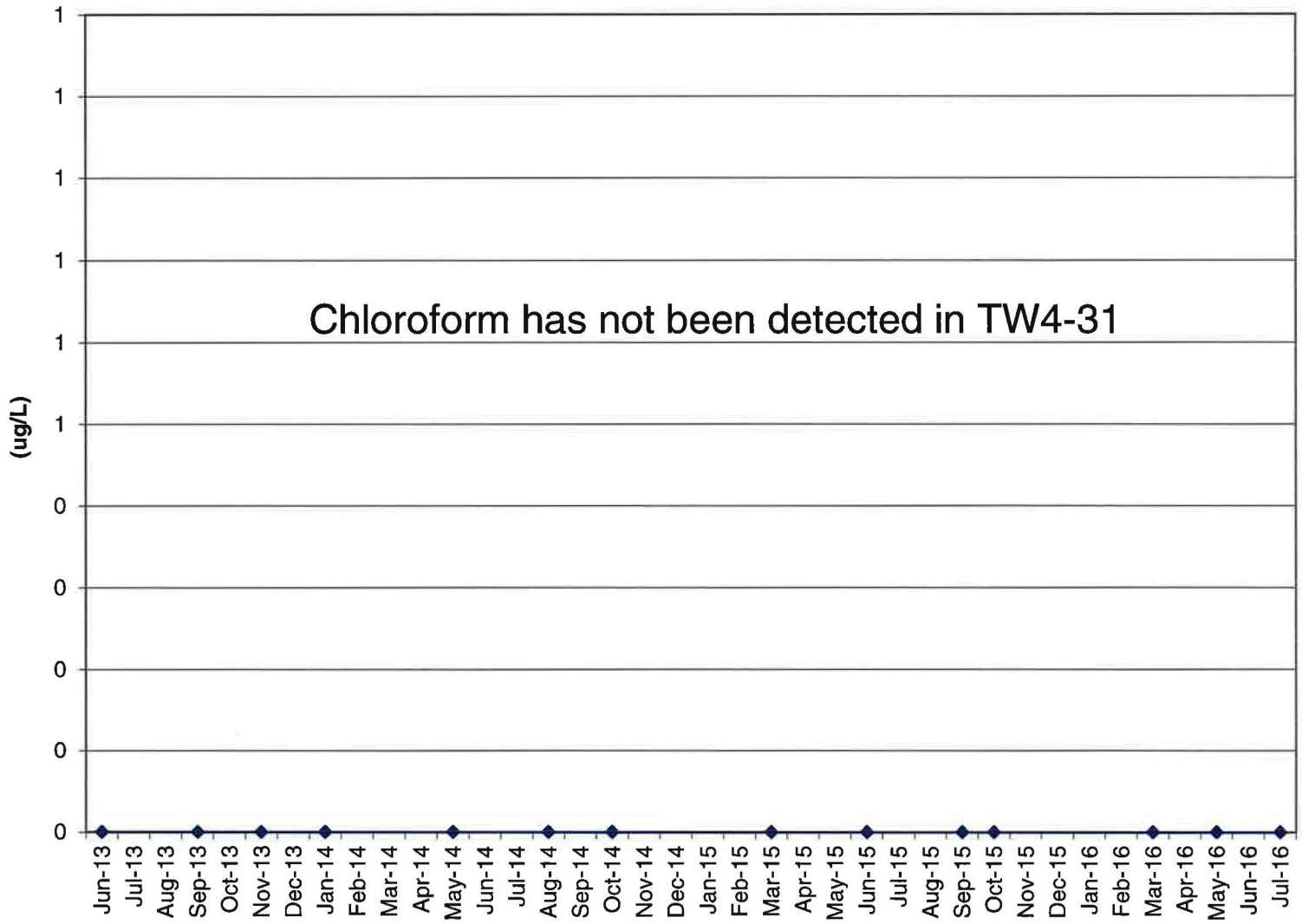

TW4-29 Chloroform Values
(ug/l)
700
600
500
400
300
200
100
0
Jun-13
Jul-13
Aug-13
Sep-13
Oct-13
Nov-13
Dec-13
Jan-14
Feb-14
Mar-14
Apr-14
May-14
Jun-14
Jul-14
Aug-14
Sep-14
Oct-14
Nov-14
Dec-14
Jan-15
Feb-15
Mar-15
Apr-15
May-15
Jun-15
Jul-15
Aug-15
Sep-15
Oct-15
Nov-15
Dec-15
Jan-16
Feb-16
Mar-16
Apr-16
May-16
Jun-16
Jul-16
Aug-16

| TW4-30 | Chloroform (ug/l) | Carbon Tetrachloride (ug/l) | Chloromethane (ug/l) | Methylene Chloride (ug/l) | Nitrate (mg/l) | Chloride (mg/l) |
|---|---|---|---|---|---|---|
| 19-Jun-13 | ND | ND | ND | ND | 0.948 | 36 |
| 29-Aug-13 | ND | ND | ND | ND | 0.952 | 36.3 |
| 7-Nov-13 | ND | ND | ND | ND | 1.24 | 35.9 |
| 23-Jan-14 | ND | ND | ND | ND | 1.36 | 36 |
| 21-May-14 | ND | ND | ND | ND | 1.44 | 31.99 |
| 13-Aug-14 | ND | ND | ND | ND | 1.5 | 38 |
| 23-Oct-14 | ND | ND | ND | ND | 1.84 | 37.1 |
| 11-Mar-15 | 1.65 | ND | ND | ND | 2.15 | 38.3 |
| 10-Jun-15 | 2.25 | ND | ND | ND | 1.75 | 40.3 |
| 3-Sep-15 | 3.27 | ND | ND | ND | 1.75 | 44.2 |
| 28-Oct-15 | 3.48 | ND | ND | ND | 1.86 | 37.8 |
| 17-Mar-16 | 5.16 | ND | ND | ND | 2.74 | 39.6 |
| 26-May-16 | 7.38 | ND | ND | ND | 2.04 | 40.2 |
| 3-Aug-16 | 6.79 | ND | ND | ND | 2.32 | 38.6 |


TW4-30 Chloroform Values
(ug/L)
8.0
7.0
6.0
5.0
4.0
3.0
2.0
1.0
0.0
Jun-13
Aug-13
Oct-13
Dec-13
Feb-14
Apr-14
Jun-14
Aug-14
Oct-14
Dec-14
Feb-15
Apr-15
Jun-15
Aug-15
Oct-15
Dec-15
Feb-16
Apr-16
Jun-16
Aug-16

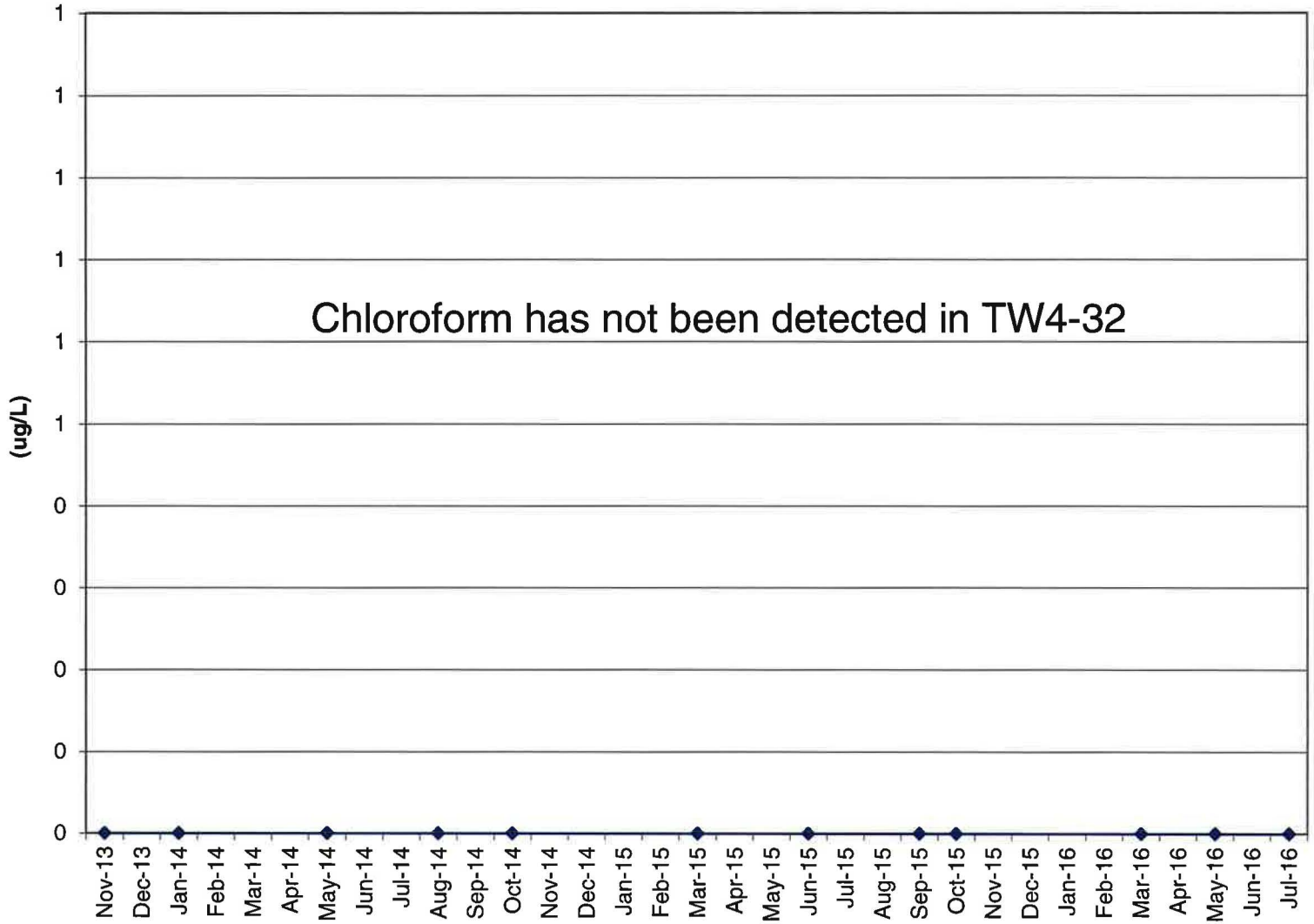
| TW4-31 | Chloroform (ug/l) | Carbon Tetrachloride (ug/l) | Chloromethane (ug/l) | Methylene Chloride (ug/l) | Nitrate (mg/l) | Chloride (mg/l) |
|---|---|---|---|---|---|---|
| 19-Jun-13 | ND | ND | ND | ND | 1.26 | 28.4 |
| 5-Sep-13 | ND | ND | ND | ND | 1.1 | 29.4 |
| 7-Nov-13 | ND | ND | ND | ND | 1.33 | 28 |
| 23-Jan-14 | ND | ND | ND | ND | 1.32 | 28.5 |
| 21-May-14 | ND | ND | ND | ND | 1.22 | 26.3 |
| 13-Aug-14 | ND | ND | ND | ND | 1.1 | 30 |
| 28-Oct-14 | ND | ND | ND | ND | 1.23 | 30 |
| 11-Mar-15 | ND | ND | ND | ND | 1.33 | 30.6 |
| 10-Jun-15 | ND | ND | ND | ND | 1.19 | 31.1 |
| 2-Sep-15 | ND | ND | ND | ND | 0.916 | 30.4 |
| 21-Oct-15 | ND | ND | ND | ND | 0.953 | 29.1 |
| 16-Mar-16 | ND | ND | ND | ND | 1.84 | 31.5 |
| 25-May-16 | ND | ND | ND | ND | 1.36 | 32.5 |
| 28-Jul-16 | ND | ND | ND | ND | 1.41 | 30.6 |

**TW4-31 Chloroform Values**



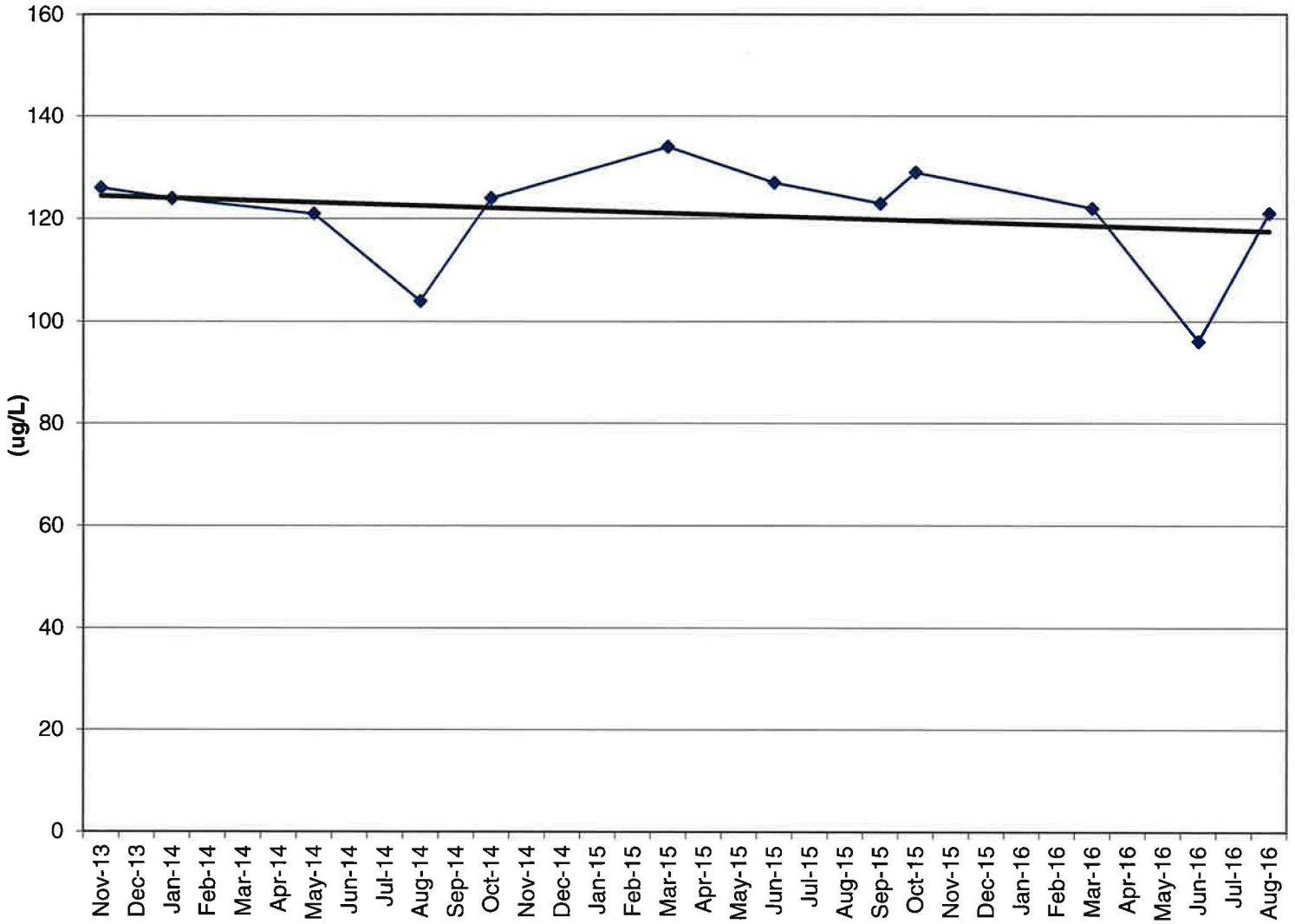
| TW4-32 | Chloroform (ug/l) | Carbon Tetrachloride (ug/l) | Chloromethane (ug/l) | Methylene Chloride (ug/l) | Nitrate (mg/l) | Chloride (mg/l) |
|---|---|---|---|---|---|---|
| 14-Nov-13 | ND | ND | ND | ND | 4.26 | 52.1 |
| 22-Jan-14 | ND | ND | ND | ND | 5.11 | 54.5 |
| 21-May-14 | ND | ND | ND | ND | 5.63 | 54.9 |
| 13-Aug-14 | ND | ND | ND | ND | 4.2 | 64 |
| 23-Oct-14 | ND | ND | ND | ND | 2.14 | 62.6 |
| 11-Mar-15 | ND | ND | ND | ND | 2.46 | 64.2 |
| 10-Jun-15 | ND | ND | ND | ND | 1.21 | 62.7 |
| 2-Sep-15 | ND | ND | ND | ND | 5.09 | 59.6 |
| 21-Oct-15 | ND | ND | ND | ND | 1.19 | 55.1 |
| 15-Mar-16 | ND | ND | ND | ND | 4.48 | 64.2 |
| 25-May-16 | ND | ND | ND | ND | 3.16 | 71.8 |
| 28-Jul-16 | ND | ND | ND | ND | 3.44 | 64.4 |

**TW4-32 Chloroform Values**

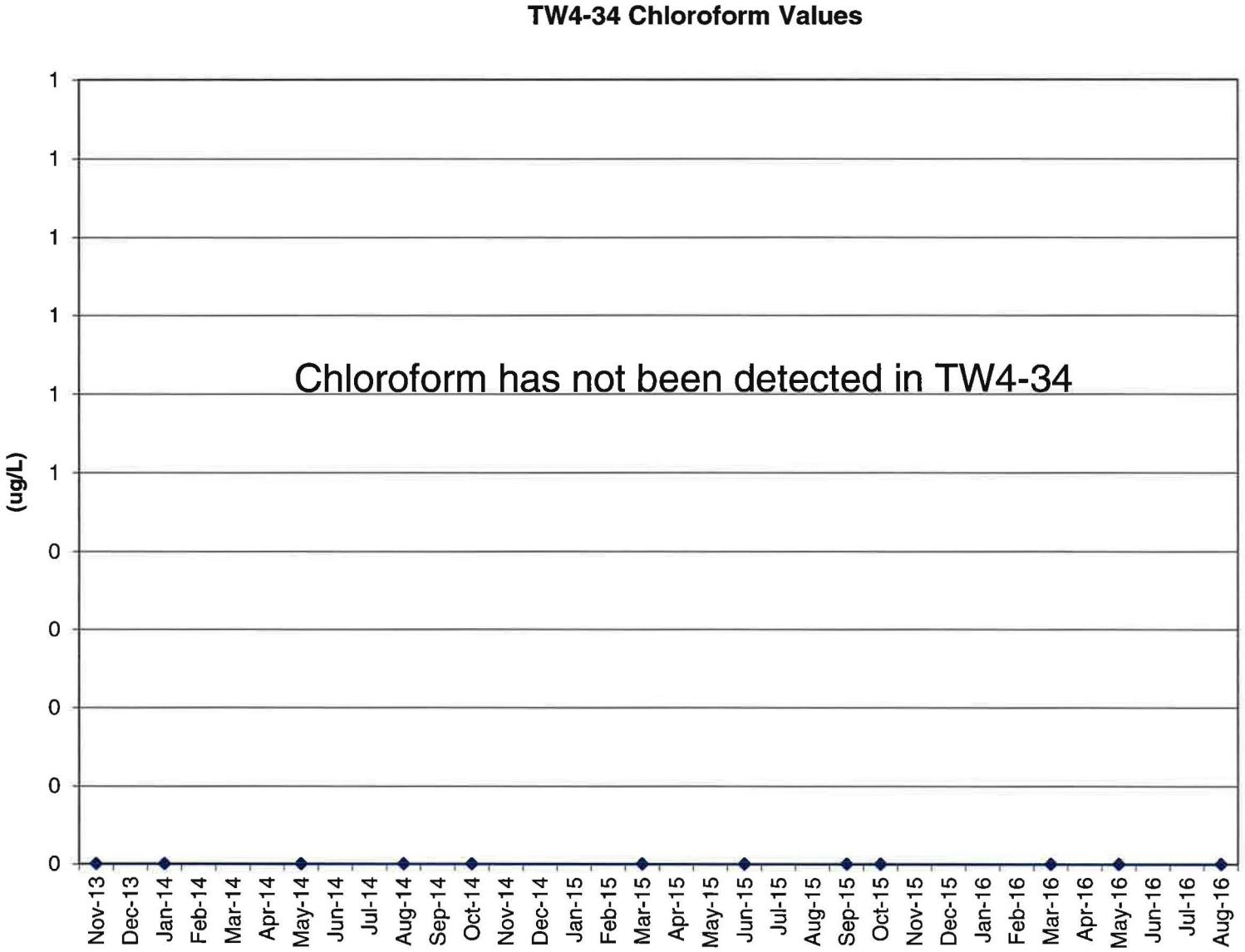


| TW4-33 | Chloroform (ug/l) | Carbon Tetrachloride (ug/l) | Chloromethane (ug/l) | Methylene Chloride (ug/l) | Nitrate (mg/l) | Chloride (mg/l) |
|---|---|---|---|---|---|---|
| 14-Nov-13 | 126 | ND | ND | ND | 1.82 | 47.2 |
| 30-Jan-14 | 124 | ND | ND | ND | 2.56 | 43.5 |
| 22-May-14 | 121 | ND | ND | ND | 1.63 | 46.8 |
| 27-Aug-14 | 104 | ND | ND | ND | 1.5 | 43 |
| 29-Oct-14 | 124 | ND | ND | ND | 2.22 | 44.2 |
| 12-Mar-15 | 134 | ND | ND | ND | 1.91 | 44.2 |
| 11-Jun-15 | 127 | ND | ND | ND | 1.62 | 46.4 |
| 3-Sep-15 | 123 | ND | ND | ND | 1.64 | 53.4 |
| 29-Oct-15 | 129 | ND | ND | ND | 1.92 | 44.5 |
| 17-Mar-16 | 122 | ND | ND | ND | 2.13 | 46.2 |
| 8-Jun-16 | 96 | ND | ND | ND | 2.06 | 49.7 |
| 4-Aug-16 | 121 | ND | ND | ND | 2.32 | 48.5 |

## TW4-33 Chloroform Values

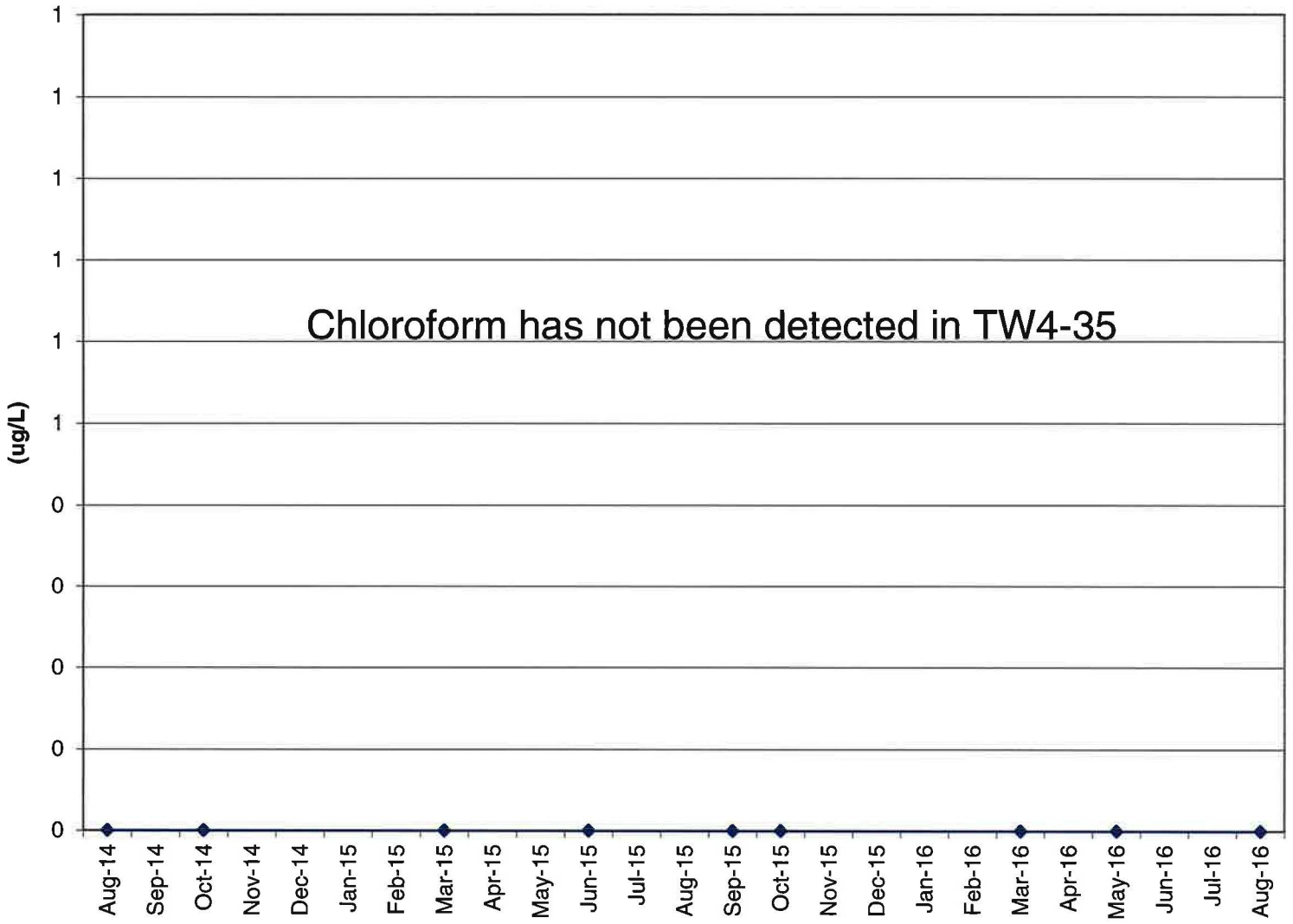


| TW4-34 | Chloroform (ug/l) | Carbon Tetrachloride (ug/l) | Chloromethane (ug/l) | Methylene Chloride (ug/l) | Nitrate (mg/l) | Chloride (mg/l) |
|---|---|---|---|---|---|---|
| 14-Nov-13 | ND | ND | ND | ND | 1.64 | 19.2 |
| 23-Jan-14 | ND | ND | ND | ND | 1.94 | 20.4 |
| 21-May-14 | ND | ND | ND | ND | 1.69 | 17.9 |
| 13-Aug-14 | ND | ND | ND | ND | 1.1 | 18 |
| 28-Oct-14 | ND | ND | ND | ND | 1.16 | 17.5 |
| 11-Mar-15 | ND | ND | ND | ND | 1.21 | 17.7 |
| 10-Jun-15 | ND | ND | ND | ND | 0.868 | 17.4 |
| 3-Sep-15 | ND | ND | ND | ND | 0.458 | 15.1 |
| 21-Oct-15 | ND | ND | ND | ND | 0.368 | 15.8 |
| 16-Mar-16 | ND | ND | ND | ND | 0.925 | 17.3 |
| 26-May-16 | ND | ND | ND | ND | 0.605 | 18 |
| 26-May-16 | ND | ND | ND | ND | 0.605 | 18 |
| 3-Aug-16 | ND | ND | ND | ND | 0.726 | 17.2 |

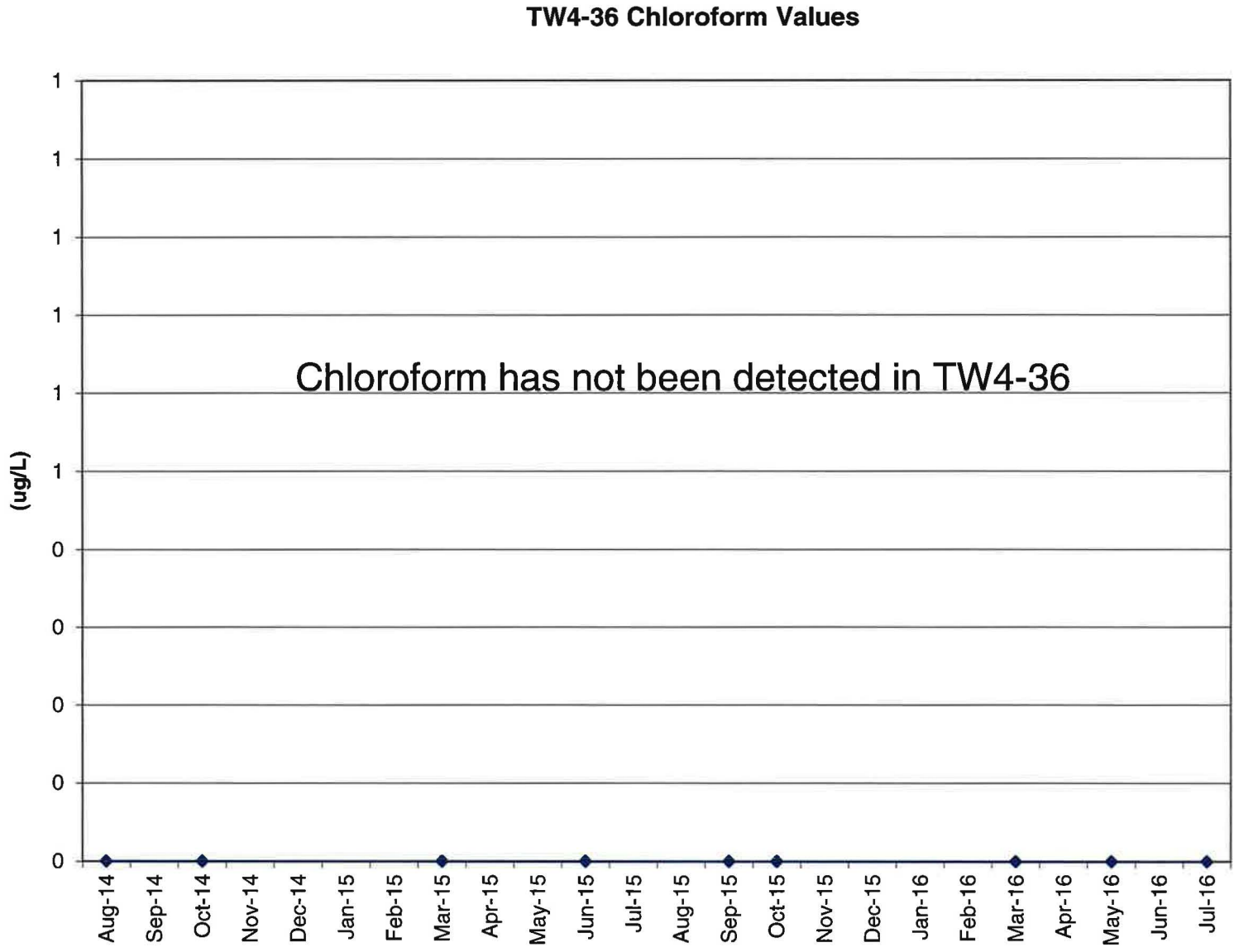

TW4-34 Chloroform Values
(ug/L)
1
1
1
1
1
1
0
0
0
0
0
Chloroform has not been detected in TW4-34
Nov-13
Dec-13
Jan-14
Feb-14
Mar-14
Apr-14
May-14
Jun-14
Jul-14
Aug-14
Sep-14
Oct-14
Nov-14
Dec-14
Jan-15
Feb-15
Mar-15
Apr-15
May-15
Jun-15
Jul-15
Aug-15
Sep-15
Oct-15
Nov-15
Dec-15
Jan-16
Feb-16
Mar-16
Apr-16
May-16
Jun-16
Jul-16
Aug-16

| TW4-35 | Chloroform (ug/l) | Carbon Tetrachloride (ug/l) | Chloromethane (ug/l) | Methylene Chloride (ug/l) | Nitrate (mg/l) | Chloride (mg/l) |
|---|---|---|---|---|---|---|
| 27-Aug-14 | ND | ND | ND | ND | 0.2 | 34 |
| 28-Oct-14 | ND | ND | ND | ND | 0.351 | 34.1 |
| 11-Mar-15 | ND | ND | ND | ND | 0.436 | 34.9 |
| 10-Jun-15 | ND | ND | ND | ND | 0.452 | 35.2 |
| 3-Sep-15 | ND | ND | ND | ND | 0.304 | 35.9 |
| 28-Oct-15 | ND | ND | ND | ND | 0.419 | 33.4 |
| 16-Mar-16 | ND | ND | ND | ND | 0.521 | 35.4 |
| 26-May-16 | ND | ND | ND | ND | 0.631 | 35.4 |
| 3-Aug-16 | ND | ND | ND | ND | 0.723 | 34.8 |

**TW4-35 Chloroform Values**

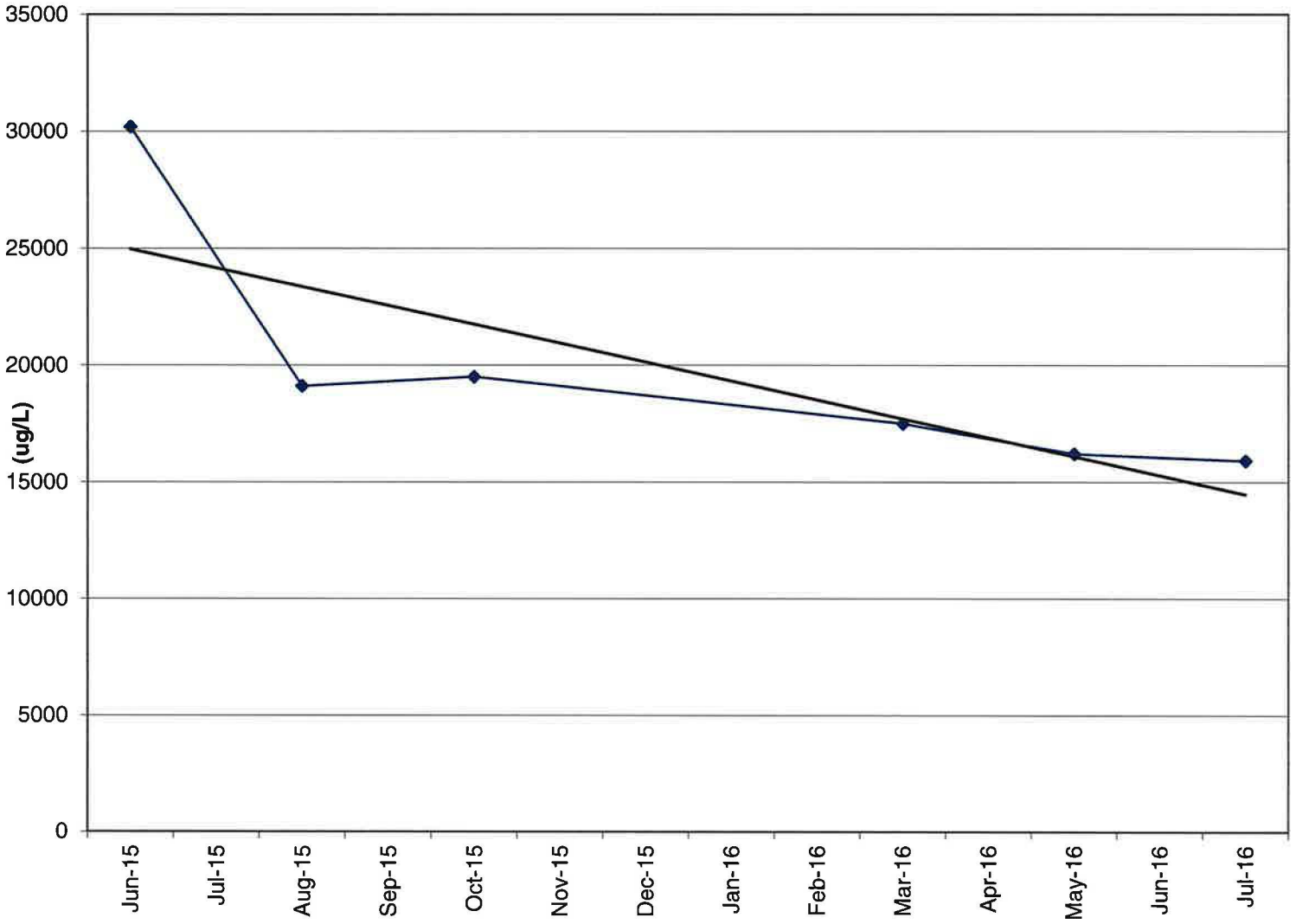


| TW4-36 | Chloroform (ug/l) | Carbon Tetrachloride (ug/l) | Chloromethane (ug/l) | Methylene Chloride (ug/l) | Nitrate (mg/l) | Chloride (mg/l) |
|---|---|---|---|---|---|---|
| 27-Aug-14 | ND | ND | ND | ND | ND | 65 |
| 23-Oct-14 | ND | ND | ND | ND | ND | 67.3 |
| 11-Mar-15 | ND | ND | ND | ND | ND | 67.2 |
| 10-Jun-15 | ND | ND | ND | ND | ND | 69.3 |
| 3-Sep-15 | ND | ND | ND | ND | ND | 76.4 |
| 21-Oct-15 | ND | ND | ND | ND | ND | 64.5 |
| 16-Mar-16 | ND | ND | ND | ND | ND | 67.1 |
| 25-May-16 | ND | ND | ND | ND | ND | 72.3 |
| 27-Jul-16 | ND | ND | ND | ND | ND | 69.4 |


TW4-36 Chloroform Values
(ug/L)
1
1
1
1
1
1
0
0
0
0
0
Chloroform has not been detected in TW4-36
Aug-14
Sep-14
Oct-14
Nov-14
Dec-14
Jan-15
Feb-15
Mar-15
Apr-15
May-15
Jun-15
Jul-15
Aug-15
Sep-15
Oct-15
Nov-15
Dec-15
Jan-16
Feb-16
Mar-16
Apr-16
May-16
Jun-16
Jul-16

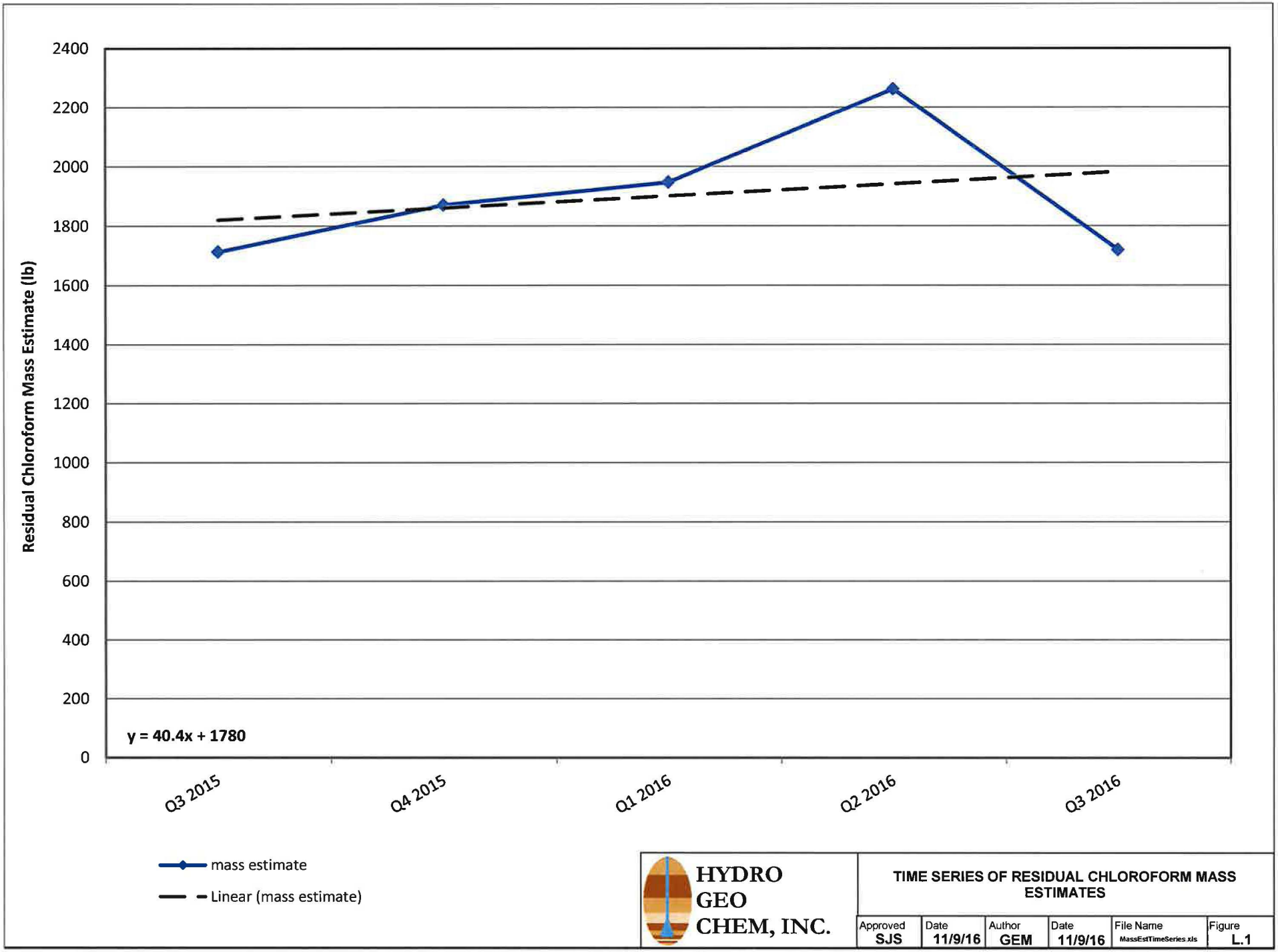
| TW4-37 | Chloroform (ug/l) | Carbon Tetrachloride (ug/l) | Chloromethane (ug/l) | Methylene Chloride (ug/l) | Nitrate (mg/l) | Chloride (mg/l) |
|---|---|---|---|---|---|---|
| 8-Jun-15 | 30200 | 18 | 16 | 2 | 35 | 345 |
| 31-Aug-15 | 19100 | 17 | 14 | 1.04 | 32 | 374 |
| 19-Oct-15 | 19500 | 13 | 9 | 1.17 | 35 | 399 |
| 9-Mar-16 | 17500 | 16 | 4 | 1.34 | 28.4 | 332 |
| 23-May-16 | 16200 | 14 | ND | 1.17 | 27.9 | 389 |
| 25-Jul-16 | 15900 | 17 | ND | ND | 33.4 | 294 |

## TW4-37 Chloroform Values



Tab L

Contour Map Based Chloroform Plume Mass Calculations and Data Over Time




HYDRO GEO CHEM, INC.

**TIME SERIES OF RESIDUAL CHLOROFORM MASS ESTIMATES**

| Approved | Date | Author | Date | File Name | Figure |
|---|---|---|---|---|---|
| SJS | 11/9/16 | GEM | 11/9/16 | MassEstTimeSeries.xls | L.1 |

M:\718000\nov16\chloroform\residual mass\MassEstTimeSeries: FL.1 Resid CHL Mass

# TABLE L.1
# Chloroform Plume Residual Mass
# Since Third Quarter 2015

| Quarter | Residual Plume Mass (lbs) |
|---|---|
| Q3 15 | 1712 |
| Q4 15 | 1869 |
| Q1 16 | 1946 |
| Q2 16 | 2261 |
| Q3 16 | 1718 |

*Notes:*

*lbs = pounds*

## CHLOROFORM RESIDUAL MASS ESTIMATE DETAILS:

**Chloroform Data File**: CHL_SurferInput_Q3_16.xls

**Gridding details:**

1) **kriging parameters:** SURFER™ default parameters (point kriging, linear variogram, slope = 1, no anisotropy [anisotropy = 1], no search constraints [all data used])
2) **min x, max x (UTME[m]):** 631900, 633043
3) **min y, may y (UTME[m]):** 4154240, 4155550.64
4) **grid spacing in x, y (m):** 15.24, 15.24
5) **artificial or pseudo-data:** none
6) **Q2, 2015 (previous quarter) data used at wells:** MW-1, MW-2, MW-5, MW-12, MW-15, MW-17 through MW-20, MW-22 through MW-24, MW-27 through MW-29 (all non-detect).

**Chloroform residual mass estimate kriged grid files (ascii format):**

**Ucm3Q16wl.grd:** third quarter, 2016 Water Level Grid (ft amsl)

**Ucm3Q16bb.grd:** third quarter, 2016 Aquifer Base Grid (ft amsl)

**Ucm3Q16sat.grd:** third quarter, 2016 Saturated Thickness Grid (ft)

**Ucm3Q16logchl.grd:** third quarter, 2016 log of chloroform grid (log of ug/L)

**Ucm3Q16chl.grd:** third quarter, 2016 Chloroform Concentration Grid (ug/L)

**Ucm3Q16ge70.grd:** third quarter, 2016 Chloroform Concentration GE 70 Grid (ug/L)

**Ucm3Q16volm3.grd:** third quarter, 2016 Groundwater Volume Grid ($m^3$)

**Ucm3Q16masslb.grd:** third quarter, 2016 Chloroform Plume Mass Grid (lb)

**Chloroform residual mass estimate kriged grid XYZ files (ascii format):**

**Ucm3Q16wl.dat:** third quarter, 2016 Water Level Grid XYZ file (ft amsl)

**Ucm3Q16bb.dat:** third quarter, 2016 top of Aquifer Base Grid XYZ file (ft amsl)

**Ucm3Q16sat.dat:** third quarter, 2016 Saturated Thickness Grid XYZ file (ft)

**Ucm3Q16logchl.dat:** third quarter, 2016 log of chloroform grid XYZ file (log of ug/L)

**Ucm3Q16chl.dat:** third quarter, 2016 Chloroform Concentration Grid XYZ file (ug/L)

**Ucm3Q16ge70.dat:** third quarter, 2016 Chloroform Concentration GE 70 Grid (ug/L) XYZ file

**Ucm3Q16volm3.dat:** third quarter, 2016 Groundwater Volume Grid XYZ file ($m^3$)

**Ucm3Q16masslb.dat:** third quarter, 2016 Chloroform Plume Mass Grid XYZ file (lb)

**Chloroform plume mass estimate file:** Ucm3Q16result.xls

Tab M

CSV Transmittal Letter

## Kathy Weinel

**From:** Kathy Weinel
**Sent:** Thursday, November 17, 2016 1:06 PM
**To:** 'Phillip Goble'
**Cc:** 'Dean Henderson'; Harold Roberts; David Frydenlund; David Turk; Scott Bakken; Logan Shumway
**Subject:** Transmittal of CSV Files White Mesa Mill 2016 Q3 Chloroform Monitoring
**Attachments:** 1607518-EDD.csv; 1608133-EDD.csv; 1608399-EDD.csv

Dear Mr. Goble,

Attached to this e-mail is an electronic copy of laboratory results for chloroform monitoring conducted at the White Mesa Mill during the third quarter of 2016, in Comma Separated Value (CSV) format.

Other electronic files required by the Corrective Action Plan are included on the CDs included with the hard copy reports.

Please contact me at 303-389-4134 if you have any questions on this transmittal.

Yours Truly

Kathy Weinel

Tab N

Exceedance Notices for the Reporting Period

This attachment has been deliberately left blank.