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February 22, 2017

Div of Waste Management
and Radiation Control

FEB 27 2017

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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 4th 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 4th 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
Mark Chalmers
David E. Turk
Logan Shumway
Scott Bakken

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White Mesa Uranium Mill

Chloroform Monitoring Report

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

4th Quarter
(October through December)
2016

Prepared by:

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

February 22, 2017

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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 fourth 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, TW4-37, and TW4-39 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	TW4-38
TW4-3	TW4-12	TW4-21	TW4-30	TW4-39
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, TW4-39 (starting in December 2016) 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 fourteen 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, three 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.

Five trip blanks were provided by AWAL and returned with the quarterly chloroform monitoring samples.

Three 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 TW4-3, TW4-5, TW4-7, TW4-8, TW4-9, TW4-12, TW4-16, MW-32, TW4-18, TW4-23, TW4-28, TW4-32, TW4-38, and TW4-39 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. Note that during the fourth quarter, TW4-39 was sampled prior to the installation of the continuous pumping equipment. Future samples will be collected using the same technique as the other continuous pumping wells.

Purging a Well to Dryness and Stability of a Limited List of Field Parameters
Wells TW4-6, TW4-10, TW4-13, 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 TW4-3, TW4-7, TW4-9, TW4-12, TW4-16, MW-32, TW4-18, TW4-21, TW4-23, TW4-24, TW4-28, TW4-32, TW4-38, and TW4-39 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); at those added during the second quarter of 2015 (TW4-21 and TW4-37); and at TW4-39, added during the current quarter. 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, TW4-37, and TW4-39. TW4-4 began pumping in the first quarter of 2010; TW4-37 began pumping during the second quarter of 2015; and TW4-39 began pumping this quarter. 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 well-defined cones of depression near TW4-37 and TW4-39 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. In contrast, 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 continuing 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 5533.5 feet above mean sea level ["ft amsl"]), is nearly 2 feet lower than the water level at TW4-6 (approximately 5535.4 ft amsl) and nearly 6 feet lower than the water level at TW4-4 (approximately 5539.2 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 5528.4 ft amsl) is approximately 5 feet lower than the water level at TW4-14 (5533.5 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 (5534.0 feet amsl) is, however, lower than water levels at adjacent wells TW4-6 (5535.4 feet amsl), and TW4-23 (5536.9 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 7.0 µg/L and 3.8 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 8.7 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 third quarter of 2016, as submitted with the Chloroform Monitoring Report for the third 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 (fourth quarter of 2016) to the water table contour maps for the previous quarter (third 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. Nor is a significant cone of depression yet evident at TW4-39 which began pumping this quarter.

Drawdowns at chloroform pumping wells MW-26, TW4-1, TW4-2 and nitrate pumping well TW4-22 decreased by more than 2 feet this quarter, with the drawdown at TW4-22 decreasing by more than 20 feet. The change at TW4-22 partially compensated for the 26 foot increase in drawdown last quarter. The drawdown at nitrate pumping well TW4-24 increased by more than 2 feet this quarter. 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 smaller than last quarter due to the relatively large decrease in drawdown at TW4-22 and decreases in drawdown at TW4-1 and TW4-2.

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 0.4 feet at Piezometers 2, 4, and 5, and at 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 0.34 feet at both piezometers 4 and 5 may also result from reduced recharge at the southern wildlife pond. Reported water level increases of approximately 0.4 feet and 0.6 feet at Piezometers 1 and 3A, respectively, may indicate a slowing in the decay of the groundwater mound.

The reported water level at MW-20 decreased by approximately 3.8 feet, and the water level at MW-37 increased by approximately 2.4 feet. Water level variability at MW-20 and MW-37 likely results from low permeability and variable intervals between purging/sampling and water level measurement.

Measurable water was not reported at DR-22. Although DR-22 is typically dry, measurable water was reported in the bottom of its casing between the second quarter of 2015 and last quarter.

4.1.3 Hydrographs

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

4.1.4 Depth to Groundwater Measured and Groundwater Elevation

Attached under Tab 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 more recently by wells TW4-1, TW4-2, TW4-11, TW4-21, TW4-37, and new well TW4-39. 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, MW-26, TW4-19, and TW4-20 which 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. Similarly, a cone of depression is not yet evident at TW4-39 which commenced pumping this quarter. Overall, the water level contour maps indicate effective capture of water containing high chloroform concentrations in the vicinities of the 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, TW4-4, TW4-11, TW4-20, TW4-21, and TW4-37 decreased by approximately 0.3, 1.2, 0.03, 0.5, 0.4, and 1.1 feet, respectively, while the water levels in chloroform pumping wells MW-26, TW4-1, TW4-2, and TW4-19 increased by approximately 3.3, 8.7, 3.7, and 0.03 feet, respectively. The water levels in nitrate pumping wells TW4-24 and TW4-25 each decreased by approximately 2 feet, while the water levels in nitrate pumping wells TW4-22 and TWN-2 increased by approximately 20.5 and 1.3 feet, respectively. Overall, the apparent capture of the combined pumping systems has decreased compared to last quarter, primarily due to the relatively large decrease in drawdown at TW4-22 and decreases in drawdown at TW4-1 and TW4-2.

The capture associated with nitrate pumping wells and chloroform pumping wells added in 2015 and this quarter 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, TW4-37, and TW4-39) is approximately 5.0 gpm. This calculation is based on the total volume pumped by these wells over the 90 day quarter (651,977 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 1.6 gpm or 48%, 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 472 µg/L this quarter) is likely related to reduced dilution. Although the chloroform concentration in TW4-6 decreased from 433 µg/L to 301 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 has been above and below 70 µg/L since the second quarter of 2015 and was detected at 93 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: TW4-14, TW4-16, TW4-26, TW4-27 and TW4-30;

b) Chloroform concentrations decreased by more than 20% in the following wells compared to last quarter: TW4-6 and TW4-22;

c) Chloroform concentrations have remained within 20% in the following wells compared to last quarter: MW-4, MW-26, TW4-1, TW4-2, TW4-4, TW4-5, TW4-7, TW4-8, TW4-9, TW4-10, TW4-11, TW4-18, TW4-19, TW4-20, TW4-21, TW4-24,TW4-29, TW4-33, 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.

e) Chloroform concentrations in new wells TW4-38 and TW4-39 were non-detect and 2,800 µg/L, respectively

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 TW4-6, TW4-14, TW4-16, TW4-22, TW4-26, TW4-27 and TW4-30 had changes in concentration greater than 20%. Of these, TW4-22 is a nitrate pumping well. TW4-6 and TW4-14 are located adjacent to chloroform pumping well TW4-4; 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; TW4-27 is located just east of the plume boundary; and TW4-30 is located immediately downgradient of 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 6,640, 21,300, 16,400, and 3,370 µg/L, respectively. Since last quarter, the chloroform concentration in TW4-19 increased from 6,040 µg/L to 6,640 µg/L; TW4-20 decreased from 23,600 µg/L to 21,300 µg/L; TW4-37 increased from 15,900 to 16,400 µg/L; and the concentration in nearby pumping well TW4-21 decreased from 456 to 434 µg/L. The chloroform concentration in nitrate pumping well TW4-22 decreased from 5,840 µg/L to 3,370 µg/L. The chloroform concentration in nitrate pumping well TW4-24 increased from 17.8 to 20.8 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 522 µg/L to 472 µg/L. TW4-8 is located immediately east of chloroform pumping well MW-4, where chloroform was detected at a concentration of 1,470 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 (7 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) decreased from 401 µg/L to 392 µg/L. However, chloroform at TW4-30, located immediately downgradient of TW4-29, increased from approximately 6.8 µg/L to approximately 8.7 µg/L, and chloroform at TW4-14 and TW4-27 increased from approximately 5 µg/L to approximately 7 µg/L, and from approximately 2.8 µg/L to approximately 3.8 µg/L, respectively. These changes in concentration are consistent with ongoing, but slow, downgradient migration of chloroform at these locations; however, the stabilization of water levels at these wells suggests that chloroform migration in this area may be slowing. Chloroform at TW4-29 is bounded to the north by TW4-27 (3.8 µg/L), to the east by TW4-30 (8.7 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 (19.9 µg/L).

Chloroform at relatively recently installed well TW4-33 (located between TW4-4 and TW4-29) showed a decrease in concentration, from approximately 121 µg/L to 109 µg/L. Chloroform at TW4-33 is bounded to the north by TW4-14 (7 µg/), to the east by TW4-27 (3.8 µg/L), to the west by TW4-23 (non-detect), and to the south and west by TW4-26 (19.9 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 433 µg/L to 301 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 expansion near TW4-16 and TW4-26 (inside and outside the plume this quarter, respectively). The chloroform concentration at TW4-9 decreased slightly from approximately 77 µg/L to 76 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 is between TW4-9 and new well TW4-38 (non-detect) located immediately to the east-southeast. The general 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 increase from

approximately 49 µg/L to 93 µg/L) is again just within 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, and of TW4-39 this quarter, 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. Beginning in December 2016 EFRI began long term pumping of TW4-39.

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, TW4-39 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, TW4-39 (since December 2016) 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.

On November 15, 2016, all of the heat lamps for the pumping wells were turned on for the winter months. Other operational notations made by the field staff are summarized below.

5.4.1 TW4-19

On October 5, 2016, Mill Field Personnel noted during the routine weekly inspection that the TW4-19 had no power and was not operating. Mill Maintenance Personnel were notified and stated that the circuit breaker had tripped. The breaker was turned on and the well pumped with no additional issues noted. No official notifications to DWMRC were required as the issue was rectified within 24-hours.

5.4.2 TW4-04

On October 31, 2016, Mill Field Personnel noted during the routine weekly inspection that the flow meter on TW4-04 was malfunctioning. The flow meter was replaced. No official notifications to DWMRC were required as the issue was rectified within 24-hours and there was no loss of pumping.

On November 9, 2016, Mill Field Personnel noted during the routine weekly inspection that the pump on TW4-04 was not functioning. Mill Maintenance Personnel were notified and the pump was replaced. No official notifications to DWMRC were required as the issue was rectified within 24-hours.

5.4.3 TW4-20

On December 7, 2016, Mill Field Personnel noted during the routine weekly inspection that the heat lamp on TW4-20 had burned out. The lamp was replaced.

5.4.4 MW-26

On December 20 and December 27, 2016, Mill Field Personnel noted during the routine weekly inspection that the heat lamp on MW-26 had burned out. The lamp was replaced on both days.

5.4.5 TW4-21

On December 27, 2016, Mill Field Personnel noted during the routine weekly inspection that the heat lamp on TW4-21 had burned out. The lamp was replaced.

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 25.6 lb., which is approximately 4% larger than the approximately 24.7 lb. removed last quarter. The slightly larger rate of mass removal is attributable to increases in chloroform concentrations in relatively productive pumping wells TW4-19 and TW4-37 compared to last quarter.

The residual mass of chloroform within the plume is estimated as 1,711 lb. using the methodology described in Appendix A of the GCAP ("Chloroform Plume Mass Calculation Method"). This is approximately 7 lb. less than last quarter's estimate of 1,718 lb. and is

attributable to slightly lower average chloroform concentrations within the plume which counteracted the slight expansion of the plume near TW4-16 and TW4-26. 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 slightly downward; the current quarter's estimate of 1,711 lb is slightly lower than 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 over the current and previous quarters 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 approximately 84%. The decrease over last quarter's relatively large estimate of 97% is attributable primarily to the decrease 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 (20.8 µg/L), and TW4-26 (approximately 20 µg/L); to the east by TW4-3 (non-detect), TW4-5 (approximately 10 µg/L), TW4-12 (non-detect), TW4-13 (non-detect), TW4-14 (approximately 7 µg/L), TW4-18 (approximately 60 µg/L), TW4-27 (3.8 µg/L), TW4-30 (approximately 8.7 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. The two new wells that were installed during the quarter as well as all previously installed wells were installed in accordance with the GCAP requirements. The 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 for TW4-9. The two new wells (TW4-38 and TW4-39) were installed pursuant to the above-referenced plans.

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 1,711 lb. using the methodology described in Appendix A of the GCAP ("Chloroform Plume Mass Calculation Method"). This is approximately 7 lb. less than last quarter's estimate of 1,718 lb. and is attributable to slightly lower average chloroform concentrations within the plume which counteracted the slight expansion of the plume near TW4-16 and TW4-26. The mass of chloroform removed from the plume this quarter is approximately 25.6 lb., which is approximately 4% larger than the approximately 24.7 lb. removed last quarter. The slightly larger rate of mass removal is attributable to increases in chloroform concentrations in relatively productive pumping wells TW4-19 and TW4-37 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, TW4-23, TW4-24 and TW4-26; to the east by TW4-3, TW4-5, TW4-13, TW4-14, TW4-18, TW4-27, TW4-30, TW4-36 and TW4-38; 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 wells TW4-4, TW4-37 and TW4-39. The lack of well-defined capture zones at TW4-37 and TW4-39 likely results from relatively recent start-up (the first half of 2015, and the current quarter, respectively). 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, and of TW4-39 during the current quarter, is also expected to increase capture and chloroform removal rates. Overall capture this quarter is smaller than last quarter, with the decrease attributable to the smaller drawdown and apparent decrease in capture at TW4-22, and decreases in drawdown at TW4-1 and TW4-2.

'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, TW4-37 and TW4-39) is approximately 5.0 gpm, which exceeds the calculated background flow by 1.6 gpm or 48%, 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 TW4-6, TW4-14, TW4-16, TW4-22, TW4-26, TW4-27 and TW4-30. Of these, TW4-22 is a nitrate pumping well. TW4-6 and TW4-14 are located adjacent to chloroform pumping well TW4-4; 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; TW4-27 is located just east of the plume boundary; and TW4-30 is located immediately downgradient of 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 6,640, 21,300, 16,400, and 3,370 µg/L, respectively. Since last quarter, the chloroform concentration in TW4-19 increased from 6,040 µg/L to 6,640 µg/L; TW4-20 decreased from 23,600 µg/L to 21,300 µg/L; TW4-37 increased from 15,900 to 16,400 µg/L; and the concentration in nearby pumping well TW4-21 decreased from 456 to 434 µg/L. The chloroform concentration in nitrate pumping well TW4-22 decreased from 5,840 µg/L to 3,370 µg/L. The chloroform concentration in nitrate pumping well TW4-24 increased from 17.8 to 20.8 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 522 µg/L to 472 µg/L. TW4-8 is located immediately east of chloroform pumping well MW-4, where chloroform was detected at a concentration of 1,470 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 (7 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) decreased from 401 µg/L to 392 µg/L. However, chloroform at TW4-30, located immediately downgradient of TW4-29, increased from approximately 6.8 µg/L to approximately 8.7 µg/L, and chloroform at TW4-14 and TW4-27 increased from approximately 5 µg/L to approximately 7 µg/L, and from approximately 2.8 µg/L to approximately 3.8 µg/L, respectively. These changes in concentration are consistent with ongoing, but slow, downgradient migration of chloroform at these locations; however, the stabilization of water levels at these wells suggests that chloroform migration in this area may be slowing. Chloroform at TW4-29 is bounded to the north by TW4-27 (3.8 µg/L), to the east by TW4-30 (8.7 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 (19.9 µg/L).

Chloroform at relatively recently installed well TW4-33 (located between TW4-4 and TW4-29) showed a decrease in concentration, from approximately 121 µg/L to 109 µg/L. Chloroform at TW4-33 is bounded to the north by TW4-14 (7 µg/), to the east by TW4-27 (3.8 µg/L), to the west by TW4-23 (non-detect), and to the south and west by TW4-26 (19.9 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 expansion near TW4-16 and TW4-26 (inside and outside the plume this quarter, respectively). The chloroform concentration at TW4-9 decreased slightly from approximately 77 µg/L to 76 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 is between TW4-9 and new well TW4-38 (non-detect) located immediately to the east-southeast. The general 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 increase from approximately 49 µg/L to 93 µg/L) is again just within 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, and of TW4-39 this quarter, 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 recommended because pumping these wells has increased overall capture and improved chloroform mass removal rates. Continued pumping of TW4-39 is also recommended to further enhance capture and increase 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 February 22, 2017.

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	10/12/2016	10/25/2016
TW4-01	10/13/2016	10/25/2016
TW4-02	10/12/2016	10/25/2016
TW4-03	10/19/2016	11/3/2016
TW4-03R	10/18/2016	11/3/2016
TW4-04	10/13/2016	10/25/2016
TW4-05	10/26/2016	11/14/2016
TW4-06	10/26/2016	11/14/2016
TW4-07	10/27/2016	11/14/2016
TW4-08	10/27/2016	11/14/2016
TW4-08R	10/26/2016	11/14/2016
TW4-09	10/26/2016	11/14/2016
TW4-10	10/27/2016	11/14/2016
TW4-11	10/12/2016	10/25/2016
TW4-12	10/19/2016	11/3/2016
TW4-13	10/19/2016	11/3/2016
TW4-14	10/20/2016	11/3/2016
MW-26	10/12/2016	10/25/2016
TW4-16	10/26/2016	11/14/2016
MW-32	10/31/2016	11/14/2016
TW4-18	10/25/2016	11/14/2016
TW4-19	10/13/2016	10/25/2016
TW4-20	10/12/2016	10/25/2016
TW4-21	10/12/2016	10/25/2016
TW4-22	10/12/2016	10/25/2016
TW4-23	10/20/2016	11/3/2016
TW4-24	10/12/2016	10/25/2016
TW4-25	10/12/2016	10/25/2016
TW4-26	10/20/2016	11/3/2016
TW4-27	10/20/2016	11/3/2016
TW4-28	10/19/2016	11/3/2016
TW4-29	10/26/2019	11/14/2016
TW4-30	10/20/2016	11/3/2016
TW4-31	10/20/2016	11/3/2016
TW4-32	10/19/2016	11/3/2016
TW4-33	10/26/2016	11/14/2016
TW4-34	10/20/2016	11/3/2016
TW4-35	10/20/2016	11/3/2016
TW4-36	10/20/2016	11/3/2016
TW4-37	10/12/2016	10/25/2016
TW4-38	11/10/2016	11/29/2016
TW4-38R	11/10/2016	11/29/2016
TW4-39	11/10/2016	11/29/2016
TW4-60	11/10/2016	11/29/2016
TW4-65	10/19/2016	11/3/2016
TW4-70	10/20/2016	11/3/2016
TW4-75	10/26/2016	11/14/2016

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 TW4-36 and TW4-75 is a duplicate of TW4-05.

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
- **TW4-38** ✦ — temporary perched monitoring well installed October, 2016
- **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

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WHITE MESA SITE PLAN SHOWING LOCATIONS OF PERCHED WELLS AND PIEZOMETERS

APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/feb17/Uwelloc1216.srf	A-1

Tab B

Order of Sampling and Field Data Worksheets

Order of Contamination for ~~3rd~~ 4th Quarter 2016 Chloroform Purging Event

Well	Sample time	Chloroform Levels	Rinsate date/time	Water level	Well Depth	
TW4-03	10/19/16 0747	ND			141	TW4-03R_10182016 0758
TW4-12	10/19/16 0754	ND			101.5	
TW4-28	10/19/16 0759	ND			107	
TW4-32	10/19/16 0805	ND			115.1	
TW4-13	10/19/16 0811	ND			102.5	
TW4-36	10/20/16 0914	ND			99	
TW4-31	10/20/16 0923	ND			106	
TW4-34	10/20/16 0929	ND			97.2	
TW4-35	10/20/16 0934	ND			87.5	
TW4-23	10/20/16 0941	ND			114	
MW-32	10/31/16 1330	ND			132.5	Bladder pump
TW4-25	10/12/16 1325	ND			134.8	Cont. Pumping
TW4-27	10/20/16 0948	2.78			96	
TW4-14	10/20/16 0953	5			93	
TW4-26	10/20/16 1001	4.42			86	
TW4-30	10/20/16 1008	6.79			92.5	
TW4-05	10/26/16 0838	10.8			120	TW4-05R_10202016 1028
TW4-24	10/12/16 1336	17.8			112.5	Cont. Pumping
TW4-16	10/26/16 0853	49			142	
TW4-18	10/26/16 0902	56.3			137.5	
TW4-09	10/26/16 0909	76.8			120	
TW4-33	10/26/16 0918	121			87.9	
TW4-29	10/26/16 0935	401			93.5	
TW4-06	10/26/16 0943	433			97.5	
TW4-21	10/~~20~~ 13/16 1316	456			121	
TW4-08	10/27/16 0842	522			125	TW4-08R_10262016 1003
TW4-07	10/27/16 0846	1000			120	
TW4-01	10/13/16 0832	1160			110	
TW4-04	10/13/16 0841	1380			112	Cont. Pumping
MW-04	10/12/16 1441	1430			124	Cont. Pumping
TW4-10	10/27/16 0852	1500			111	
TW4-02	10/12/16 1429	1780			120	
MW-26	10/12/16 1413	3190			122.5	Cont. Pumping
TW4-11	10/12/16 1421	3200			100	
TW4-22	10/12/16 1344	5840			113.5	Cont. Pumping
TW4-19	10/13/16 0910	6040			125	Cont. Pumping
TW4-37	10/12/16 1358	15900			112	Cont. Pumping
TW4-20	10/12/16 1405	23600			106	Cont. Pumping
TW4-38	11/10/16 0700	NA				TW4-38R_11092016 0915
TW4-39	11/10/16 0715	NA				
TW4-60	D.I. Blank	~~10/20/16 1130~~	11/10/2016 0740			
TW4-65	28 Duplicate	10/19/16 0759				
TW4-70	36 Duplicate	10/20/16 0914				
TW4-75	05 Duplicate	10/26/16 0838				

ENERGY FUELS

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

See instruction

Description of Sampling Event: 4th Quarter Chloroform 2016

Location (well name): MW-04

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: MW-04_10122016

Date and Time for Purging: 10/12/2016 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: 80.00

Casing Volume (V) 4" Well: 0 (.653h)
3" Well: 0 . 16.14 (.367h)
16.14

Weather Cond.: Sunny

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

Time	1440	Gal. Purged	0
Conductance	1881	pH	6.78
Temp. °C	15.90		
Redox Potential Eh (mV)	344		
Turbidity (NTU)	0		

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

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

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

Volume of Water Purged: 0 gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = 4.4

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: 83.47 Sample Time: 1441

See instruction

Comment

Arrived on site at 1438 Tanner and Garrin present to collect samples.

Samples collected at 1441 Water was clear

Left site at 1445

MW-04 10-12-2016 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 4th Quarter Chloroform 2016

Location (well name): TW4-01

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-01_10132016

Date and Time for Purging: 10/13/2016 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-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: 88.50

Casing Volume (V) 4" Well: 14.03 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Sunny

Ext'l Amb. Temp. °C (prior sampling event): 10°

Time	0831	Gal. Purged	0
Conductance	3271	pH	7.19
Temp. °C	15.91		
Redox Potential Eh (mV)	256		
Turbidity (NTU)	0		

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

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

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

Volume of Water Purged: 0 gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = 4.3, 16.0

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

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: 107.01

Sample Time: 0832

See instruction

Comment

Arrived on site at 0829 Tanner and Garrin present to collect samples

Samples collected at 0832 Water was clear

Left site at 0836

TW4-01 10-13-2016 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 4th Quarter Chloroform 2016

Location (well name): TW4-02

Sampler Name and initials: Tanner Holliday /TH

Field Sample ID: TW4-02_10122016

Date and Time for Purging: 10/12/2016 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: 80.85

Casing Volume (V) 4" Well: 25.56 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Sunny

Ext'l Amb. Temp. °C (prior sampling event): 20.0 ~~20.0~~

Time	1428	Gal. Purged	0
Conductance	3651	pH	6.65
Temp. °C	15.43		
Redox Potential Eh (mV)	+ 354	354	
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 = 16.50

Time to evacuate two casing volumes (2V)
T = 2V/Q = 3.09

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: 94.26 Sample Time: 1429

See instruction

Comment

Arrived on site at 1426 Tanner and Garrin present to collect samples.

Samples collected at 1429 water was clear, but had black floating particles.

Left site at 1437

TW4-02 10-12-2016 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 4th Quarter Chloroform 2016

Location (well name): TW4-03

Sampler Name and initials: Tanner Holliday /TH

Field Sample ID: TW4-03_10192016

Date and Time for Purging: 10/18/2016 and Sampling (if different): 10/19/2016

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: TW4-03R

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: 57.50

Casing Volume (V) 4" Well: 54.52 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Clear

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

Time	0834	Gal. Purged	~~110~~ 80 80
Conductance	1680	pH	6.35
Temp. °C	14.64		
Redox Potential Eh (mV)	529		
Turbidity (NTU)	6.0		

Time	0835	Gal. Purged	90
Conductance	1690	pH	6.35
Temp. °C	14.64		
Redox Potential Eh (mV)	529		
Turbidity (NTU)	9.5		

Time	0836	Gal. Purged	100
Conductance	~~1693~~ 1697	pH	6.35
Temp. °C	14.63		
Redox Potential Eh (mV)	529		
Turbidity (NTU)	8.8		

Before

Time	0837	Gal. Purged	110
Conductance	1705	pH	6.35
Temp. °C	14.63		
Redox Potential Eh (mV)	529		
Turbidity (NTU)	9.0		

After

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 = 10.90

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

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

Name of Certified Analytical Laboratory if Other Than Energy Labs: 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: 137.80 Sample Time: 0747

See instruction

Comment

Arrived on site at 0823 Tanner and Garrin present for purge. Purge began at 0826 Purged well for a total of 11 minutes, Purge ended at 0837, water was clear. Left site at 0839.

Arrived on site at 0744 Tanner and Garrin present to collect samples. Depth to water was 57.98 Samples bailed at 0747 Left site at 0749

TW4-03 10-18-2016 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 4TH Quarter Chloroform 2016

Location (well name): TW4-03R

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-03R_10182016

Date and Time for Purging: 10/18/2016 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.: Clear

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

Time	0757	Gal. Purged	120
Conductance	3.6	pH	5.89
Temp. °C	17.49		
Redox Potential Eh (mV)	547		
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: 0758

See instruction

Comment

Arrived on site at 0744. Tanner and Garrin present for rinsate. Rinsate began at 0745. Pumped 50 Gallons of soap water, 100 Gallons of DI water. Samples collected at 0758. Left site at 0800

TW4-03R 10-18-2016 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 4th Quarter Chloroform 2016

Location (well name): TW4-04

Sampler Name and initials: Tanner Holliday /TH

Field Sample ID: TW4-04_10132016

Date and Time for Purging: 10/13/2016 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: 73.10

Casing Volume (V) 4" Well: 25.40 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Sunny

Ext'l Amb. Temp. °C (prior sampling event): 10°

Time	0840	Gal. Purged	0
Conductance	2383	pH	6.74
Temp. °C	15.28		
Redox Potential Eh (mV)	265		
Turbidity (NTU)	0		

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

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

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

Volume of Water Purged: 0 gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = 10.8

Time to evacuate two casing volumes (2V)
T = 2V/Q = 4.70

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: 79.06 Sample Time: 0841

See instruction

Comment

Arrived on site at 0838 Tanner and Garrin present to collect samples.

Samples collected at 0841 Water was clear

Left site at 0845

TW4-04 10-13-2016 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 4TH Quarter Chloroform 2016

Location (well name): TW4-05

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-05_10262016

Date and Time for Purging: 10/25/2016 and Sampling (if different): 10/26/2016

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: TW4-05R

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: 65.47

Casing Volume (V) 4" Well: 33.60 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Cloudy

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

Time	0754	Gal. Purged	60		
Conductance	1528	pH	6.58		
Temp. °C	15.17				
Redox Potential Eh (mV)	490				
Turbidity (NTU)	0				

Time	0755	Gal. Purged	70		
Conductance	1519	pH	6.58		
Temp. °C	15.18				
Redox Potential Eh (mV)	490				
Turbidity (NTU)	0				

Time	0756	Gal. Purged	80		
Conductance	1502	pH	6.58		
Temp. °C	15.18				
Redox Potential Eh (mV)	490				
Turbidity (NTU)	0				

Time	0757	Gal. Purged	90		
Conductance	1500	pH	6.58		
Temp. °C	15.19				
Redox Potential Eh (mV)	490				
Turbidity (NTU)	0				

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 = 7.12

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: 67.00 Sample Time: 0838

See instruction

Comment

Arrived on site at 0744. Tanner and Garrin present for purge. Purge began at 0748
Purged well for a total of 9 minutes. Purge ended at 0757
Water was clear. Left site at 0800
Arrived on site at 0835 Tanner and Garrin present to collect samples. Depth to water was 65.65 samples bailed at 0838 Left site at 0840

TW4-05 10-25-2016 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 4th Quarter Chloroform 2016

Location (well name): TW4-06

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-06_10262016

Date and Time for Purging: 10/25/2016 and Sampling (if different): 10/26/2016

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: TW4-29

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: 73.19

Casing Volume (V) 4" Well: 15.87 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Cloudy

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

Time	1350	Gal. Purged	33.33
Conductance	3298	pH	6.88
Temp. °C	15.09		
Redox Potential Eh (mV)	481		
Turbidity (NTU)	110		

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

Time	0943	Gal. Purged	0
Conductance	3815	pH	6.60
Temp. °C	14.40		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Before

Time	0944	Gal. Purged	0
Conductance	3831	pH	6.59
Temp. °C	14.36		
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 = [3.17]

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 [94.09] Sample Time [0943]

See instruction

Comment

Arrived on site at 1341 Tanner and Garrin present for purge. Purge began at 1347 Purged well for a total of 3 minutes and 20 seconds. Purged well dry! Purge ended at 1350. Water was a little murky. Left site at 1354

Arrived on site at 0940 Tanner and Garrin present to collect samples. Depth to water was 73.88 samples bailed at 0943 Left site at 0945

[TW4-06 10-25-2016] Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 4TH Quarter Chloroform 2016

Location (well name): TW4-07

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-07_10272016

Date and Time for Purging: 10/26/2016 and Sampling (if different): 10/27/2016

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: TW4-08

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: 76.64 Casing Volume (V) 4" Well: 28.31 (.653h)
3" Well: 0 (.367h)

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

Time	1240	Gal. Purged	40		
Conductance	1586	pH	6.58		
Temp. °C	14.95				
Redox Potential Eh (mV)	446				
Turbidity (NTU)	12.0				

Time	1241	Gal. Purged	50		
Conductance	1596	pH	6.61		
Temp. °C	14.94				
Redox Potential Eh (mV)	445				
Turbidity (NTU)	13				

Time	1242	Gal. Purged	60		
Conductance	1616	pH	6.62		
Temp. °C	14.95				
Redox Potential Eh (mV)	445				
Turbidity (NTU)	13				

Time	1243	Gal. Purged	70		
Conductance	1666	pH	6.62		
Temp. °C	14.96				
Redox Potential Eh (mV)	445				
Turbidity (NTU)	14				

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 = 5.66

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: 0846

See instruction

Comment

Arrived on site at 1233 Tanner and Garrin present for purge. Purge began at 1236 Purged well for a total of 7 minutes. Purge ended at 1243. water was mostly clear Left site at 1246

Arrived on site at 0844 Tanner and Garrin present to collect samples. Depth to water was 78.05 samples bailed at 0846 Left site at 0848

TW4-07 10-26-2016 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 4TH Quarter Chloroform 2016

Location (well name): TW4-08

Sampler Name and initials: Tanner Holliday/TJH

Field Sample ID: TW4-08_10272016

Date and Time for Purging: 10/26/2016 and Sampling (if different): 10/27/2016

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: TW4-08R

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: 79.80 Casing Volume (V) 4" Well: 29.51 (.653h)
3" Well: 0 (.367h)

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

Time	1206	Gal. Purged	40		
Conductance	4908	pH	6.32		
Temp. °C	14.99				
Redox Potential Eh (mV)	534				
Turbidity (NTU)	0				

Time	1207	Gal. Purged	50		
Conductance	4907	pH	6.31		
Temp. °C	14.99				
Redox Potential Eh (mV)	534				
Turbidity (NTU)	0				

Time	1208	Gal. Purged	60		
Conductance	4908	pH	6.31		
Temp. °C	15.00				
Redox Potential Eh (mV)	533				
Turbidity (NTU)	0				

Time	1209	Gal. Purged	70		
Conductance	4905	pH	6.32		
Temp. °C	14.99				
Redox Potential Eh (mV)	532				
Turbidity (NTU)	0				

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 = [5.90]

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

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

Name of Certified Analytical Laboratory if Other Than Energy Labs [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 [85.30] Sample Time [0842]

See instruction

Comment

Arrived on site at 1159. Tanner and Garrin present for purge. Purge began at 1202 Purged well for a total of 7 minutes. Purge ended at 1209. water was clear Purge ended at 1209. Left site at 1212

Arrived on site at 0840 Tanner and Garrin present to collect samples. Depth to water was 80.00 samples bailed at 0842 Left site at 0844

[TW4-08 10-26-2016] Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 4th Quarter Chloroform 2016

Location (well name): TW4-08R

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-08R_10262016

Date and Time for Purging: 10/26/2016 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: TW4-06

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.: Sunny

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

Time	1002	Gal. Purged	120
Conductance	5.1	pH	7.32
Temp. °C	14.48		
Redox Potential Eh (mV)	478		
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: 1003

See instruction

Comment

Arrived on site at 0948. Tanner and Garrin present to for rinsate. Rinsate began at 0950. Pumped 50 Gallons of soap water and 100 Gallons of DI Water. Rinsate samples collected at 1003. Left site at 1025

TW4-08R 10-26-2016 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 4th Quarter Chloroform 2016

Location (well name): TW4-09

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-09_10262016

Date and Time for Purging: 10/25/2016 and Sampling (if different): 10/26/2016

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: 1000 µMHOS/ cm

Well Depth(0.01ft): 120.00

Depth to Water Before Purging: 63.32

Casing Volume (V) 4" Well: 37.01 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Cloudy

Ext'l Amb. Temp. °C (prior sampling event): 11°

Time	1002	Gal. Purged	60		
Conductance	2192	pH	6.42		
Temp. °C	14.90				
Redox Potential Eh (mV)	482				
Turbidity (NTU)	18				

Time	1003	Gal. Purged	70		
Conductance	2412	pH	6.43		
Temp. °C	14.90				
Redox Potential Eh (mV)	482				
Turbidity (NTU)	19				

Time	1004	Gal. Purged	80		
Conductance	2417	pH	6.42		
Temp. °C	14.90				
Redox Potential Eh (mV)	482				
Turbidity (NTU)	19				

Time	1005	Gal. Purged	90		
Conductance	2418	pH	6.42		
Temp. °C	14.89				
Redox Potential Eh (mV)	482				
Turbidity (NTU)	20				

Volume of Water Purged: 90 gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = 10,00

Time to evacuate two casing volumes (2V)
T = 2V/Q = 7.40
7.40

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: 75,70 Sample Time: 0909

See instruction

Comment

Arrived on site at 0953. Tanner and Garrin present for purge. Purge began at 0956 Purged well for a total of 9 minutes. Purge ended at 1005 water was clear Left site at 1007

Arrived on site at 0907 Tanner and Garrin present to collect samples. Depth to water was 63,45 samples bailed at 0909 Left site at 0911

TW4-09 10-25-2016 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 4th Quarter Chloroform 2016

Location (well name): TW4-10

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-10_10272016

Date and Time for Purging: 10/26/2016 and Sampling (if different): 10/27/2016

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: TW4-07

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: 62.95

Casing Volume (V) 4" Well: 31.37 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Sunny

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

Time	1315	Gal. Purged	70		
Conductance	2997	pH	5.85		
Temp. °C	15.20				
Redox Potential Eh (mV)	487				
Turbidity (NTU)	33				

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

Time	0852	Gal. Purged	0		
Conductance	2840	pH	5.99		
Temp. °C	15.60				
Redox Potential Eh (mV)					
Turbidity (NTU)					

Before

Time	0853	Gal. Purged	0		
Conductance	2814	pH	6.00		
Temp. °C	~~15.3~~		15.49		
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 = 6.27

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

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: 108.36 Sample Time: 0852

See instruction

Comment

Arrived on site at 1305 Tanner and Garrin present for purge. Purge began at 1308 Purged well for a total of 7 minutes. Purged well dry!. Purge ended at 1315 Water was mostly clear. Left site at 1318

Arrived on site at 0849 Tanner and Garrin present to collect samples. Depth to water was 63.00 Samples bailed at 0852 Left site at 0854

TW4-10 10-26-2016 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 4TH Quarter Chloroform 2016

Location (well name): TW4-11

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-11_10122016

Date and Time for Purging: 10/12/2016 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-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: 92.71

Casing Volume (V) 4" Well: 4.76 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Sunny

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

Time	1420	Gal. Purged	0
Conductance	3561	pH	6.63
Temp. °C	15.38		
Redox Potential Eh (mV)	327		
Turbidity (NTU)	5.0		

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 = 0.59

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: 98.74 Sample Time: 1421

See instruction

Comment

Arrived on site at 1418 Tanner and Garrin present to collect samples.

Samples collected at 1421 Water was clear

Left site at 1424

TW4-11 10-12-2016 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 4th Quarter Chloroform 2016

Location (well name): TW4-12

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-12_10192016

Date and Time for Purging: 10/18/2016 and Sampling (if different): 10/19/2016

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: 46.60

Casing Volume (V) 4" Well: 35.84 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Sunny

Ext'l Amb. Temp. °C (prior sampling event): 9°

Time	0911	Gal. Purged	50
Conductance	1463	pH	6.52
Temp. °C	14.87		
Redox Potential Eh (mV)	515		
Turbidity (NTU)	7.9		

Time	0912	Gal. Purged	60
Conductance	1465	pH	6.53
Temp. °C	14.85		
Redox Potential Eh (mV)	515		
Turbidity (NTU)	8.9		

Time	0913	Gal. Purged	70
Conductance	1467	pH	6.54
Temp. °C	14.85		
Redox Potential Eh (mV)	514		
Turbidity (NTU)	8.9		

Before

Time	0914	Gal. Purged	80
Conductance	1469	pH	6.55
Temp. °C	14.86		
Redox Potential Eh (mV)	514		
Turbidity (NTU)	9.5		

After

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 = 7.16

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

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

Name of Certified Analytical Laboratory if Other Than Energy Labs: 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: 98.83 Sample Time: 0754

See instruction

Comment

Arrived on site at 0903 Tanner and Garrin present for purge. Purge began at 0906 Purged well for a total of 8 minutes. Purge ended at 0914. water was clear Left site at 0916

Arrived on site at 0752 Tanner and Garrin present to collect samples. Depth to water was 46.74 samples bailed at 0754 Left site at 0756

TW4-12 10-18-2016 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 4th Quarter Chloroform 2016

Location (well name): TW4-13

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-13_10192016

Date and Time for Purging: 10/18/2016 and Sampling (if different): 10/19/2016

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: 52.50 Casing Volume (V) 4" Well: 32.65 (.653h) 3" Well: 0 (.367h)

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

Time	1414	Gal. Purged	65
Conductance	2103	pH	6.43
Temp. °C	15.09		
Redox Potential Eh (mV)	453		
Turbidity (NTU)	18.0		

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

Time	0811	Gal. Purged	0
Conductance	2141	pH	5.59
Temp. °C	13.39		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Before

Time	0812	Gal. Purged	4
Conductance	2169	pH	5.63
Temp. °C	13.50		
Redox Potential Eh (mV)			
Turbidity (NTU)			

After

Volume of Water Purged: 65 gallon(s)

Pumping Rate Calculation

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

Time to evacuate two casing volumes (2V)
T = 2V/Q = 6.53

Number of casing volumes evacuated (if other than two): 1.99

If well evacuated to dryness, number of gallons evacuated: 65

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: 100.39 Sample Time: 0811

See instruction

Comment

Arrived on site at 1405. Tanner and Garrin present for purge. Purge began at 1408 Purged well for a total of 6 minutes 30 seconds. Purged well dry. Purge ended at 1414. Left site at 1417. Water was mostly clear.

Arrived on site at 0809 Garrin present to collect samples. Depth to water was 52.88 Samples bailed at 0811 Left site at 0813

TW4-13 10-18-2016 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 4th Quarter Chloroform 2016

Location (well name): TW4-14

Sampler Name and initials: Tanner Holl.

Field Sample ID: TW4-14_10202016

Date and Time for Purging: 10/19/2016 and Sampling (if different): 10/20/2016

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): 93.00

Depth to Water Before Purging: 79.41

Casing Volume (V) 4" Well: 8.87 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Sunny

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

Time	1314	Gal. Purged	17.50
Conductance	5197	pH	6.33
Temp. °C	15.47		
Redox Potential Eh (mV)	401		
Turbidity (NTU)	115		

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

Time	0953	Gal. Purged	0
Conductance	5192	pH	6.27
Temp. °C	14.15		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Before

Time	0954	Gal. Purged	0
Conductance	5195	pH	6.31
Temp. °C	14.20		
Redox Potential Eh (mV)			
Turbidity (NTU)			

After

Volume of Water Purged: 17.50 gallon(s)

Pumping Rate Calculation

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

Time to evacuate two casing volumes (2V)
T = 2V/Q = 1.77

Number of casing volumes evacuated (if other than two): 1.97

If well evacuated to dryness, number of gallons evacuated: 17.50

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: 90.65 Sample Time: 0953

See instruction

Comment

Arrived on site at 1310 Tanner and Garrin present for purge. Purge began at 1312. Purged well for a total of 1 minute 45 seconds. Purged well dry! Purge ended at 1314 water was murky. Left site at 1316

Arrived on site at 0951 Tanner and Garrin present to collect samples. Depth to water was 79.74 Samples bailed at 0953 Left site at 0955

TW4-14 10-19-2016 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 4th Quarter Chloroform 2016

Location (well name): MW-26

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: MW-26_10122016

Date and Time for Purging: 10/12/2016 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: TW4-20

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: 64.50

Casing Volume (V) 4" Well: 37.87 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Sunny

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

Time	1412	Gal. Purged	0
Conductance	3415	pH	6.54
Temp. °C	15.45		
Redox Potential Eh (mV)	288		
Turbidity (NTU)	5.0		

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 = 8.0

Time to evacuate two casing volumes (2V)
T = 2V/Q = 9.96

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: 76.12 Sample Time: 1413

See instruction

Comment

Arrived on site at 1410 Tanner and Garrin present to collect samples.

Samples collected at 1413 water was clear

Left site at 1414

MW-26 10-12-2016 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 4th Quarter Chloroform 2016

Location (well name): TW4-16

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-16_10262016

Date and Time for Purging: 10/25/2016 and Sampling (if different): 10/26/2016

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): 142.00

Depth to Water Before Purging: 64.19

Casing Volume (V) 4" Well: 50.80 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Cloudy

Ext'l Amb. Temp. °C (prior sampling event): 9°

Time	0830	Gal. Purged	90
Conductance	3773	pH	6.36
Temp. °C	14.71		
Redox Potential Eh (mV)	491		
Turbidity (NTU)	100		

Time	0831	Gal. Purged	100
Conductance	3774	pH	6.36
Temp. °C	14.71		
Redox Potential Eh (mV)	491		
Turbidity (NTU)	99		

Time	0832	Gal. Purged	110
Conductance	3772	pH	6.36
Temp. °C	14.73		
Redox Potential Eh (mV)	490		
Turbidity (NTU)	100		

Time	0833	Gal. Purged	120
Conductance	3773	pH	6.37
Temp. °C	14.73		
Redox Potential Eh (mV)	490		
Turbidity (NTU)	97		

Volume of Water Purged: 120 gallon(s)

Pumping Rate Calculation

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

Time to evacuate two casing volumes (2V)
T = 2V/Q = 10.16

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

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

Name of Certified Analytical Laboratory if Other Than Energy Labs: 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: 136.26 Sample Time: 0853

See instruction

Comment

Arrived on site at 0818 Tanner and Garrin present for purge. Purge began at 0821 Purged well for a total of 12 minutes. Purge ended at 0833 water was a little murky. Left site at 0835.

Arrived on site at 0851 Tanner and Garrin present to collect samples. Depth to water was 64.35 samples bailed at 0853 Left site at 0855

TW4-16 10-25-2016 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 4TH Quarter Chloroform 2016

Location (well name): MW-32

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: MW-32_10312016

Date and Time for Purging: 10/31/2016 and Sampling (if different): N/A

Well Purging Equip Used: ☒ pump or ☐ bailer Well Pump (if other than Bennet): QED

Purging Method Used: ☒ 2 casings ☐ 3 casings

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

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: 77.70 Casing Volume (V) 4" Well: 35.78 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Partly Cloudy Ext'l Amb. Temp. °C (prior sampling event): 10°

Time	1327	Gal. Purged	70.95
Conductance	3816	pH	6.51
Temp. °C	14.86		
Redox Potential Eh (mV)	535		
Turbidity (NTU)	15.4		

Time	1328	Gal. Purged	71.17
Conductance	3843	pH	6.45
Temp. °C	14.88		
Redox Potential Eh (mV)	531		
Turbidity (NTU)	15.5		

Time	1329	Gal. Purged	71.39
Conductance	3814	pH	6.40
Temp. °C	14.82		
Redox Potential Eh (mV)	528		
Turbidity (NTU)	15		

Time	1330	Gal. Purged	71.61
Conductance	3817	pH	6.38
Temp. °C	14.88		
Redox Potential Eh (mV)	522		
Turbidity (NTU)	15.3		

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 = 329.81 329.81

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: 81.13 Sample Time: 1330

See instruction

Comment

Arrived on site at 0755. Tanner and Garrin present for purge and sampling event
Purge began at 0800. Purged well for a total of 330 minutes. Purge ended and samples collected at 1330. Water was mostly clear.
Left site at 1345

MW-32 10-31-2016 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 4th Quarter Chloroform 2016

Location (well name): TW4-18

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-18_10262016

Date and Time for Purging: 10/25/2016 and Sampling (if different): 10/26/2016

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: TW4-16

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: 66.32

Casing Volume (V) 4" Well: 46.48 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Cloudy

Ext'l Amb. Temp. °C (prior sampling event): 10°

Time	0912	Gal. Purged	80
Conductance	1997	pH	6.26
Temp. °C	15.30		
Redox Potential Eh (mV)	484		
Turbidity (NTU)	12		

Time	0913	Gal. Purged	90
Conductance	1989	pH	6.26
Temp. °C	15.29		
Redox Potential Eh (mV)	484		
Turbidity (NTU)	15		

Time	0914	Gal. Purged	100
Conductance	1958	pH	6.26
Temp. °C	15.29		
Redox Potential Eh (mV)	484		
Turbidity (NTU)	13		

Time	0915	Gal. Purged	110
Conductance	1947	pH	6.26
Temp. °C	15.29		
Redox Potential Eh (mV)	484		
Turbidity (NTU)	10		

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 = 9.29

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: 66.60 Sample Time: 0902

See instruction

Comment

Arrived on site at 0901 Tanner and Garrin present for purge. Purge began at 0904 Purged well for a total of 11 minutes. Purge ended at 0915 water was clear Left site at 0917

Arrived on site at 0859 Tanner and Garrin present to collect samples. Depth to water was 66.41 samples bailed at 0902 Left site at 0904

TW4-18 10-25-2016 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 4Th Quarter Chloroform 2016

Location (well name): TW4-19

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-19_10132016

Date and Time for Purging: 10/13/2016 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: 63.84

Casing Volume (V) 4" Well: 39.93 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Sunny

Ext'l Amb. Temp. °C (prior sampling event): 10°

Time	0909	Gal. Purged	7
Conductance	3086	pH	6.80
Temp. °C	15.65		
Redox Potential Eh (mV)	481		
Turbidity (NTU)	5.0		

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 = 4.43

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: 66.12 Sample Time: 0910

See instruction

Comment

Arrived on site at 0905. Tanner and Garrin present to collect samples,
Samples collected at 0910 water was clear
Left site at 0913

TW4-19 10-13-2016 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 4th Quarter Chloroform 2016

Location (well name): TW4-20

Sampler Name and initials: Tanner Holliday /TH

Field Sample ID: TW4-20_10122016

Date and Time for Purging: 10/12/2016 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: 63.50

Casing Volume (V) 4" Well: 27.75 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Sunny

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

Time	1404	Gal. Purged	0
Conductance	4982	pH	6.59
Temp. °C	16.50		
Redox Potential Eh (mV)	450		
Turbidity (NTU)	1.0		

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 = 7.0

Time to evacuate two casing volumes (2V)
T = 2V/Q = 7.92

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: 68.76 Sample Time: 1405

See instruction

Comment

Arrived on site at 1402 Tanner and Garrin present to collect samples.

Samples collected at 1405 water was clear

Left site at 1409

TW4-20 10-12-2016 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 4th Quarter Chloroform 2016

Location (well name): TW4-21

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-21_10122016

Date and Time for Purging: 10/12/2016 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: N/A

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: 67.84

Casing Volume (V) 4" Well: 34.71 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Sunny

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

Time	1315	Gal. Purged	0
Conductance	4524	pH	6.76
Temp. °C	16.50		
Redox Potential Eh (mV)	533		
Turbidity (NTU)	5.9		

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 = 4.33

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: 69.87 Sample Time: 1316

See instruction

Comment

Arrived on site at 1314 Tanner and Garrin present to collect samples
Samples collected at 1316 Water was clear
Left site at 1320

TW4-21 10-12-2016 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 4th Quarter Chloroform 2016

Location (well name): TW4-22

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-22_10122016

Date and Time for Purging: 10/12/2016 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: TW4-24

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: 58.40

Casing Volume (V) 4" Well: 35.98 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Sunny

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

Time	1343	Gal. Purged	0
Conductance	5333	pH	6.60
Temp. °C	15.85		
Redox Potential Eh (mV)	480		
Turbidity (NTU)	0		

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

Time		Gal. Purged	
Conductance		pH	
Temp. °C	15.85		
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 / 17.0

Time to evacuate two casing volumes (2V)
T = 2V/Q = 4.23

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: 93.25 Sample Time: 1344

See instruction

Comment

Arrived on site at 1341 Tanner and Garrin present ~~for~~ to collect samples.

Samples collected at 1344. Water was clear

Left site at 1352

TW4-22 10-12-2016 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 4Th Quarter Chloroform 2016

Location (well name): TW4-23

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-23_10202016

Date and Time for Purging: 10/19/2016 and Sampling (if different): 10/20/2016

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: TW4-35

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: 70.25 Casing Volume (V) 4" Well: 28.56 (.653h)
3" Well: 0 (.367h)

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

Time	1212	Gal. Purged	50
Conductance	3628	pH	6.28
Temp. °C	14.49		
Redox Potential Eh (mV)	385		
Turbidity (NTU)	92		

Time	1213	Gal. Purged	60
Conductance	3628	pH	6.27
Temp. °C	14.47		
Redox Potential Eh (mV)	384		
Turbidity (NTU)	90		

Time	1214	Gal. Purged	70
Conductance	3630	pH	6.28
Temp. °C	14.45		
Redox Potential Eh (mV)	382		
Turbidity (NTU)	88		

Time	1215	Gal. Purged	80
Conductance	3629	pH	6.27
Temp. °C	14.46		
Redox Potential Eh (mV)	380		
Turbidity (NTU)	87		

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 = 5.71

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: 84.50 Sample Time: 0941

See instruction

Comment

Arrived on site at 1204, Tanner and Garrin present for purge. Purge began at 1207 Purged well for a total of 8 minutes. Purge ended at 1215 water was has an orange coloration, started dark but slowly cleared. Left site at 1217
Arrived on site at 0939. Tanner and Garrin present to collect samples. Depth to water was 70.46. samples bailed at 0941 Left site at ~~0943~~ 0943

TW4-23 10-19-2016 Do not touch this cell (SheetName)

ENERGY FUELS

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

See instruction

Description of Sampling Event: 4th Quarter Chloroform 2016

Location (well name): TW4-24

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-24_10122016

Date and Time for Purging: 10/12/2016 and Sampling (if different):

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: TW4-25

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: 61.70

Casing Volume (V) 4" Well: 33.17 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Sunny

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

Time	1335	Gal. Purged	0
Conductance	7270	pH	6.45
Temp. °C	15.79		
Redox Potential Eh (mV)	511		
Turbidity (NTU)	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)			

Volume of Water Purged: 0 gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = ~~17.40~~ 17 17.0

Time to evacuate two casing volumes (2V)
T = 2V/Q = 3.90

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

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

Name of Certified Analytical Laboratory if Other Than Energy Labs: 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: 69.92 Sample Time: 1336

See instruction

Comment

Arrived on site at 1333 Tanner and Garrin present to collect samples.

Samples collected at 1336 water was a little murky

Left site at 1340

TW4-24 10-12-2016 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 4Th Quarter Chloroform 2016

Location (well name): TW4-25

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-25_10122016

Date and Time for Purging: 10/12/2016 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): 134.8

Depth to Water Before Purging: 65.36

Casing Volume (V) 4" Well: 45.34 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Sunny

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

Time	1324	Gal. Purged	0
Conductance	2733	pH	6.78
Temp. °C	16.04		
Redox Potential Eh (mV)	504		
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: 6 gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = 14,50

Time to evacuate two casing volumes (2V)
T = 2V/Q = 6,25

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: 79.81 Sample Time: 1325

See instruction

Comment

Arrived on site at 1321 Tanner and Garrin present to collect samples

Samples collected at 1325 Water Was clear

Left site at 1328

TW4-25 10-12-2016 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 4th Quarter Chloroform 2016

Location (well name): TW4-26

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-26_10202016

Date and Time for Purging: 10/19/2016 and Sampling (if different): 10/20/2016

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: TW4-14

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: 67.57

Casing Volume (V) 4" Well: 12.03 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Sunny

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

Time	1345	Gal. Purged	20
Conductance	6454	pH	4.03
Temp. °C	15.47		
Redox Potential Eh (mV)	501		
Turbidity (NTU)	23		

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

Time	1001	Gal. Purged	0
Conductance	6351	pH	4.91
Temp. °C	14.00		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Before

Time	1002	Gal. Purged	0
Conductance	6394	pH	4.98
Temp. °C	14.06		
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 = 2.40

Number of casing volumes evacuated (if other than two): 1.66

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: 83.05 Sample Time: 1001

See instruction

Comment

Arrived on site at 1340 Tanner and Garrin present for purge. Purge began at 1343 Purged well for a total of 2 minutes. Purged well dry! Purge ended at 1345 water was mostly clear. left site at 1347

Arrived on site at 0958. Tanner and Garrin present to collect samples. Depth to water was 67.93 samples bailed at 1001 Left site at 1003

TW4-26 10-19-2016 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 4TH Quarter Chloroform 2016

Location (well name): TW4-27

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-27_10202016

Date and Time for Purging: 10/19/2016 and Sampling (if different): 10/20/2016

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: 79.45

Casing Volume (V) 4" Well: 10.80 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Sunny

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

Time	1244	Gal. Purged	15
Conductance	5246	pH	6.30
Temp. °C	15.56		
Redox Potential Eh (mV)	396		
Turbidity (NTU)	33		

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

Time	0948	Gal. Purged	0
Conductance	5126	pH	6.15
Temp. °C	13.95		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Before

Time	0949	Gal. Purged	0
Conductance	5149	pH	6.18
Temp. °C	14.01		
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 = 2.16

Number of casing volumes evacuated (if other than two): 1.38

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: 93.38 Sample Time: 0948

See instruction

Comment

Arrived on site at 1241. Tanner and Garrin present for purge. Purge began at 1243 Purged well for a total of 1 minute 30 seconds, Purged well dry! Purge ended at 1244 water was a little murky. Left site at 1246

Arrived on site at 0945 Tanner and Garrin present to collect samples. Depth to water was 80.05 samples bailed at 0948 Left site at 0950

TW4-27 10-19-2016 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 4th Quarter Chloroform 2016

Location (well name): TW4-28

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-28_10192016

Date and Time for Purging: 10/18/2016 and Sampling (if different): 10/19/2016

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: TW4-12

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: 40.55

Casing Volume (V) 4" Well: 43.39 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Sunny

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

Time	1036	Gal. Purged	60		
Conductance	1384	pH	6.59		
Temp. °C	14.77				
Redox Potential Eh (mV)	516				
Turbidity (NTU)	17.3				

Time	1037	Gal. Purged	70		
Conductance	1382	pH	6.60		
Temp. °C	14.76				
Redox Potential Eh (mV)	515				
Turbidity (NTU)	17.5				

Time	1038	Gal. Purged	80		
Conductance	1381	pH	6.61		
Temp. °C	14.77				
Redox Potential Eh (mV)	515				
Turbidity (NTU)	17.9				

Time	1039	Gal. Purged	90		
Conductance	1379	pH	6.62		
Temp. °C	14.78				
Redox Potential Eh (mV)	514				
Turbidity (NTU)	18.1				

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 = 8.67

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: 86.80 Sample Time: 0759

See instruction

Comment

Arrived on site at 1027 Tanner and Garrin present for purge. Purge began at 1030 Purged well for a total of 9 minutes. Purge ended at 1039. Water was mostly clear. Left site at 1042

Arrived on site at 0757 Tanner and Garrin present to collect samples. Depth to water was 40.69 Samples bailed at 0759 Left site at 0802

TW4-28 10-18-2016 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 4th Quarter Chloroform 2016

Location (well name): TW4-29

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-29_10262016

Date and Time for Purging: 10/25/2016 and Sampling (if different): 10/26/2016

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: TW4-33

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: 74.38

Casing Volume (V) 4" Well: 12.48 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Cloudy

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

Time	1259	Gal. Purged	20		
Conductance	4174	pH	6.65		
Temp. °C	15.43				
Redox Potential Eh (mV)	493				
Turbidity (NTU)	9.0				

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

Time	0935	Gal. Purged	0		
Conductance	4207	pH	6.84		
Temp. °C	14.73				
Redox Potential Eh (mV)					
Turbidity (NTU)					

Before

Time	0936	Gal. Purged	0		
Conductance	4210	pH	6.83		
Temp. °C	14.70				
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 = 2.49

Number of casing volumes evacuated (if other than two): 1.60

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: 91.02 Sample Time: 0935

See instruction

Comment

Arrived on site at 1252 Tanner and Garrin present for purge. Purge began at 1257 Purged well for a total of 2 minutes. Purged well dry! Purge ended at 1259. Water was clear, Left site at 1302

Arrived on site at 0932 Tanner and Garrin present to collect samples. Depth to water was 74.47 samples bailed at 0935 Left site at 0937

TW4-29 10-25-2016 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 4th Quarter Chloroform 2016

Location (well name): TW4-30

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-30_10202016

Date and Time for Purging: 10/19/2016 and Sampling (if different): 10/20/2016

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): 92.50

Depth to Water Before Purging: 75.65

Casing Volume (V) 4" Well: 11.00 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Sunny

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

Time	1414	Gal. Purged	23.33
Conductance	4449	pH	5.32
Temp. °C	15.45		
Redox Potential Eh (mV)	446		
Turbidity (NTU)	48		

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

Time	1008	Gal. Purged	0
Conductance	4370	pH	4.79
Temp. °C	14.04		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time	1009	Gal. Purged	0
Conductance	4379	pH	4.83
Temp. °C	14.09		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Volume of Water Purged: 23.33 gallon(s)

Pumping Rate Calculation

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

Time to evacuate two casing volumes (2V)
T = 2V/Q = 2,20

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

If well evacuated to dryness, number of gallons evacuated: 23,33

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: 90,02 Sample Time: 1008

See instruction

Comment

Arrived on site at 1410. Tanner and Garrin present for purge. Purge began at 1412. Purged well for a total of 2 minutes and 20 seconds, Purged well dry! Purge ended at 1414. water was a little murky. Left site at 1417

Arrived on site at 1005 Tanner and Garrin present to collect samples. Depth to water was 75.91 samples bailed at 1008 Left site at 1011

TW4-30 10-19-2016 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 4th Quarter Chloroform 2016

Location (well name): TW4-31

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-31_10202016

Date and Time for Purging: 10/19/2016 and Sampling (if different): 10/20/2016

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: 78.90

Casing Volume (V) 4" Well: 17.69 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Sunny

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

Time	0859	Gal. Purged	30		
Conductance	4725	pH	6.37		
Temp. °C	14.90				
Redox Potential Eh (mV)	391				
Turbidity (NTU)	136				

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

Time	0923	Gal. Purged	0		
Conductance	4738	pH	6.62		
Temp. °C	14.66				
Redox Potential Eh (mV)					
Turbidity (NTU)					

Before

Time	0924	Gal. Purged	0		
Conductance	4749	pH	6.63		
Temp. °C	14.65				
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 = 3.53

Number of casing volumes evacuated (if other than two): 1.69

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: 103.42 Sample Time: 0923

See instruction

Comment

Arrived on site at 0854. Tanner and Garrin present for purge. Purge began at 0856 Purged well for a total of 3 minutes. Purged well dry! Purge ended at 0859 water was murky, Left site at 0901

Arrived on site at 0920 Tanner and Garrin present to collect samples. Depth to water was 79.15 samples bailed at 0923 Left site at 0925

TW4-31 10-19-2016 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 4th Quarter Chloroform 2016

Location (well name): TW4-32

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-32_10192016

Date and Time for Purging: 10/18/2016 and Sampling (if different): 10/19/2016

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: TW4-28

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: 51.64 Casing Volume (V) 4" Well: 41.43 (.653h) 41.43
3" Well: 0 (.367h)

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

Time	1329	Gal. Purged	60
Conductance	7044	pH	3.50
Temp. °C	14.98		
Redox Potential Eh (mV)	616		
Turbidity (NTU)	13.0		

Time	1330	Gal. Purged	70
Conductance	7034	pH	3.50
Temp. °C	14.96		
Redox Potential Eh (mV)	614		
Turbidity (NTU)	13.28		13.2

Time	1331	Gal. Purged	80
Conductance	7079	pH	3.50
Temp. °C	14.95		
Redox Potential Eh (mV)	613		
Turbidity (NTU)	13.4		

Time	1332	Gal. Purged	90
Conductance	7110	pH	3.50
Temp. °C	14.93		
Redox Potential Eh (mV)	612		
Turbidity (NTU)	13.5		

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: 74.05 Sample Time: 0805

See instruction

Comment

Arrived on site at 1320 Tanner and Garrin present for purge. Purge began at 1323 Purged well for a total of 9 minutes. Purge ended at 1332 Water was clear Left site at 1334. White Particles were on pump and Tubing when pulled from well. Arrived on site at 0803 Tanner and Garrin present to collect samples. Depth to water was 51.80 samples bailed at 0805 Left site at 0807

TW4-32 10-18-2016 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 4Th Quarter Chloroform 2016

Location (well name): TW4-33

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-33_10262016

Date and Time for Purging: 10/25/2016 and Sampling (if different): 10/26/2016

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: TW4-09

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: 73.25

Casing Volume (V) 4" Well: 9.56 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Cloudy

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

Time	1035	Gal. Purged	13.33		
Conductance	4416	pH	6.89		
Temp. °C	15.23				
Redox Potential Eh (mV)	470				
Turbidity (NTU)	20				

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

Time	0918	Gal. Purged	0		
Conductance	4327	pH	7.01		
Temp. °C	15.40				
Redox Potential Eh (mV)					
Turbidity (NTU)					

Before

Time	0919	Gal. Purged	0		
Conductance	4359	pH	7.00		
Temp. °C	15.35				
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 = 1.91

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

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: 84.38 Sample Time: 0918

See instruction

Comment

Arrived on site at 1031, Tanner and Garrin present for purge. Purge began at 1034 Purged well for a total of 1 minute 20 seconds. Purged well dry! Purge ended at 1035. water was mostly clear. Left site at 1038

Arrived on site at 0915 Tanner and Garrin present to collect samples. Depth to water was 73.37 samples bailed at 0918 Left site at 0920

TW4-33 10-25-2016 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 4TH Quarter Chloroform 2016

Location (well name): TW4-34

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-34_10202016

Date and Time for Purging: 10/19/2016 and Sampling (if different): 10/20/2016

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: TW4-31

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: 72.40 Casing Volume (V) 4" Well: 16.19 (.653h) 3" Well: 0 (.367h)

Weather Cond.: Sunny Ext'l Amb. Temp. °C (prior sampling event): 8°

Time	0940	Gal. Purged	35
Conductance	3962	pH	6.30
Temp. °C	14.89		
Redox Potential Eh (mV)	399		
Turbidity (NTU)	11		

Time	0929	Gal. Purged	0
Conductance	3932	pH	6.65
Temp. °C	14.29		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Before

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

Time	0930	Gal. Purged	0
Conductance	3942	pH	6.65
Temp. °C	14.27		
Redox Potential Eh (mV)			
Turbidity (NTU)			

After

Volume of Water Purged: 35 gallon(s)

Pumping Rate Calculation

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

Time to evacuate two casing volumes (2V)
T = 2V/Q = 3.23

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

If well evacuated to dryness, number of gallons evacuated: 35

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: 94.11 Sample Time: 0929

See instruction

Comment

Arrived on site at 0934 Tanner and Garrin present for purge. Purge began at 0937 Purged well for a total of 3 minutes and 30 seconds. Purged well dry! Purge ended at 0940, water was clear. Left site at 0942.

Arrived on site at 0926 Tanner and Garrin present to collect samples. Depth to water was 72.59 samples bailed at 0929 Left site at 0931

TW4-34 10-19-2016 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 4th Quarter Chloroform 2016

Location (well name): TW4-35

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-35_10202016

Date and Time for Purging: 10/19/2016 and Sampling (if different): 10/20/2016

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: 74.20

Casing Volume (V) 4" Well: 8.68 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Sunny

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

Time	1009	Gal. Purged	13.33
Conductance	4428	pH	6.13
Temp. °C	15.20		
Redox Potential Eh (mV)	413		
Turbidity (NTU)	35		

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

Time	0934	Gal. Purged	0
Conductance	4372	pH	6.51
Temp. °C	14.05		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Before

Time	0935	Gal. Purged	0
Conductance	4390	pH	6.49
Temp. °C	14.08		
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 = 1.73

Number of casing volumes evacuated (if other than two): 1.53

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: 84.07 Sample Time: 0934

See instruction

Comment

Arrived on site at 1005 Tanner and Garrin present for purge. Purge began at 1008 Purged well for a total of 1 minutes and 20 seconds. Purged well dry! Purge ended at 1009. Water was a little murky. Left site at 1013

Arrived on site at 0931 Tanner and Garrin present to collect samples. Depth to water was 74.37 samples were bailed at 0934 Left site at 0936

TW4-35 10-19-2016 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 4th Quarter Chloroform 2016

Location (well name): TW4-36

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-36_10202016

Date and Time for Purging: 10/19/2016 and Sampling (if different): 10/20/2016

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: 56.45

Casing Volume (V) 4" Well: 27.78 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Sunny

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

Time	0825	Gal. Purged	50		
Conductance	2575	pH	6.40		
Temp. °C	14.71				
Redox Potential Eh (mV)	367				
Turbidity (NTU)	120				

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

Time	0914	Gal. Purged	0		
Conductance	2399	pH	6.48		
Temp. °C	15.20				
Redox Potential Eh (mV)					
Turbidity (NTU)					

Before

Time	0915	Gal. Purged	0		
Conductance	2417	pH	6.47		
Temp. °C	15.16				
Redox Potential Eh (mV)					
Turbidity (NTU)					

After

Volume of Water Purged: 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 = 5.55

Number of casing volumes evacuated (if other than two): 1.79

If well evacuated to dryness, number of gallons evacuated: 50

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: 96.43 Sample Time: 0914

See instruction

Comment

Arrived on site at 0817. Tanner and Garrin present for purge. Purge began at 0820 Purged well for a total of 5 minutes. Purged well dry! Purge ended at 0825 water was murky. Left site at 0827

Arrived on site at 0911 Tanner and Garrin present to collect samples. Depth to water was 57.25 samples bailed at 0914 Left site at 0916

TW4-36 10-19-2016 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 4th Quarter Chloroform 2016

Location (well name): TW4-37

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-37_10122016

Date and Time for Purging: 10/12/2016 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: TW4-22

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: 62.27

Casing Volume (V) 4" Well: 32.47 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Sunny

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

Time	1357	Gal. Purged	0
Conductance	4082	Part	6.65
Temp. °C	15.98		
Redox Potential Eh (mV)	467		
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 = 17.0

Time to evacuate two casing volumes (2V)
T = 2V/Q = 3.82

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: 70.11 Sample Time: 1358

See instruction

Comment

Arrived on site at 1355 Tanner and Garrin present to collect samples.

Samples collected at 1358 Water was Clear

Left site at 1401

TW4-37 10-12-2016 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 4th Quarter Chloroform 2016

Location (well name): TW4-38

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-38_11102016

Date and Time for Purging: ~~11/10~~ 11/9/2016 and Sampling (if different): 11/10/2016

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: TW4-38R

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 1000 µMHOS/ cm

Well Depth(0.01ft): 112.75

Depth to Water Before Purging: 52.93

Casing Volume (V) 4" Well: 39.06 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Sunny

Ext'l Amb. Temp. °C (prior sampling event): 11°

Time	0953	Gal. Purged	70
Conductance	1351	pH	6.46
Temp. °C	14.60		
Redox Potential Eh (mV)	501		
Turbidity (NTU)	18.9		

Time	0954	Gal. Purged	80
Conductance	1353	pH	6.48
Temp. °C	14.60		
Redox Potential Eh (mV)	500		
Turbidity (NTU)	20		

Time	0955	Gal. Purged	90
Conductance	1355	pH	6.48
Temp. °C	14.60		
Redox Potential Eh (mV)	500		
Turbidity (NTU)	20		

Time	0956	Gal. Purged	100
Conductance	1356	pH	6.49
Temp. °C	14.61		
Redox Potential Eh (mV)	499		
Turbidity (NTU)	21		

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 = 7.81

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: 103.02 Sample Time: 0700

See instruction

Comment

Arrived on site at 0944. Tanner and Garrin present for purge. Purge began at 0946
Purged well for a total of 10 minutes. Purge ended at 0956. Water was clear.
Left site at 1000

Arrived on site at 0658 Tanner present to collect samples. Depth to water was 53.40
Samples bailed at 0700 Left site at 0704

TW4-38 thu 11/9/2016 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 4Th Quarter Chloroform 2016

Location (well name): TW4-38R

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-38R_11092016

Date and Time for Purging: 11/9/2016 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: TW4-10

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.: Sunny

Ext'l Amb. Temp. °C (prior sampling event): 10°

Time	0917	Gal. Purged	130
Conductance	6.8	pH	7.21
Temp. °C	16.69		
Redox Potential Eh (mV)	472		
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: 0915

See instruction

Comment

Arrived on site at 0858. Tanner and Garrin present for rinsate. Rinsate began at 0901. Pumped 50 Gallons of soap water and 100 Gallons of DI water. Samples collected at 0915. Left site at 0917

TW4-38R 11-09-2016 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 4Th Quarter Chloroform 2016

Location (well name): TW4-39

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-39_11102016

Date and Time for Purging: 11/9/2016 and Sampling (if different): 11/10/2016

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: TW4-38

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: 60.28

Casing Volume (V) 4" Well: 38.99 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Sunny

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

Time	1326	Gal. Purged	70
Conductance	2408	pH	6.54
Temp. °C	15.75		
Redox Potential Eh (mV)	505		
Turbidity (NTU)	34		

Time	1327	Gal. Purged	80
Conductance	2434	pH	6.54
Temp. °C	15.72		
Redox Potential Eh (mV)	505		
Turbidity (NTU)	35		

Time	1328	Gal. Purged	90
Conductance	2469	pH	6.54
Temp. °C	15.71		
Redox Potential Eh (mV)	506		
Turbidity (NTU)	36		

Time	1329	Gal. Purged	100
Conductance	2474	pH	6.53
Temp. °C	15.72		
Redox Potential Eh (mV)	506		
Turbidity (NTU)	36		

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 = 779

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: 80.60 Sample Time: 0715

See instruction

Comment

Arrived on site at 1311 Tanner And Garrin present for purge. Purge began at 1319 Purged well for a total of 10 minutes. Purge ended at 1329. water was a little murky. Left site at 1332

Arrived on site at 0712 Tanner present to collect samples. Depth to water was 60.03 Samples bailed at 0715 Left site at 0718

TW4-3q 11-09-2016 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 4th Quarter Chloroform 2016

Location (well name): TW4-60

Sampler Name and initials: Tanner Holliday /TH

Field Sample ID: TW4-60_11102016

Date and Time for Purging: 11/10/2016 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: TW4-39

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.: Sunny

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

Time	0739	Gal. Purged	0
Conductance	2.2	pH	7.52
Temp. °C	19.36		
Redox Potential Eh (mV)	389		
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 [0740]

See instruction

Comment

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TW4-60 11-10-2016 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 4Th Quarter Chloroform 2016

Location (well name): TW4-65

Sampler Name and initials: Turner Holliday/TH

Field Sample ID: TW4-65_10192016

Date and Time for Purging: 10/18/2016 and Sampling (if different): 10/19/2016

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: TW4-12

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: 40.55

Casing Volume (V) 4" Well: 43.39 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Sunny

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

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 = 8.67

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: 86.80 Sample Time: 0759

See instruction

Comment

Duplicate of TW4-28

TW4-65 10-18-2016 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 4TH Quarter Chloroform 2016

Location (well name): TW4-70

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-70_10202016

Date and Time for Purging: 10/19/2016 and Sampling (if different): 10/20/2016

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: 56.45

Casing Volume (V) 4" Well: 27.78 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Sunny

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

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

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

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

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

Volume of Water Purged: 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 = 5.55

Number of casing volumes evacuated (if other than two): 1.79

If well evacuated to dryness, number of gallons evacuated: 50

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: 96.43 Sample Time: 0914

See instruction

Comment

Duplicate of TW4-36

TW4-70 10-19-2016 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 4th Quarter Chloroform 2016

Location (well name): TW4-75

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-75_10262016

Date and Time for Purging: 10/25/2016 and Sampling (if different): 10/26/2016

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: TW4-05R

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: 65.47 Casing Volume (V) 4" Well: 33.60 (.653h)
3" Well: 0 (.367h)

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

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 = 7.12

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: 67.00 Sample Time: 0838

See instruction

Comment

Duplicate of TW4-05

TW4-75 10-25-2016 Do not touch this cell (SheetName)

Tab C

Weekly and Monthly Depth to Water Data

Weekly Inspection Form

Date 10/5/16 **Name** Garvin / Tanner

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)
1406	MW-4	81.35	Flow 4.5	(Yes) No
			Meter 1152711.21	(Yes) No
1357	MW-26	64.40	Flow 8.0	(Yes) No
			Meter 114930.80	(Yes) No
1449	TW4-19	62.96	Flow 18.0	Yes (No)
			Meter 608424.30	Yes (No)
1353	TW4-20	63.29	Flow 6.7	(Yes) No
			Meter 156474.80	(Yes) No
1414	TW4-4	73.04	Flow 10.0	(Yes) No
			Meter 428199.90	(Yes) No
1344	TWN-2	34.69	Flow 18.5	(Yes) No
			Meter 706460.10	(Yes) No
1350	TW4-22	58.10	Flow 17.0	(Yes) No
			Meter 358668.20	(Yes) No
1347	TW4-24	61.34	Flow 16.5	(Yes) No
			Meter 211889.90	(Yes) No
1341	TW4-25	64.48	Flow 14.2	(Yes) No
			Meter 1759778.70	(Yes) No
1409	TW4-1	95.00	Flow 15.0	(Yes) No
			Meter 148216.20	(Yes) No
1403	TW4-2	82.30	Flow 16.2	(Yes) No
			Meter 149943.90	(Yes) No
1400	TW4-11	92.00	Flow 16.0	(Yes) No
			Meter 33473.40	(Yes) No
1337	TW4-21	67.40	Flow 16.0	(Yes) No
			Meter 668169.23	(Yes) No
1352	TW4-37	62.09	Flow 17.0	(Yes) No
			Meter 596301.50	(Yes) No

Operational Problems (Please list well number): TW4-19 had no power. Electricians were notified.

Corrective Action(s) Taken (Please list well number): Breaker was found tripped and well was back in operation at 0720 on 10/6/16.

* Depth is measured to the nearest 0.01 feet.

Weekly Inspection Form

Date 10/12/16 - 10/13/16 **Name** Gerrin, Tanner

	Time	Well	Depth*	Comments		System Operational (If no note any problems/corrective actions)
	1437	MW-4	80.00	Flow	4.4	(Yes) No
				Meter	1159348.70	(Yes) No
	1415	MW-26	64.50	Flow	8.0	(Yes) No
				Meter	116593.40	(Yes) No
10/13	0907	TW4-19	63.84	Flow	18.0	(Yes) No
				Meter	617136.40	(Yes) No
	1356	TW4-20	63.50	Flow	7.0	(Yes) No
				Meter	157473.90	(Yes) No
10/13	0838	TW4-4	73.12	Flow	10.8	(Yes) No
				Meter	430756.60	(Yes) No
	1323	TWN-2	35.22	Flow	18.5	(Yes) No
				Meter	709962.60	(Yes) No
	1342	TW4-22	58.40	Flow	17.0	(Yes) No
				Meter	360408.70	(Yes) No
	1328	TW4-24	61.70	Flow	17.4	(Yes) No
				Meter	218523.88	(Yes) No
	1317	TW4-25	65.36	Flow	14.5	(Yes) No
				Meter	1768484.50	(Yes) No
10/13	0823	TW4-1	78.50	Flow	16.0	(Yes) No
				Meter	150117.90	(Yes) No
	1422	TW4-2	80.85	Flow	16.5	(Yes) No
				Meter	151499.90	(Yes) No
1412	~~92.71~~	TW4-11	92.71	Flow	16.0	(Yes) No
	1412			Meter	33709.30	(Yes) No
	1310	TW4-21	67.84	Flow	16.0	(Yes) No
				Meter	677227.80	(Yes) No
	1349	TW4-37	62.27	Flow	17.0	(Yes) No
				Meter	604478.40	(Yes) No

Operational Problems (Please list well number): Wells 19, 1, TW4-4 were done on 10/13/16. The rest were on 10/12/16

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

* Depth is measured to the nearest 0.01 feet.

Weekly Inspection Form

Date 10/17/16 **Name** Garrin Palmer / Tanner Holliday

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)
1219	MW-4	79.90	Flow 4.5	Yes No
			Meter 1164009.20	Yes No
1210	MW-26	63.21	Flow 8.0	Yes No
			Meter 117681.90	Yes No
0830	TW4-19	63.86	Flow 18.0	Yes No
			Meter 623487.00	Yes No
1207	TW4-20	64.00	Flow 6.2	Yes No
			Meter 158180.40	Yes No
1226	TW4-4	74.18	Flow 10.7	Yes No
			Meter 433111.20	Yes No
1155	TWN-2	34.84	Flow 18.5	Yes No
			Meter 712319.90	Yes No
1201	TW4-22	58.58	Flow 15.0	Yes No
			Meter 361879.66	Yes No
1158	TW4-24	68.12	Flow 17.0	Yes No
			Meter 2199059	Yes No
1152	TW4-25	63.83	Flow 14.0	Yes No
			Meter 1774848.30	Yes No
1227	TW4-1	88.0	Flow ~~88.0~~ 16.0	Yes No
			Meter 150973.00	Yes No
1216	TW4-2	78.55	Flow 18.5	Yes No
			Meter 152498.20	Yes No
1213	TW4-11	92.21	Flow 16.0	Yes No
			Meter 33986.90	Yes No
1148	TW4-21	68.55	Flow 17.0	Yes No
			Meter 683893.55	Yes No
1204	TW4-37	62.75	Flow 17.0	Yes No
			Meter 610278.50	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.

42.45

745703

Weekly Inspection Form

Date 10/24/16 **Name** Garvin, Tanner

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)
1349	MW-4	84.12	Flow 4.5	(Yes) No
			Meter 1170707.40	(Yes) No
1355	MW-26	64.44	Flow 6.4	(Yes) No
			Meter 119017.60	(Yes) No
1425	TW4-19	65.88	Flow 18.0	(Yes) No
			Meter 631124.90	(Yes) No
1357	TW4-20	63.92	Flow 6.4	(Yes) No
			Meter 159195.50	(Yes) No
1343	TW4-4	72.87	Flow 11.2	(Yes) No
			Meter 437390.60	(Yes) No
1414	TWN-2	35.36	Flow 18.6	(Yes) No
			Meter 715810.80	(Yes) No
1404	TW4-22	92.38	Flow 16.0	(Yes) No
			Meter 363744.80	(Yes) No
1406	TW4-24	78.80	Flow 14.1	(Yes) No
			Meter 224758.95	(Yes) No
1417	TW4-25	64.39	Flow 14.5	(Yes) No
			Meter 1783407.60	(Yes) No
1346	TW4-1	98.06	Flow 16.0	(Yes) No
			Meter 152169.60	(Yes) No
1349	TW4-2	86.25	Flow 16.0	(Yes) No
			Meter 153969.20	(Yes) No
1352	TW4-11	92.27	Flow 16.0	(Yes) No
			Meter 34119.80	(Yes) No
1421	TW4-21	97.60	Flow 15.4	(Yes) No
			Meter 693062.64	(Yes) No
1400	TW4-37	66.48	Flow 17.0	(Yes) No
			Meter 618218.20	(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 10/31/16 **Name** Garrin Palmer, Tanner Holliday

Time	Well	Depth*	Comments		System Operational (If no note any problems/corrective actions)
1409	MW-4	81.57	Flow	4.5	(Yes) No
			Meter	1177528.22	(Yes) No
1400	MW-26	64.03	Flow	7.0	(Yes) No
			Meter	120397.80	(Yes) No
1436	TW4-19	64.20	Flow	18.8	(Yes) No
			Meter	639803.50	(Yes) No
1357	TW4-20	63.68	Flow	6.5	(Yes) No
			Meter	1601151.20	(Yes) No
1415	TW4-4	79.66	Flow	8.0	(Yes) No
			Meter	437006.90	(Yes) (No)
1345	TWN-2	35.30	Flow	18.5	(Yes) No
			Meter	719306.50	(Yes) No
1351	TW4-22	58.70	Flow	16.0	(Yes) No
			Meter	365568.60	(Yes) (No)
1348	TW4-24	61.70	Flow	17.0	(Yes) No
			Meter	230248.15	(Yes) No
1342	TW4-25	64.57	Flow	14.6	(Yes) No
			Meter	1792112.80	(Yes) No
1412	TW4-1	95.00	Flow	16.0	(Yes) No
			Meter	153412.00	(Yes) No
1406	TW4-2	82.46	Flow	17.0	(Yes) No
			Meter	155318.60	(Yes) No
1403	TW4-11	92.60	Flow	16.0	(Yes) No
			Meter	34355.06	(Yes) No
1339	TW4-21	67.71	Flow	16.0	(Yes) No
			Meter	702561.09	(Yes) No
1354	TW4-37	62.15	Flow	17.2	(Yes) No
			Meter	626330.50	(Yes) No

Operational Problems (Please list well number): TW4-04 had a flow meter malfunction and was spinning backwards from water going back through.

Corrective Action(s) Taken (Please list well number): Value was shut off and maintenance is installing a new flow meter.

* Depth is measured to the nearest 0.01 feet.

Monthly Depth Check Form

Date 10/31/16 **Name** Garrin, Tanner

Time	Well	Depth*	Time	Well	Depth*
1409	MW-4	81.57	0909	TWN-1	63.02
1412	TW4-1	95.00	1345	TWN-2	35.30
1406	TW4-2	82.46	0919	TWN-3	39.80
0938	TW4-3	57.55	0917	TWN-4	56.00
1415	TW4-4	79.66	0924	TWN-7	85.15
0942	TW4-5	65.30	0914	TWN-18	60.50
1044	TW4-6	72.98	0925	MW-27	54.37
0935	TW4-7	75.83	1220	MW-30	75.01
0936	TW4-8	79.45	0730	MW-31	68.17
0941	TW4-9	63.05			
0944	TW4-10	62.60			
1403	TW4-11	92.60			
1240	TW4-12	46.68			
1239	TW4-13	52.51	1242	TW4-28	40.56
1236	TW4-14	79.10	1235	TW4-29	74.15
1400	TW4-15	64.03	1230	TW4-30	75.45
0933	TW4-16	63.89	1229	TW4-31	78.64
0755	TW4-17	77.70	1243	TW4-32	~~77.70~~ 51.60
0911	TW4-18	66.07	1225	TW4-33	73.06
1436	TW4-19	64.20	1233	TW4-34	72.20
1357	TW4-20	63.68	1231	TW4-35	74.00
1339	TW4-21	67.71	1238	TW4-36	56.21
1351	TW4-22	58.30	1354	TW4-37	62.15
1046	TW4-23	~~65.36~~ 70.05	0939	TW4-38	52.93
1348	TW4-24	61.70	0945	TW4-39	59.70
1342	TW4-25	64.57			
1048	TW4-26	67.38			
1227	TW4-27	79.30			

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

7517611

* Depth is measured to the nearest 0.01 feet

Weekly Inspection Form

Date 11/9/16 **Name** Garcia, Tanner

Time	Well	Depth*	Comments		System Operational (If no note any problems/corrective actions)
1423	MW-4	79.85	Flow	4.5	(Yes) No
			Meter	1185231.01	(Yes) No
1411	MW-26	63.20	Flow	7.1	(Yes) No
			Meter	121830.60	(Yes) No
1438	TW4-19	64.18	Flow	18.0	(Yes) No
			Meter	650041.50	(Yes) No
1408	TW4-20	64.69	Flow	6.5	(Yes) No
			Meter	161456.47	(Yes) No
1427	TW4-4	74.89	Flow	16.5	Yes (No)
			Meter	441598.30	(Yes) (No)
1356	TWN-2	35.70	Flow	18.6	(Yes) No
			Meter	723897.60	(Yes) No
1402	TW4-22	84.00	Flow	16.0	(Yes) No
			Meter	367972.00	(Yes) No
1359	TW4-24	66.71	Flow	17.0	(Yes) No
			Meter	241109.87	(Yes) No
1353	TW4-25	64.65	Flow	14.5	(Yes) No
			Meter	1803306.90	(Yes) No
1426	TW4-1	93.81	Flow	16.0	(Yes) No
			Meter	155855.60	(Yes) No
1420	TW4-2	81.00	Flow	17.0	(Yes) No
			Meter	157290.00	(Yes) No
1417	TW4-11	93.10	Flow	16.0	(Yes) No
			Meter	34647.70	(Yes) No
1350	TW4-21	68.14	Flow	16.0	(Yes) No
			Meter	714003.47	(Yes) No
1405	TW4-37	89.64	Flow	17.0	(Yes) No
			Meter	636617.90	(Yes) No

Operational Problems (Please list well number): Pump on TW4-4 went out. Maintenance was notified and pump will be replaced ASAP.

Corrective Action(s) Taken (Please list well number): Pump was replaced on 11/10/16 and is back in operation.

* Depth is measured to the nearest 0.01 feet.

Weekly Inspection Form

Date 11/15/16 **Name** Garrin Palmer

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)
1414	MW-4	71.42	Flow 4.5	(Yes) No
			Meter 1190762.04	(Yes) No
1404	MW-26	63.45	Flow 7.1	(Yes) No
			Meter 122992.00	(Yes) No
1205	TW4-19	64.29	Flow 18.0	(Yes) No
			Meter 658471.91	(Yes) No
1352	TW4-20	66.72	Flow 6.6	(Yes) No
			Meter 162389.17	(Yes) No
1420	TW4-4	79.84	Flow 16.5	(Yes) No
			Meter 443195.50	(Yes) No
1241	TWN-2	33.41	Flow 18.5	(Yes) No
			Meter 726879.50	(Yes) No
1343	TW4-22	84.62	Flow 16.0	(Yes) No
			Meter 369453.60	(Yes) No
1340	TW4-24	66.02	Flow 17.0	(Yes) No
			Meter 249160.37	(Yes) No
1237	TW4-25	64.50	Flow 14.7	(Yes) No
			Meter 1810557.70	(Yes) No
1417	TW4-1	92.99	Flow 16.0	(Yes) No
			Meter 156024.50	(Yes) No
1411	TW4-2	82.88	Flow 17.0	(Yes) No
			Meter 158659.60	(Yes) No
1408	TW4-11	92.98	Flow 16.0	(Yes) No
			Meter 34846.60	(Yes) No
1226	TW4-21	68.20	Flow 16.0	(Yes) No
			Meter 722855.77	(Yes) No
1348	TW4-37	90.14	Flow 17.0	(Yes) No
			Meter 642861.40	(Yes) No

Operational Problems (Please list well number): Turned on heat lamps for winter months.

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

* Depth is measured to the nearest 0.01 feet.

Weekly Inspection Form

Date 11/23/16 **Name** Garcia Palmer, Tanner Holliday

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)
0836	MW-4	81.03	Flow 4.5	(Yes) No
			Meter 1198321.77	(Yes) No
0824	MW-26	64.35	Flow 7.0	(Yes) No
			Meter 124388.10	(Yes) No
0900	TW4-19	64.87	Flow 18.0	(Yes) No
			Meter 667946.60	(Yes) No
0827	TW4-20	68.86	Flow 7.2	(Yes) No
			Meter 163430.60	(Yes) No
0844	TW4-4	73.70	Flow 16.4	(Yes) No
			Meter 445038.80	(Yes) No
0759	TWN-2	36.40	Flow 18.6	(Yes) No
			Meter 730762.60	(Yes) No
0814	TW4-22	65.24	Flow 17.0	(Yes) No
			Meter 371496.40	(Yes) No
0803	TW4-24	61.10	Flow 16.0	(Yes) No
			Meter 249160.60	(Yes) No
0756	TW4-25	64.60	Flow 14.0	(Yes) No
			Meter 1820409.60	(Yes) No
0839	TW4-1	92.50	Flow 16.0	(Yes) No
			Meter 157513.70	(Yes) No
0833	TW4-2	81.10	Flow 17.0	(Yes) No
			Meter 160413.70	(Yes) No
0830	TW4-11	98.72	Flow 16.0	(Yes) No
			Meter 35123.60	(Yes) No
0752	TW4-21	68.69	Flow 16.0	(Yes) No
			Meter 734893.23	(Yes) No
0817	TW4-37	66.74	Flow 17.0	(Yes) No
			Meter 651767.00	(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 11/28/16 **Name** Garcia, Tanner

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)
1258	MW-4	81.98	Flow 4.5	(Yes) No
			Meter 1203503.18	(Yes) No
1307	MW-26	63.71	Flow 6.8	(Yes) No
			Meter 125350.80	(Yes) No
1401	TW4-19	64.87	Flow 18.0	(Yes) No
			Meter 674430.50	(Yes) No
1310	TW4-20	63.21	Flow 7.4	(Yes) No
			Meter 164160.60	(Yes) No
1252	TW4-4	73.35	Flow 17.0	(Yes) No
			Meter 446455.70	(Yes) No
1328	TWN-2	35.30	Flow 18.6	(Yes) No
			Meter 733227.10	(Yes) No
1316	TW4-22	58.20	Flow 16.0	(Yes) No
			Meter 372167.90	(Yes) No
1319	TW4-24	62.21	Flow 14.2	(Yes) No
			Meter 258341.69	(Yes) No
1325	TW4-25	65.10	Flow 14.6	(Yes) No
			Meter 1827056.60	(Yes) No
1255	TW4-1	84.53	Flow 15.0	(Yes) No
			Meter 158590.90	(Yes) No
1301	TW4-2	107.58	Flow 16.0	(Yes) No
			Meter 161756.40	(Yes) No
1304	TW4-11	92.45	Flow 16.0	(Yes) No
			Meter 35397.50	(Yes) No
1322	TW4-21	68.23	Flow 16.0	(Yes) No
			Meter 743266.64	(Yes) No
1313	TW4-37	61.96	Flow 16.2	(Yes) No
			Meter 657636.40	(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.

[redacted] [redacted]

7607989

Monthly Depth Check Form

Date 11/29/16 **Name** Garrin Palmer

Time	Well	Depth*	Time	Well	Depth*
1136	MW-4	80.01	1226	TWN-1	63.02
1139	TW4-1	85.44	1340	TWN-2	33.12
1138	TW4-2	90.66	1220	TWN-3	39.91
1237	TW4-3	57.44	1208	TWN-4	55.95
1146	TW4-4	72.88	1215	TWN-7	84.71
1234	TW4-5	65.25	1342	TWN-18	60.48
1244	TW4-6	72.86	1223	MW-27	54.27
1241	TW4-7	76.58	1301	MW-30	74.88
1240	TW4-8	80.52	1303	MW-31	68.08
1235	TW4-9	63.06			
1232	TW4-10	62.55			
1141	TW4-11	90.62			
1326	TW4-12	46.70			
1324	TW4-13	52.30	1329	TW4-28	40.60
1321	TW4-14	78.95	1319	TW4-29	74.10
1252	TW4-15	~~77.55~~ 64.02	1314	TW4-30	75.21
1253	TW4-16	63.76	1312	TW4-31	78.41
1144	TW4-17	77.66	1327	TW4-32	51.55
1158	TW4-18	66.05	1309	TW4-33	73.11
1002	TW4-19	63.87	1317	TW4-34	72.15
1152	TW4-20	63.64	1316	TW4-35	73.85
1155	TW4-21	68.22	1322	TW4-36	56.39
1148	TW4-22	60.40	1338	TW4-37	62.46
1247	TW4-23	69.95	1337	TW4-38	52.79
1150	TW4-24	62.68	1336	TW4-39	60.16
1154	TW4-25	66.22			
1246	TW4-26	67.38			
1311	TW4-27	79.00			

MW 26

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

* Depth is measured to the nearest 0.01 feet

Weekly Inspection Form

Date 12/7/16 **Name** Garrin Palmer

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)
0931	MW-4	80.88	Flow 4.5	(Yes) No
			Meter 1212148.24	(Yes) No
0921	MW-26	64.00	Flow 6.8	(Yes) No
			Meter 126968.20	(Yes) No
1007	TW4-19	63.96	Flow 18.0	(Yes) No
			Meter 685476.20	(Yes) No
0918	TW4-20	63.40	Flow 7.4	(Yes) No
			Meter 166561.40	(Yes) No
0937	TW4-4	74.88	Flow 17.0	(Yes) No
			Meter 448697.40	(Yes) No
0906	TWN-2	36.94	Flow 18.5	(Yes) No
			Meter 737777.60	(Yes) No
0912	TW4-22	60.17	Flow 16.0	(Yes) No
			Meter 375191.30	(Yes) No
0909	TW4-24	64.36	Flow 14.0	(Yes) No
			Meter 273942.89	(Yes) No
0903	TW4-25	66.78	Flow 14.3	(Yes) No
			Meter 1837913.40	(Yes) No
0934	TW4-1	84.36	Flow 15.0	(Yes) No
			Meter 160210.70	(Yes) No
0927	TW4-2	98.79	Flow 16.0	(Yes) No
			Meter 163728.90	(Yes) No
0924	TW4-11	92.88	Flow 16.0	(Yes) No
			Meter 35609.70	(Yes) No
0900	TW4-21	68.64	Flow 16.0	(Yes) No
			Meter 757436.00	(Yes) No
0915	TW4-37	63.65	Flow 16.4	(Yes) No
			Meter 66777.66	(Yes) No
0942	TW4-39	62.02	Flow 17.6	(Yes) No
			Meter 642.90	(Yes) No

Operational Problems (Please list well number): Replaced burnt out heat lamp on TW4-20.

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

* Depth is measured to the nearest 0.01 feet.

762718

Weekly Inspection Form

Date 12/12/2016 **Name** Tanner Holliday

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)
1311	MW-4	84.93	Flow 4.3	(Yes) No
			Meter 12177223.29	(Yes) No
1300	MW-26	64.38	Flow 6.5	(Yes) No
			Meter 127769.0	(Yes) No
1330	TW4-19	64.20	Flow 18.0	(Yes) No
			Meter 691767.7	(Yes) No
1257	TW4-20	63.99	Flow 7.3	(Yes) No
			Meter 166220.15	(Yes) No
1317	TW4-4	73.98	Flow 17.0	(Yes) No
			Meter 449990.0	(Yes) No
1243	TWN-2	34.11	Flow 18.0	(Yes) No
			Meter 7402 84.7	(Yes) No
1250	TW4-22	63.38	Flow 16.0	(Yes) No
~~1250~~			Meter 376449.0	(Yes) No
1247	TW4-24	64.41	Flow 14.0	(Yes) No
			Meter 282505.37	(Yes) No
1239	TW4-25	66.52	Flow 14.5	(Yes) No
			Meter 1844428.9	(Yes) No
1314	TW4-1	85.42	Flow 15.0	(Yes) No
			Meter 161210.3	(Yes) No
1307	TW4-2	84.51	Flow 16.0	(Yes) No
			Meter 164913.7	(Yes) No
1304	TW4-11	92.59	Flow 16.0	(Yes) No
			Meter 35775.9	(Yes) No
1235	TW4-21	68.87	Flow 16.0	(Yes) No
			Meter 765681.89	(Yes) No
1253	TW4-37	63.56	Flow 16.5	(Yes) No
			Meter 673466.3	(Yes) No
1324	TW4-39	64.01	Flow 17.0	(Yes) No
			Meter 15759.8	(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 12/20/16 **Name** Garrin Palmer

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)
1228	MW-4	81.68	Flow 4.4	(Yes) No
			Meter 1224703.03	(Yes) No
1217	MW-26	64.19	Flow 6.6	(Yes) No
			Meter 130087.20	(Yes) No
1236	TW4-19	63.98	Flow 18.0	(Yes) No
			Meter 701581.30	(Yes) No
1213	TW4-20	64.60	Flow 7.4	(Yes) No
			Meter 167322.21	(Yes) No
1247	TW4-4	74.28	Flow 17.0	(Yes) No
			Meter 451823.40	(Yes) No
1147	TWN-2	33.77	Flow 18.6	(Yes) No
			Meter 744111.20	(Yes) No
1205	TW4-22	63.89	Flow 16.0	(Yes) No
			Meter 378518.20	(Yes) No
1201	TW4-24	64.50	Flow 14.2	(Yes) No
			Meter 295736.20	(Yes) No
1143	TW4-25	67.18	Flow 14.5	(Yes) No
			Meter 1849736.70	(Yes) No
1231	TW4-1	85.43	Flow 15.0	(Yes) No
			Meter 162713.00	(Yes) No
1225	TW4-2	84.32	Flow 16.0	(Yes) No
			Meter 166714.90	(Yes) No
1221	TW4-11	93.01	Flow 16.0	(Yes) No
			Meter 36041.00	(Yes) No
1140	TW4-21	68.90	Flow 16.0	(Yes) No
			Meter 778329.60	(Yes) No
1209	TW4-37	63.50	Flow 16.3	(Yes) No
			Meter 682213.00	(Yes) No
1254	TW4-39	63.17	Flow 16.2	(Yes) No
			Meter 26476.30	(Yes) No

Operational Problems (Please list well number): Replaced heat bulb in MW-26.

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

* Depth is measured to the nearest 0.01 feet.

Weekly Inspection Form

4A 3.5 59872
4B 2.22 66795

Date 12/27/2016 **Name** Tanner Holliday

771459

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)
1242	MW-4	82.11	Flow 4.3	(Yes) No
			Meter 1231528.87	(Yes) No
1228	MW-26	65.78	Flow 10.9	(Yes) No
			Meter 132081.9	(Yes) No
1301	TW4-19	64.02	Flow 18.0	(Yes) No
			Meter 71251 2.8	(Yes) No
1225	TW4-20	64.78	Flow 7.4	(Yes) No
			Meter 168343.41	(Yes) No
1248	TW4-4	73.48	Flow 17.0	(Yes) No
			Meter 453609.0	(Yes) No
1212	TWN-2	34.69	Flow 18.0	(Yes) No
			Meter 747604.6	(Yes) No
1219	TW4-22	63.97	Flow 16.0	(Yes) No
			Meter 380360.4	(Yes) No
1216	TW4-24	64.82	Flow 14.5	(Yes) No
			Meter 307037.79	(Yes) No
1207	TW4-25	67.10	Flow ~~6210~~ 14.5	(Yes) No
			Meter 1849735.6	(Yes) No
1245	TW4-1	84.97	Flow 15.0	(Yes) No
			Meter 164189.5	(Yes) No
~~1237~~	TW4-2	~~34.69~~	Flow 16.0	(Yes) No
1239		84.62	Meter ~~747604.6~~ 168339.9	(Yes) No
1236	TW4-11	92.48	Flow 16.0	(Yes) No
			Meter 36277.3	(Yes) No
1203	TW4-21	68.95	Flow 16.6	(Yes) No
			Meter 789261.17	(Yes) No
1222	TW4-37	63.49	Flow 16.5	(Yes) No
			Meter 690166.3	(Yes) No
1232	TW4-39	64.00	Flow 16.2	(Yes) No
			Meter 3589.33	(Yes) No

Operational Problems (Please list well number): Heat Lamp Replaced on MW 26, TW4-21

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

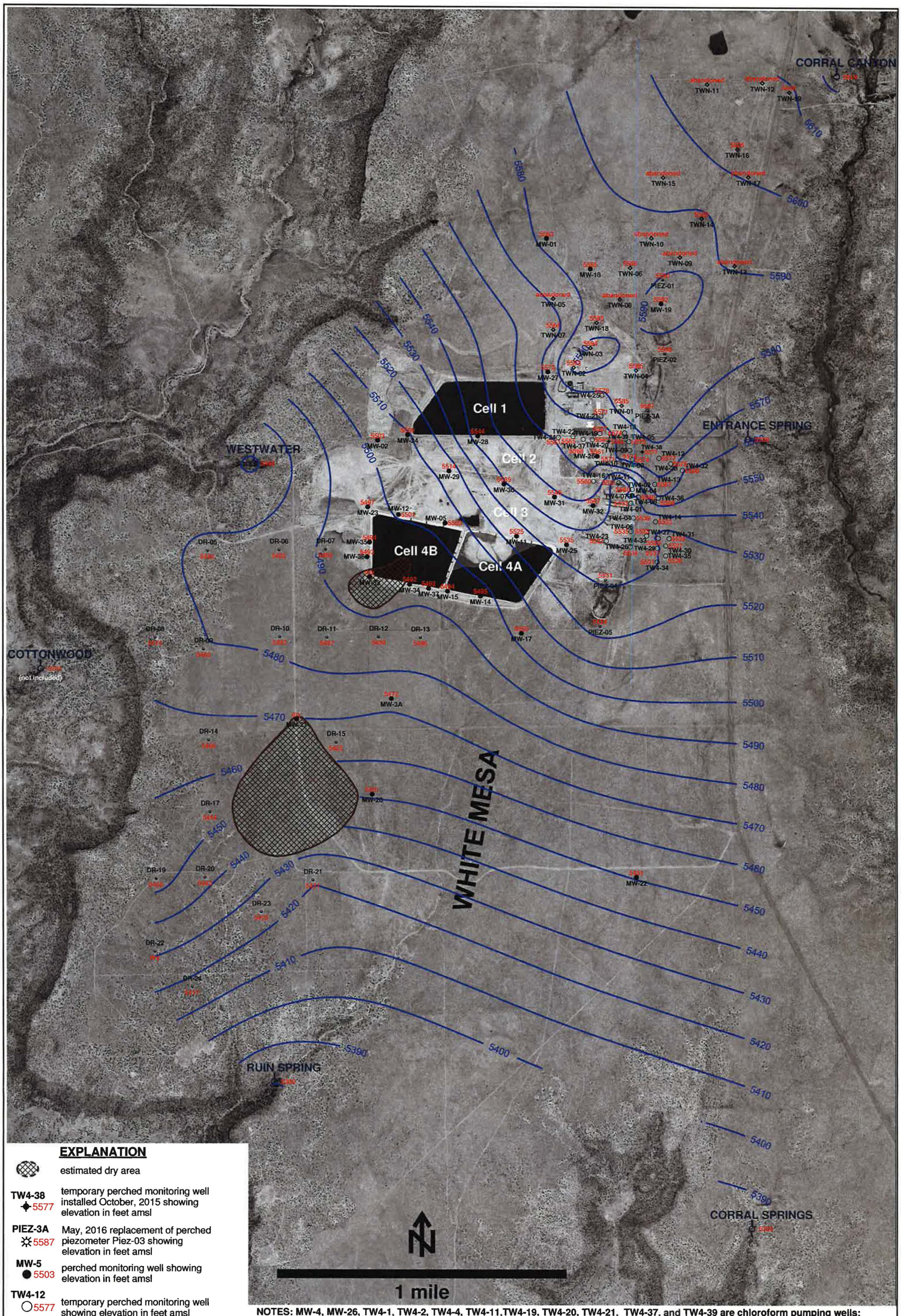
12/21/2016

Time	Well	Depth to Water (ft)
916	MW-1	64.46
1359	MW-2	109.95
NA	MW-3	Abandoned
725	MW-3A	84.62
1417	MW-5	106.22
1447	MW-11	86.05
1413	MW-12	108.35
1432	MW-14	103.02
1435	MW-15	106.18
731	MW-17	71.95
855	MW-18	72.15
841	MW-19	62.73
1146	MW-20	89.19
1056	MW-22	66.80
1411	MW-23	114.58
1349	MW-24	112.86
1445	MW-25	77.80
1217	MW-26	64.19
1502	MW-27	54.99
1351	MW-28	75.34
1356	MW-29	100.70
1459	MW-30	75.44
1450	MW-31	68.60
1453	MW-32	78.15
1417	MW-33	DRY
1440	MW-34	107.85
1419	MW-35	112.35
1416	MW-36	110.61
1437	MW-37	107.84

Time	Well	Depth to Water (ft)
1228	MW-4	81.68
1231	TW4-1	85.43
1225	TW4-2	84.32
700	TW4-3	58.00
1247	TW4-4	74.28
656	TW4-5	65.93
707	TW4-6	73.40
705	TW4-7	76.98
703	TW4-8	81.50
658	TW4-9	63.71
654	TW4-10	63.30
1221	TW4-11	93.01
957	TW4-12	46.96
1002	TW4-13	53.00
1006	TW4-14	79.35
1217	TW4-15	64.19
1455	TW4-16	64.31
1453	TW4-17	78.15
1507	TW4-18	66.94
1236	TW4-19	63.98
1213	TW4-20	64.60
1140	TW4-21	68.90
1205	TW4-22	63.89
1009	TW4-23	70.51
1201	TW4-24	64.50
1143	TW4-25	67.18
1011	TW4-26	67.72
736	TW4-27	79.50
959	TW4-28	40.87
744	TW4-29	74.55
739	TW4-30	75.64
738	TW4-31	78.77
1000	TW4-32	52.09
734	TW4-33	73.34
743	TW4-34	72.60
741	TW4-35	74.25
1004	TW4-36	56.55
1209	TW4-37	63.50
1014	TW4-38	53.40
1254	TW4-39	63.17

Time	Well	Depth to Water (ft)
844	PIEZ-1	65.14
839	PIEZ-2	40.45
836	PIEZ-3	50.31
710	PIEZ-4	60.34
713	PIEZ-5	60.00
1506	TWN-1	63.54
1147	TWN-2	33.77
832	TWN-3	40.30
834	TWN-4	56.45
NA	TWN-5	Abandoned
853	TWN-6	78.91
918	TWN-7	84.80
NA	TWN-8	Abandoned
NA	TWN-9	Abandoned
NA	TWN-10	Abandoned
NA	TWN-11	Abandoned
NA	TWN-12	Abandoned
NA	TWN-13	Abandoned
850	TWN-14	61.10
NA	TWN-15	Abandoned
848	TWN-16	47.70
NA	TWN-17	Abandoned
830	TWN-18	60.85
1153	TWN-19	53.29

Time	Well	Depth to Water (ft)
NA	DR-1	Abandoned
NA	DR-2	Abandoned
1131	DR-5	83.20
1134	DR-6	94.20
1424	DR-7	92.24
1141	DR-8	51.30
1139	DR-9	86.65
1136	DR-10	78.51
719	DR-11	98.25
722	DR-12	91.17
728	DR-13	69.99
1123	DR-14	76.40
1126	DR-15	92.98
NA	DR-16	Abandoned
1120	DR-17	64.98
NA	DR-18	Abandoned
1109	DR-19	63.05
1107	DR-20	55.87
1101	DR-21	101.10
1112	DR-22	DRY
1103	DR-23	70.60
1116	DR-24	44.25
NA	DR-25	Abandoned



EXPLANATION

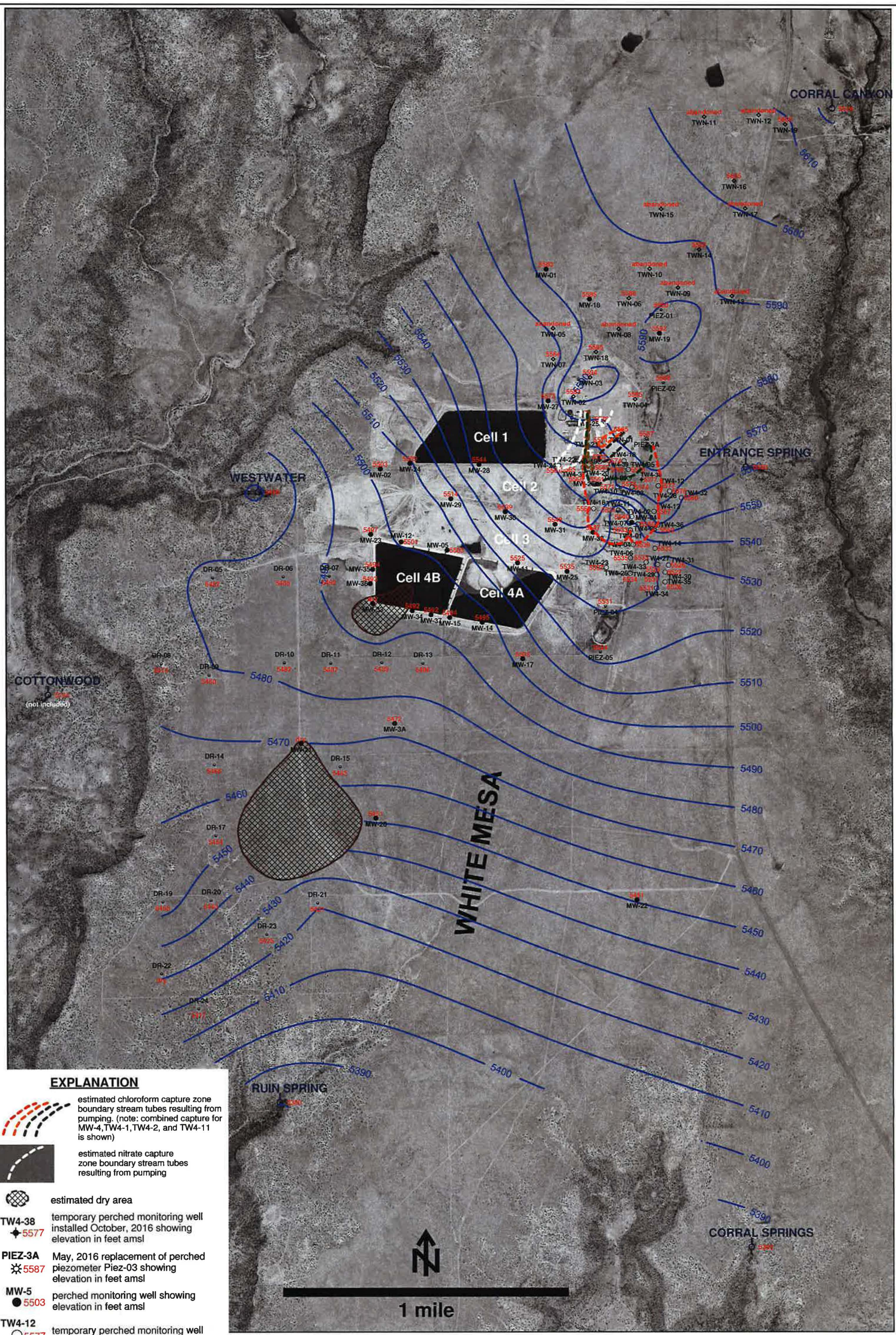
- estimated dry area
- **TW4-38** ✦ 5577 — temporary perched monitoring well installed October, 2015 showing elevation in feet amsl
- **PIEZ-3A** ☼ 5587 — May, 2016 replacement of perched piezometer Piez-03 showing elevation in feet amsl
- **MW-5** ● 5503 — perched monitoring well showing elevation in feet amsl
- **TW4-12** ○ 5577 — 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, TW4-37, and TW4-39 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 4th QUARTER, 2016 WATER LEVELS WHITE MESA SITE

APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/feb17/WL/Uwl1116.srf	D-1



EXPLANATION

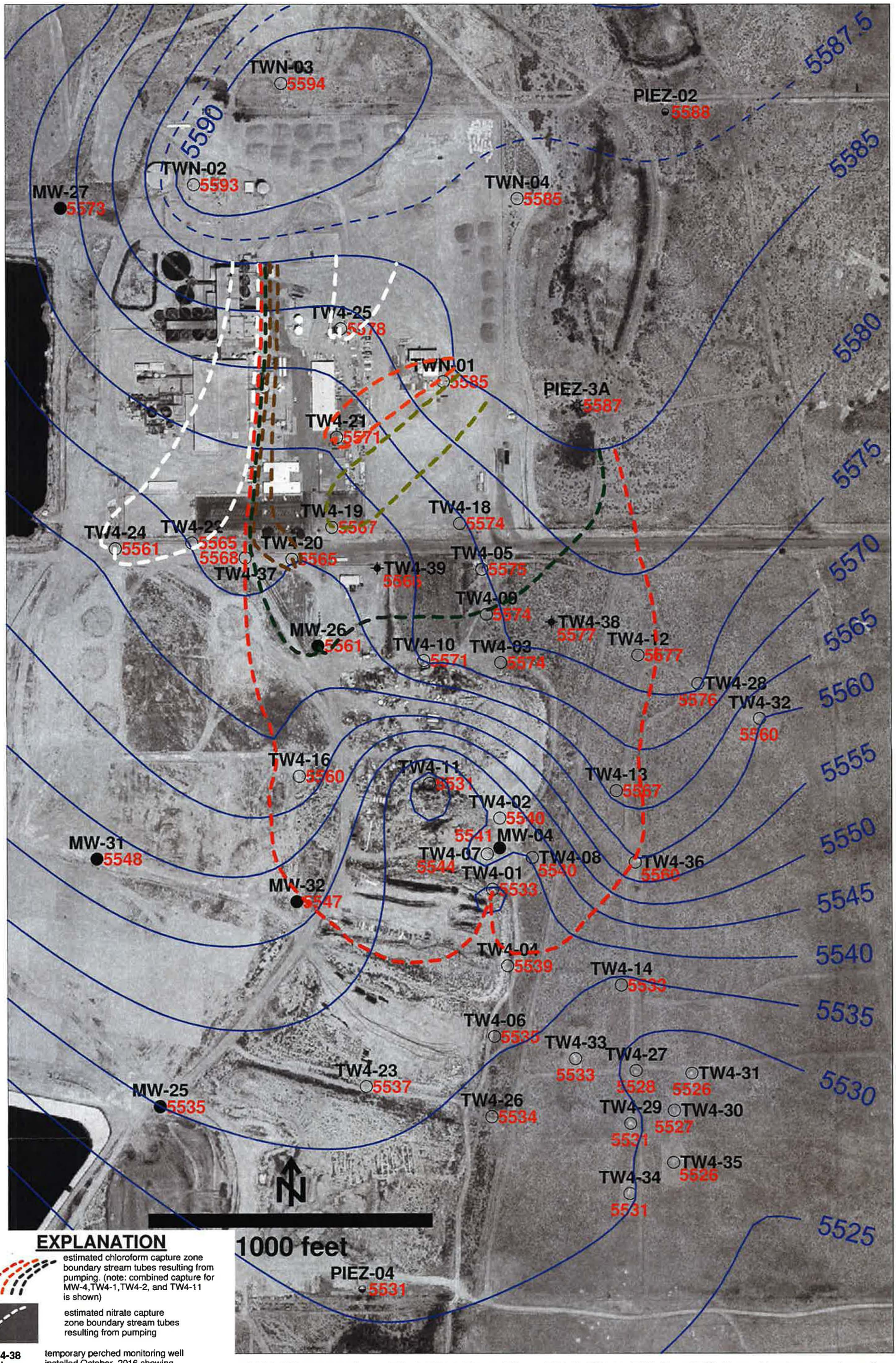
- estimated chloroform capture zone boundary stream tubes resulting from pumping. (note: combined capture for MW-4,TW4-1,TW4-2, and TW4-11 is shown)
- estimated nitrate capture zone boundary stream tubes resulting from pumping
- estimated dry area
- **TW4-38** 5577 — temporary perched monitoring well installed October, 2016 showing elevation in feet amsl
- **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** 5577 — 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, TW4-37, and TW4-39 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 4th QUARTER, 2016 WATER LEVELS AND ESTIMATED CAPTURE ZONES WHITE MESA SITE

APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/feb17/WL/Uwl1116cz2.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 is shown)
- estimated nitrate capture zone boundary stream tubes resulting from pumping
- **TW4-38** 5577 — temporary perched monitoring well installed October, 2016 showing elevation in feet amsl
- **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** 5544 — temporary perched monitoring well showing elevation in feet amsl
- **PIEZ-2** 5588 — 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, TW4-37, and TW4-39 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

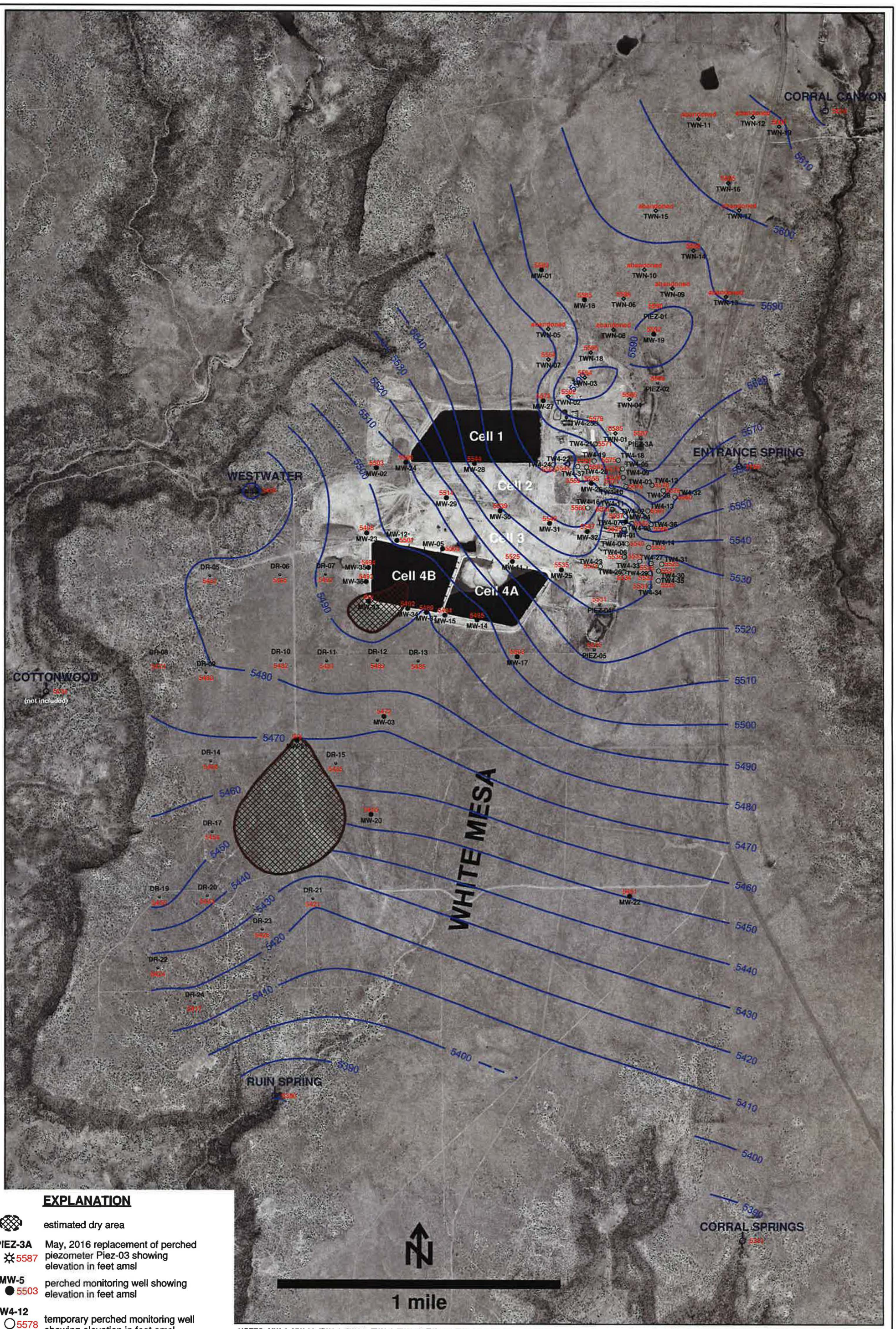
HYDRO GEO CHEM, INC.

KRIGED 4th QUARTER, 2016 WATER LEVELS AND ESTIMATED CAPTURE ZONES WHITE MESA SITE (detail map)

APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/feb17/WL/Uwl1116cz.srf	D-3

Tab E

Kriged Previous Quarter Groundwater Contour Map



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	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	

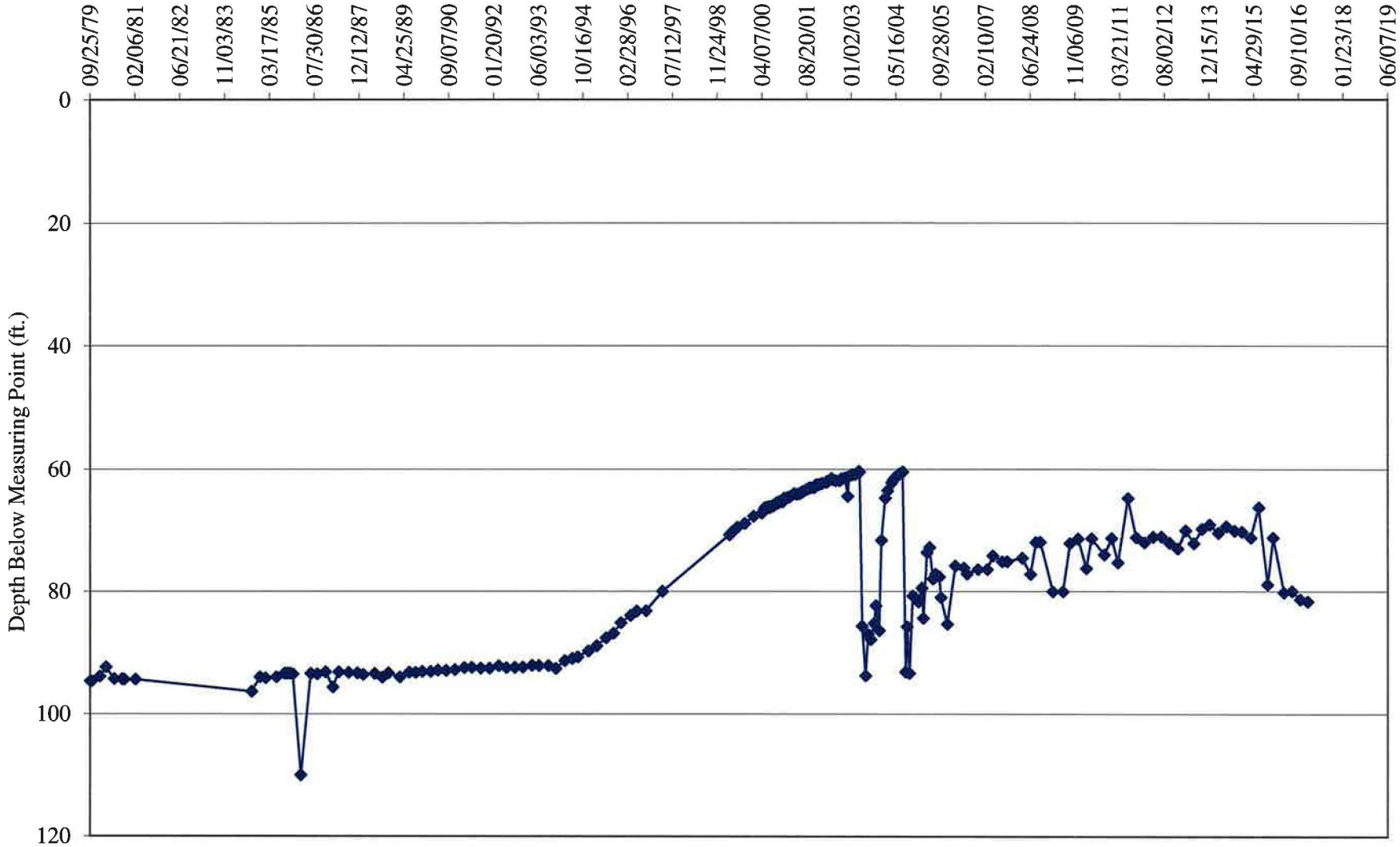
Water Levels and Data over Time
White Mesa Mill - Well MW4

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	
5,540.65				12/21/16	81.68	80.12	

MW 4 Water Depth Over Time (ft. blmp)



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	

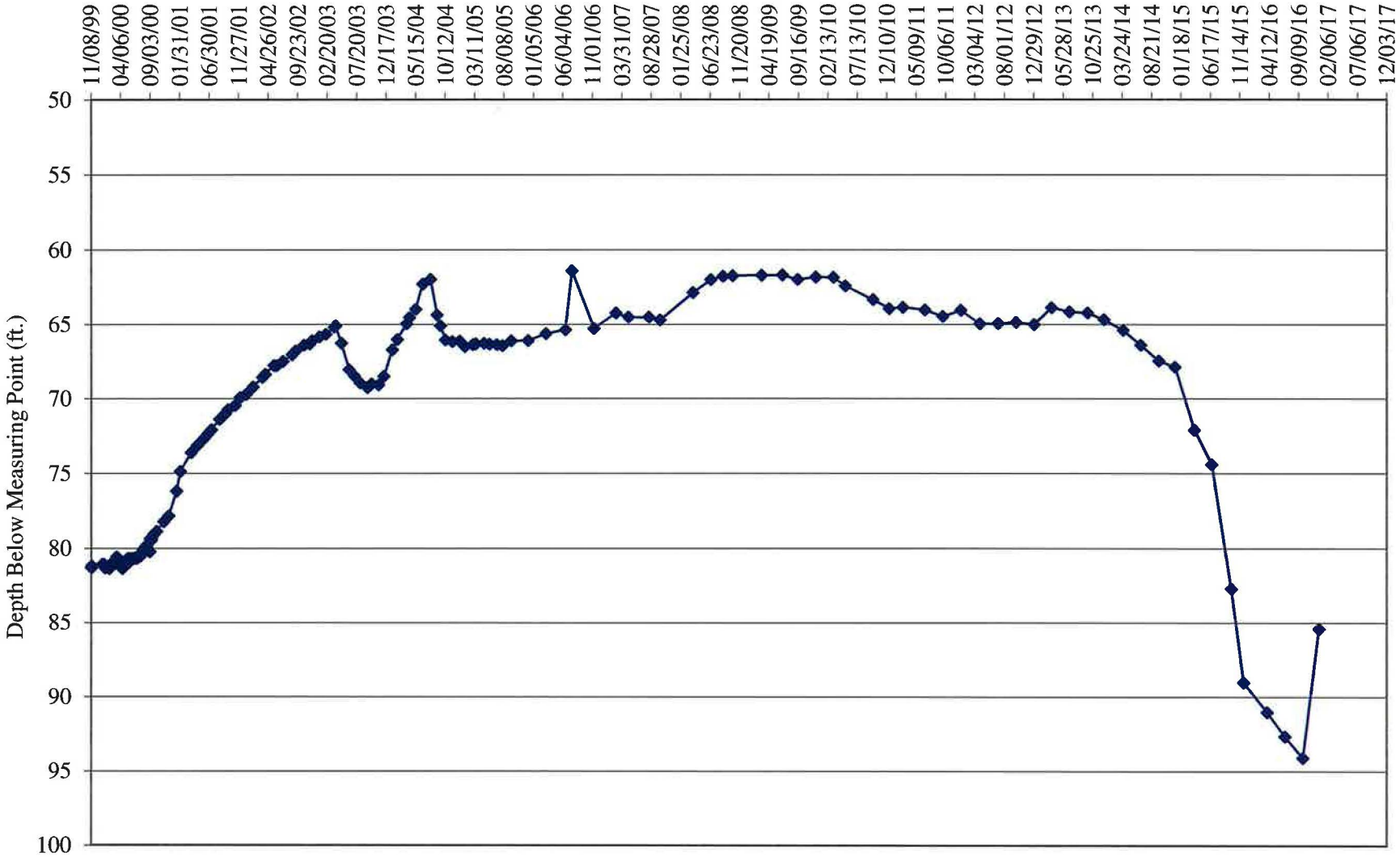
Water Levels and Data over Time
White Mesa Mill - Well TW4-1

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	
5,533.15				12/21/16	85.43	84.41	

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	

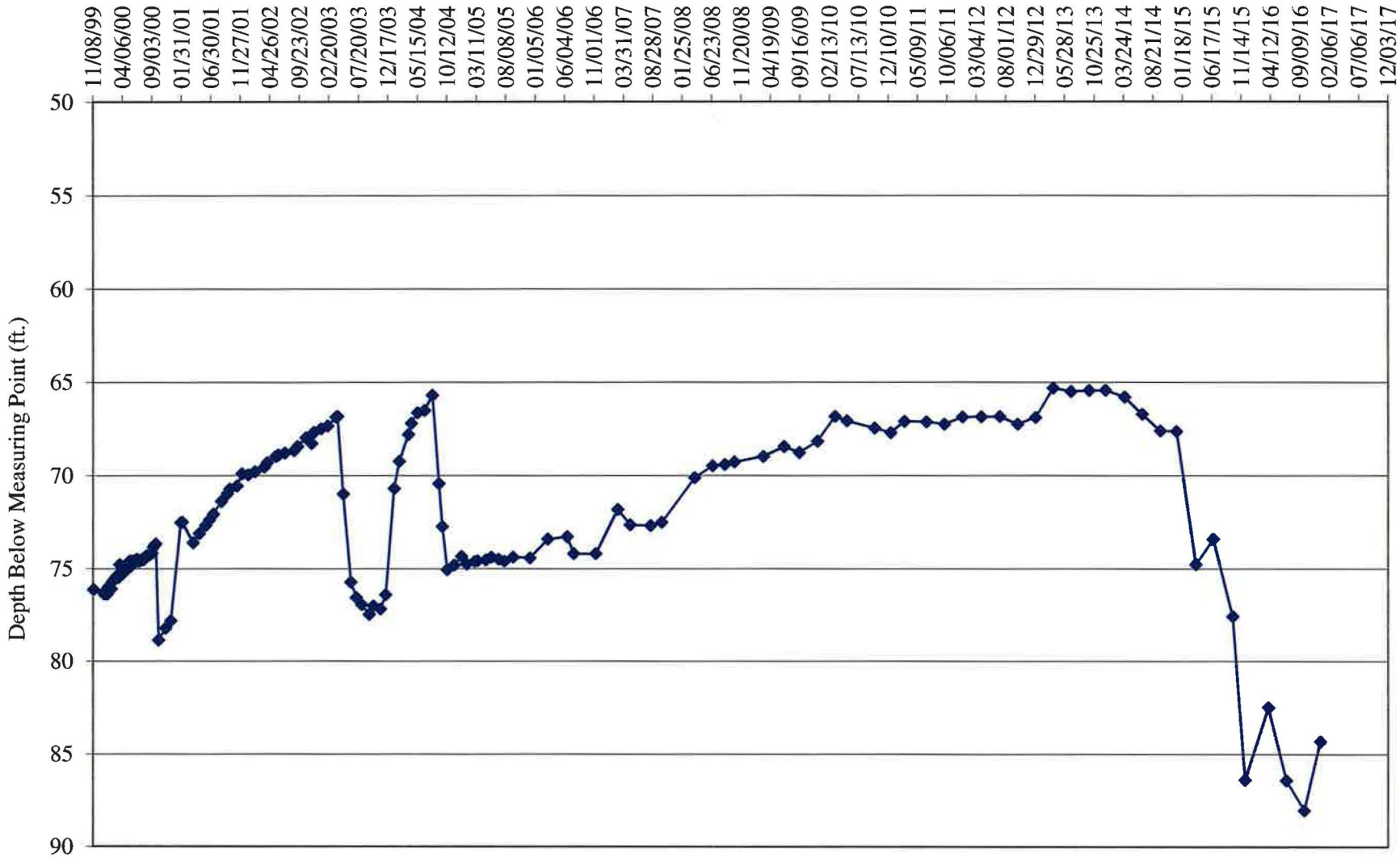
Water Levels and Data over Time
White Mesa Mill - Well TW4-2

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	
5,540.40				12/21/2016	84.32	82.70	

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	

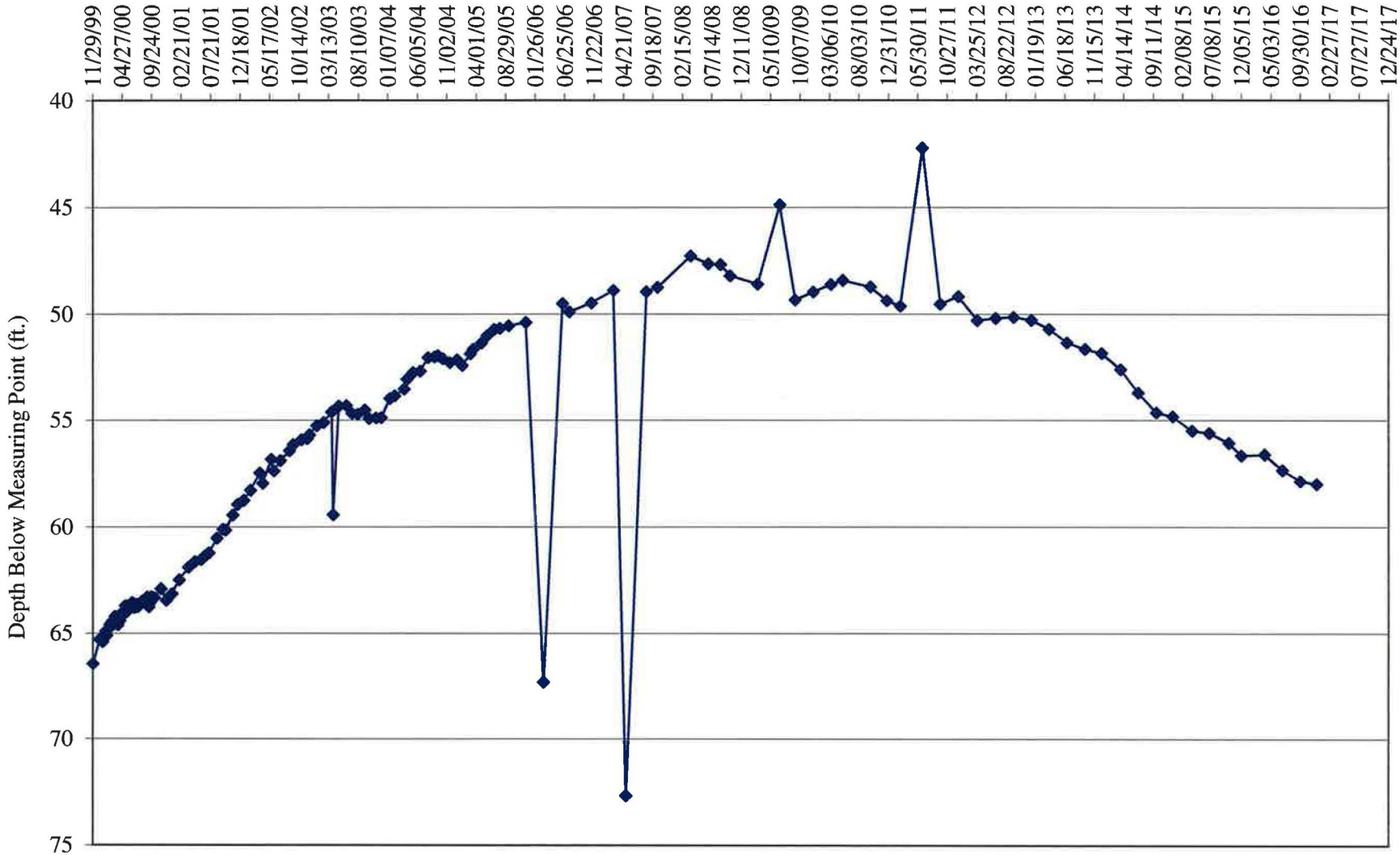
Water Levels and Data over Time
White Mesa Mill - Well TW4-3

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	
5,574.23				12/21/2016	58.00	56.98	

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	

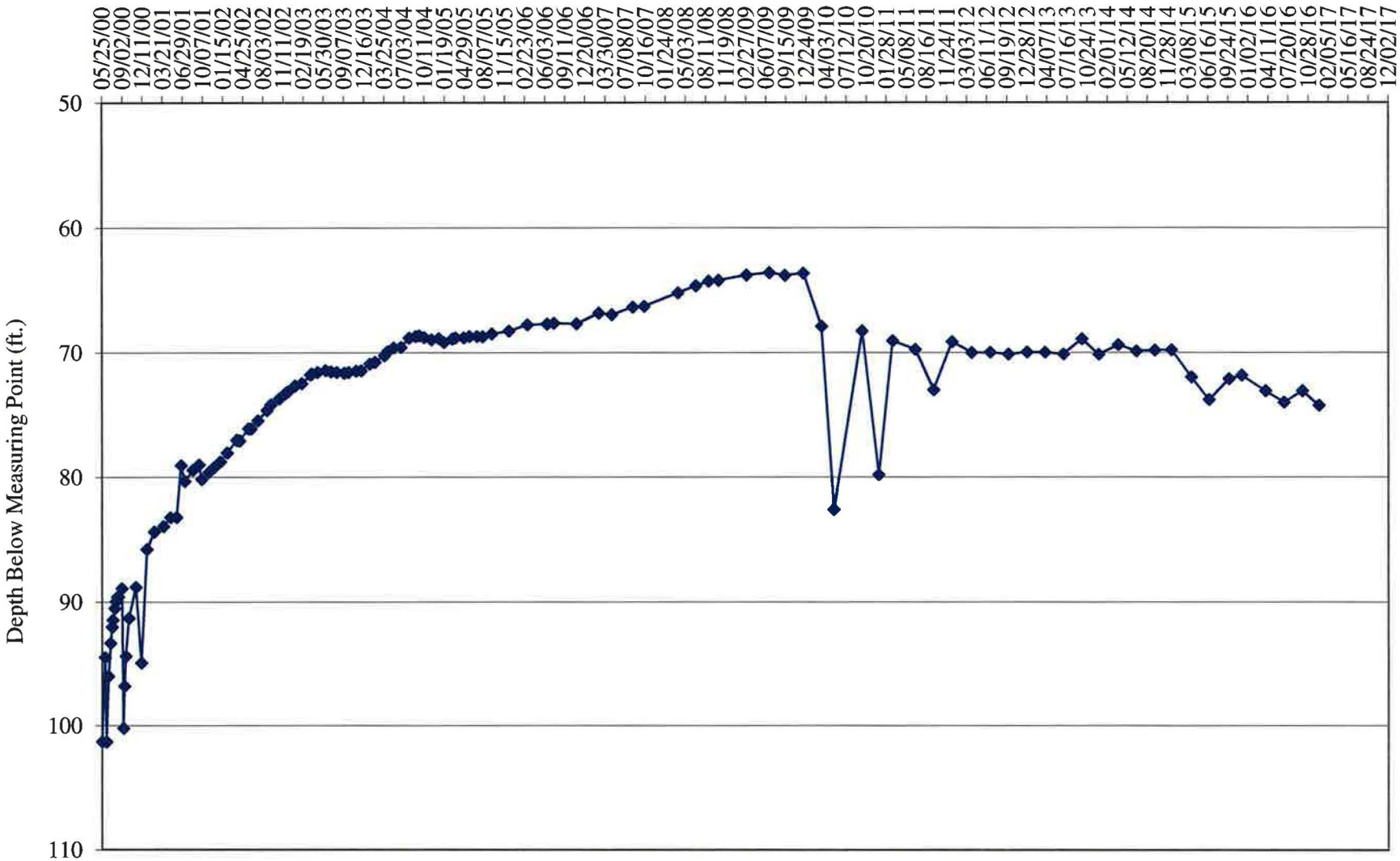
Water Levels and Data over Time
White Mesa Mill - Well TW4-4

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	
5,539.21				12/21/16	74.28	73.10	

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	

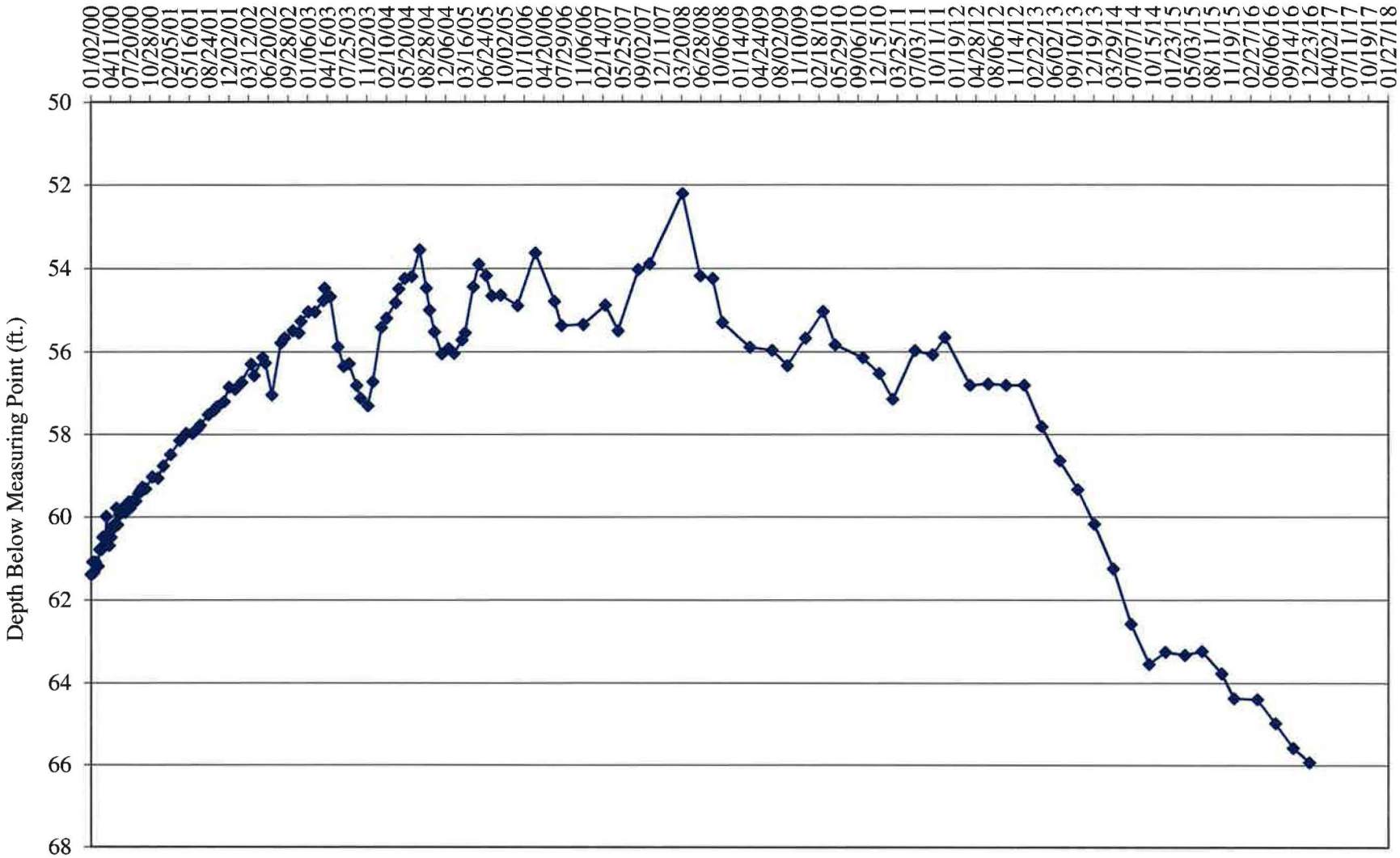
Water Levels and Data over Time
White Mesa Mill - Well TW4-5

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	
5,574.77				12/21/16	65.93	63.98	

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	

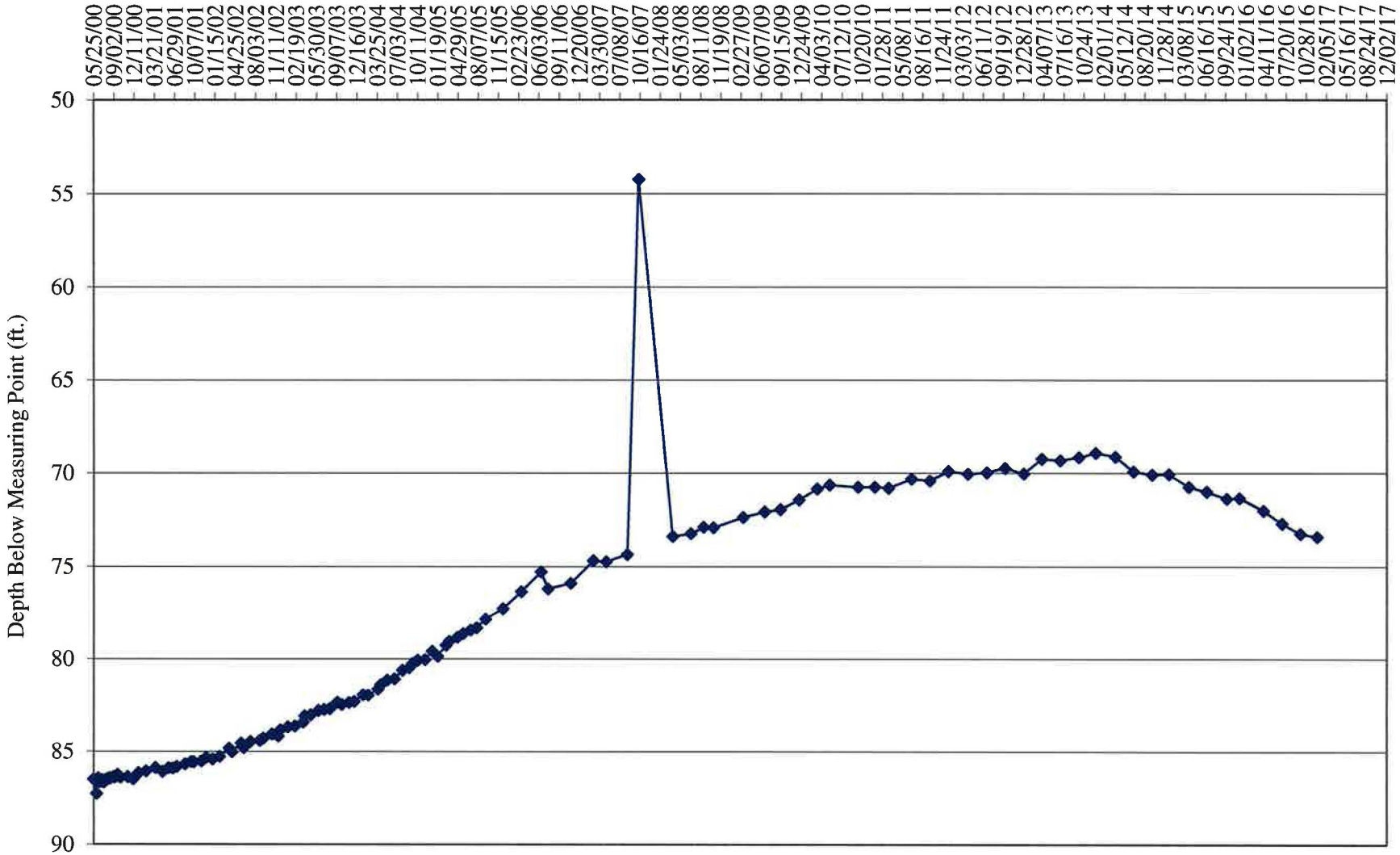
Water Levels and Data over Time
White Mesa Mill - Well TW4-6

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	
5,535.38				12/21/16	73.40	71.95	

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	

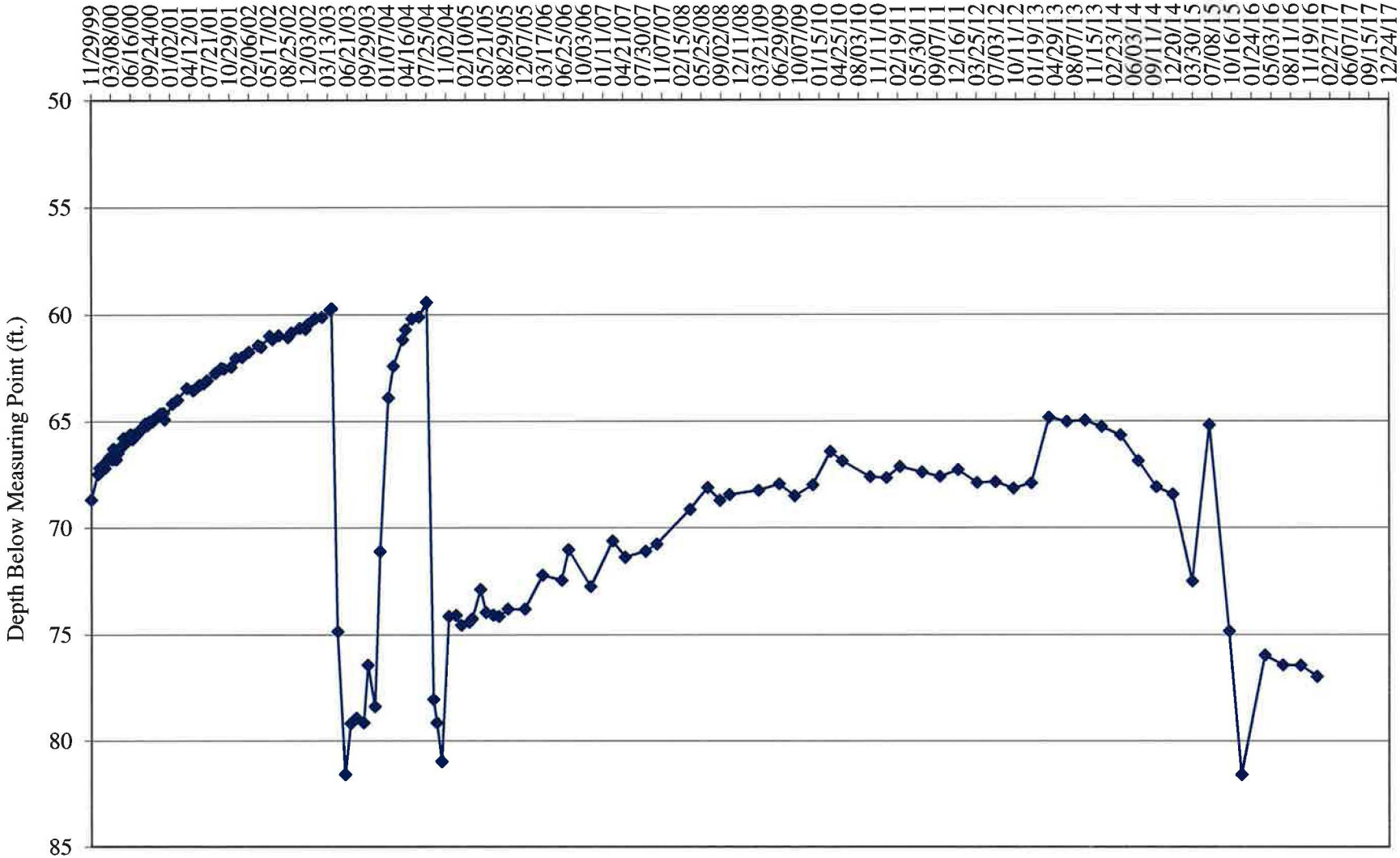
Water Levels and Data over Time
White Mesa Mill - Well TW4-7

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	
5,544.09				12/21/16	76.98	75.78	

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	

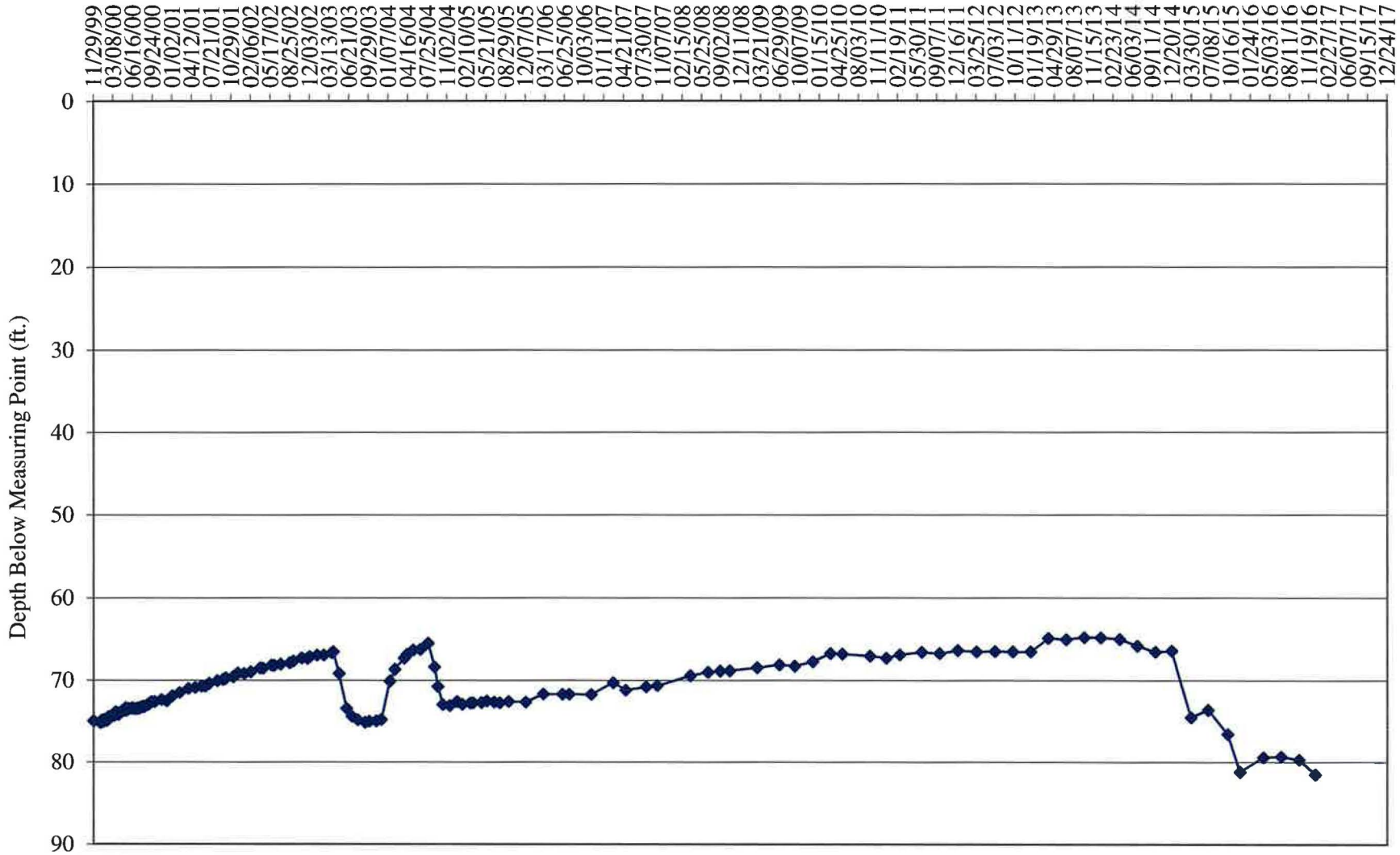
Water Levels and Data over Time
White Mesa Mill - Well TW4-8

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	
5,539.90				12/21/16	81.50	76.90	

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	

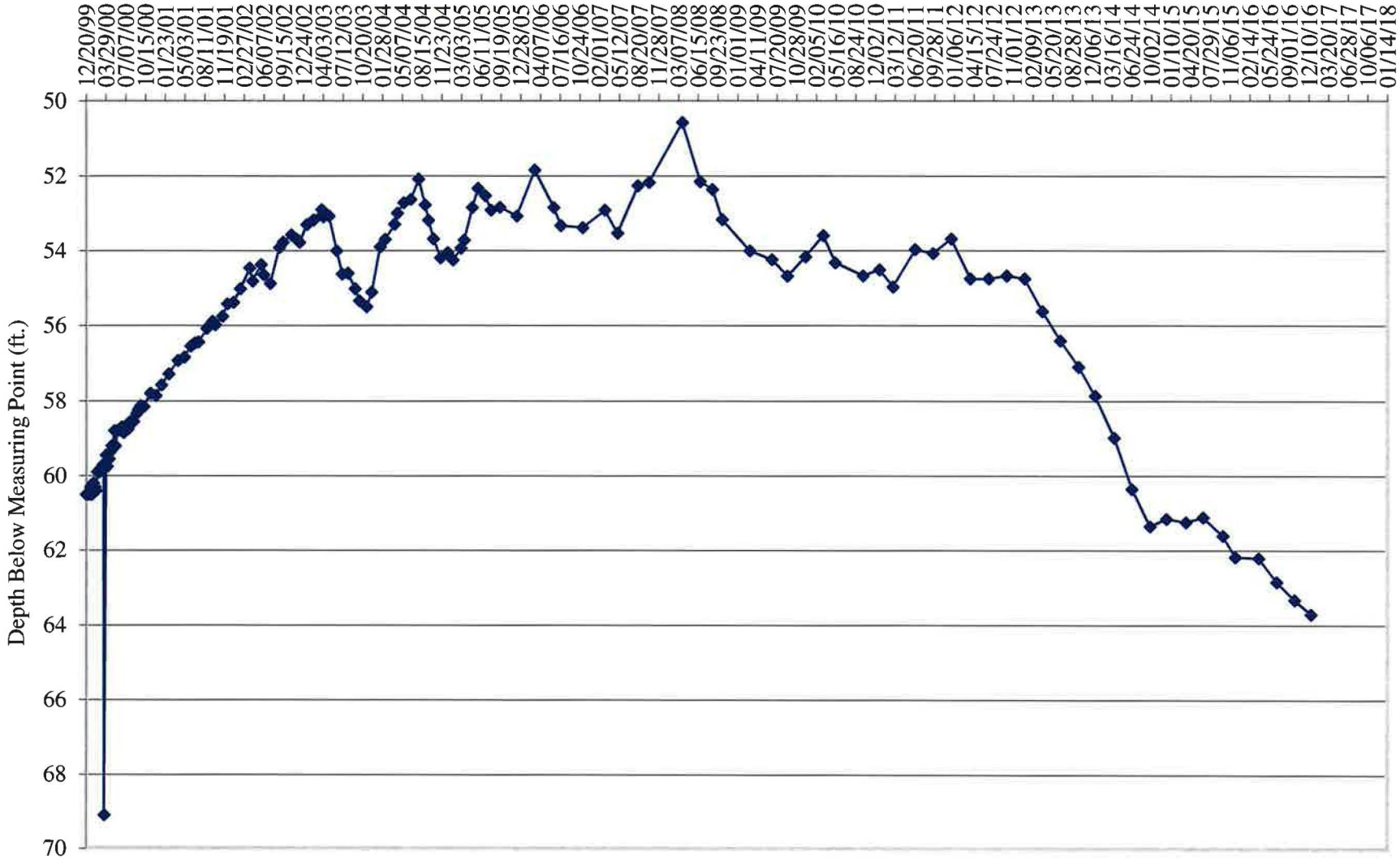
Water Levels and Data over Time
White Mesa Mill - Well TW4-9

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	
5,573.88				12/21/16	63.71	62.23	

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	

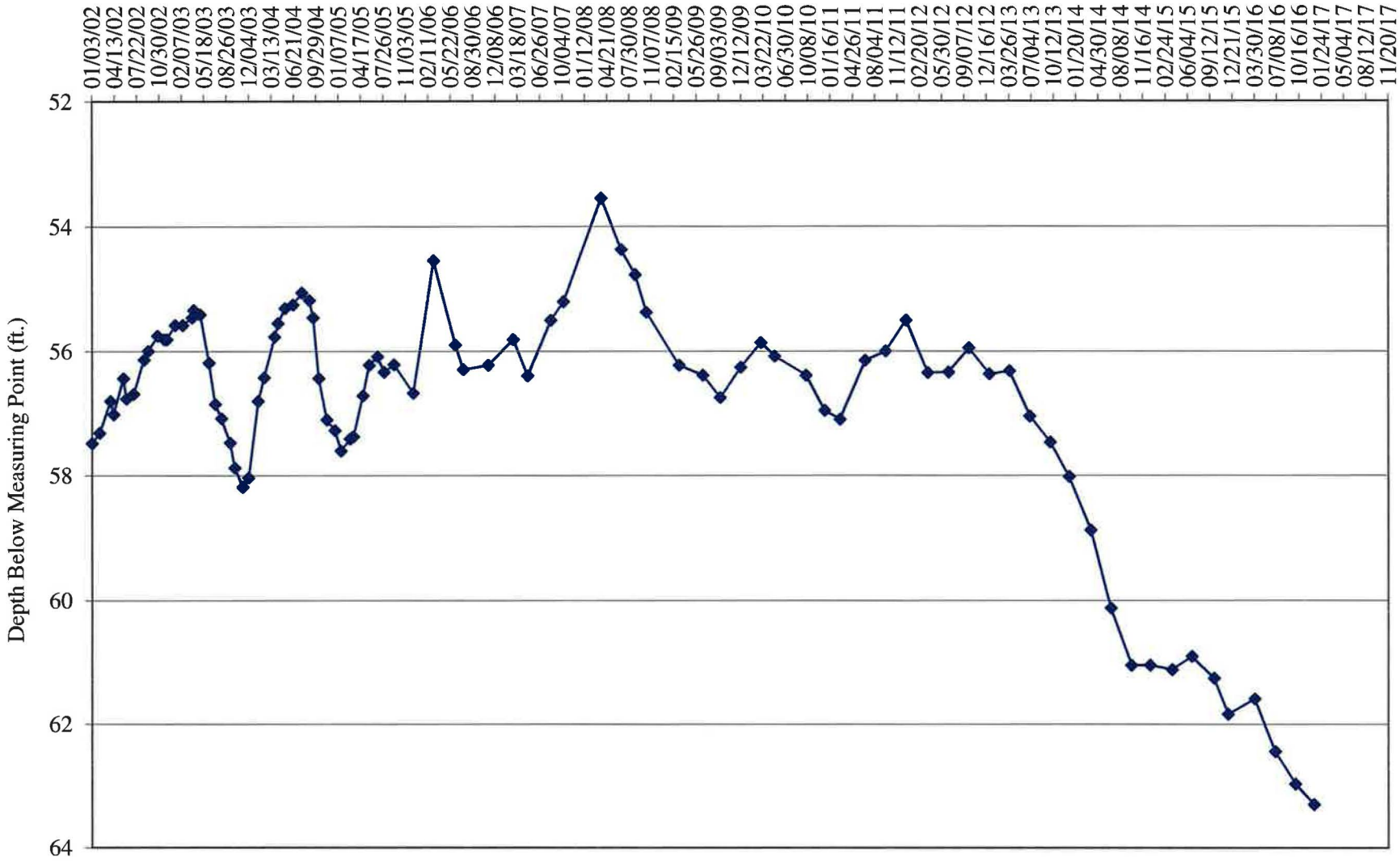
Water Levels and Data over Time
White Mesa Mill - Well TW4-10

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	
5,570.94				12/21/16	63.3	61.05	

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	

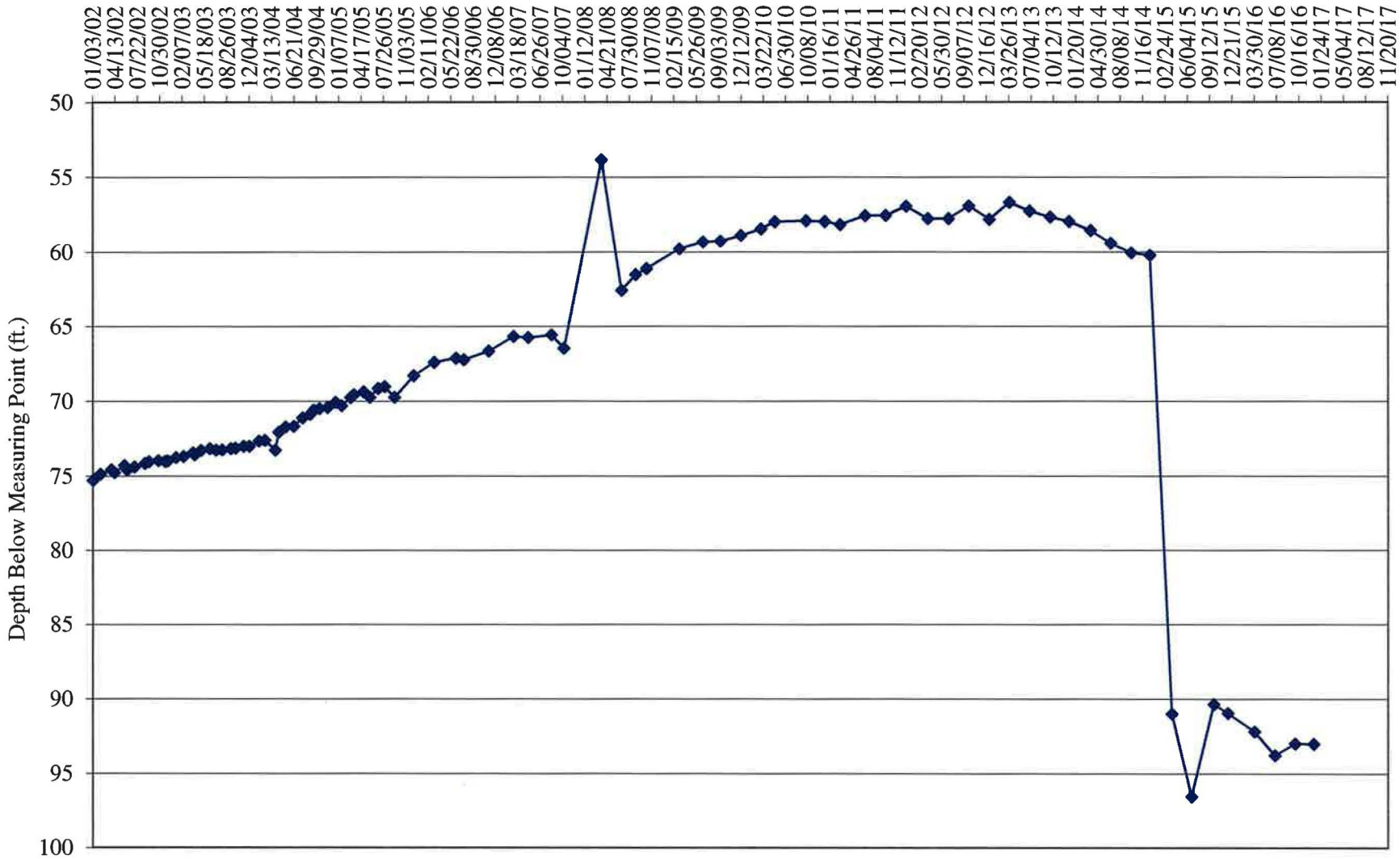
Water Levels and Data over Time
White Mesa Mill - Well TW4-11

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	
5,530.61				12/21/16	93.01	91.31	

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



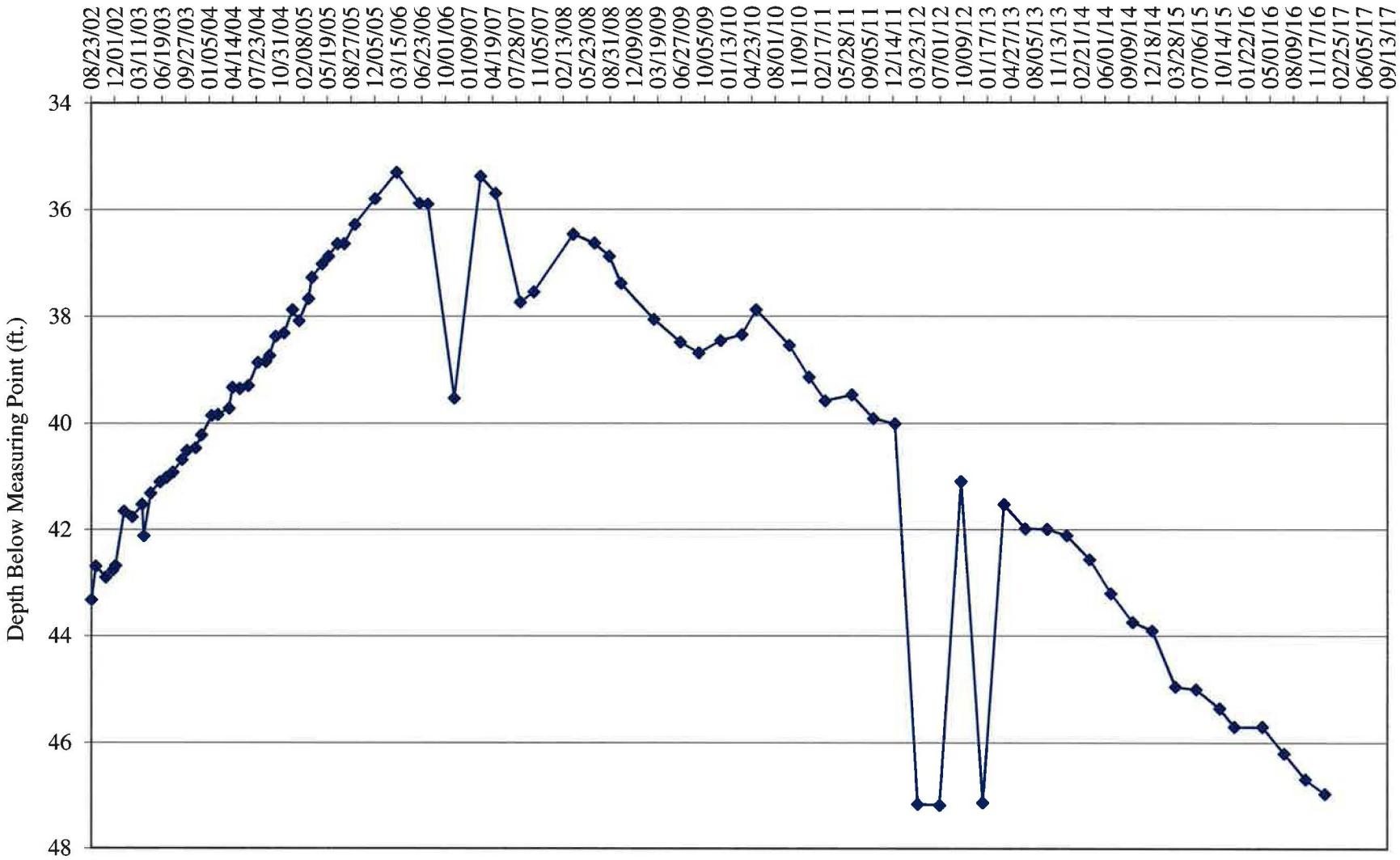
Water Levels and Data over Time
White Mesa Mill - Well TW4-12

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	
5,577.27				12/21/16	46.96	45.11	

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



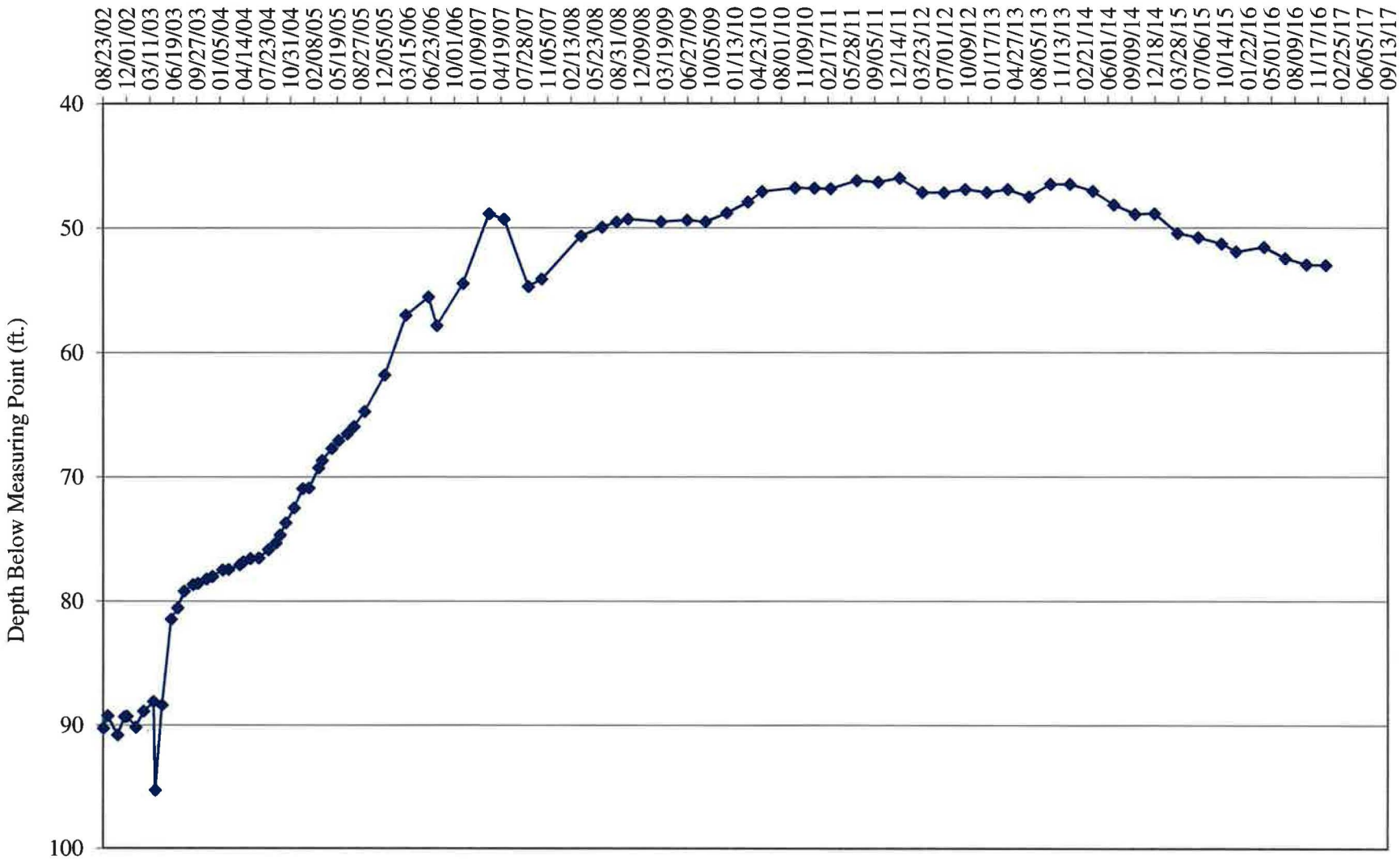
Water Levels and Data over Time
White Mesa Mill - Well TW4-13

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	
5,566.94				12/21/16	53.00	51.15	

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



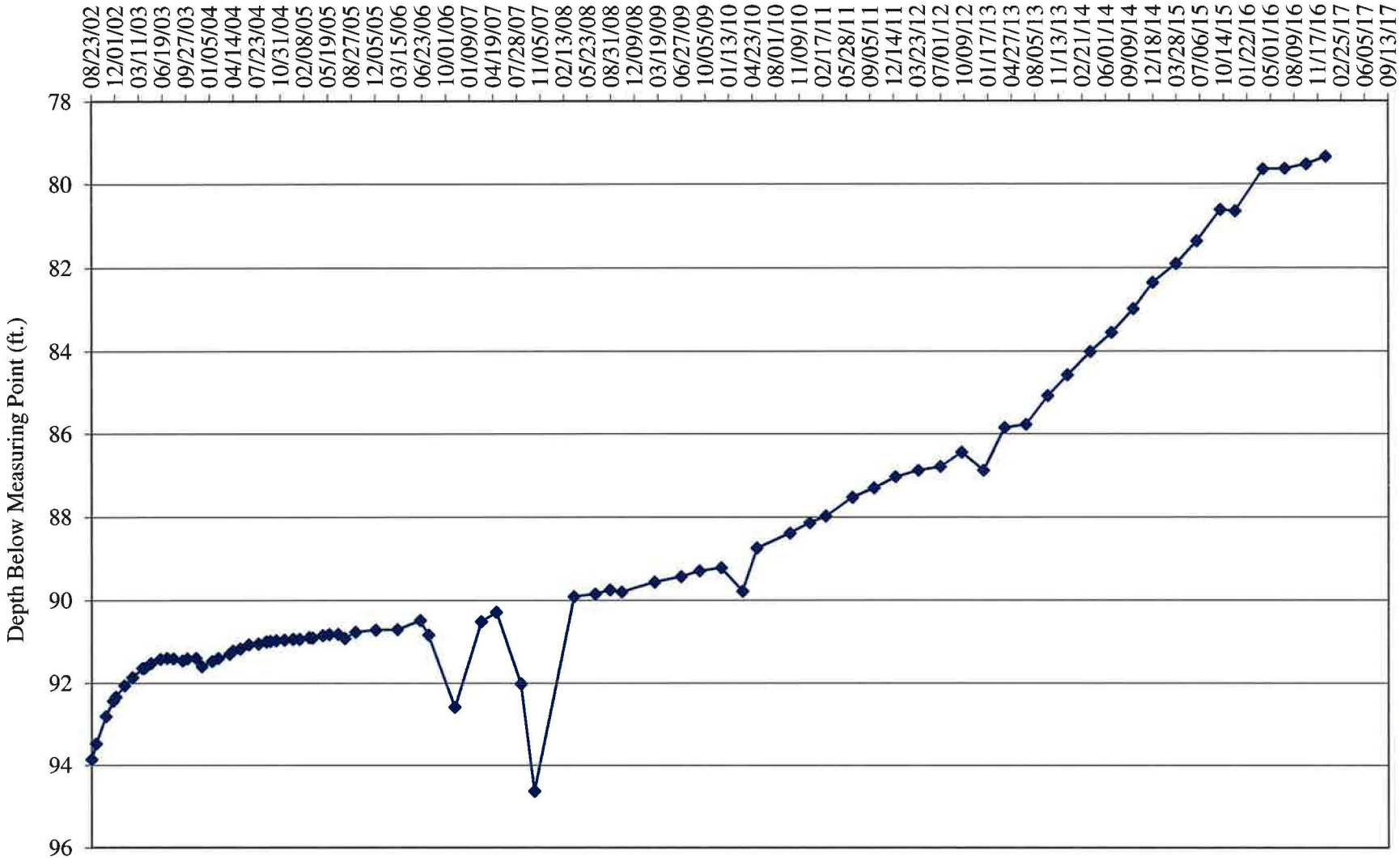
Water Levels and Data over Time
White Mesa Mill - Well TW4-14

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	
5,533.42				12/21/16	79.35	77.50	

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



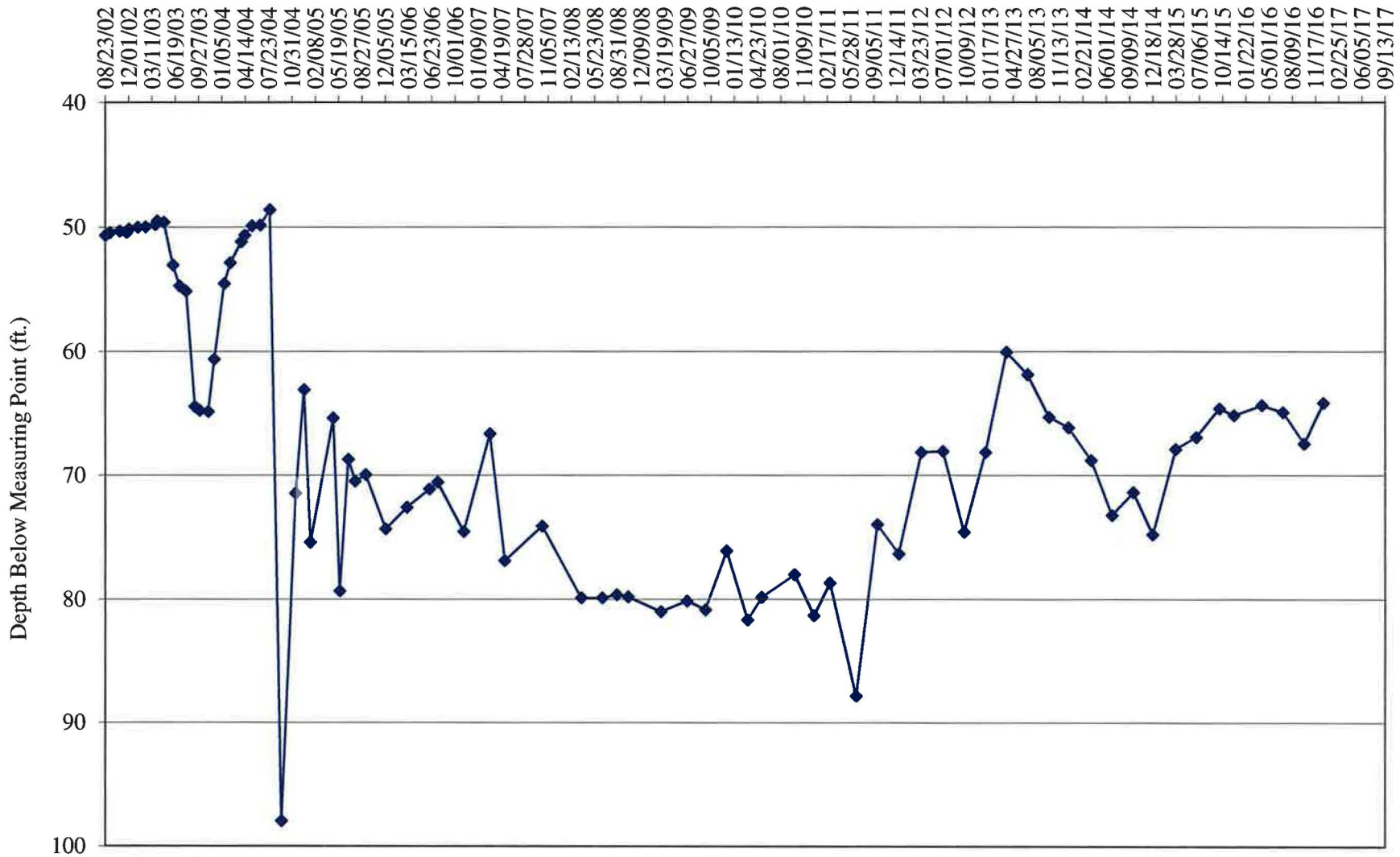
Water Levels and Data over Time
White Mesa Mill - Well MW-26

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	
5,561.26				12/21/16	64.19	62.89	

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



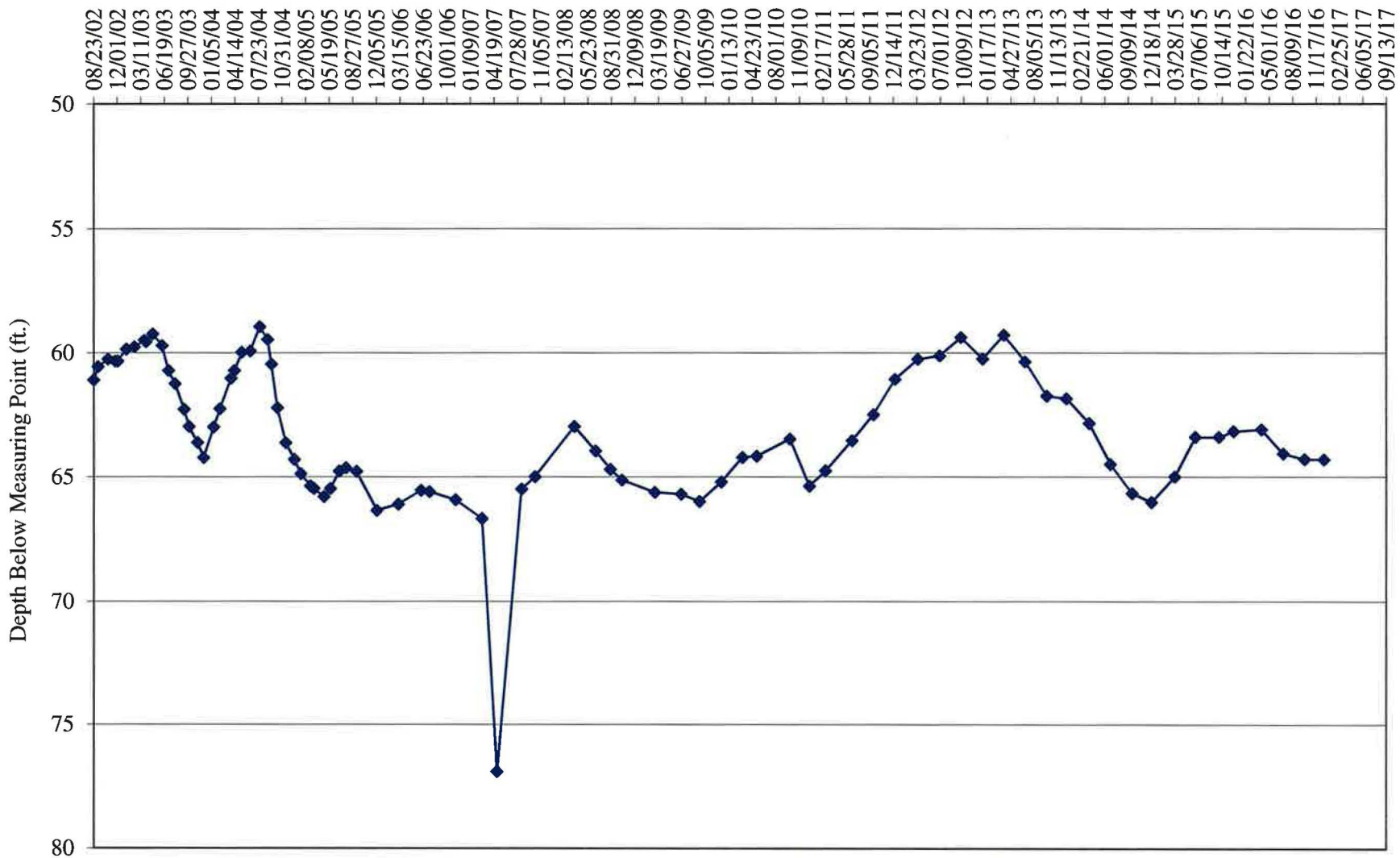
Water Levels and Data over Time
White Mesa Mill - Well TW4-16

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	
5,559.71				12/21/16	64.31	62.48	

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



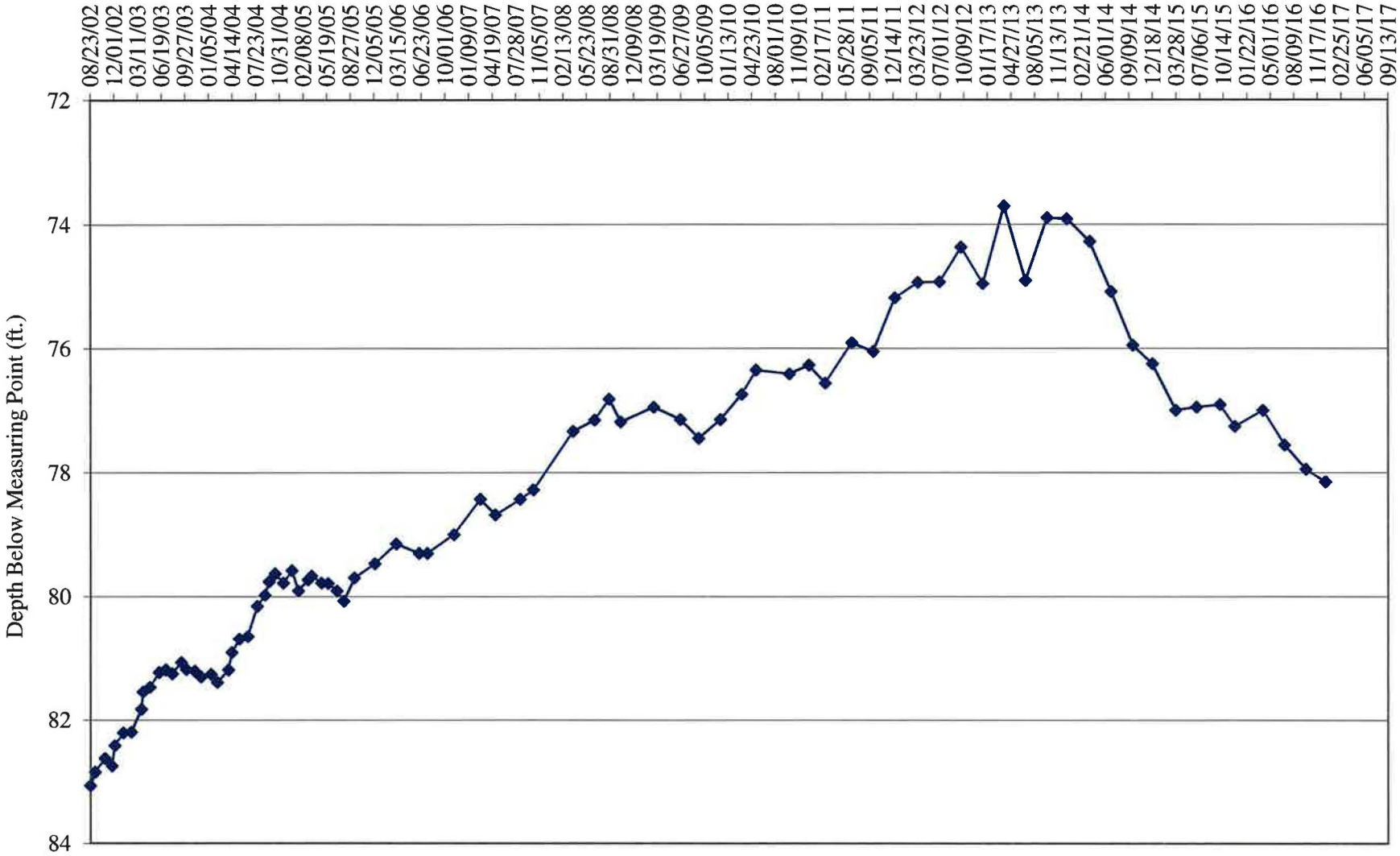
Water Levels and Data over Time
White Mesa Mill - Well MW-32

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	
5,547.09				12/21/16	78.15	76.32	

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



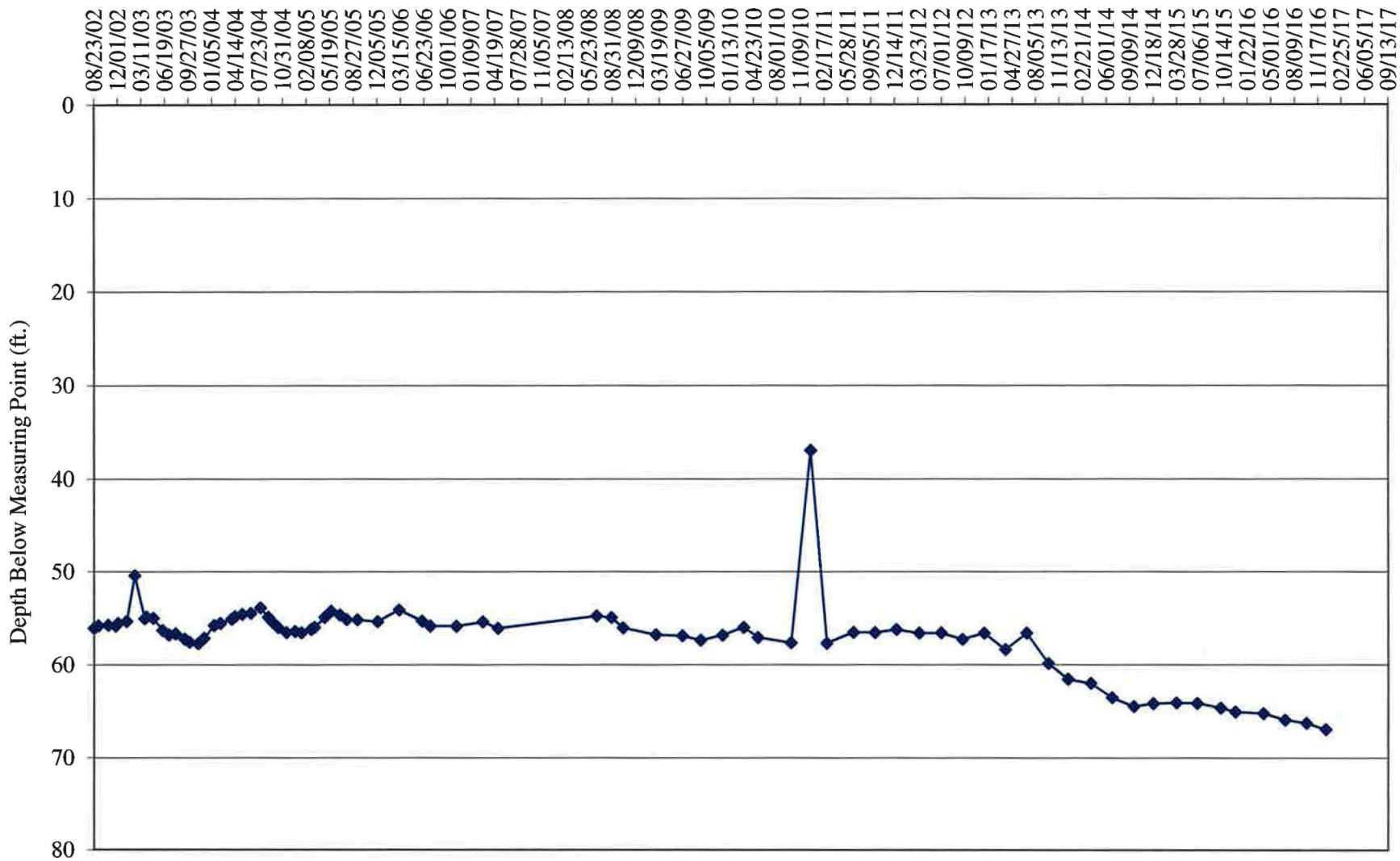
Water Levels and Data over Time
White Mesa Mill - Well TW4-18

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	
5,574.34				12/21/16	66.94	64.79	

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



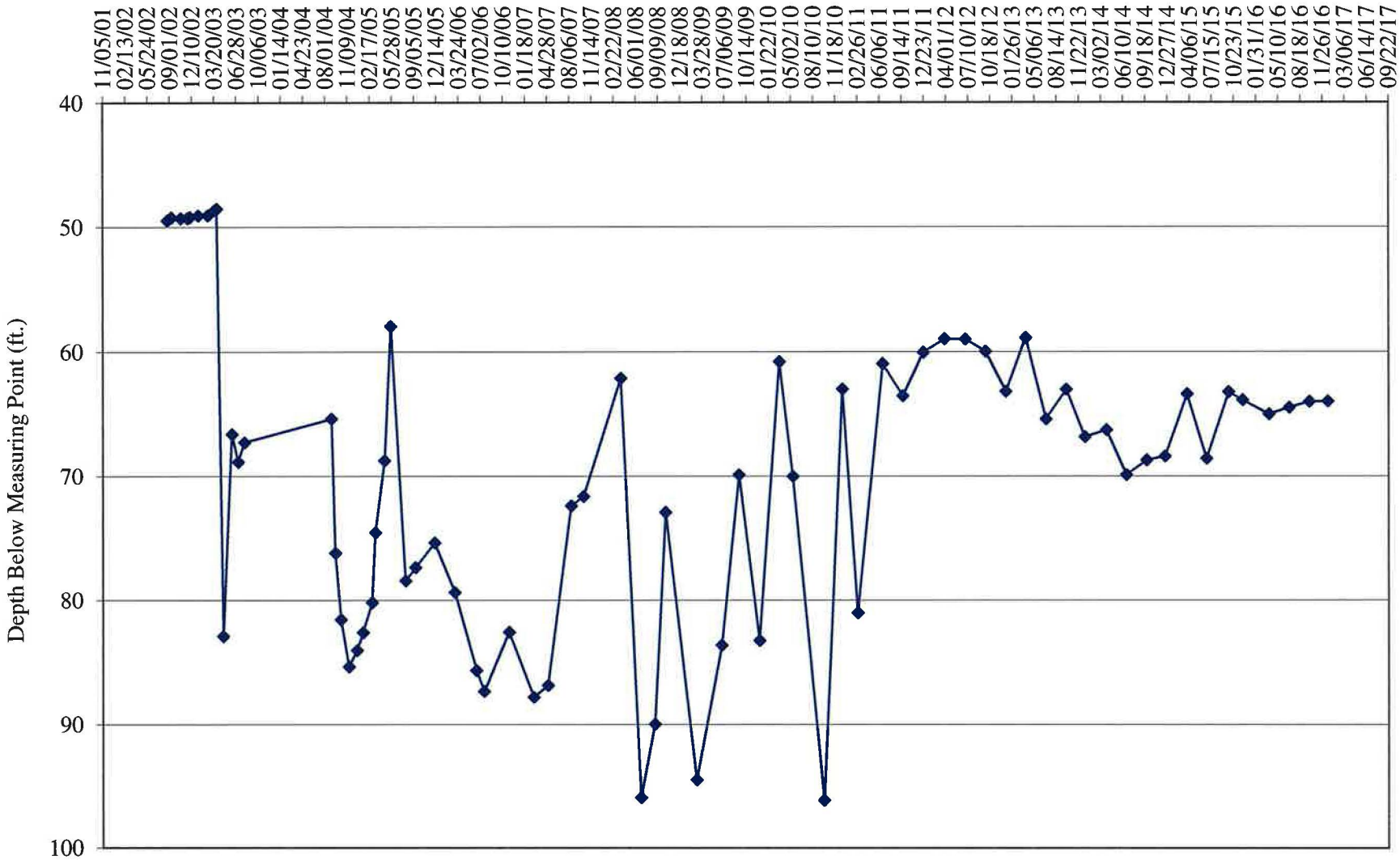
Water Levels and Data over Time
White Mesa Mill - Well TW4-19

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	
5,567.41				12/21/16	63.98	62.12	

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



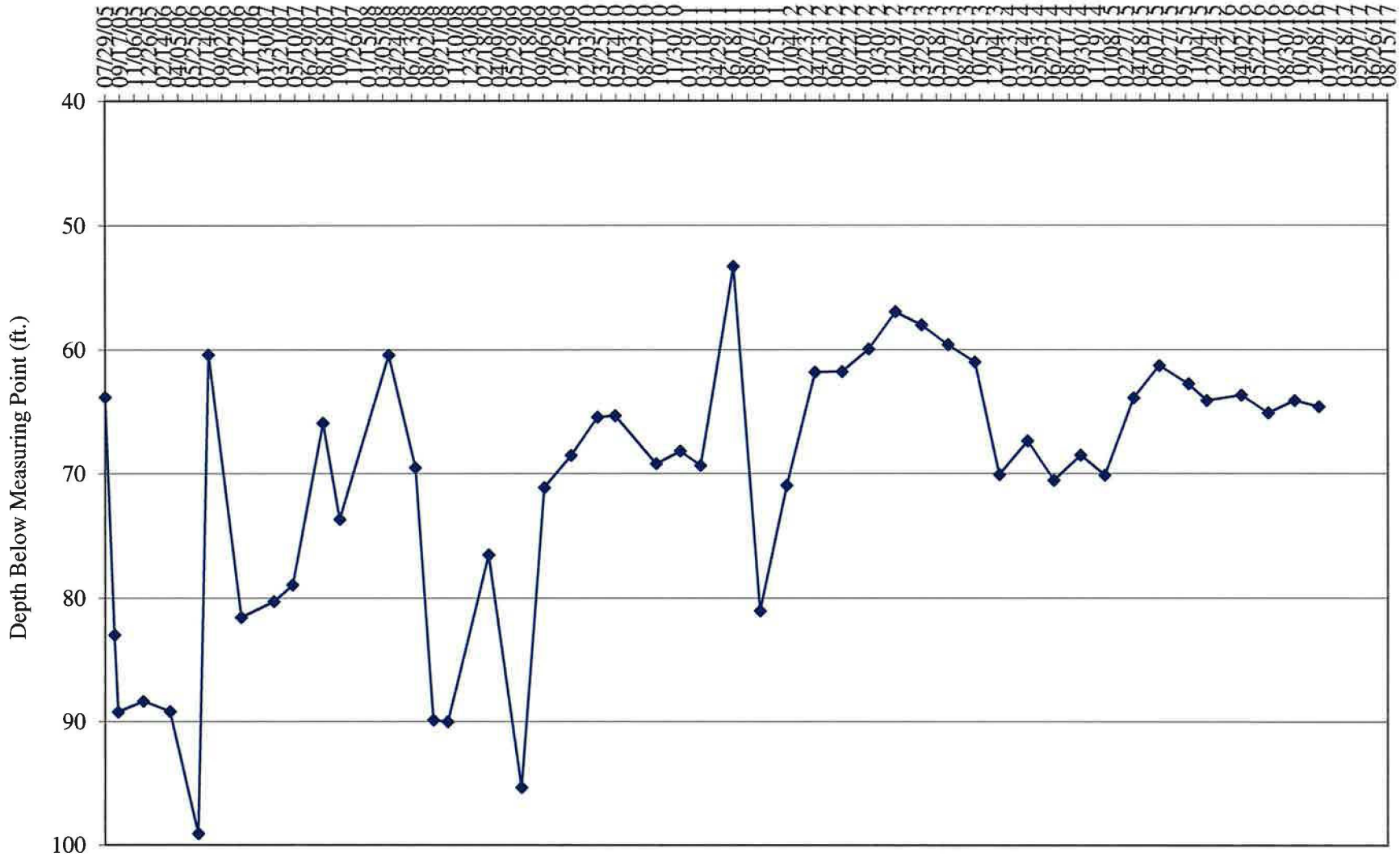
Water Levels and Data over Time
White Mesa Mill - Well TW4-20

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	
5,564.93				12/21/16	64.60	63.59	

TW4-20 Water Depth Over Time (ft. blmp)



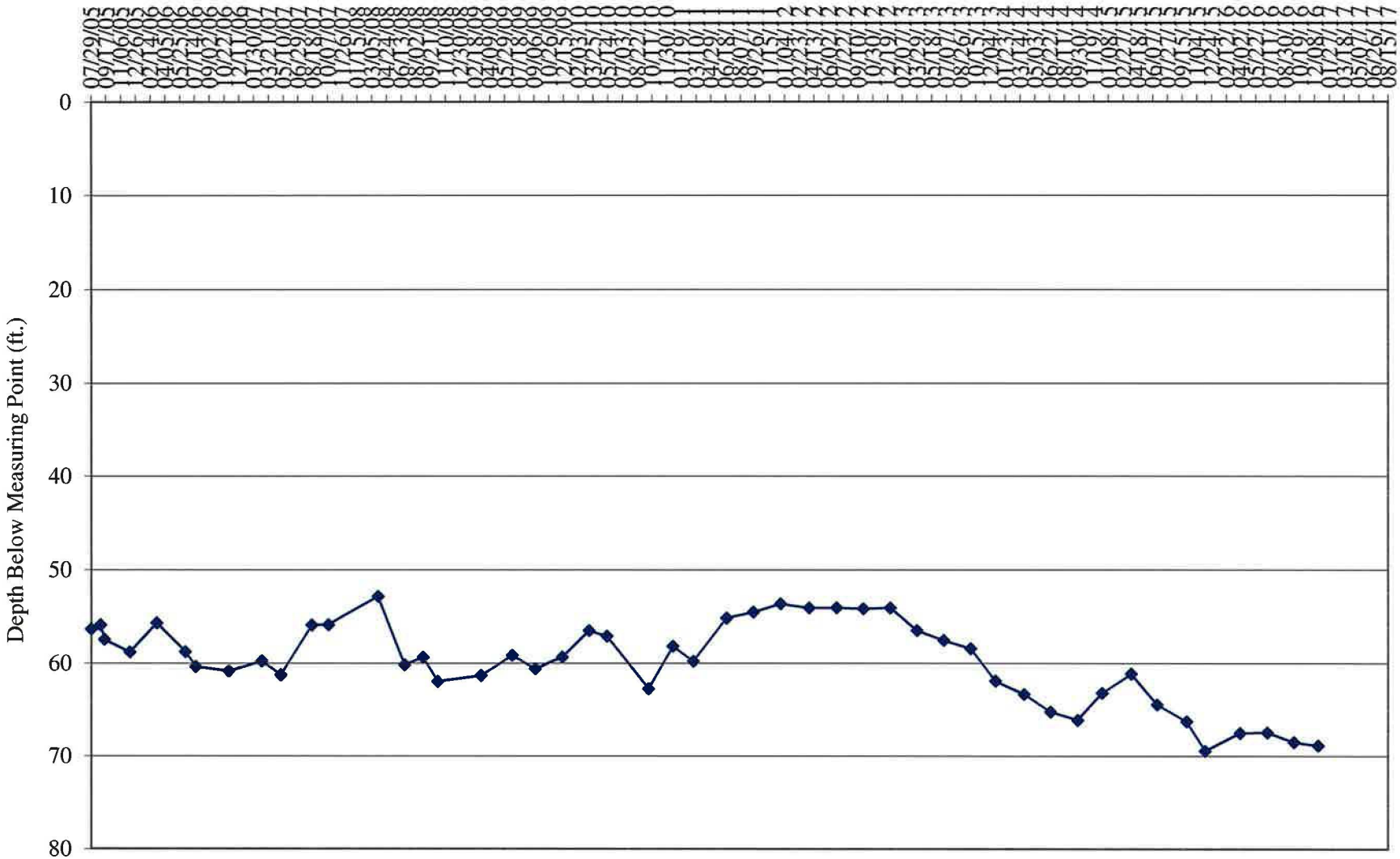
Water Levels and Data over Time
White Mesa Mill - Well TW4-21

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	
5,570.45				12/21/16	68.90	67.75	

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



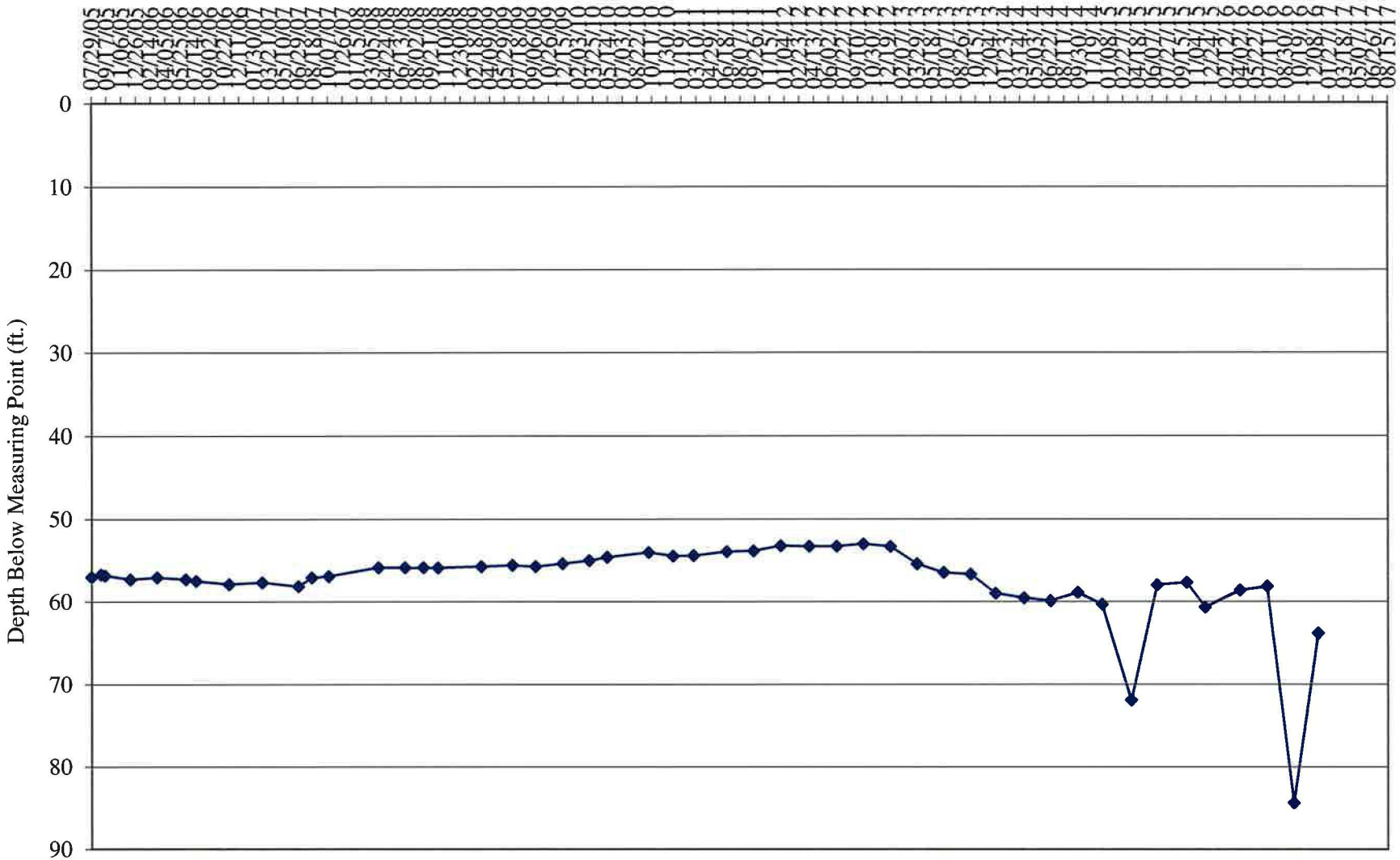
Water Levels and Data over Time
White Mesa Mill - Well TW4-22

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	
5,565.11				12/21/16	63.89	62.72	

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



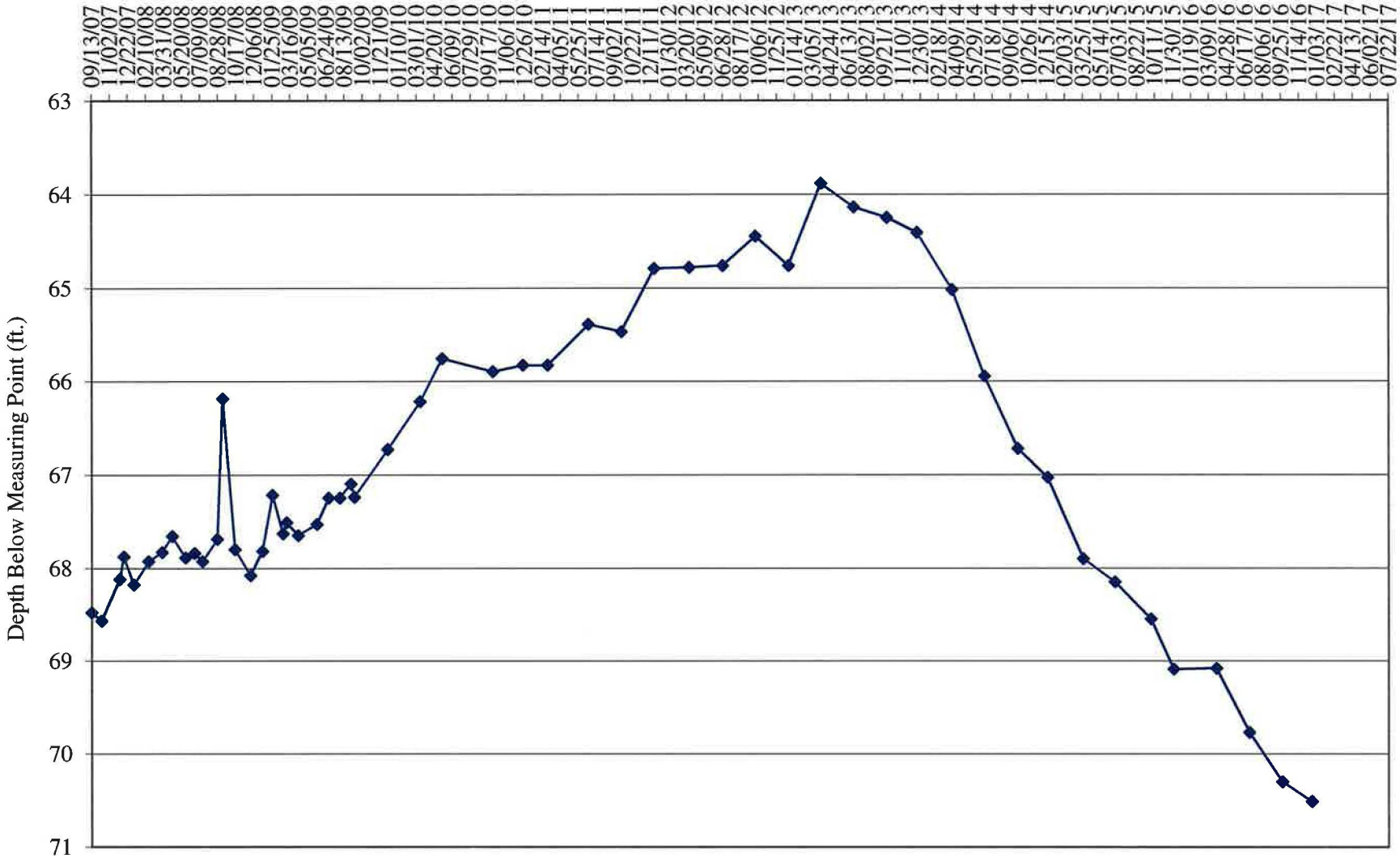
Water Levels and Data over Time
White Mesa Mill - Well TW4-23

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	
5,536.86				12/21/16	70.51	68.91	

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



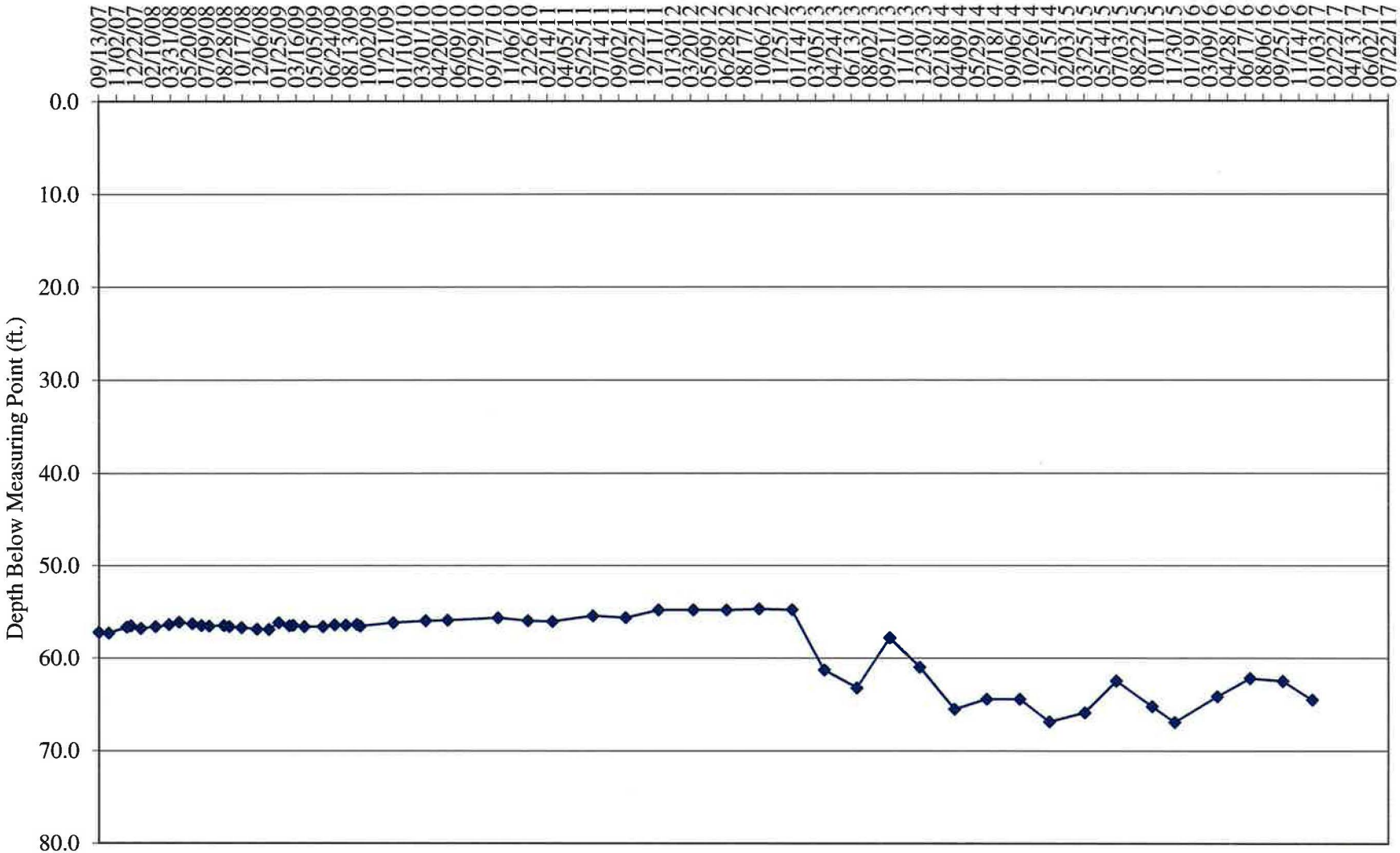
Water Levels and Data over Time
White Mesa Mill - Well TW4-24

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	
5,563.33				12/21/16	64.50	62.37	

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



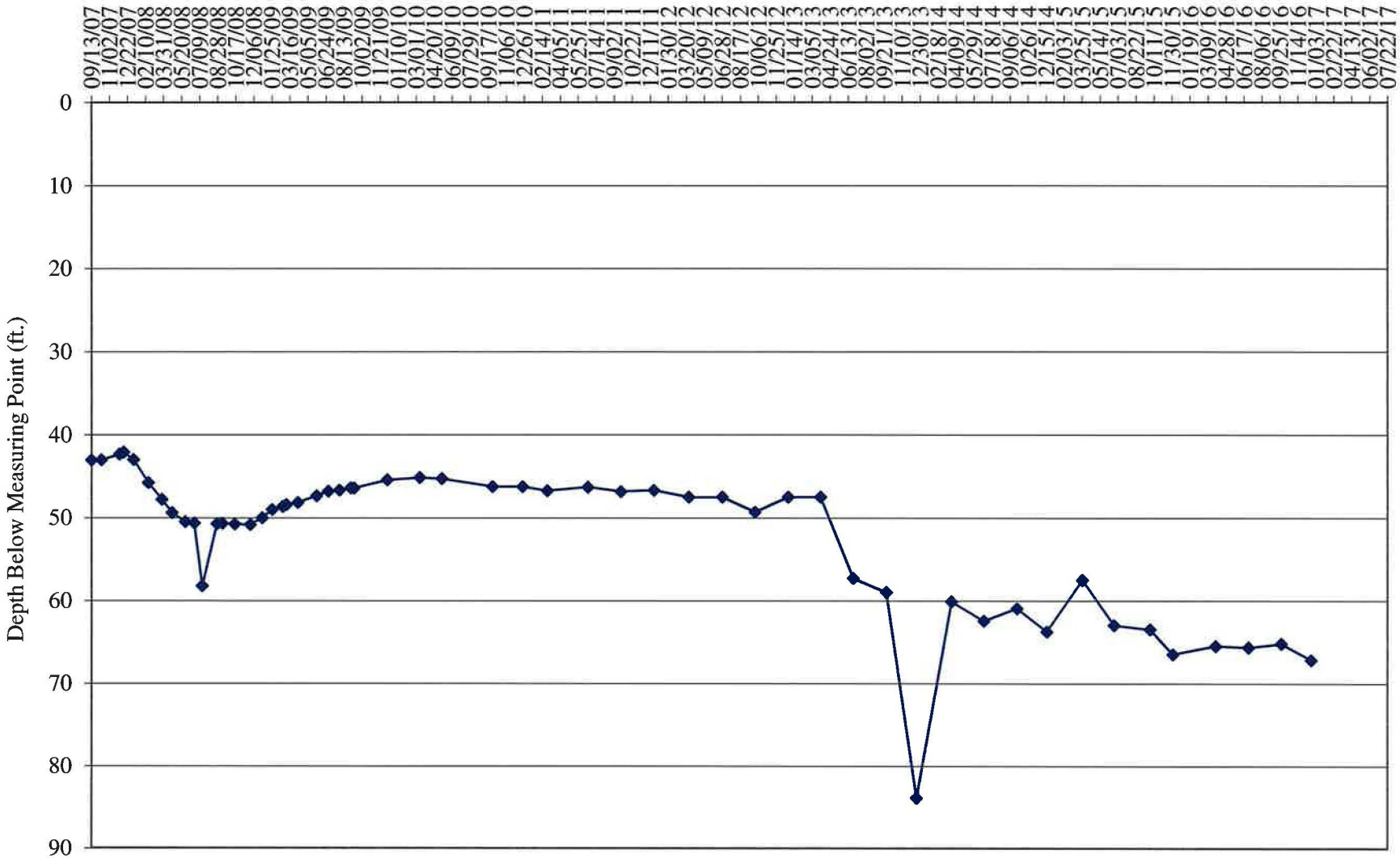
Water Levels and Data over Time
White Mesa Mill - Well TW4-25

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

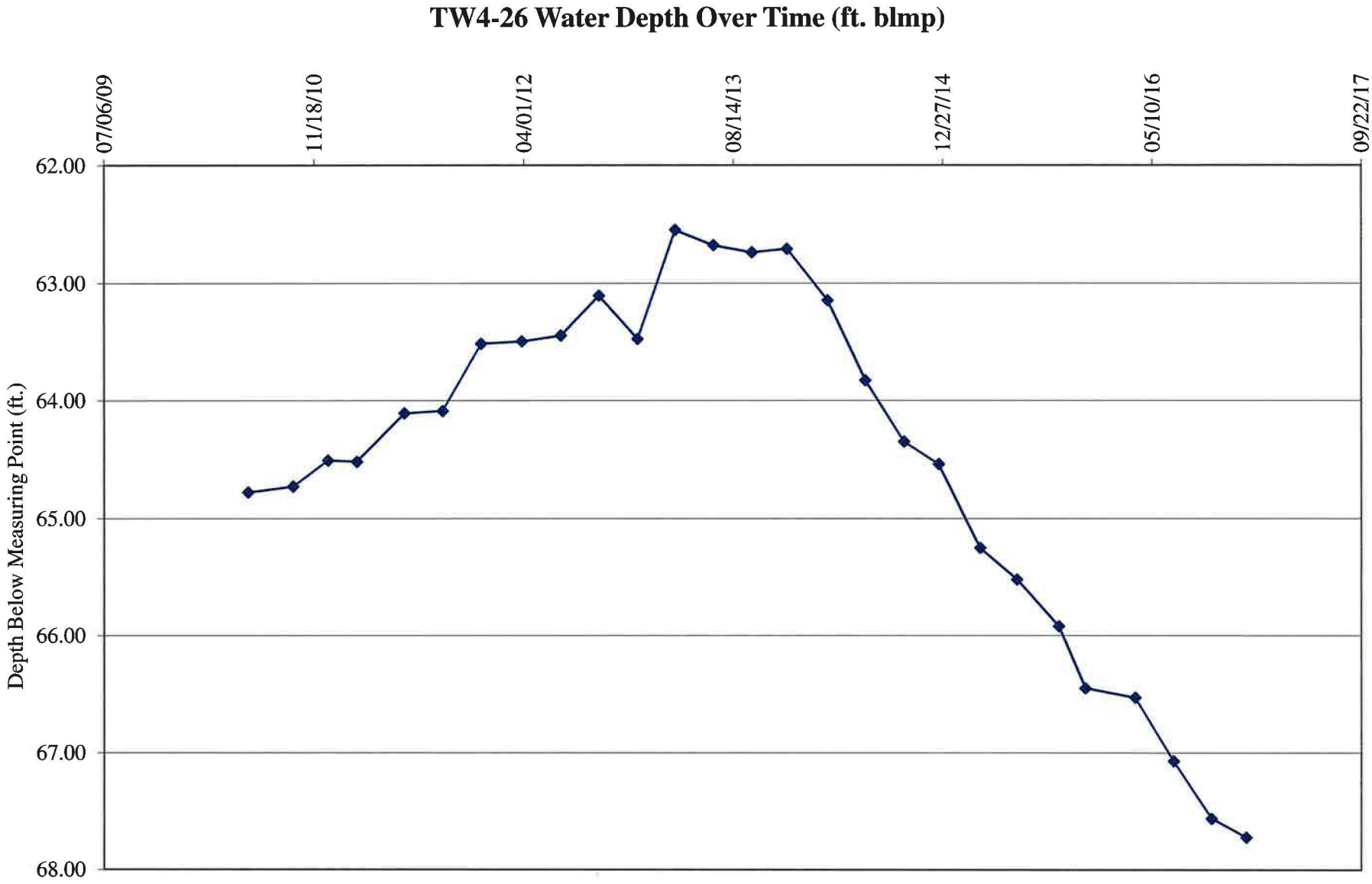
Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,627.83	5,644.91	17.08				134.8
5,584.79				03/27/14	60.12	43.04	
5,582.44				06/25/14	62.47	45.39	
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	
5,577.73				12/21/16	67.18	50.10	

TW4-25 Water Depth Over Time (ft. blmp)



Water Levels and Data over Time
White Mesa Mill - Well TW4-26

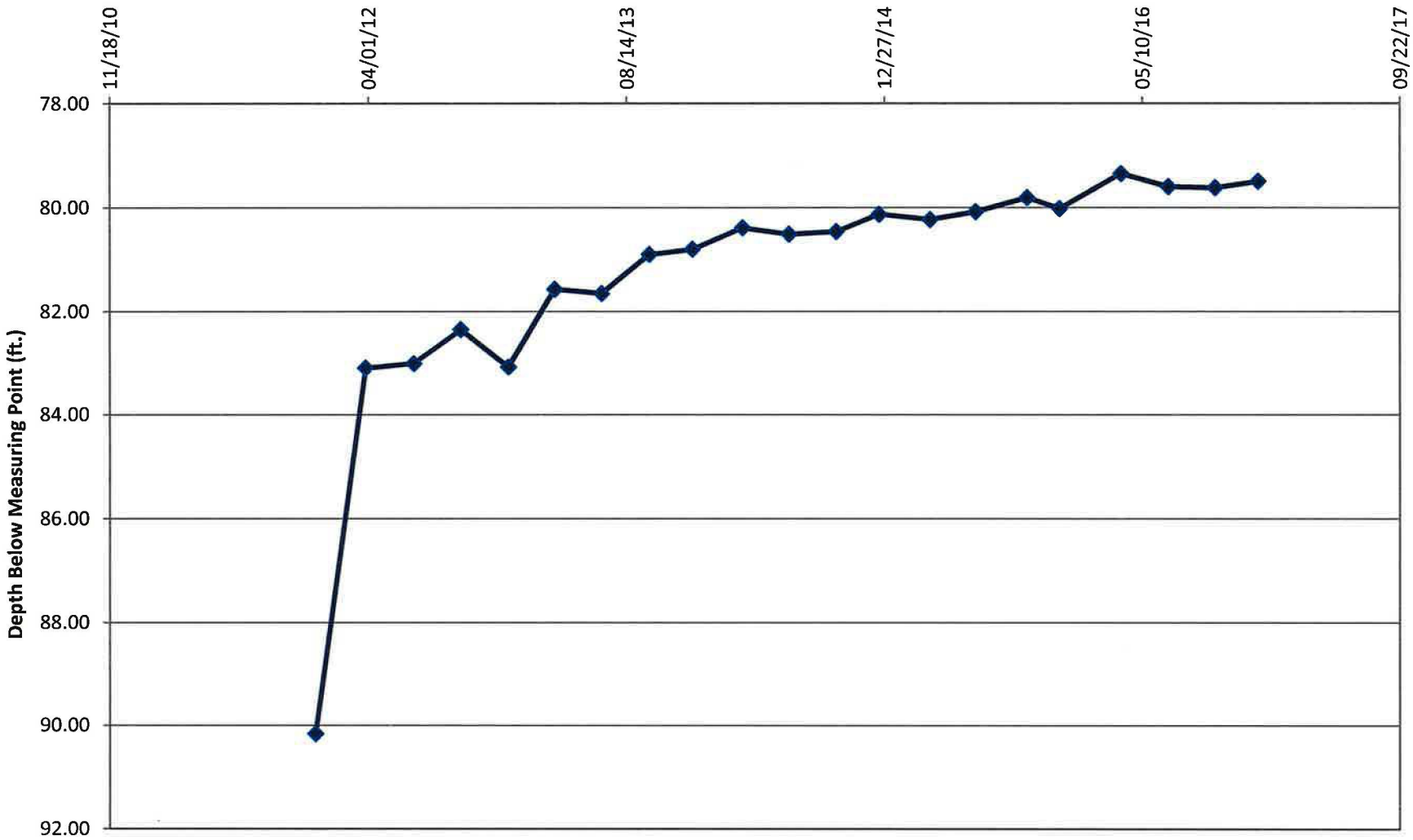
Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,599.98	5,601.68	1.70				86
5,536.90				06/14/10	64.78	63.08	
5,536.95				09/29/10	64.73	63.03	
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	
5,533.96				12/21/16	67.72	66.02	


TW4-26 Water Depth Over Time (ft. blmp)
07/06/09
11/18/10
04/01/12
08/14/13
12/27/14
05/10/16
09/22/17
62.00
63.00
64.00
65.00
66.00
67.00
68.00
Depth Below Measuring Point (ft.)

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	
5,528.44				12/21/16	79.50	77.75	

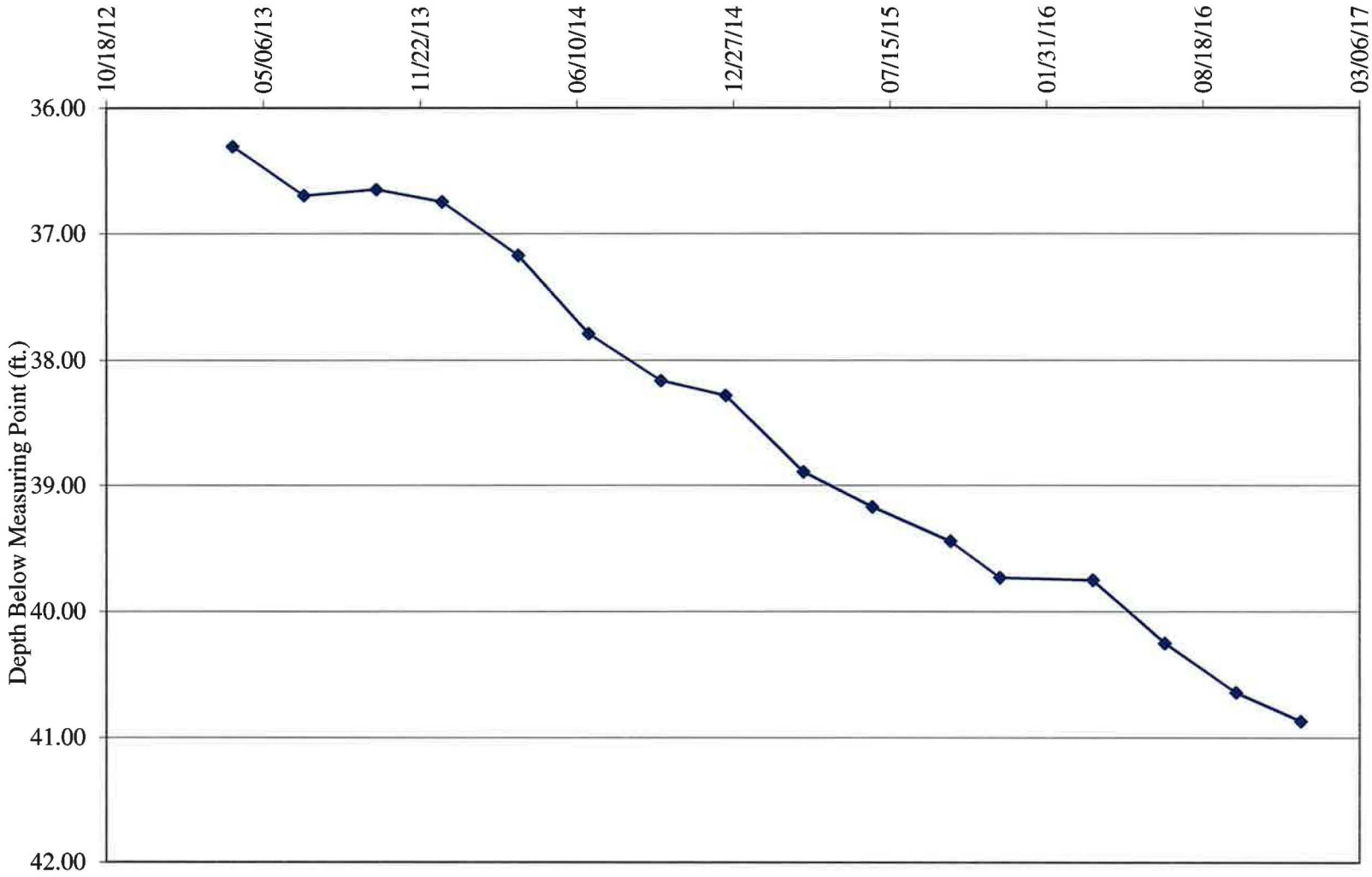
TW4-27 Water Depth Over Time (ft. blmp)



Water Levels and Data over Time
White Mesa Mill - Well TW4-28

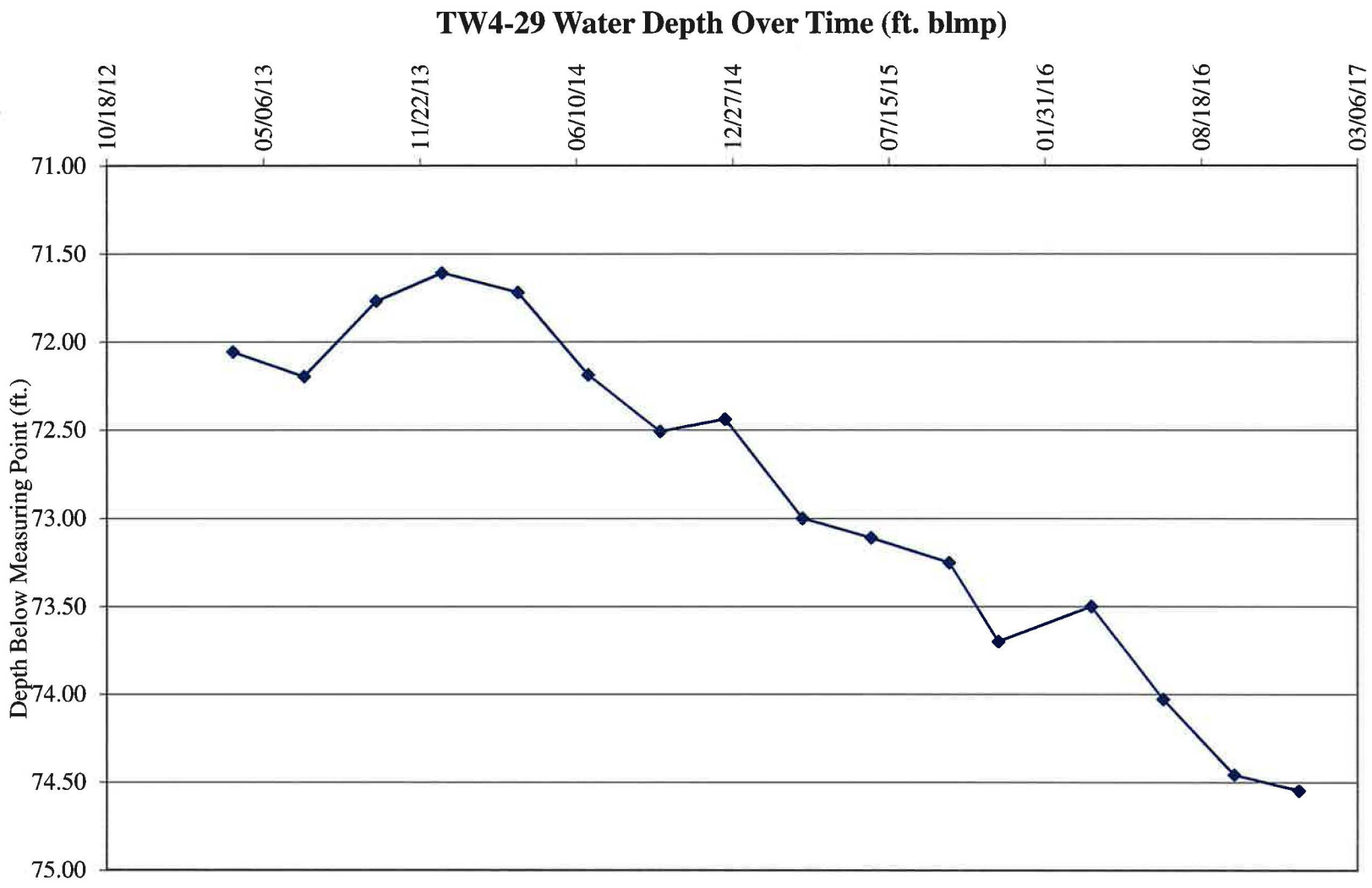
Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,613.52	5,617.00	3.48				105
5,580.69				03/28/13	36.31	32.83	
5,580.30				06/27/13	36.70	33.22	
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	
5,576.13				12/21/16	40.87	37.39	

TW4-28 Water Depth Over Time (ft. blmp)



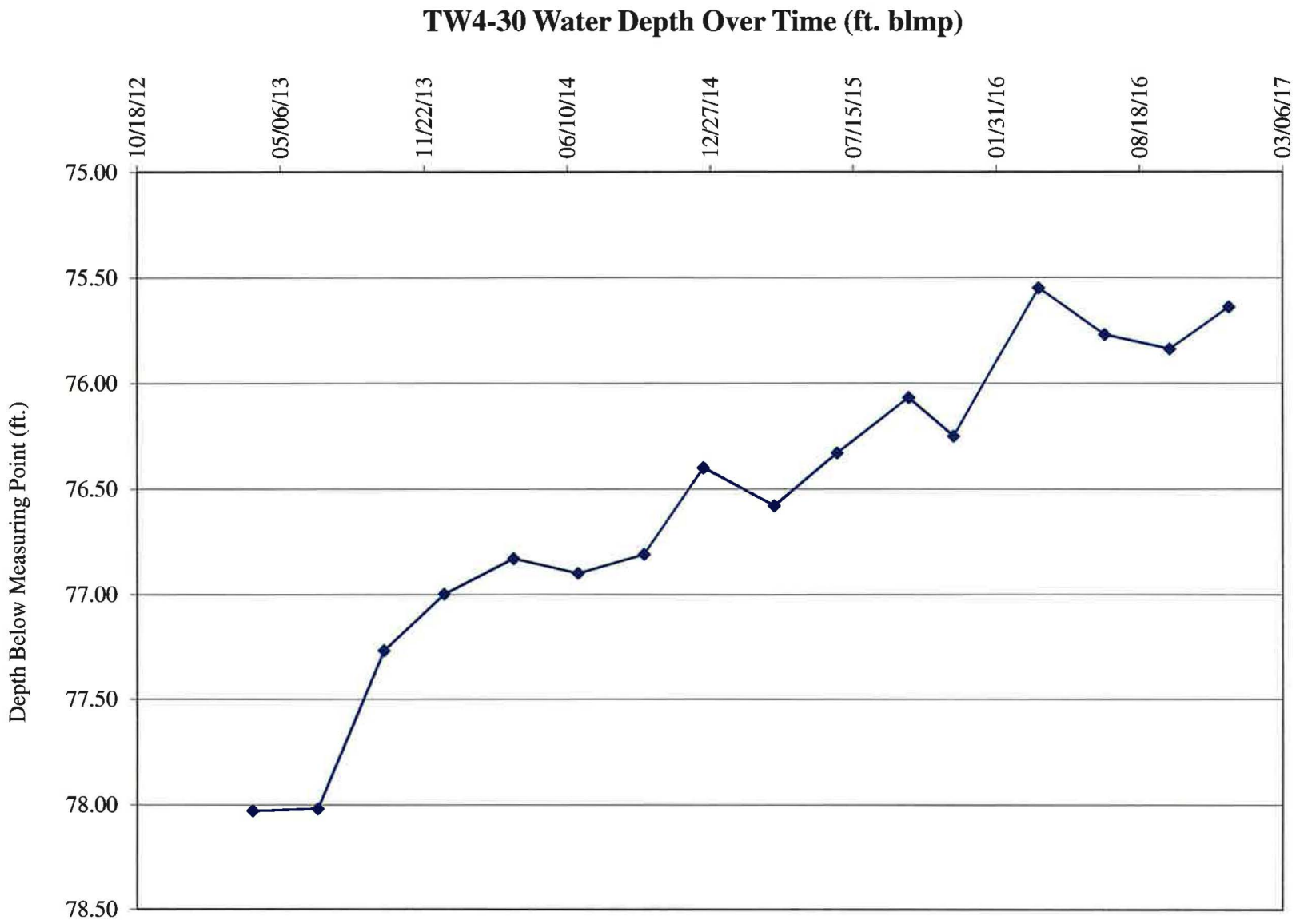
Water Levels and Data over Time
White Mesa Mill - Well TW4-29

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	
5,531.49				12/21/16	74.55	71.07	


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

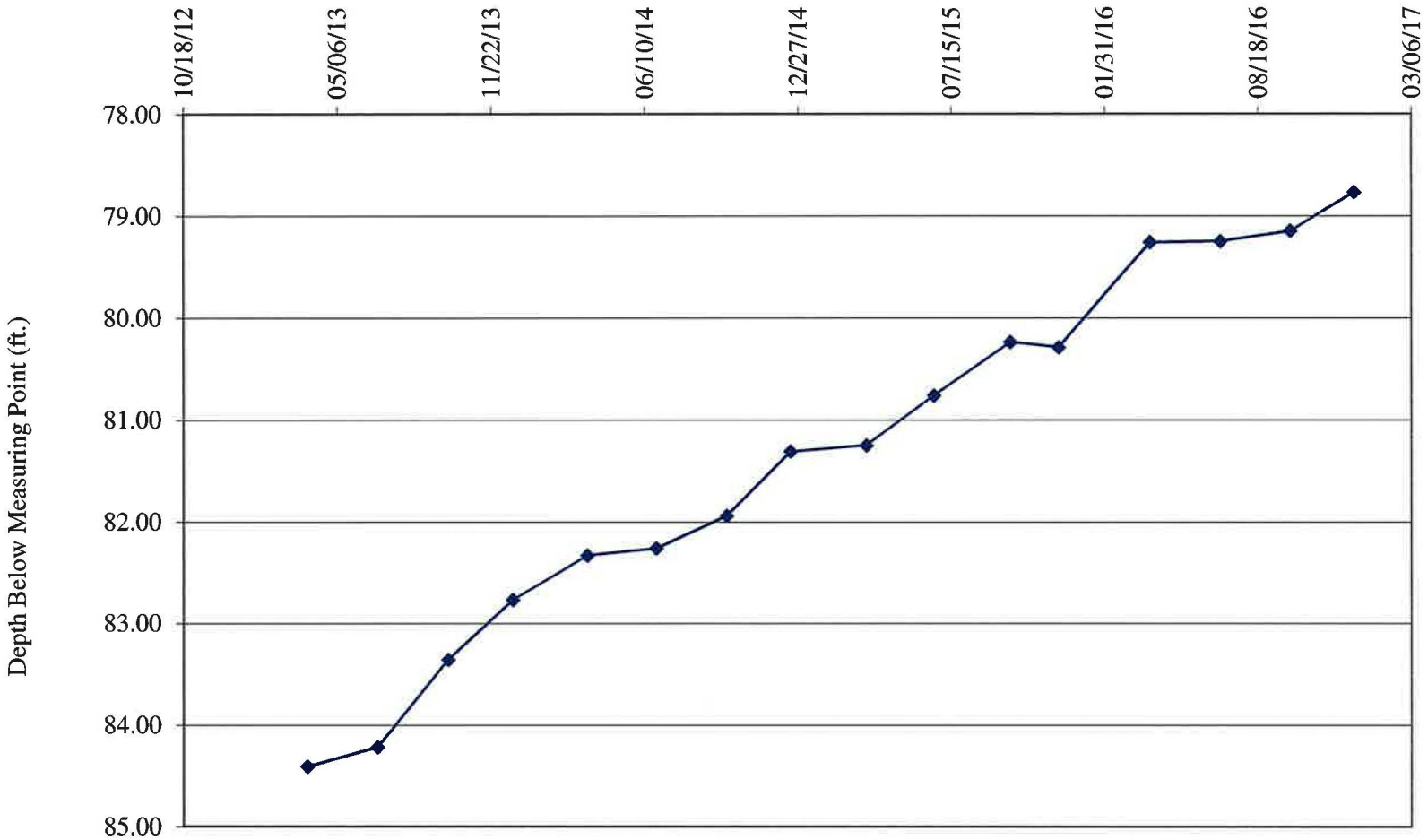
Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,599.33	5,602.81	3.48				105
5,524.78				03/28/13	78.03	74.55	
5,524.79				06/27/13	78.02	74.54	
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	
5,527.17				12/21/16	75.64	72.16	


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	
5,525.81				12/21/16	78.77	75.29	

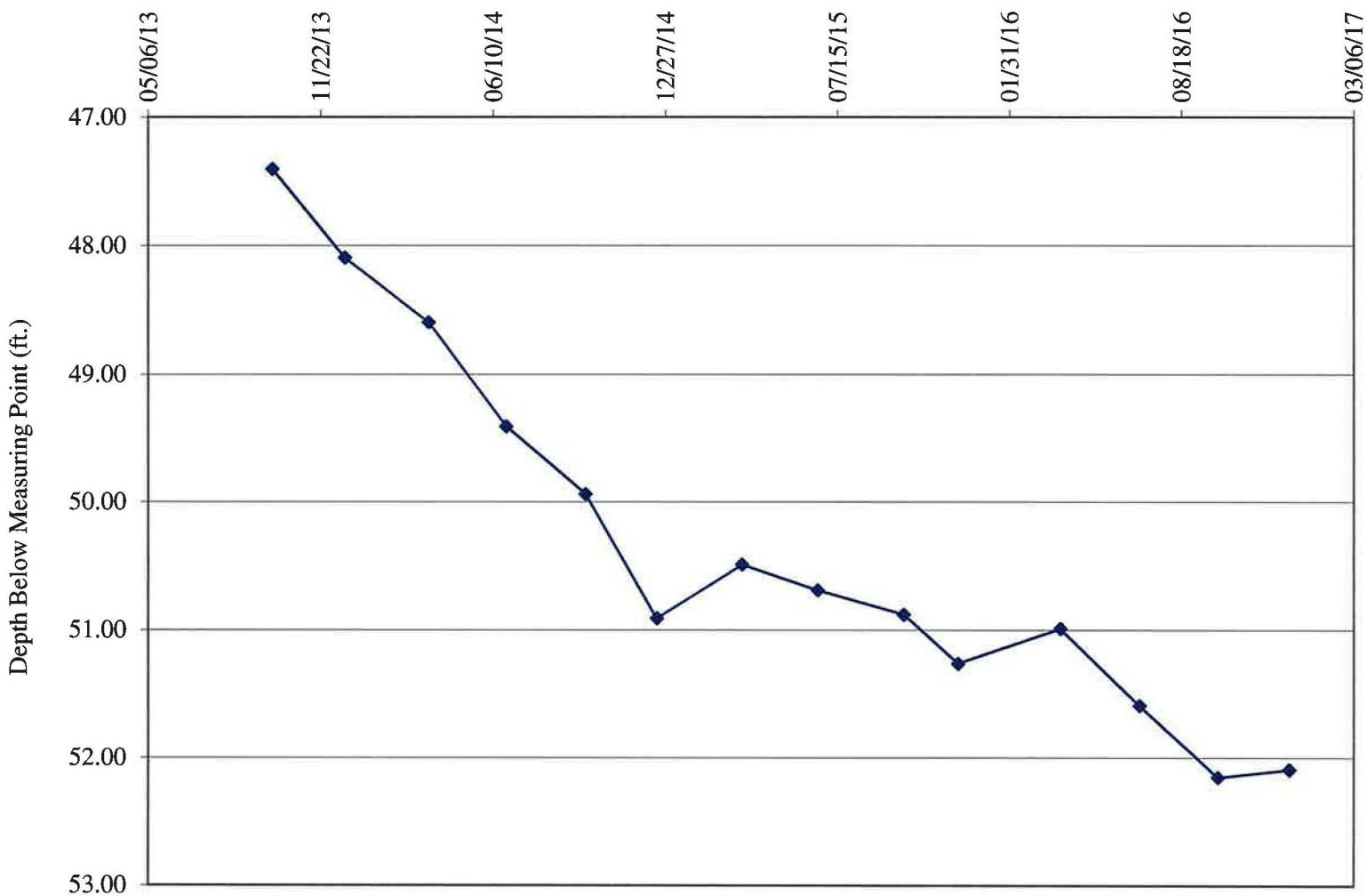
TW4-31 Water Depth Over Time (ft. blmp)



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	
5,559.75				12/21/16	52.09	50.45	

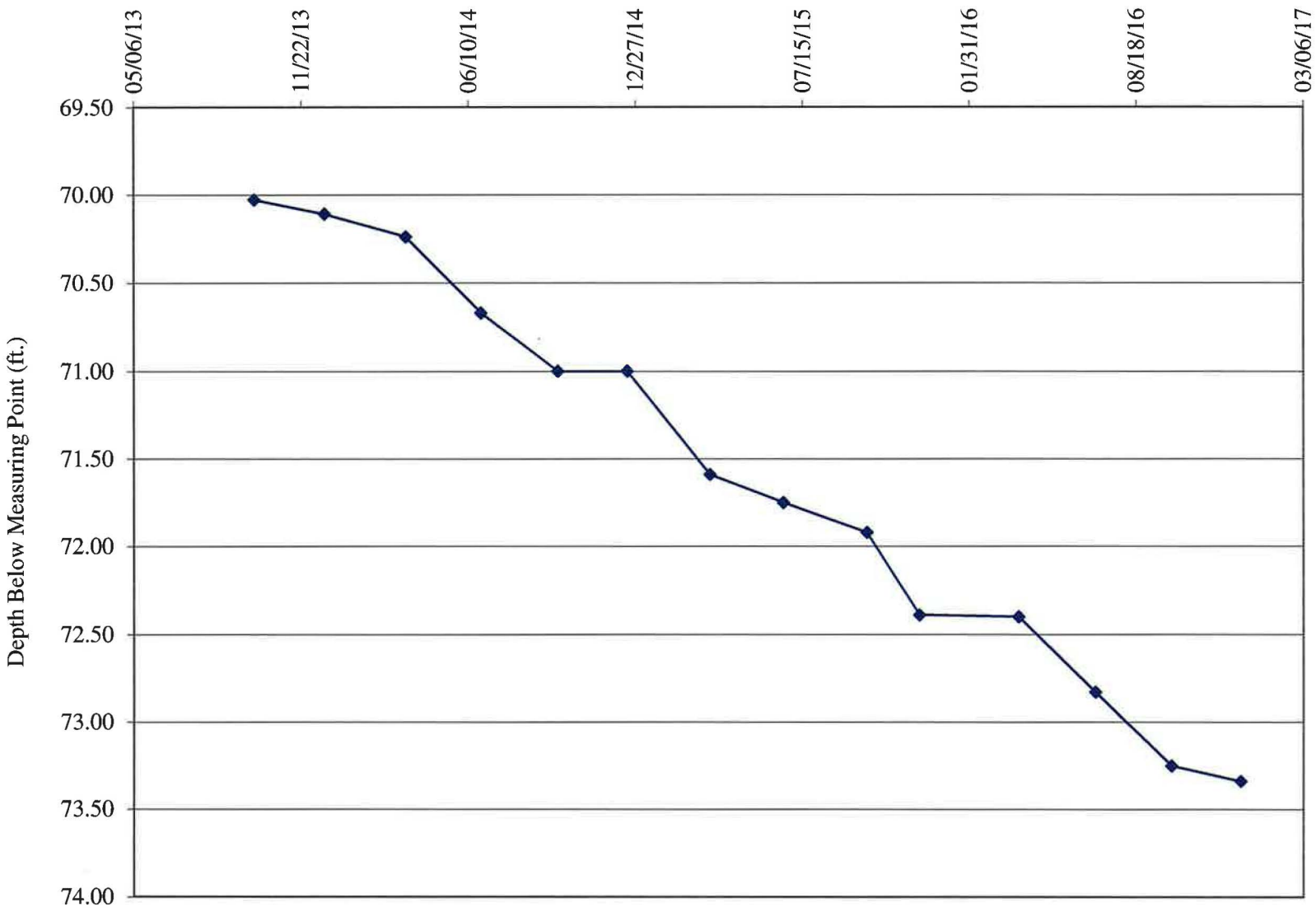
TW4-32 Water Depth Over Time (ft. blmp)



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	
5,533.39				12/21/16	73.34	71.81	

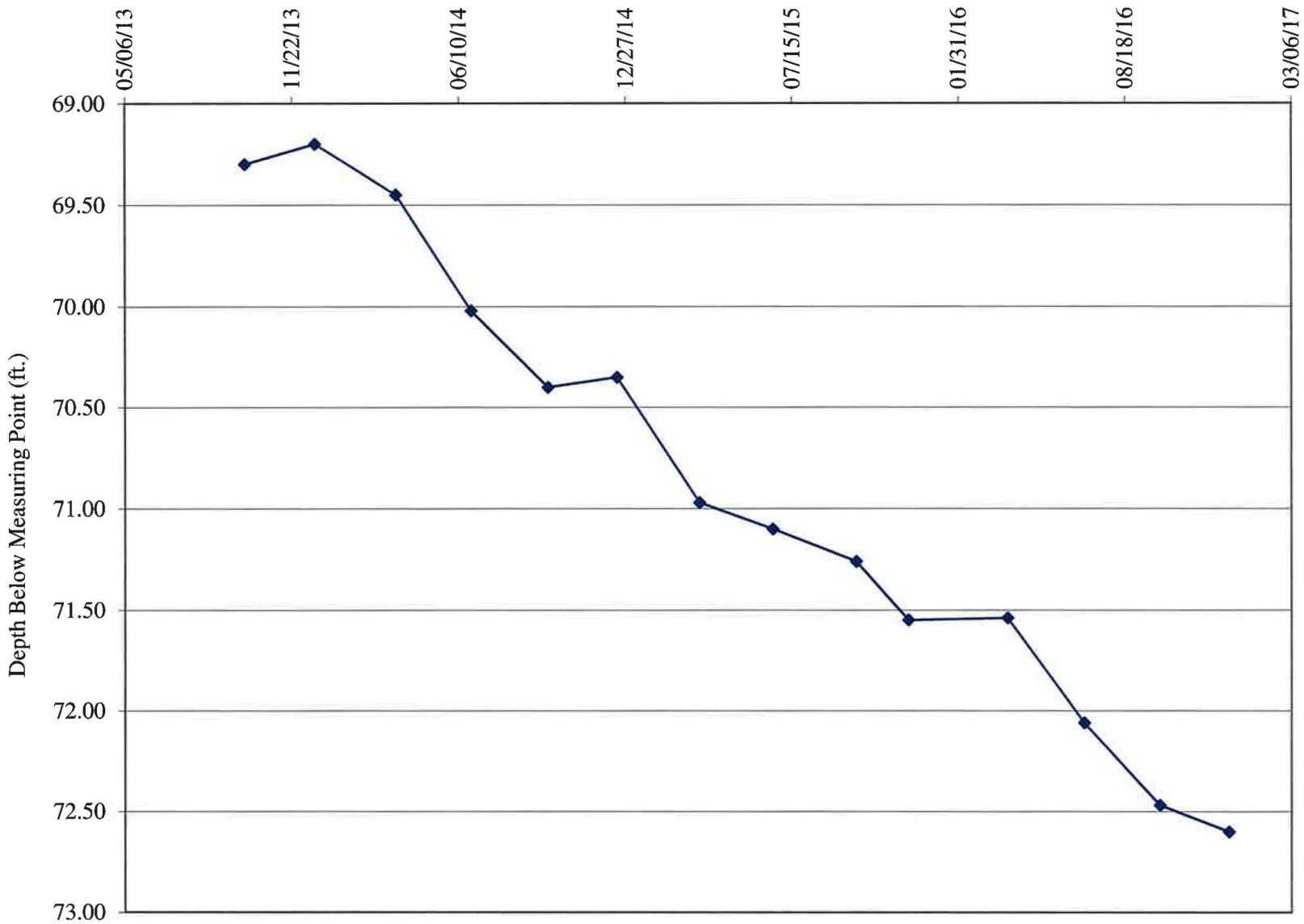
TW4-33 Water Depth Over Time (ft. blmp)



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	
5,530.74				12/21/16	72.60	70.86	

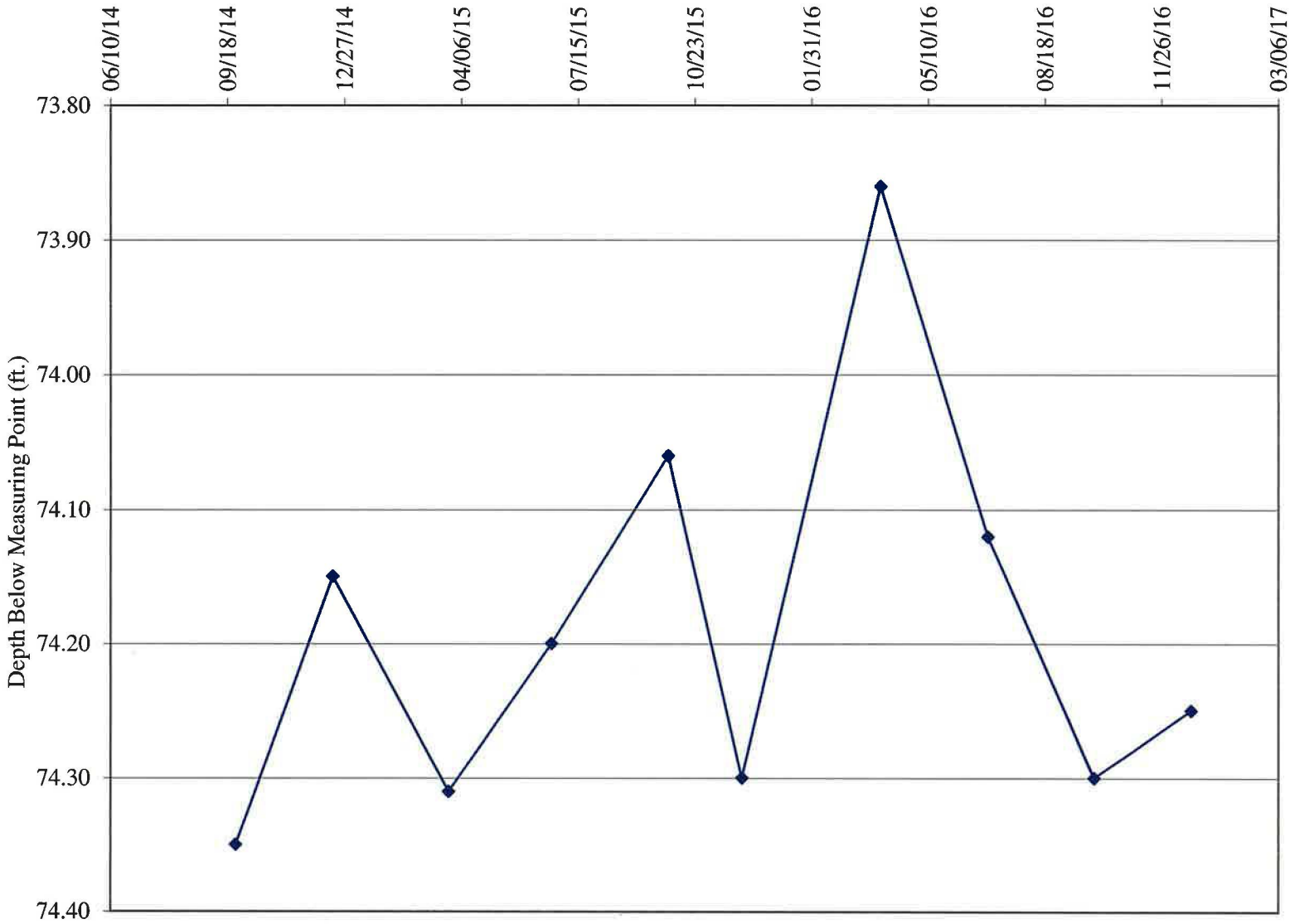
TW4-34 Water Depth Over Time (ft. blmp)



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	
5,525.62				12/21/16	74.25	73.05	

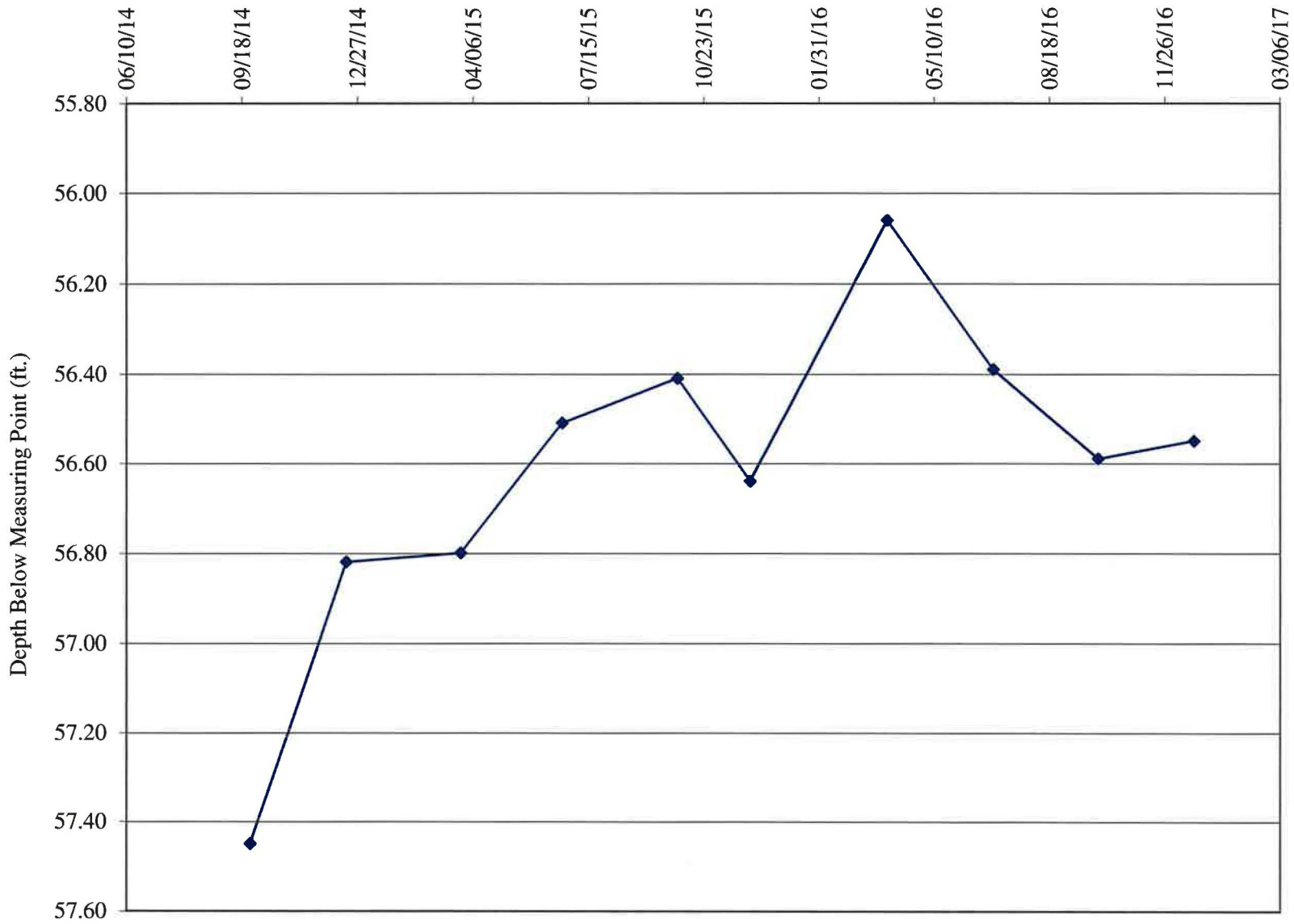
TW4-35 Water Depth Over Time (ft. blmp)



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	
5,560.04				12/21/16	56.55	55.14	

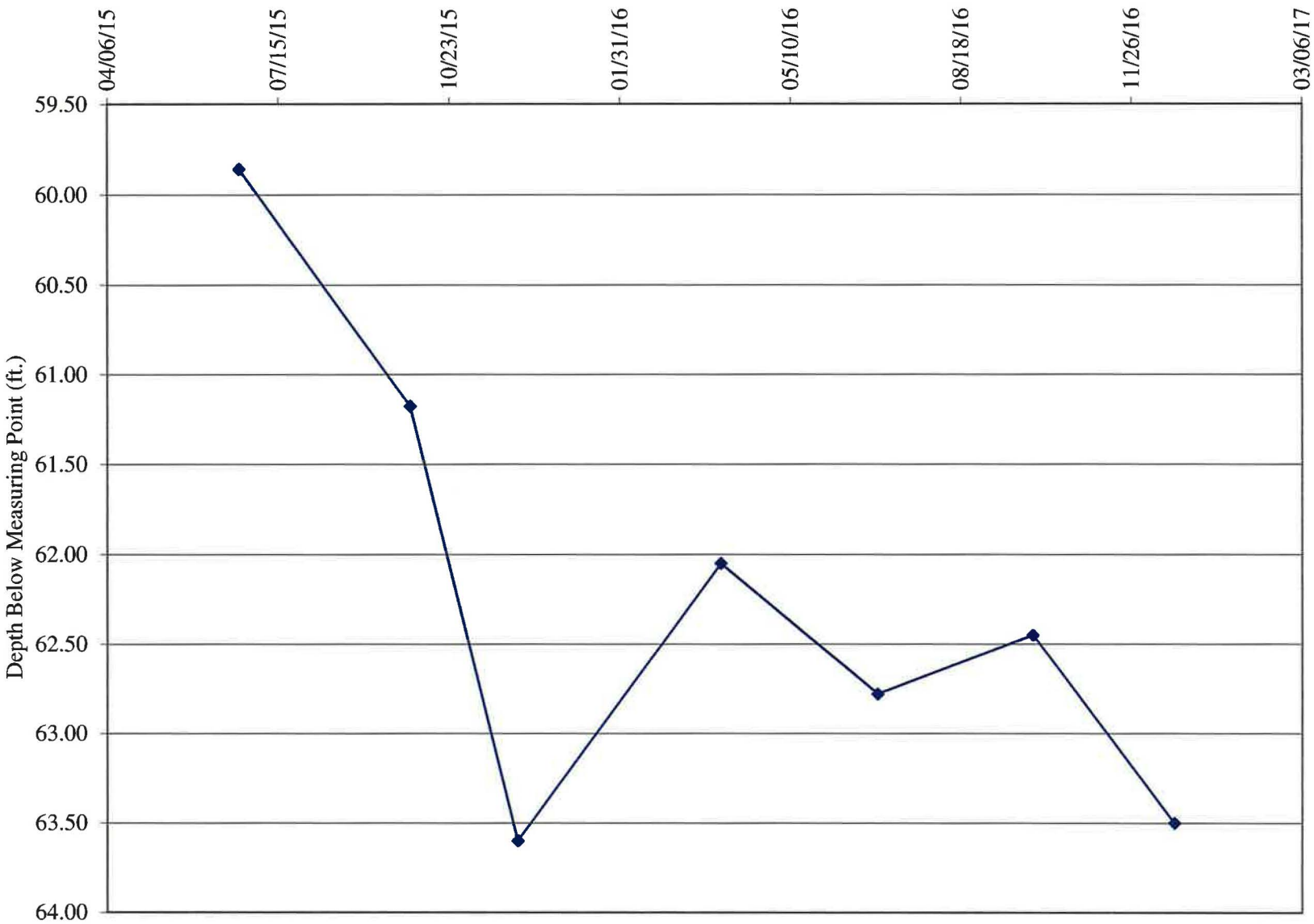
TW4-36 Water Depth Over Time (ft. blmp)



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	
5,568.35				12/21/16	63.50	61.78	

TW4-37 Water Depth Over Time (ft. blmp)



Water Levels and Data over Time
White Mesa Mill - Well TW4-38

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
	5,628.82	5,629.99	1.17				112.75
5,576.59				12/21/16	53.40	52.23	

Water Levels and Data over Time
White Mesa Mill - Well TW4-39

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
	5,628.82	5,629.56	0.74				120
5,566.39				12/21/16	63.17	62.43	

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
Q4 2016	85414.0	1470.0	323292.0	475239225	475	1.0	18541.6	2510.0	70180.0	176151690	176	0.4
Totals	5099767.38					90.6	2505782.4					32.5

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
Q4 2016	104919.4	6640	397119.9	2.637E+09	2637	5.8	12879.6	21300	48749.3	1.038E+09	1038	2.3
Totals	17736134.23					384.5	2301768.59					270.4

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
Q4 2016	31656.0	1430	119818.0	1.7E+08	171	0.4	23646.8	3370	89503.1	301625575.1	301.6	0.7
Totals	1879587.6					23.1	380370.4					30.8

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
Q4 2016	99522.5	20.80	376692.7	7835207.4	7.8	0.017	98681.2	0.0	373508.3	0.0	0.0	0.0
Totals	2344590.8					0.81	1849735.6					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
Q4 2016	16756.8	1330	63424.5	84354569.0	84.4	0.19	19740.6	1600	74718.2	119549073.6	119.5	0.26
Totals	164189.5					1.55	168339.9					2.5

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
Q4 2016	3050.2	3180	11545.0	36713122.3	36.7	0.08	130311.3	434.0	493228.3	214061069.4	214.1	0.47
Totals	36277.3					0.79	789259.2					2.67

Table G-1
Quarterly Calculation of Chloroform Removed and Total Volume of Water Pumped

	TW4-37						TW4-39							
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)	Total (pounds)	Total Volume Pumped (gallons)
Q1 2007	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	286.9	9648896.0
Q2 2007	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.0	904550.0
Q3 2007	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.0	559220.0
Q4 2007	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.6	550560.0
Q1 2008	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13.8	503034.0
Q2 2008	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	14.8	527290.0
Q3 2008	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	26.8	724960.0
Q4 2008	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	22.7	786870.0
Q1 2009	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.0	664830.0
Q2 2009	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13.5	1007400.0
Q3 2009	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	18.5	399710.0
Q4 2009	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	49.4	1047335.0
Q1 2010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.5	492485.0
Q2 2010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	16.5	721374.1
Q3 2010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.6	376623.4
Q4 2010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	17.9	1041817.3
Q1 2011	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	24.9	696533.0
Q2 2011	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13.1	449131.1
Q3 2011	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.1	462334.5
Q4 2011	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.8	468706.3
Q1 2012	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.6	448486.3
Q2 2012	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.4	400415.2
Q3 2012	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.6	390229.0
Q4 2012	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.1	358000.0
Q1 2013	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13.7	634286.1
Q2 2013	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13.5	768953.4
Q3 2013	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	31.1	950505.6
Q4 2013	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.3	990119.8
Q1 2014	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.6	859297.5
Q2 2014	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.9	838057.9
Q3 2014	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.2	852987.2
Q4 2014	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	14.6	673905.9
Q1 2015	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.9	458271.4
Q2 2015	29206.0	30200	110544.7	3338450242.0	3338.5	7.4	NA	NA	NA	NA	NA	NA	15.3	539592.9
Q3 2015	118063.9	19100	446871.9	8535252554.7	8535.3	18.8	NA	NA	NA	NA	NA	NA	33.4	816299.8
Q4 2015	111737.5	19500	422926.4	8247065531.3	8247.1	18.2	NA	NA	NA	NA	NA	NA	32.3	847567.8
Q1 2016	111591.0	17500	422371.9	7391508862.5	7391.5	16.3	NA	NA	NA	NA	NA	NA	30.6	819302.3
Q2 2016	119241.2	16200	451327.9	7311512660.4	7311.5	16.1	NA	NA	NA	NA	NA	NA	39.4	832418.9
Q3 2016	98377.6	15900	372359	5920511534.4	5920.5	13.1	NA	NA	NA	NA	NA	NA	24.7	686543.4
Q4 2016	101949.1	16400	385877	6328388433.4	6328.4	14.0	3598.3	2800	13620	38134783.4	38.1	0.1	25.6	750667.4
Totals	690166.3					103.8						0.1	944.1	35945969.2

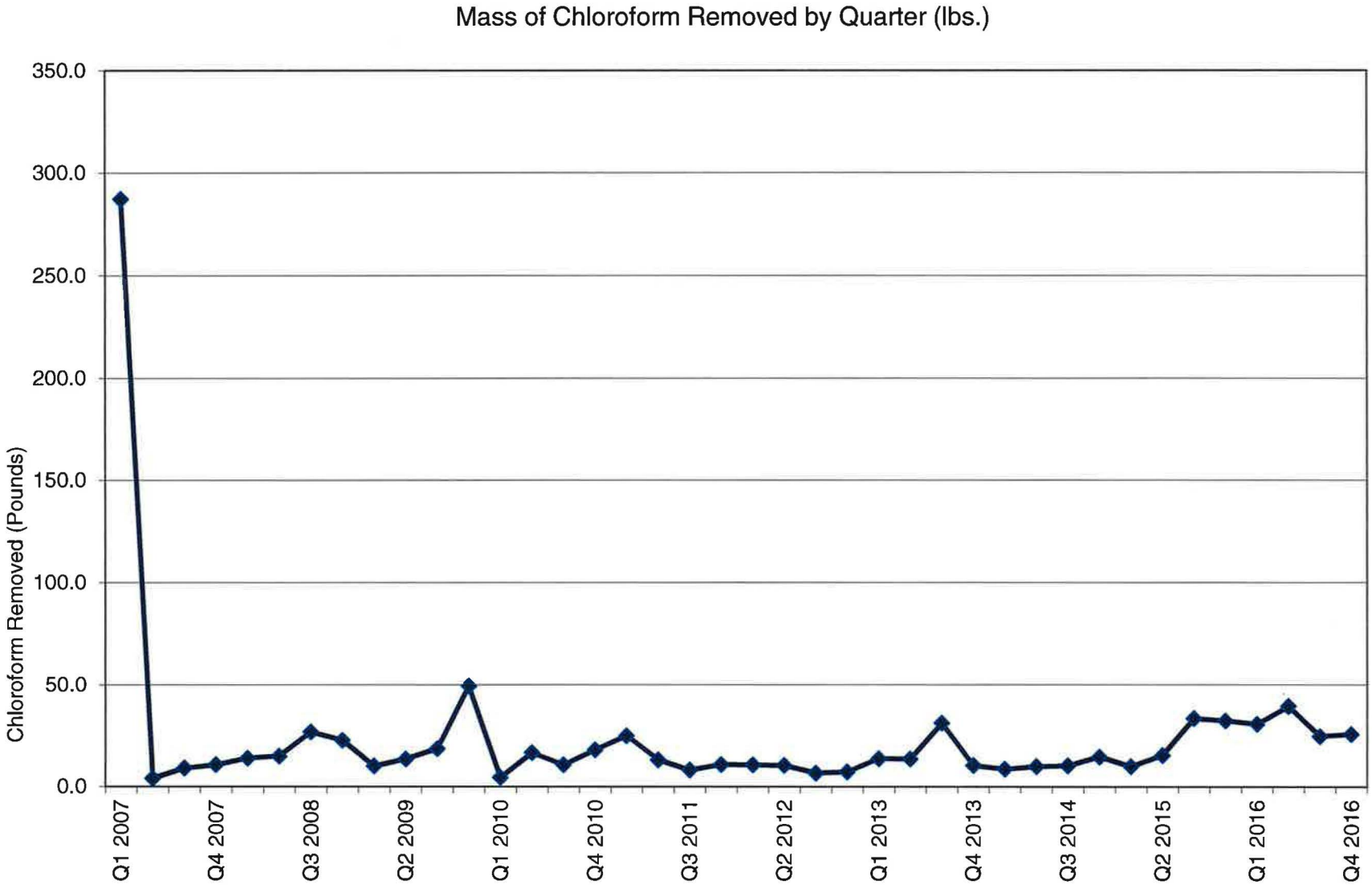
Table G-2
Chloroform Mass Removal Per Well Per Quarter

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.)	TW4-39 (lbs.)	Quarter Totals (lbs.)
Q1 2007	36.8	12.9	150.2	87.0	NA	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	NA	4.0
Q3 2007	2.2	0.8	2.9	3.1	NA	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	NA	10.6
Q1 2008	1.7	0.4	4.6	7.2	NA	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	NA	14.8
Q3 2008	1.2	0.3	15.9	9.3	NA	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	NA	22.7
Q1 2009	1.7	0.4	4.3	3.6	NA	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	NA	13.5
Q3 2009	1.5	0.4	11.1	5.5	NA	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	NA	49.4
Q1 2010	0.9	0.4	2.7	0.4	NA	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	NA	16.5
Q3 2010	1.3	1.2	2.0	4.9	1.3	NA	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	NA	17.9
Q1 2011	1.1	0.2	12.9	9.6	1.1	NA	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	NA	13.1
Q3 2011	1.2	0.4	1.1	4.1	1.2	NA	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	NA	10.8
Q1 2012	1.1	0.6	0.8	7.0	1.0	NA	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	NA	10.4
Q3 2012	1.1	0.7	1.4	2.4	1.1	NA	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	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	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	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	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	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	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	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	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	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	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	NA	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	NA	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	NA	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	NA	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	NA	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	NA	24.7
Q4 2016	1.0	0.4	5.8	2.3	0.4	0.7	0.017	0.0	0.19	0.26	0.08	0.47	14.0	0.1	25.6
Well Totals	90.6	32.5	384.5	270.4	23.1	30.8	0.81	0.00	1.55	2.51	0.79	2.67	103.8	0.1	**944.1**

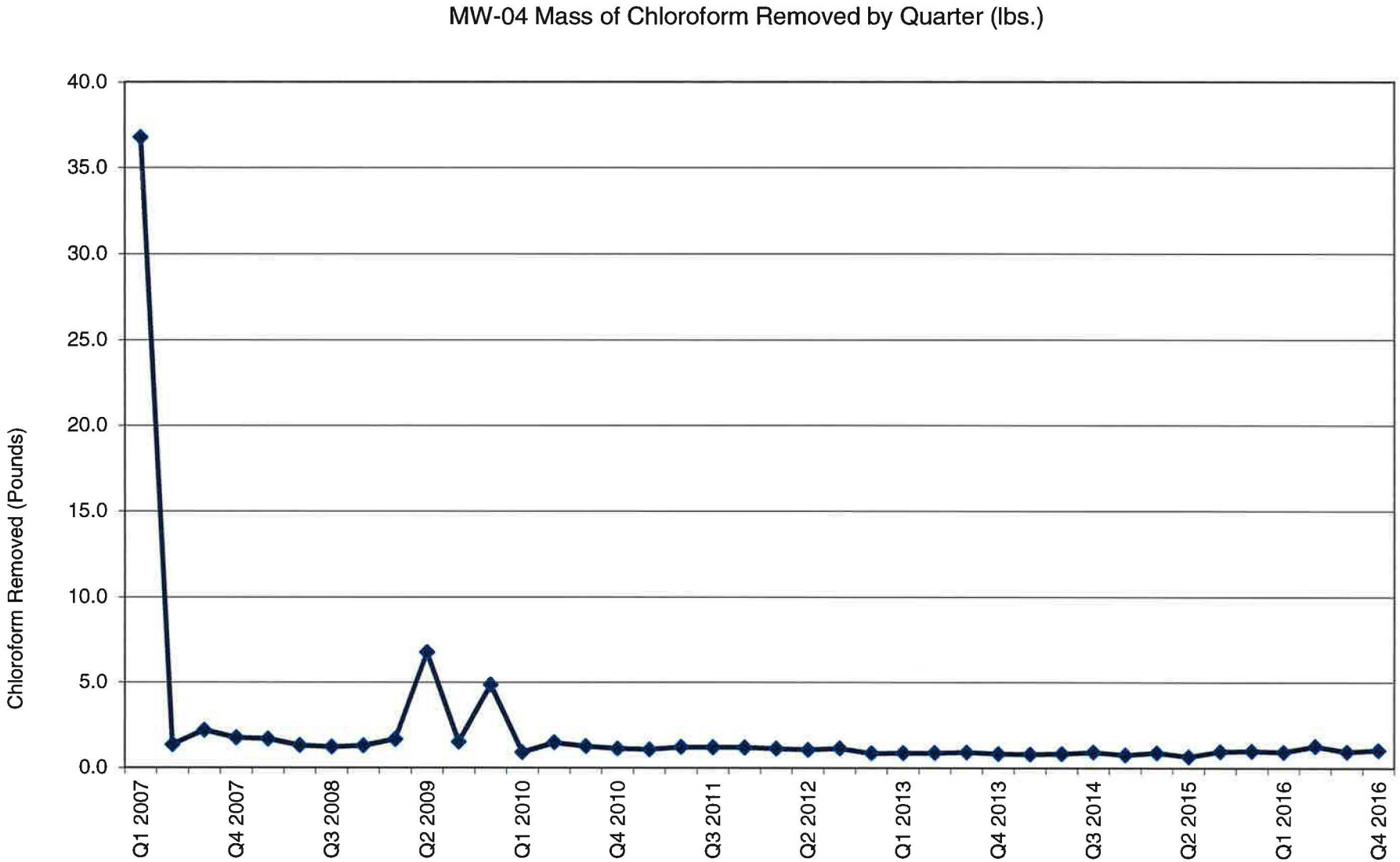
* Q1 2007 represents the cumulative total prior to and including Q1 2007.

Table G-3 Well Pumping Rates and Volumes

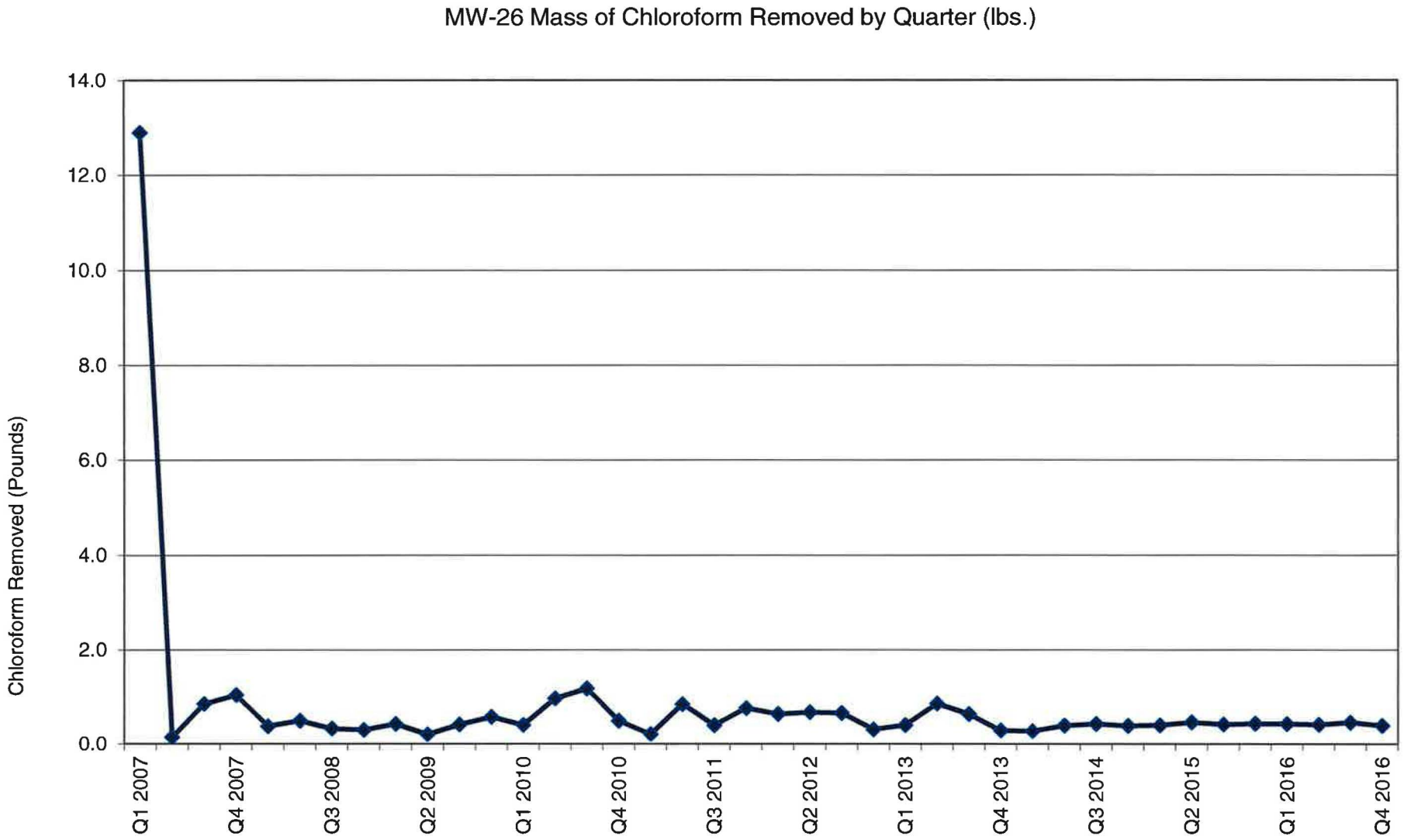
Pumping Well Name	Volume of Water Pumped During the Quarter (gals)	Average Pump Rate (gpm)
MW-4	85414.0	4.5
MW-26	18541.6	7.4
TW4-19	104919.4	18.0
TW4-20	12879.6	6.9
TW4-4	31656.0	14.2
TWN-2	44640.6	18.5
TW4-22	23646.8	16.2
TW4-24	99522.5	15.6
TW4-25	98681.2	14.4
TW4-01	16756.8	15.5
TW4-02	19740.6	16.6
TW4-11	3050.2	16.0
TW4-21	130311.3	16.0
TW4-37	101949.1	16.8
TW4-39	3589.3	16.6



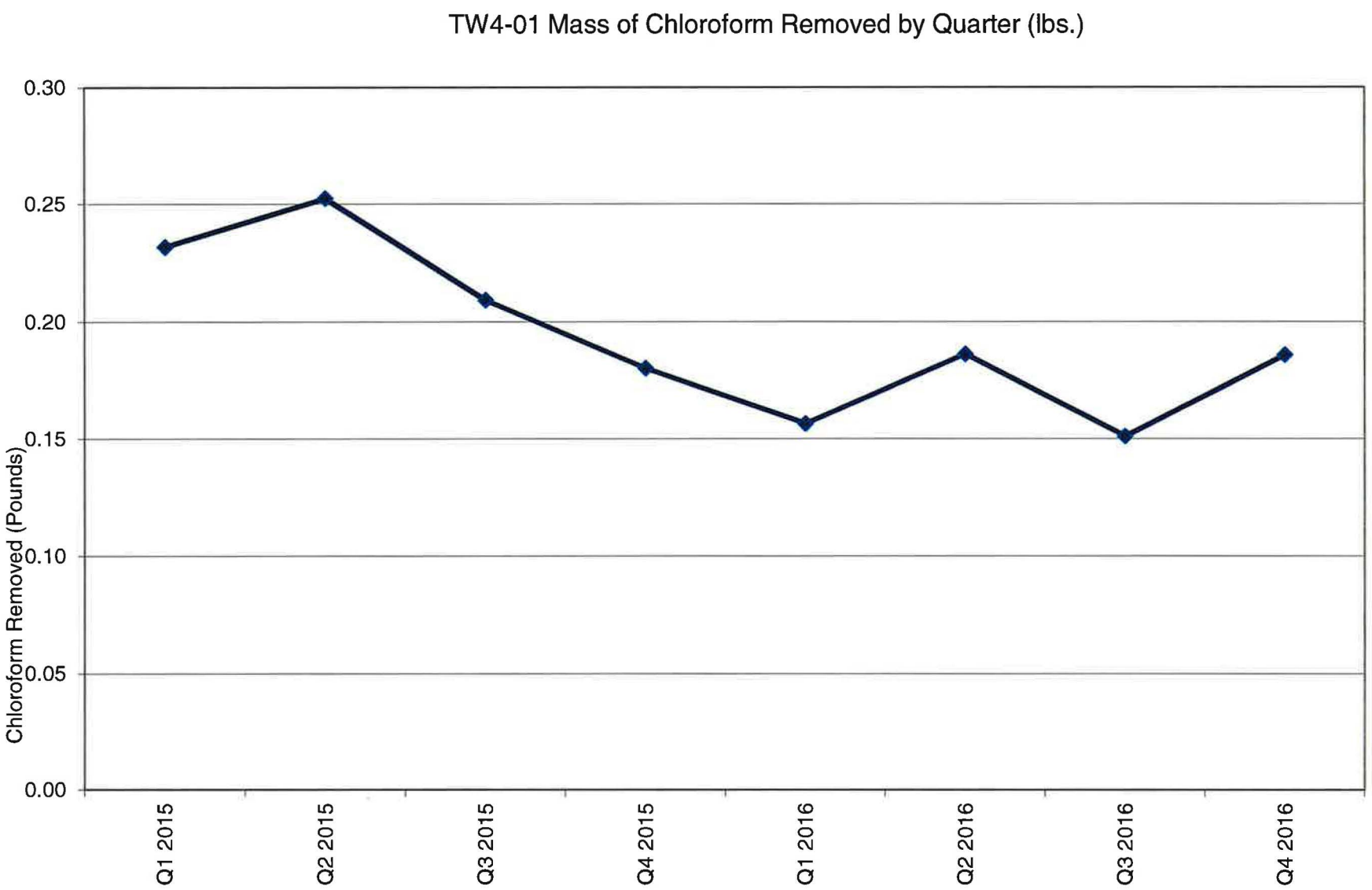
Q1 2007 represents the cumulative total prior to and incuding Q1 2007.

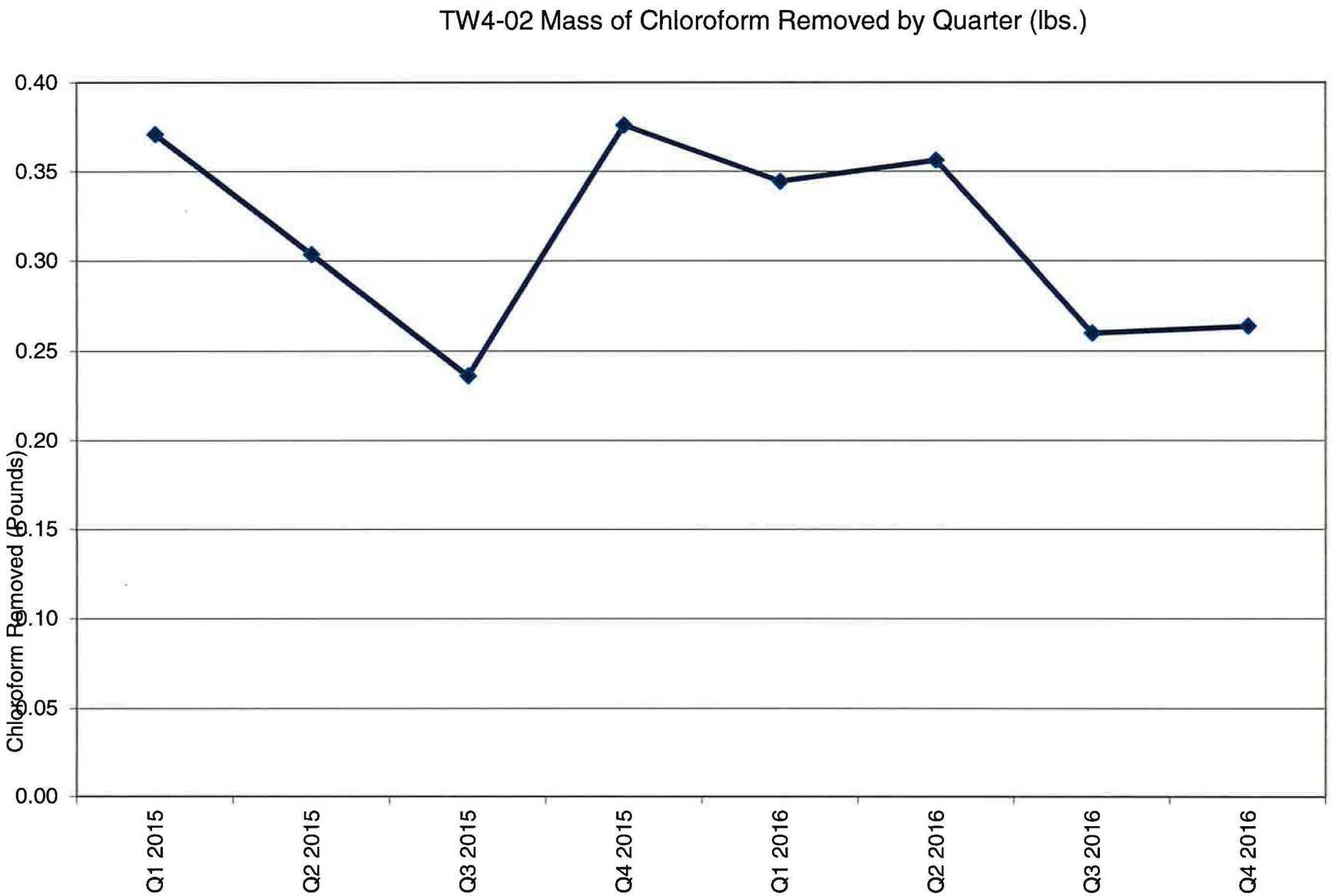


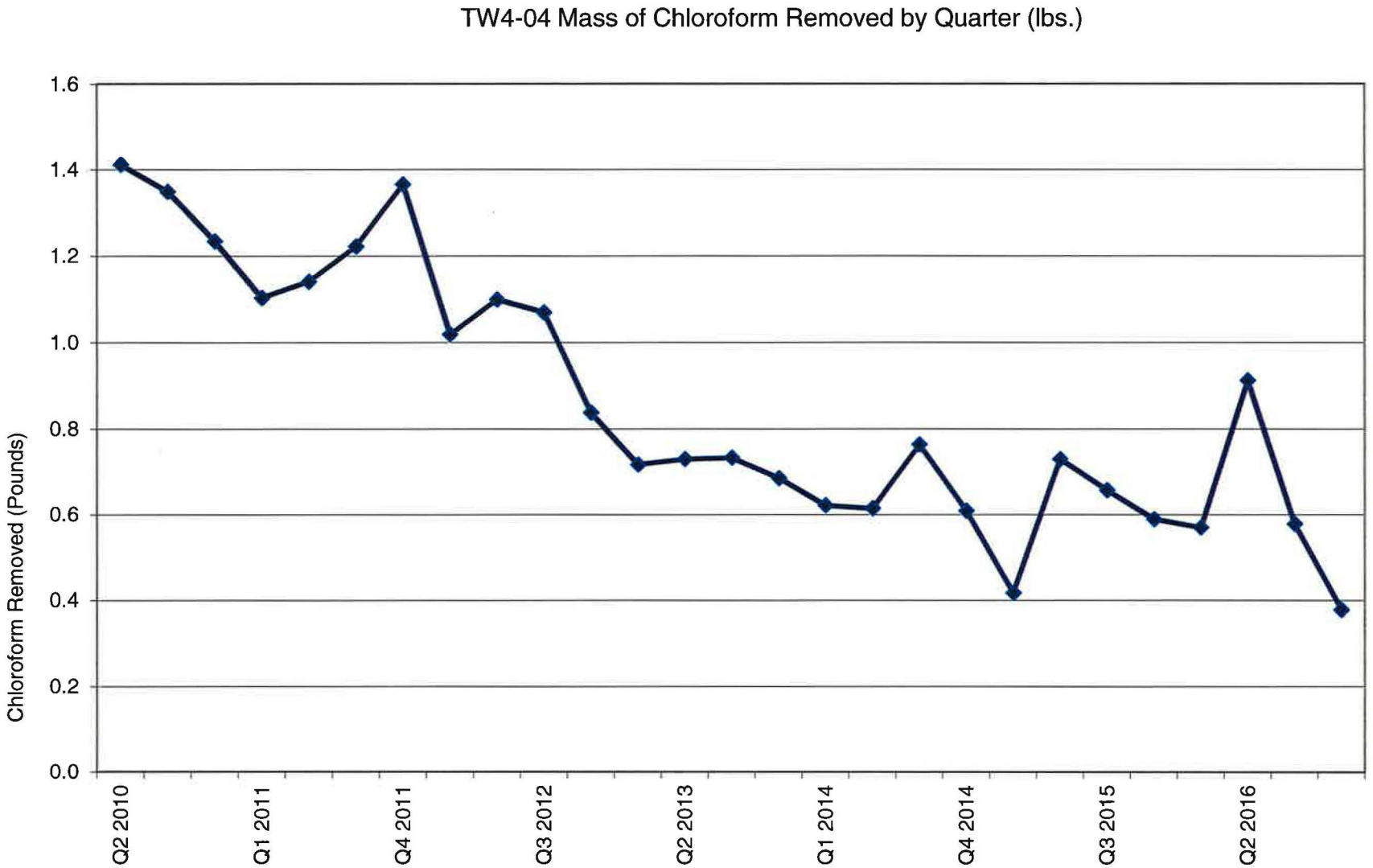
Q1 2007 represents the cumulative total prior to and including Q1 2007.

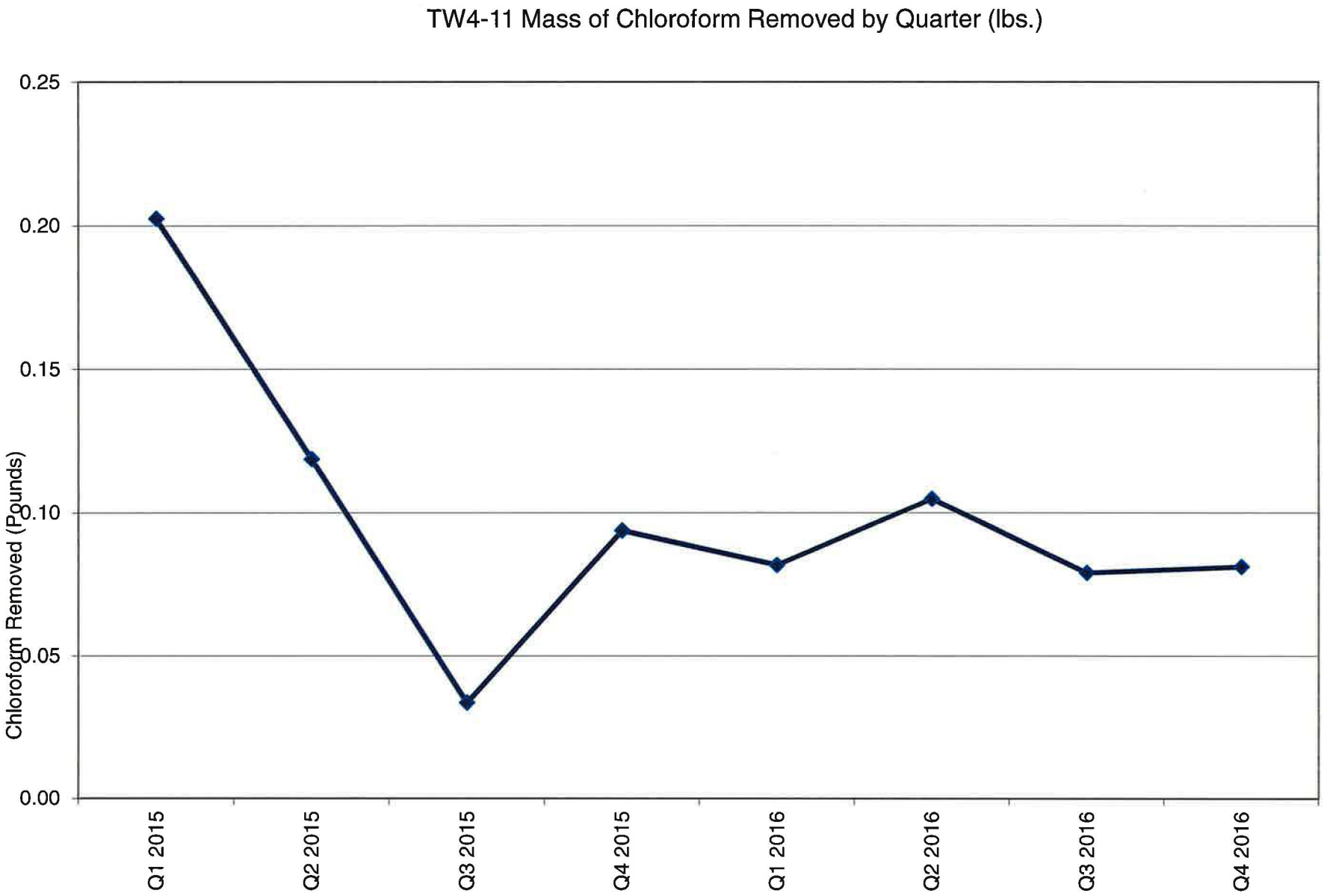


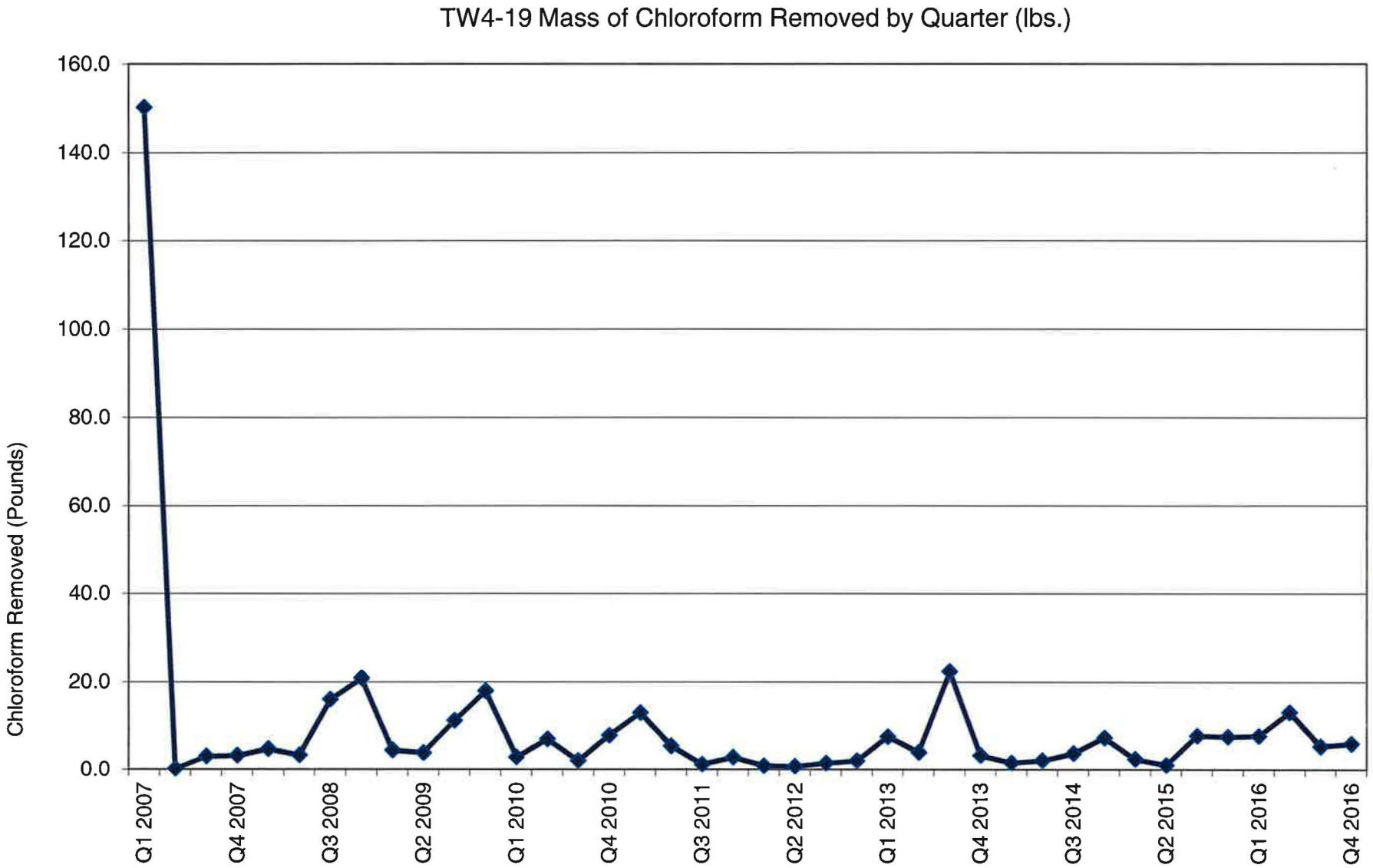
Q1 2007 represents the cumulative total prior to and including Q1 2007.


TW4-01 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
Q4 2016

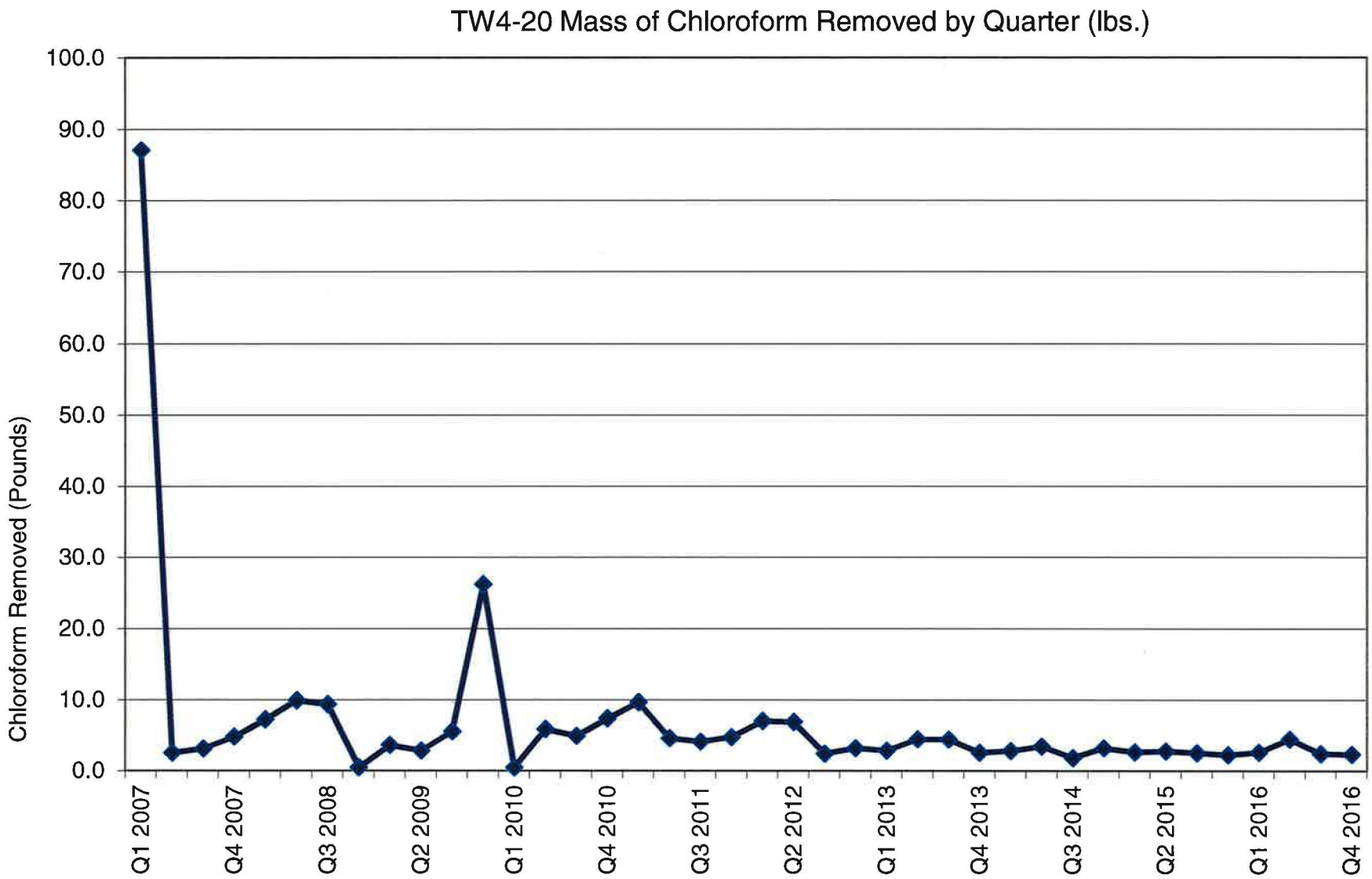

TW4-02 Mass of Chloroform Removed by Quarter (lbs.)
Chloroform Removed (Pounds)
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
Q1 2015
Q2 2015
Q3 2015
Q4 2015
Q1 2016
Q2 2016
Q3 2016
Q4 2016


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

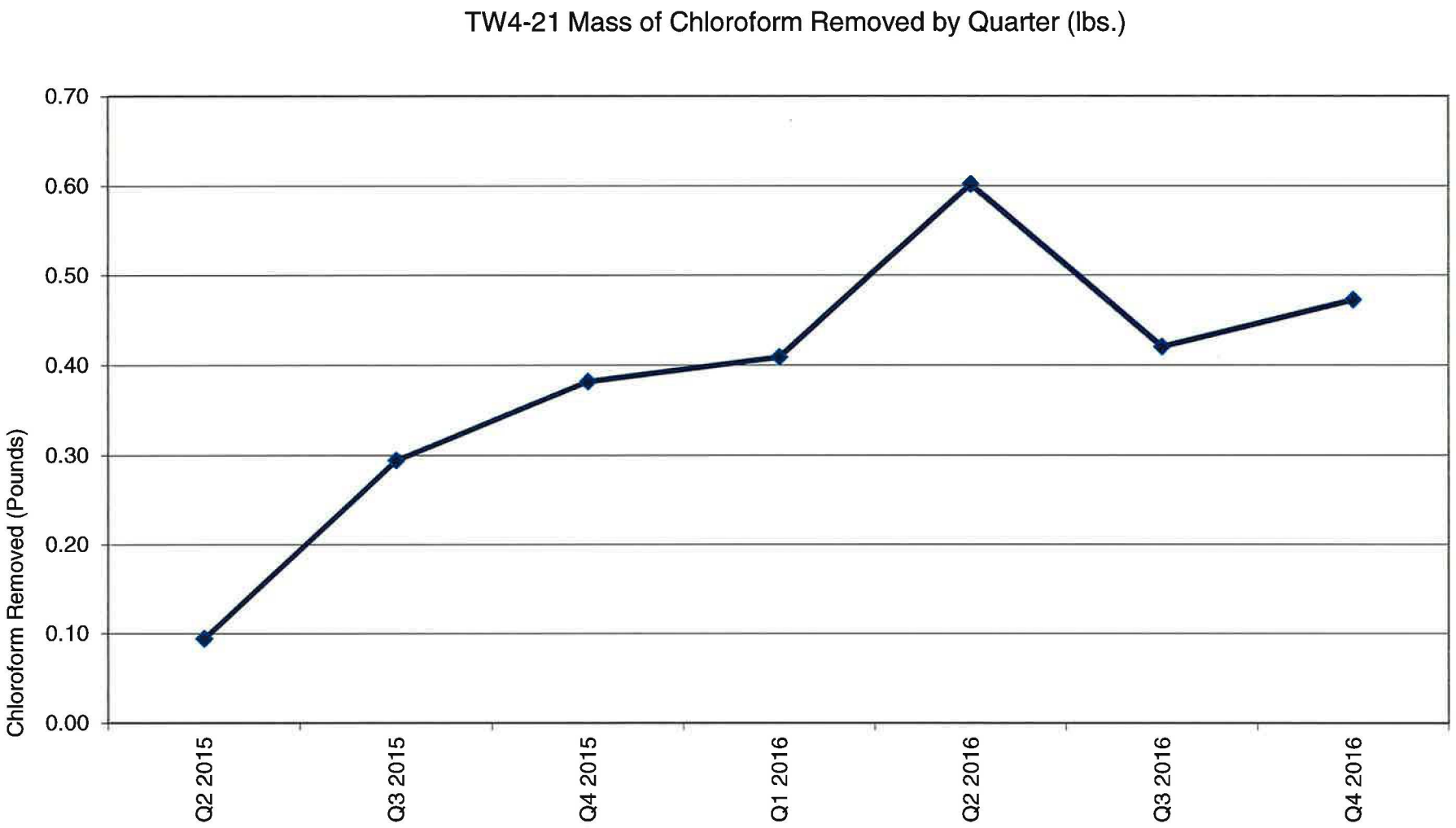

TW4-11 Mass of Chloroform Removed by Quarter (lbs.)
Chloroform Removed (Pounds)
0.25
0.20
0.15
0.10
0.05
0.00
Q1 2015
Q2 2015
Q3 2015
Q4 2015
Q1 2016
Q2 2016
Q3 2016
Q4 2016

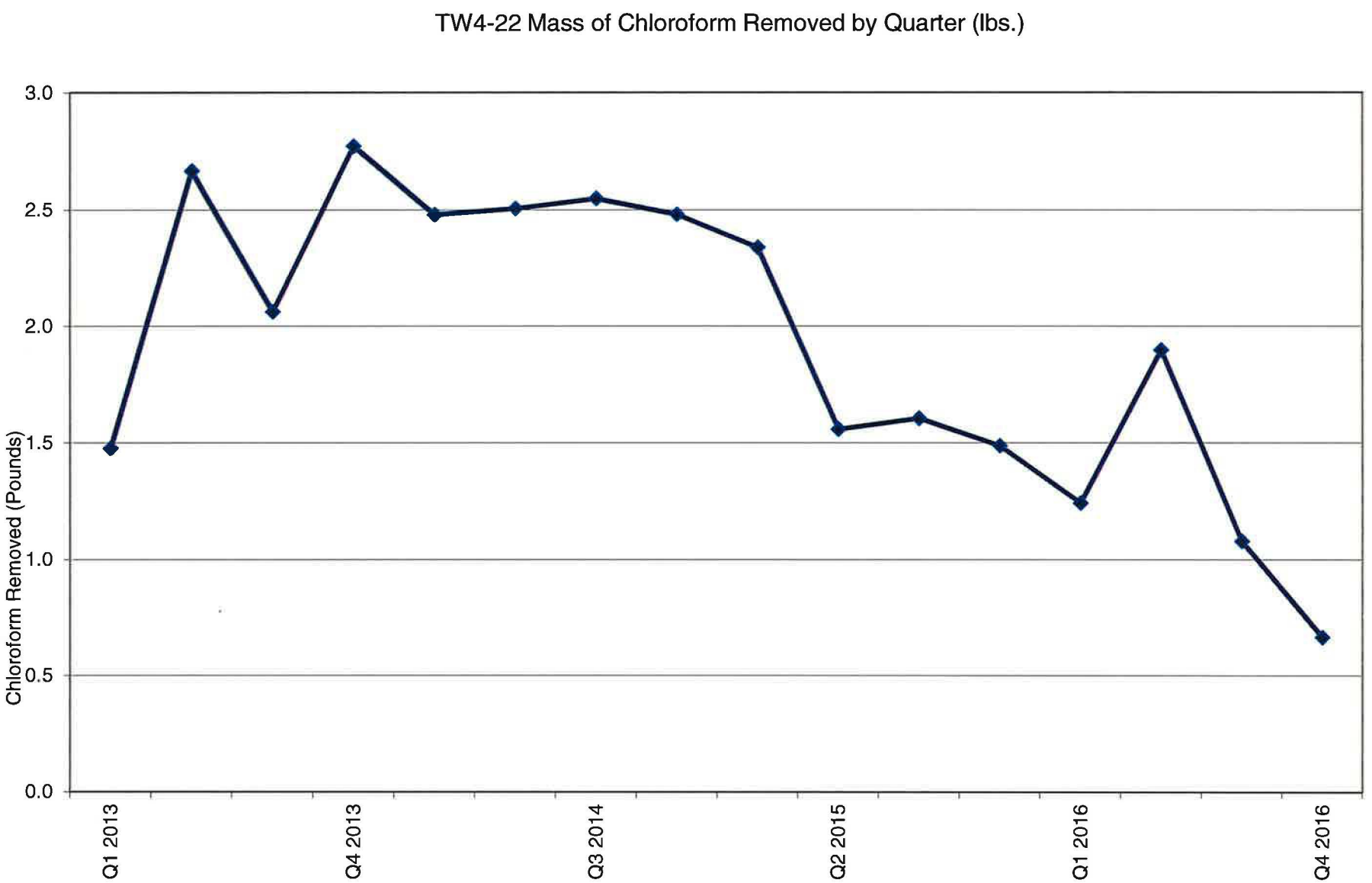


Q1 2007 represents the cumulative total prior to and including Q1 2007.

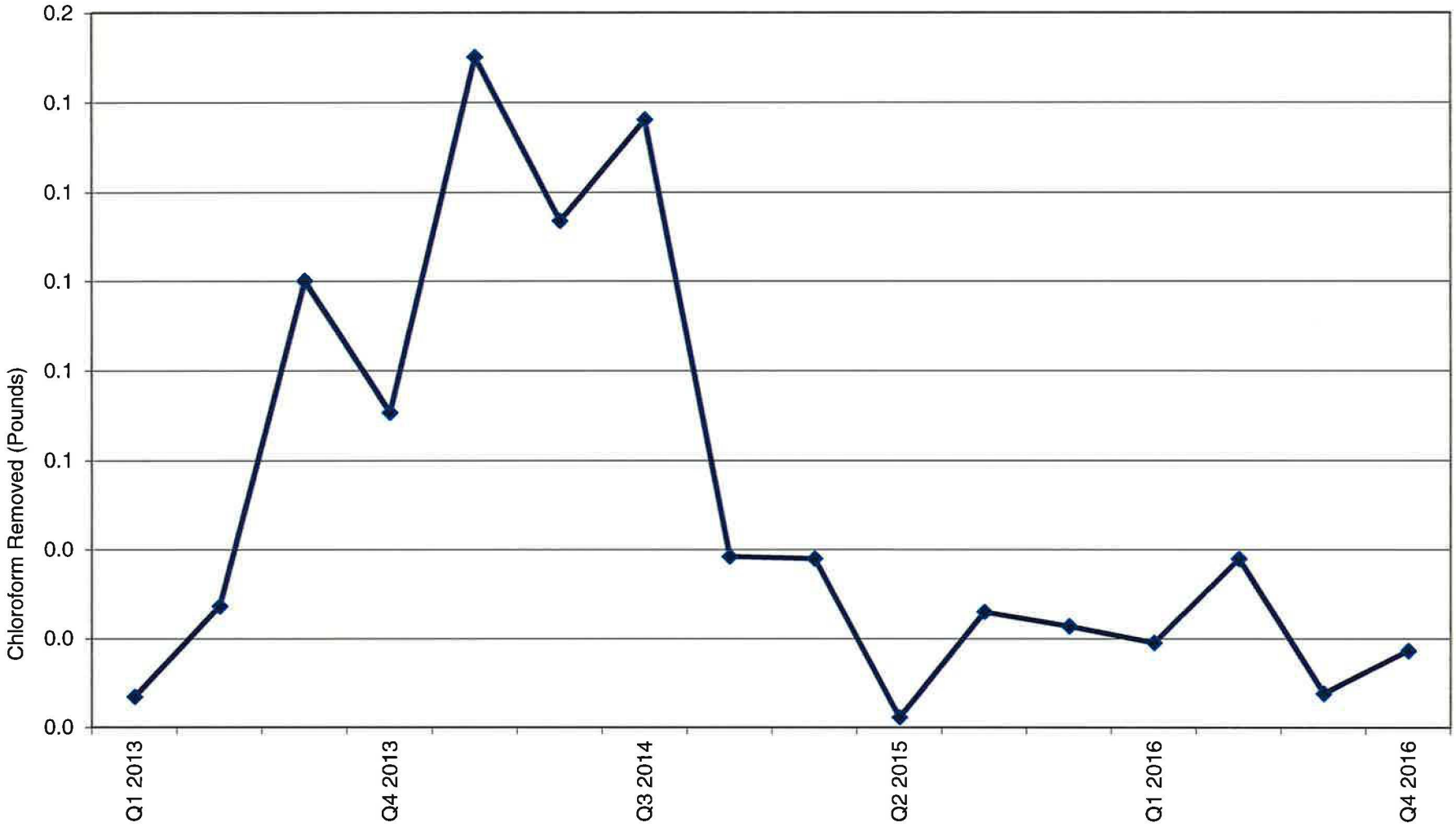


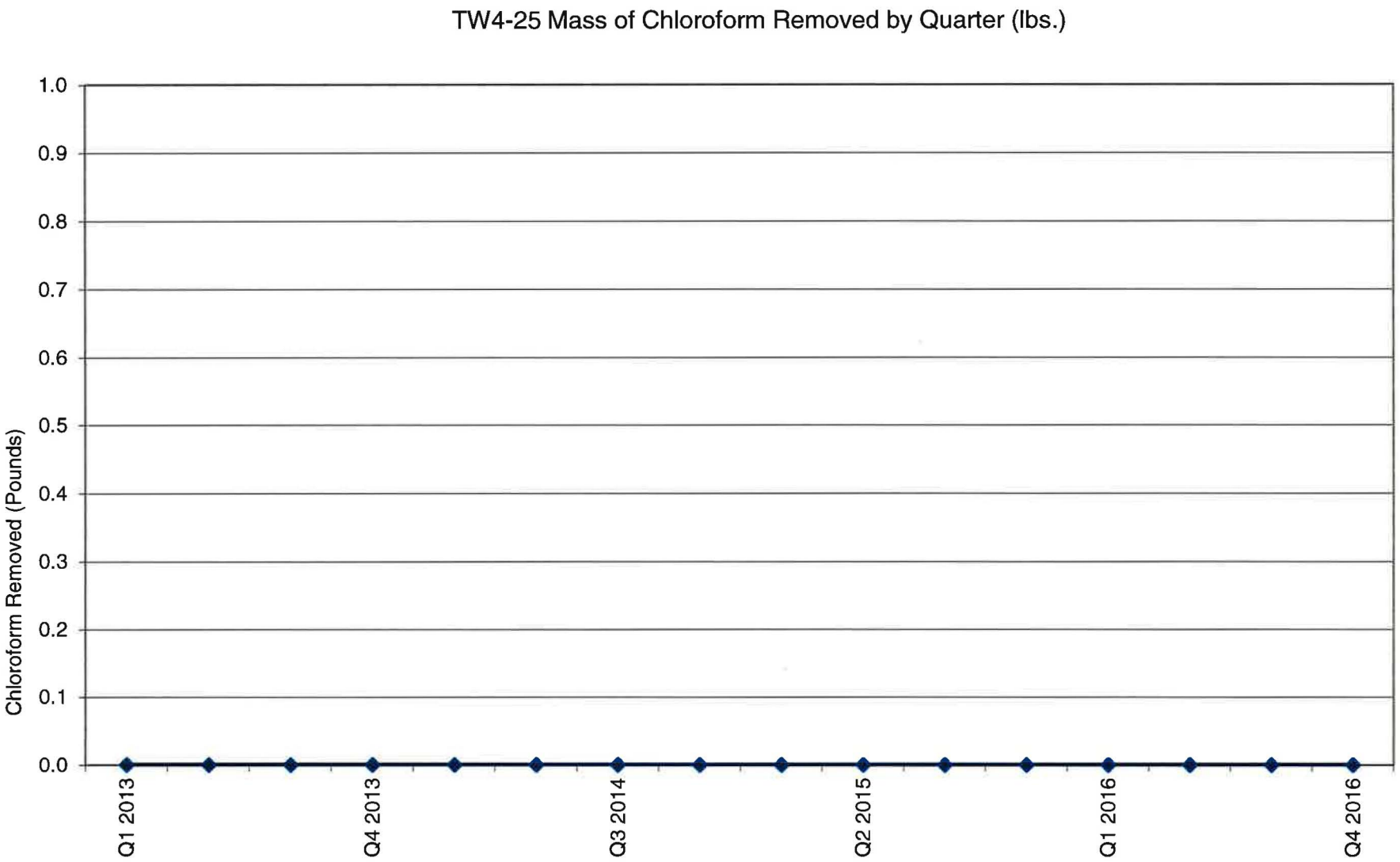
Q1 2007 represents the cumulative total prior to and including Q1 2007.

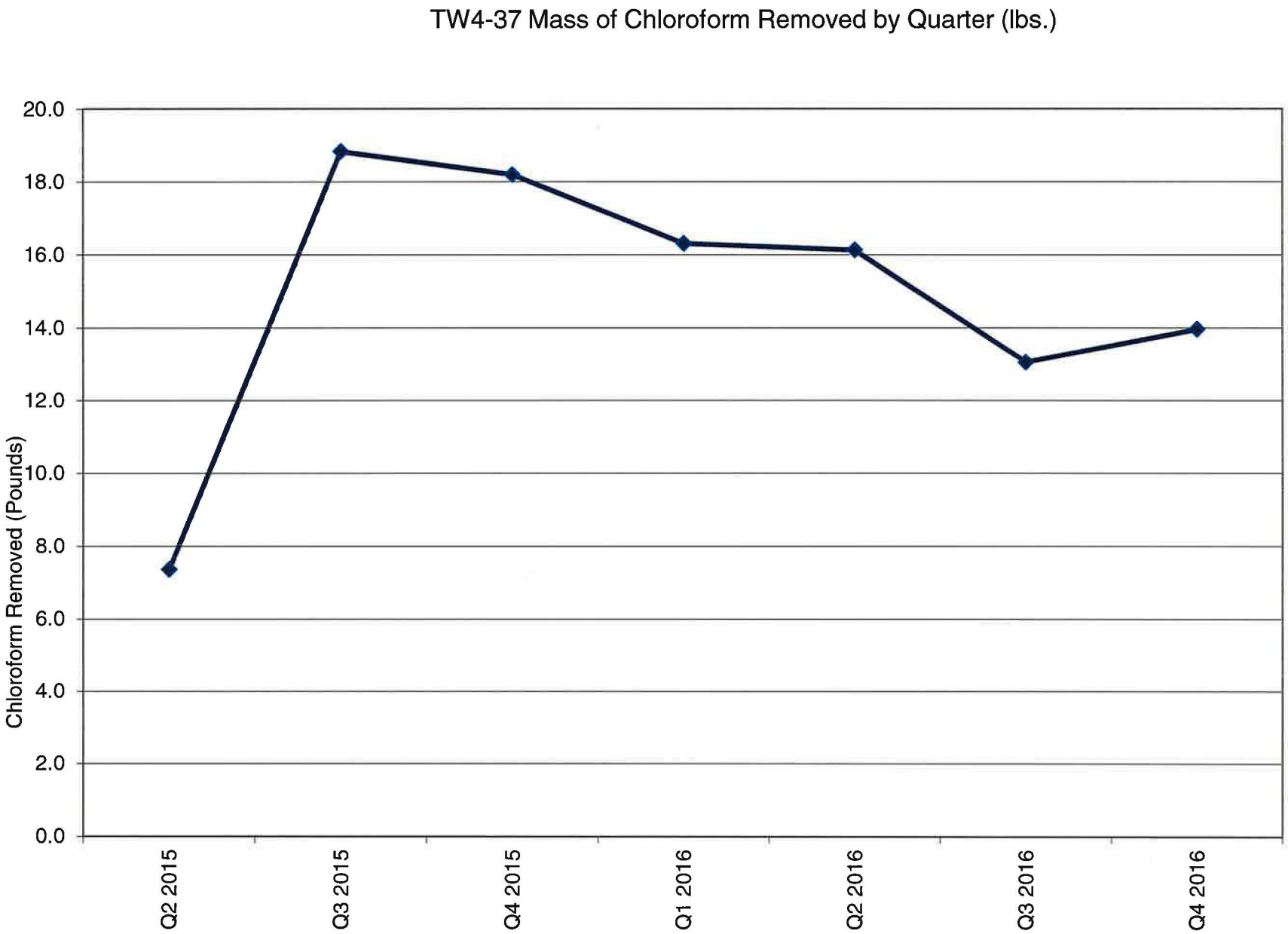

TW4-21 Mass of Chloroform Removed by Quarter (lbs.)
Chloroform Removed (Pounds)
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
Q2 2015
Q3 2015
Q4 2015
Q1 2016
Q2 2016
Q3 2016
Q4 2016


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
Q4 2016

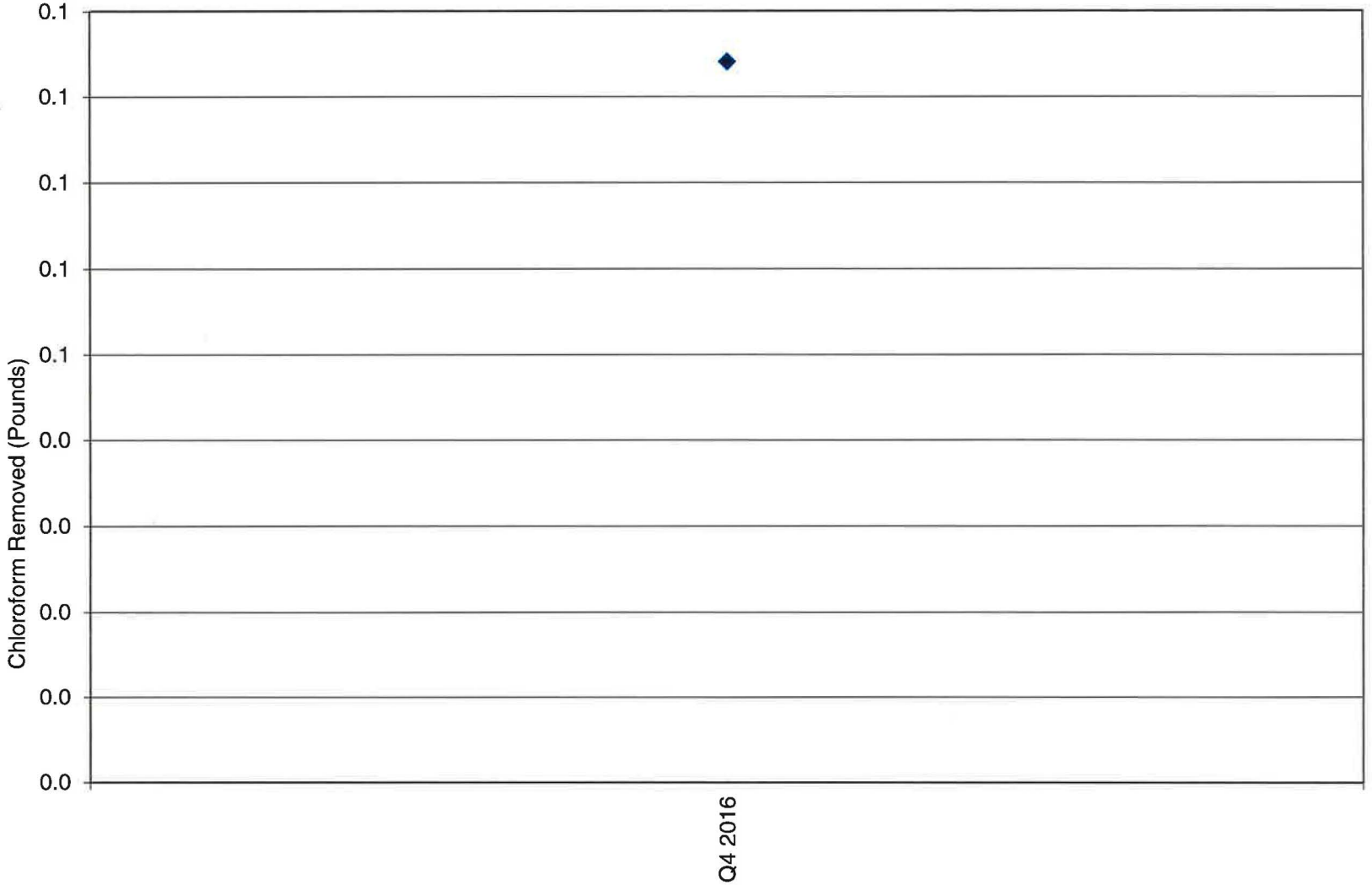
TW4-24 Mass of Chloroform Removed by Quarter (lbs.)

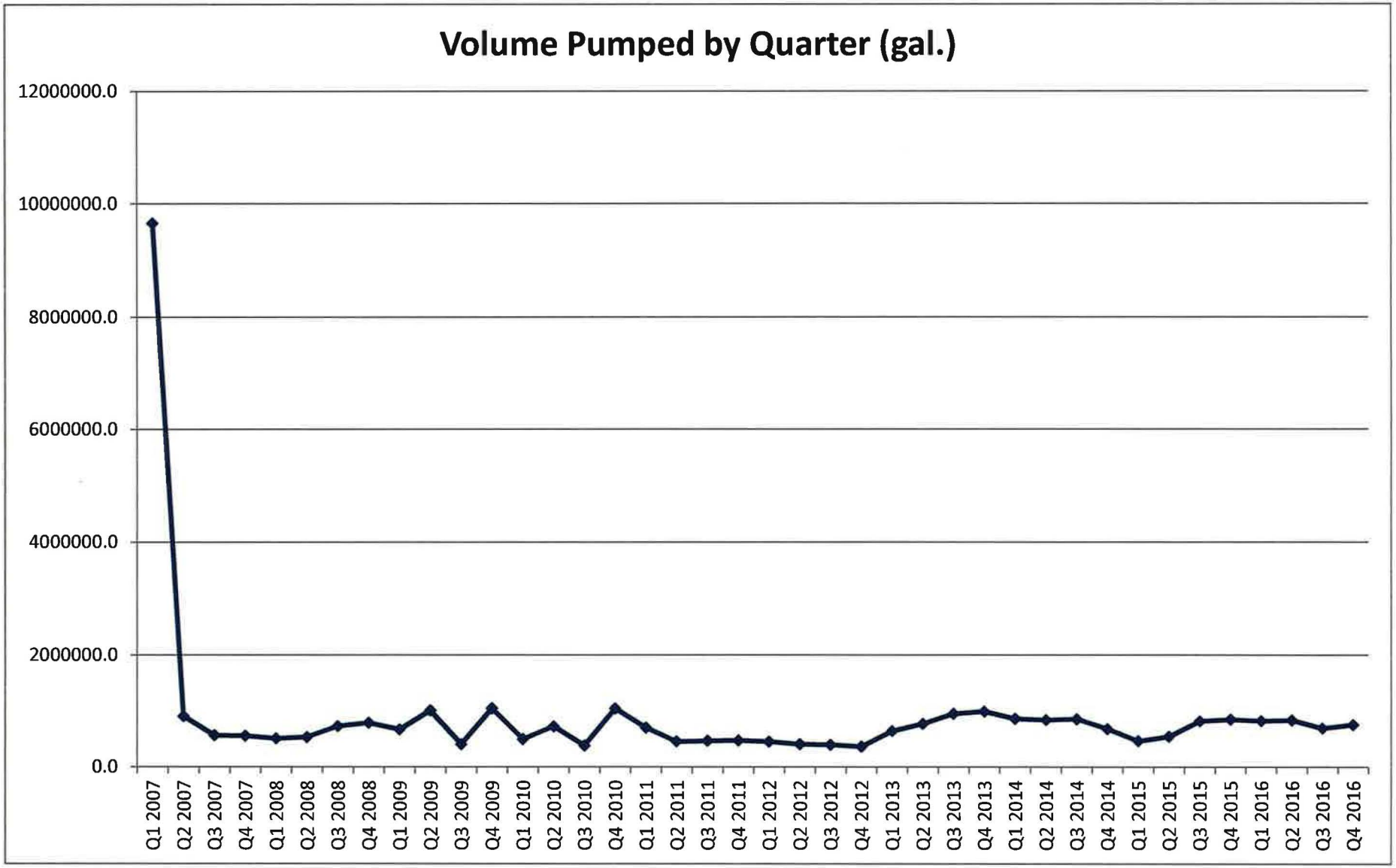



TW4-25 Mass of Chloroform Removed by Quarter (lbs.)
Chloroform Removed (Pounds)
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
Q1 2013
Q4 2013
Q3 2014
Q2 2015
Q1 2016
Q4 2016

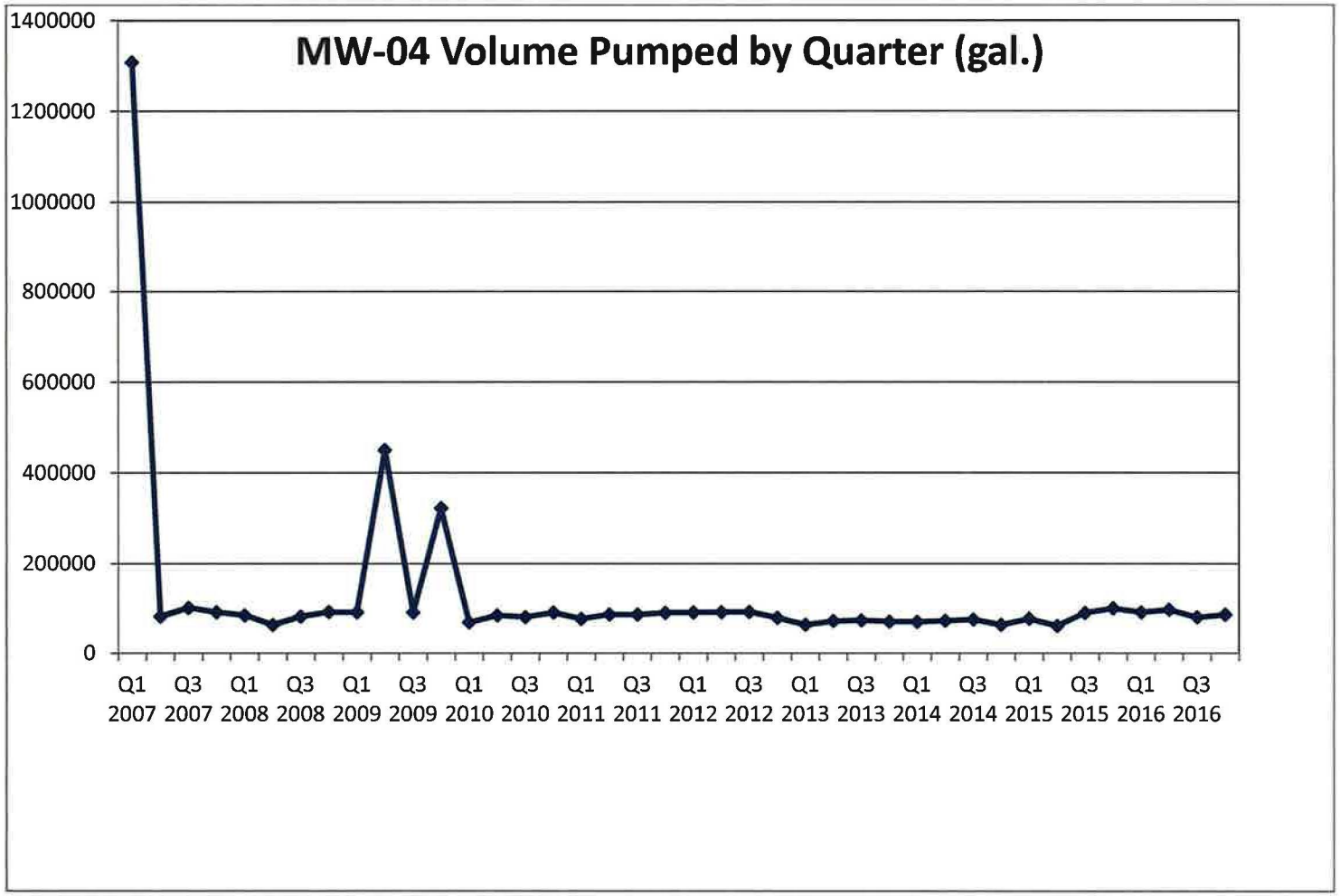

TW4-37 Mass of Chloroform Removed by Quarter (lbs.)
Chloroform Removed (Pounds)
20.0
18.0
16.0
14.0
12.0
10.0
8.0
6.0
4.0
2.0
0.0
Q2 2015
Q3 2015
Q4 2015
Q1 2016
Q2 2016
Q3 2016
Q4 2016

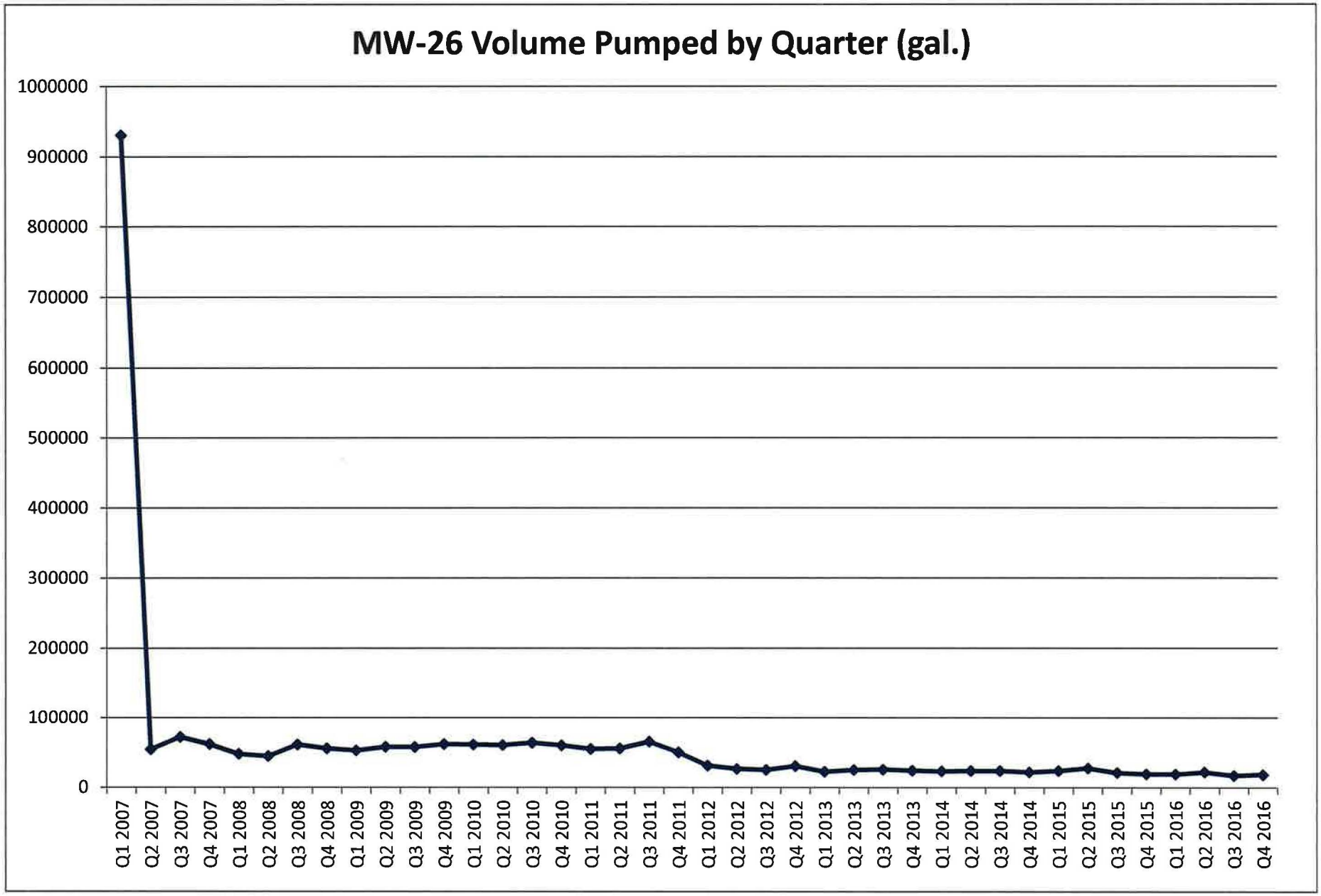
TW4-39 Mass of Chloroform Removed by Quarter (lbs.)



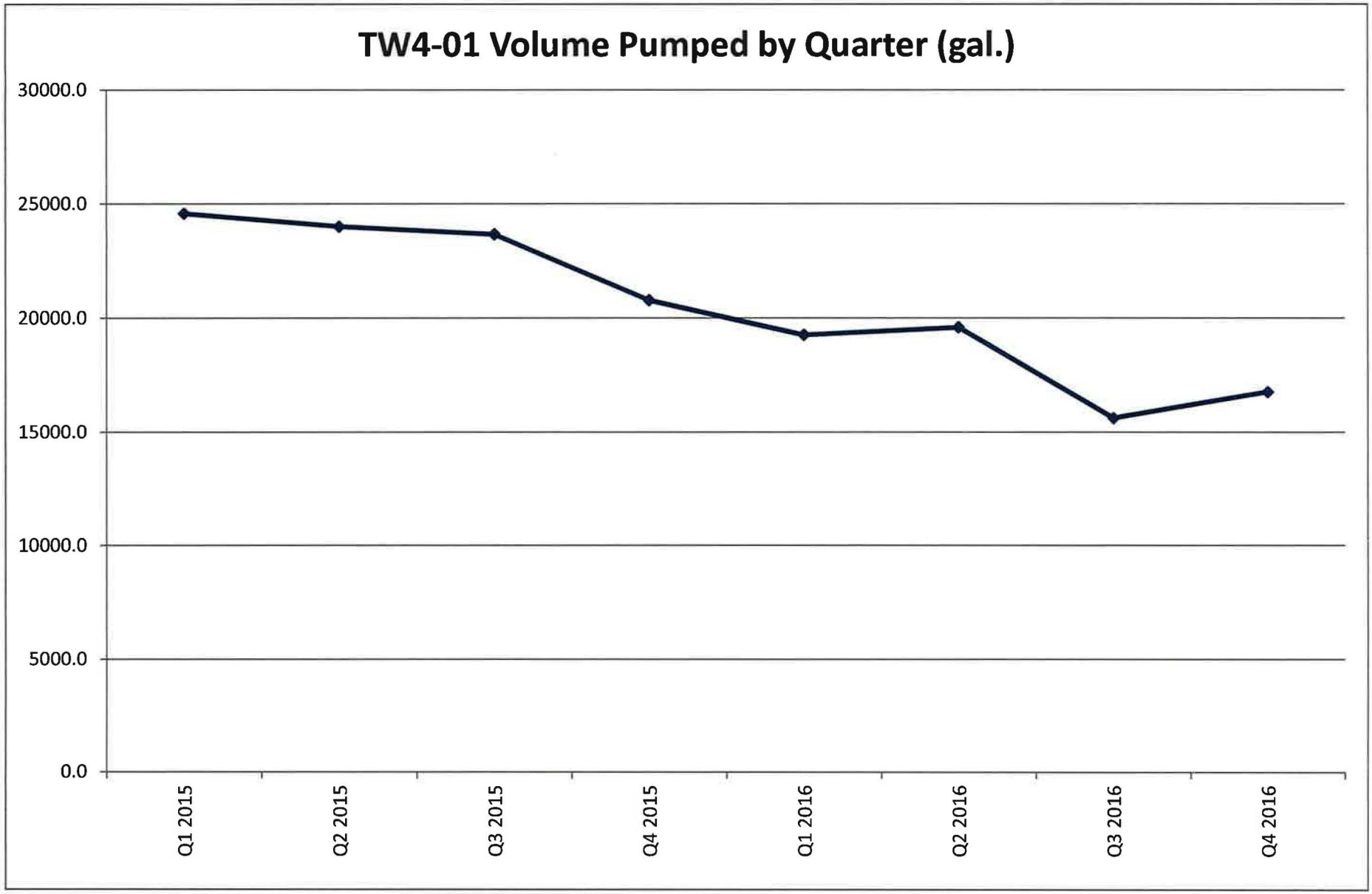


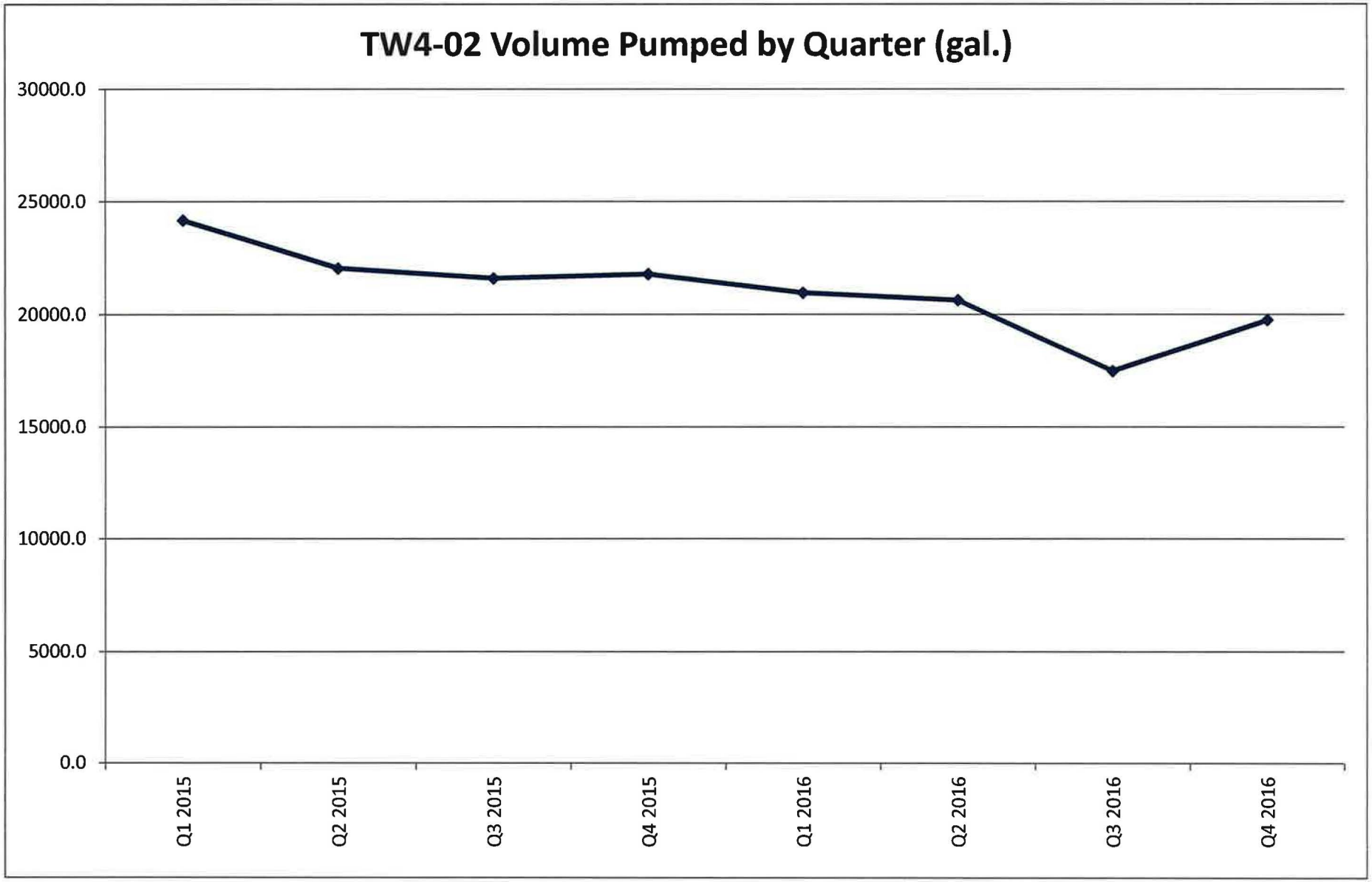
Q1 2007 represents the cumulative total prior to and including Q1 207.

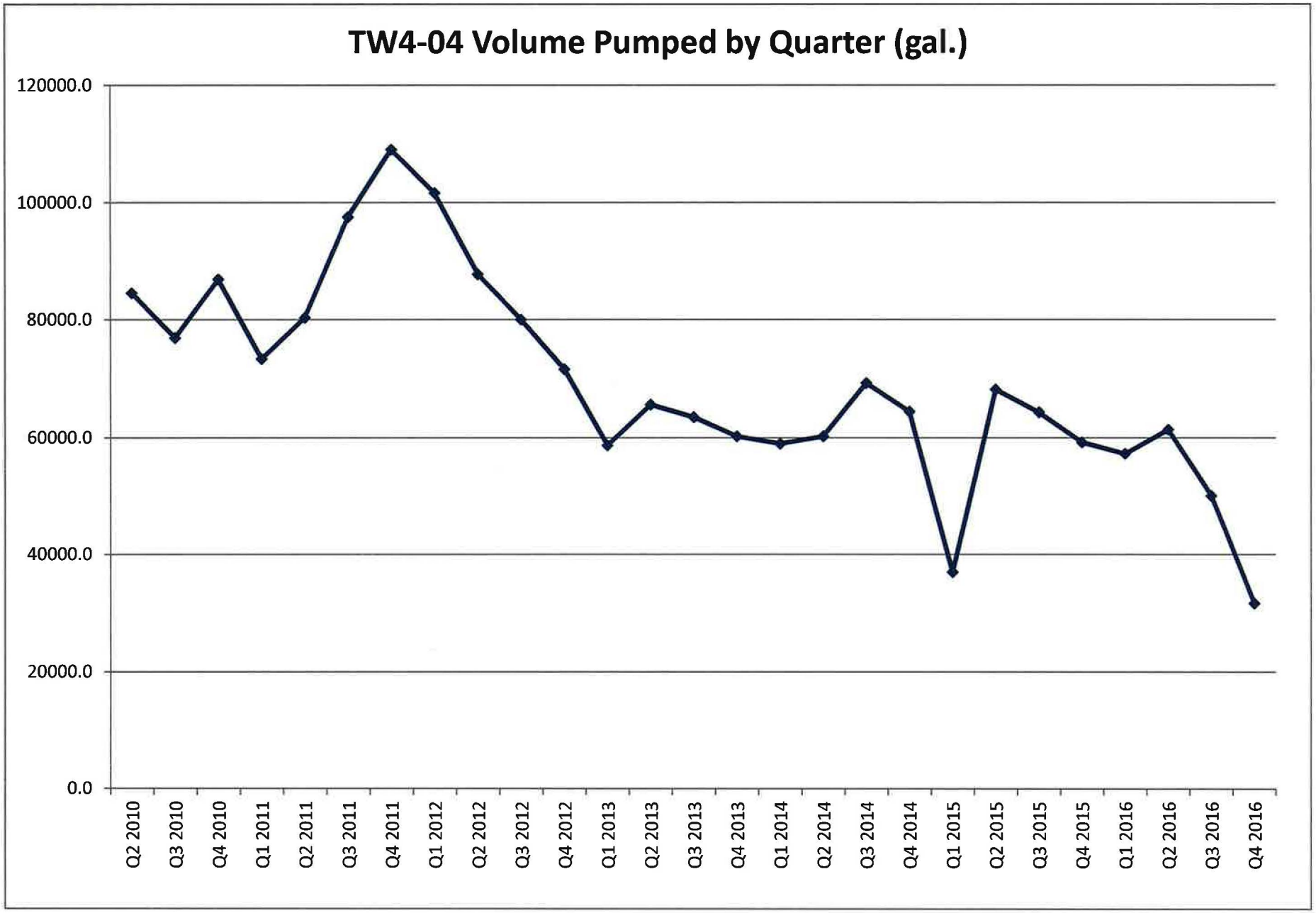

MW-04 Volume Pumped by Quarter (gal.)
1400000
1200000
1000000
800000
600000
400000
200000
0
Q1 2007
Q3 2007
Q1 2008
Q3 2008
Q1 2009
Q3 2009
Q1 2010
Q3 2010
Q1 2011
Q3 2011
Q1 2012
Q3 2012
Q1 2013
Q3 2013
Q1 2014
Q3 2014
Q1 2015
Q3 2015
Q1 2016
Q3 2016

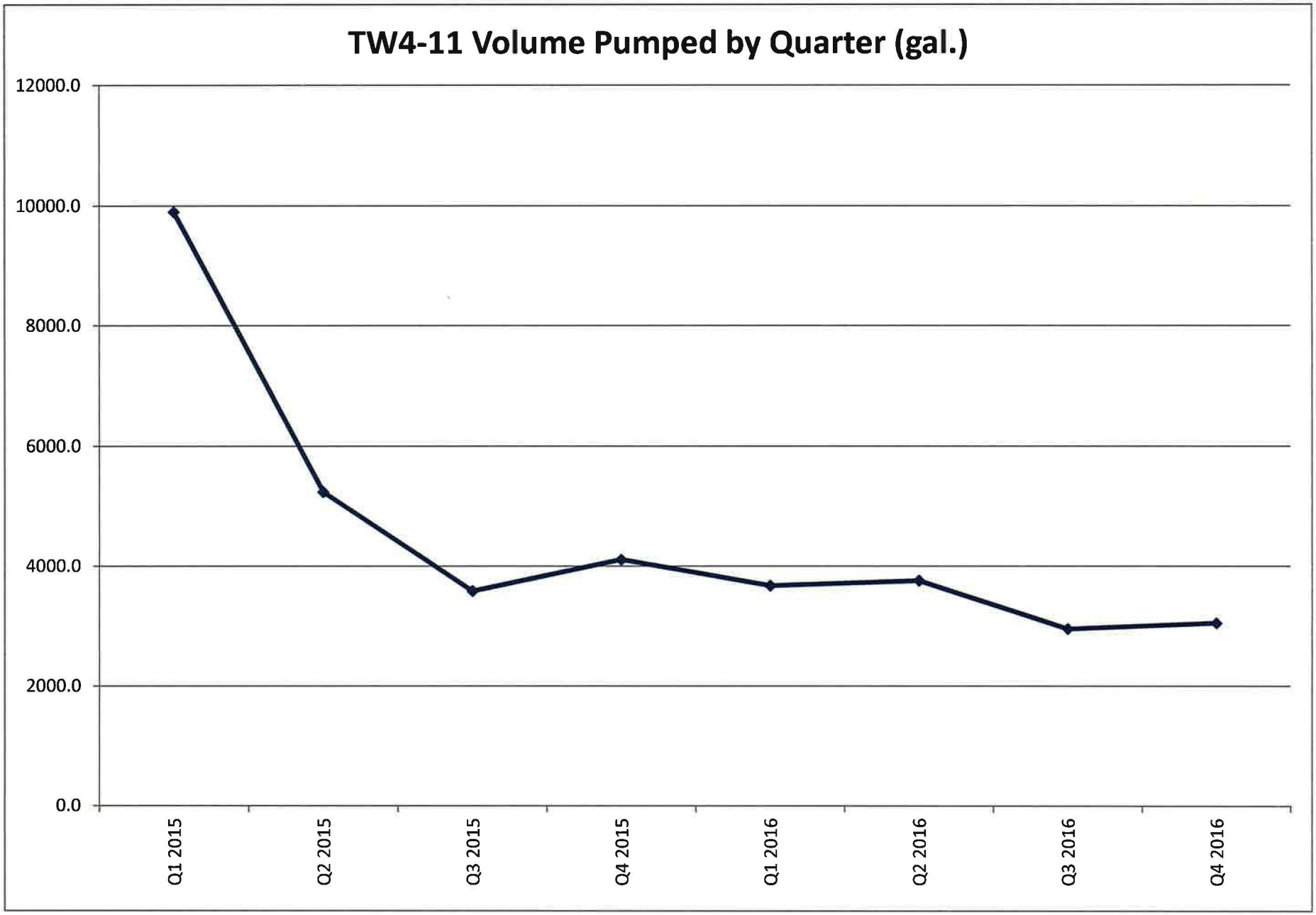


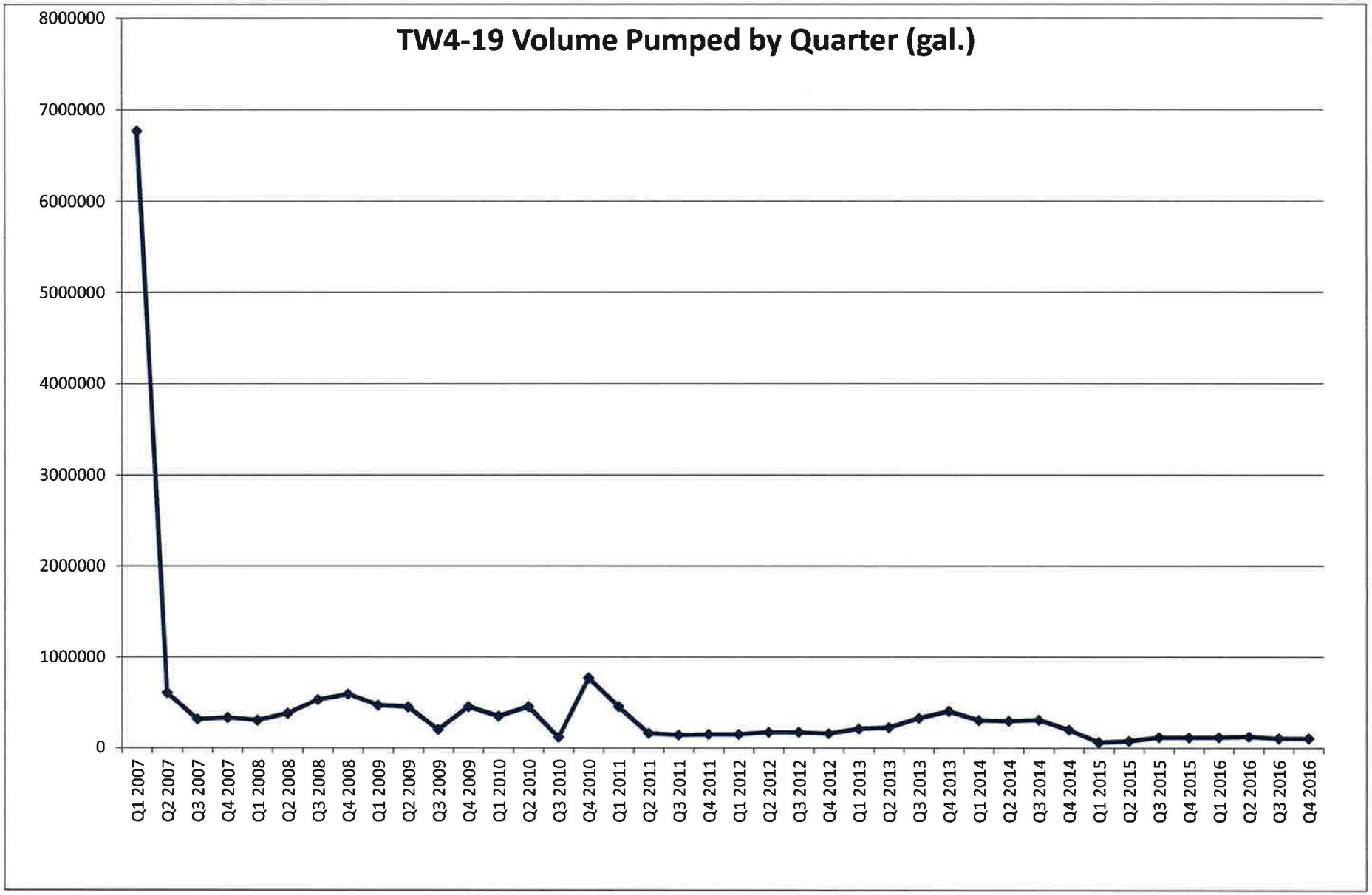
Q1 2007 represents the cumulative total prior to and including Q1 2007.


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
Q4 2016

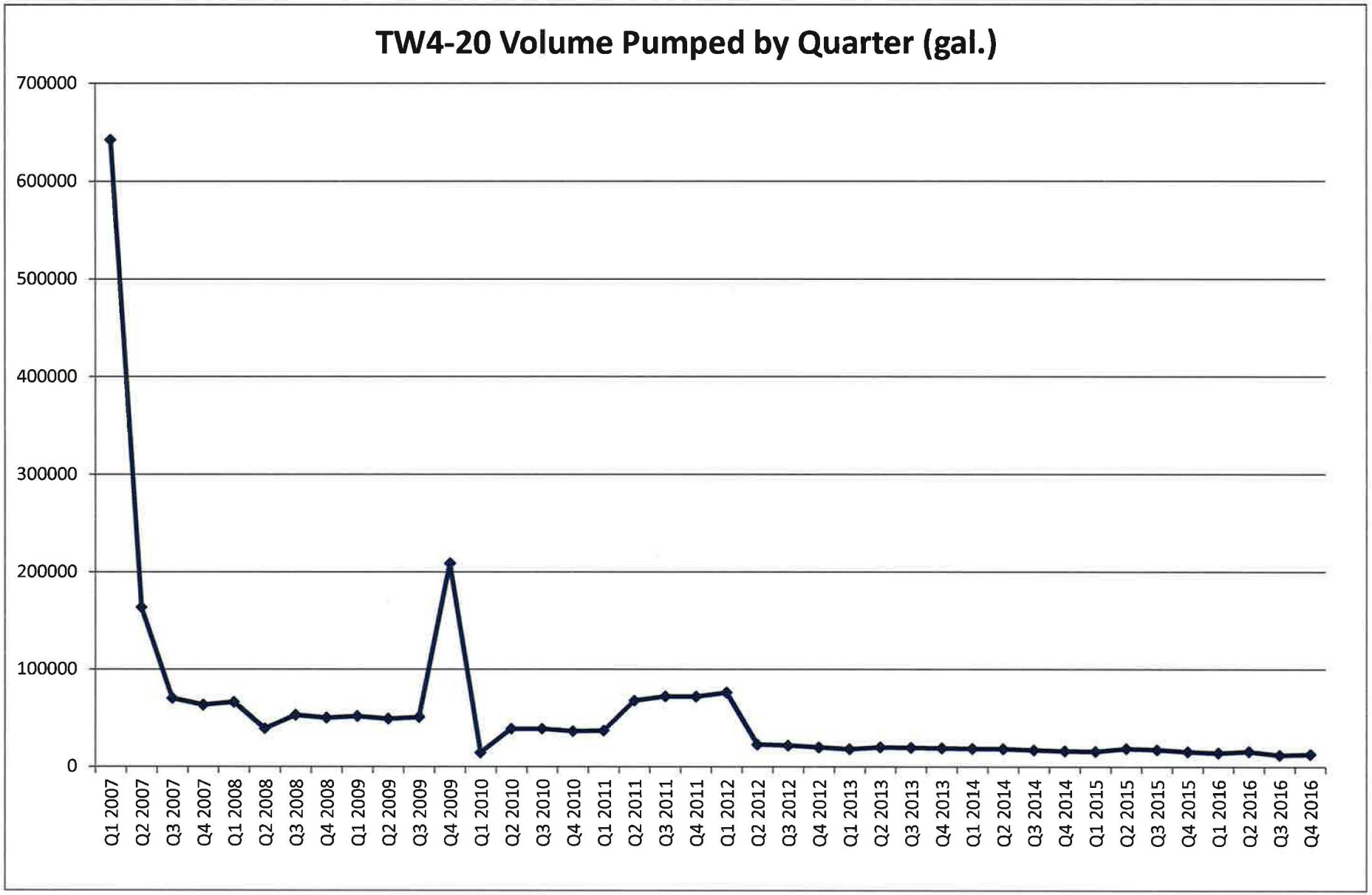

TW4-02 Volume Pumped by Quarter (gal.)
30000.0
25000.0
20000.0
15000.0
10000.0
5000.0
0.0
Q1 2015
Q2 2015
Q3 2015
Q4 2015
Q1 2016
Q2 2016
Q3 2016
Q4 2016


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
Q4 2016

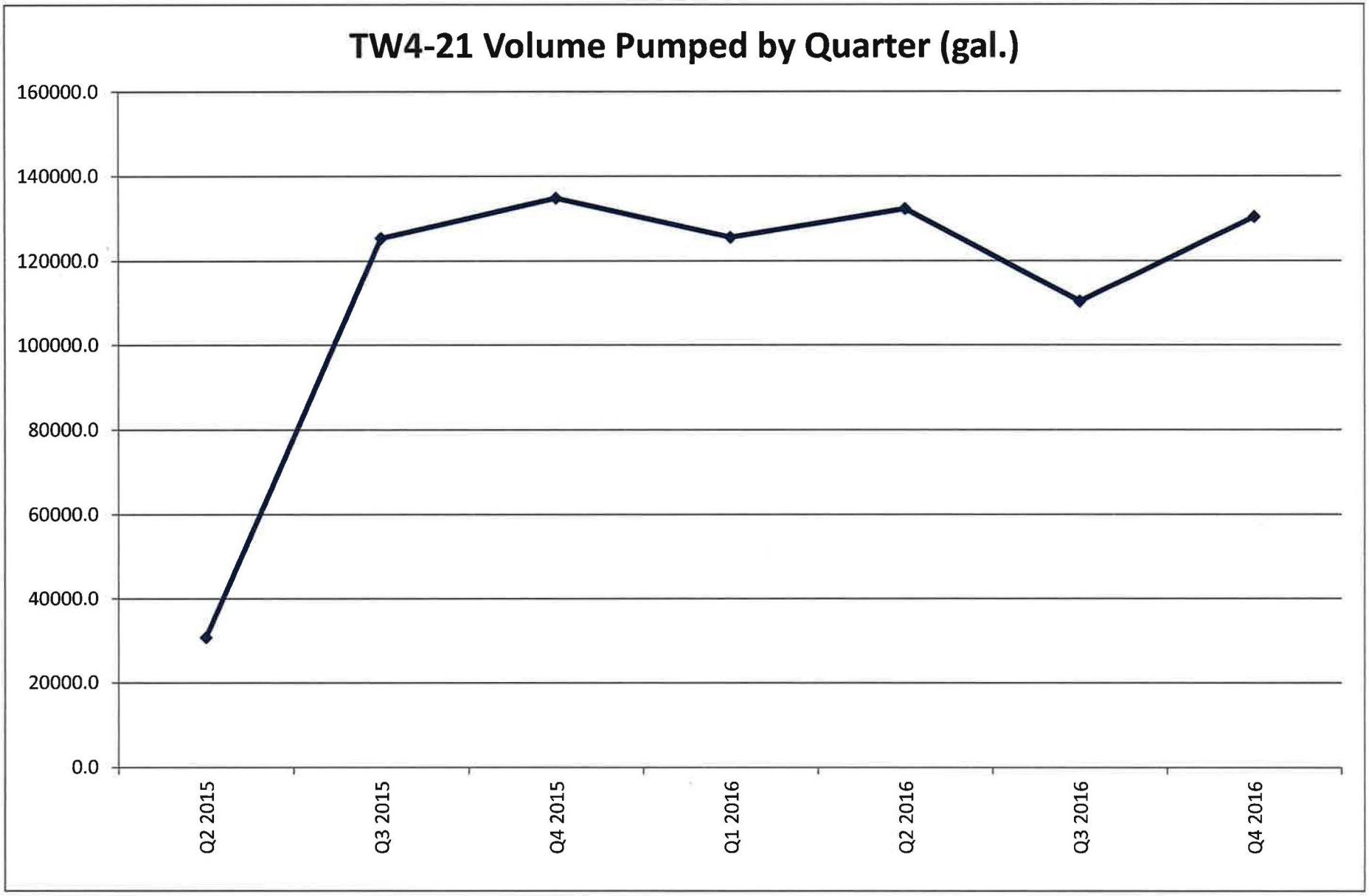

TW4-11 Volume Pumped by Quarter (gal.)
12000.0
10000.0
8000.0
6000.0
4000.0
2000.0
0.0
Q1 2015
Q2 2015
Q3 2015
Q4 2015
Q1 2016
Q2 2016
Q3 2016
Q4 2016

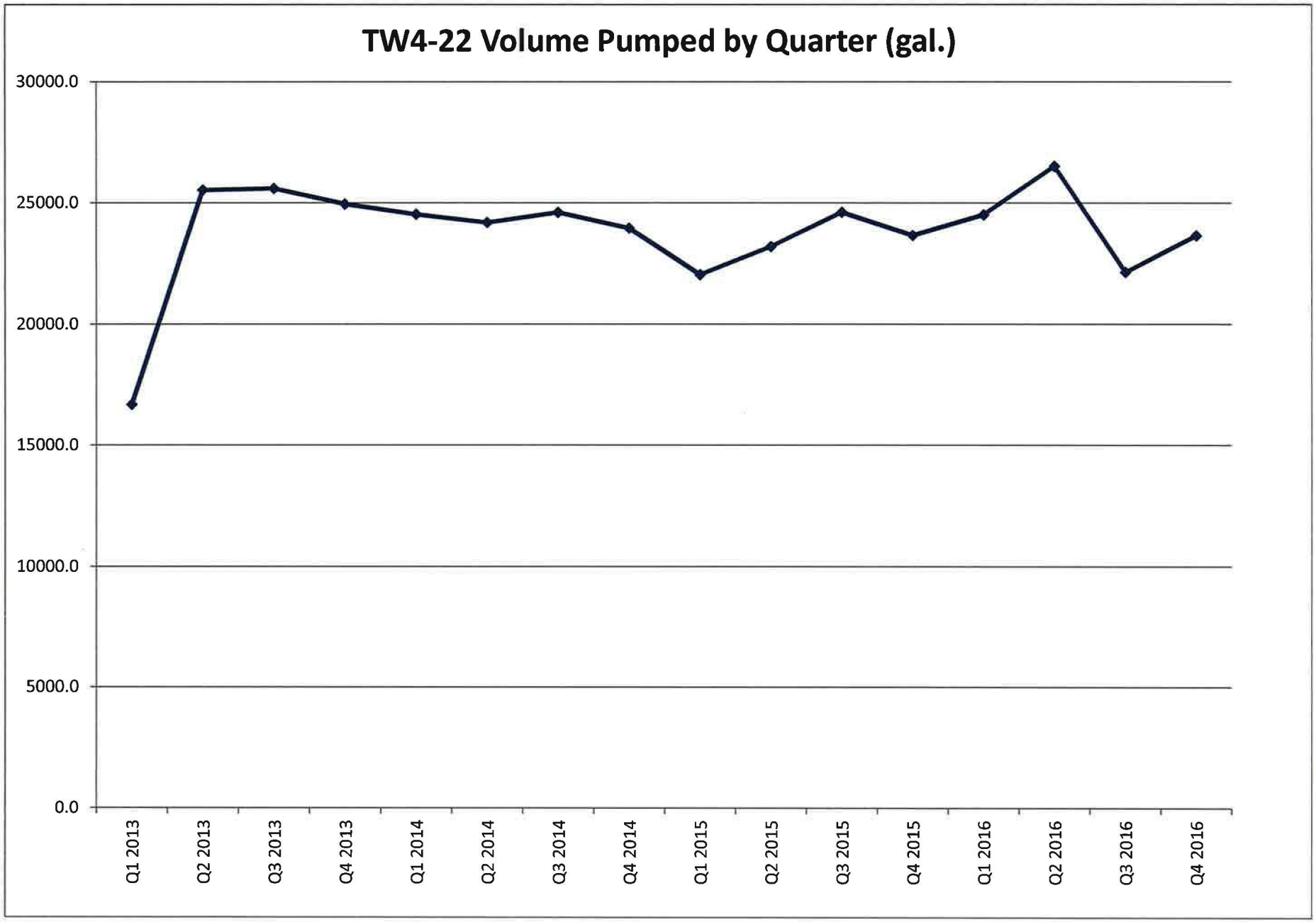


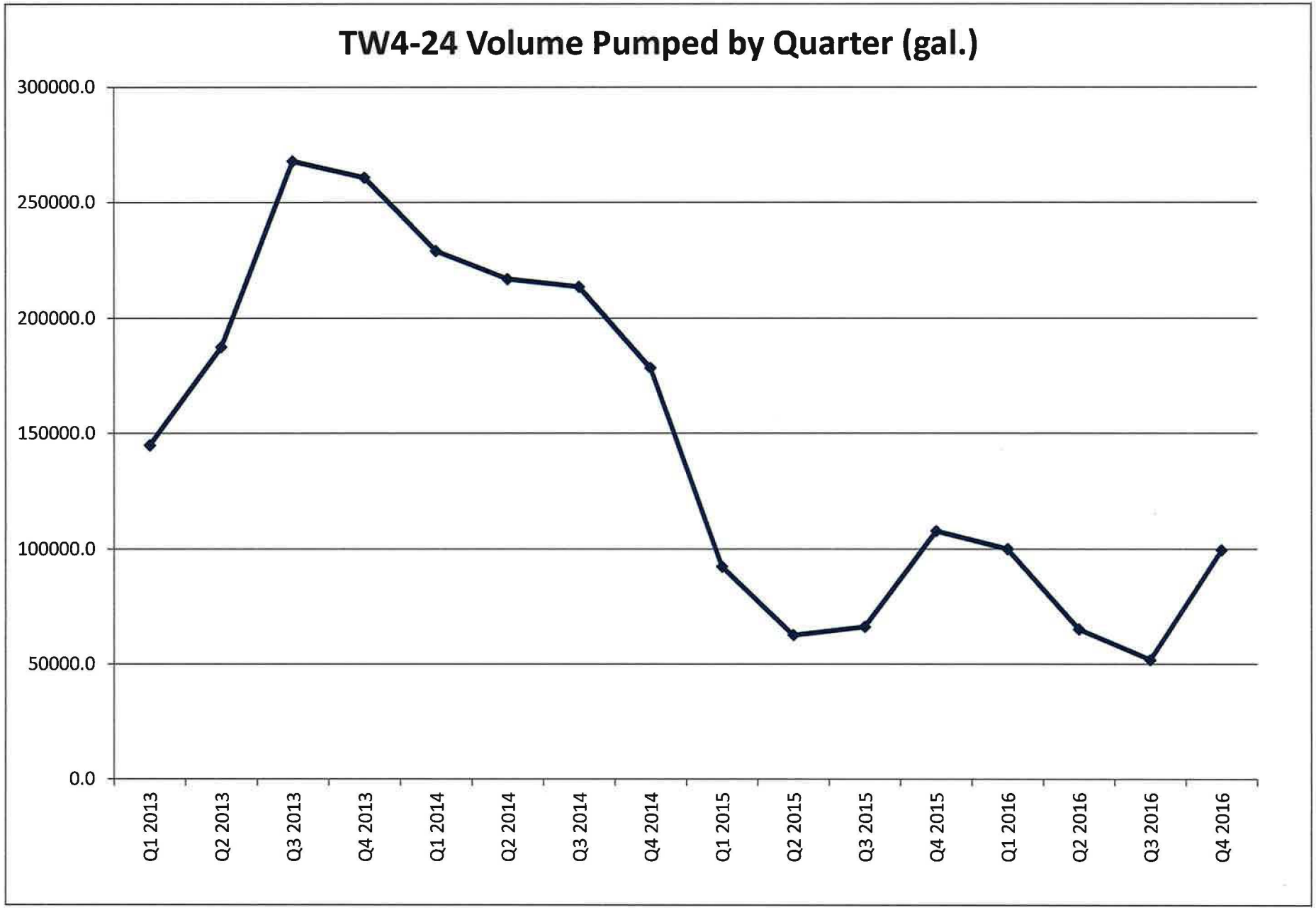
Q1 2007 represents the cumulative total prior to and including Q1 2007.

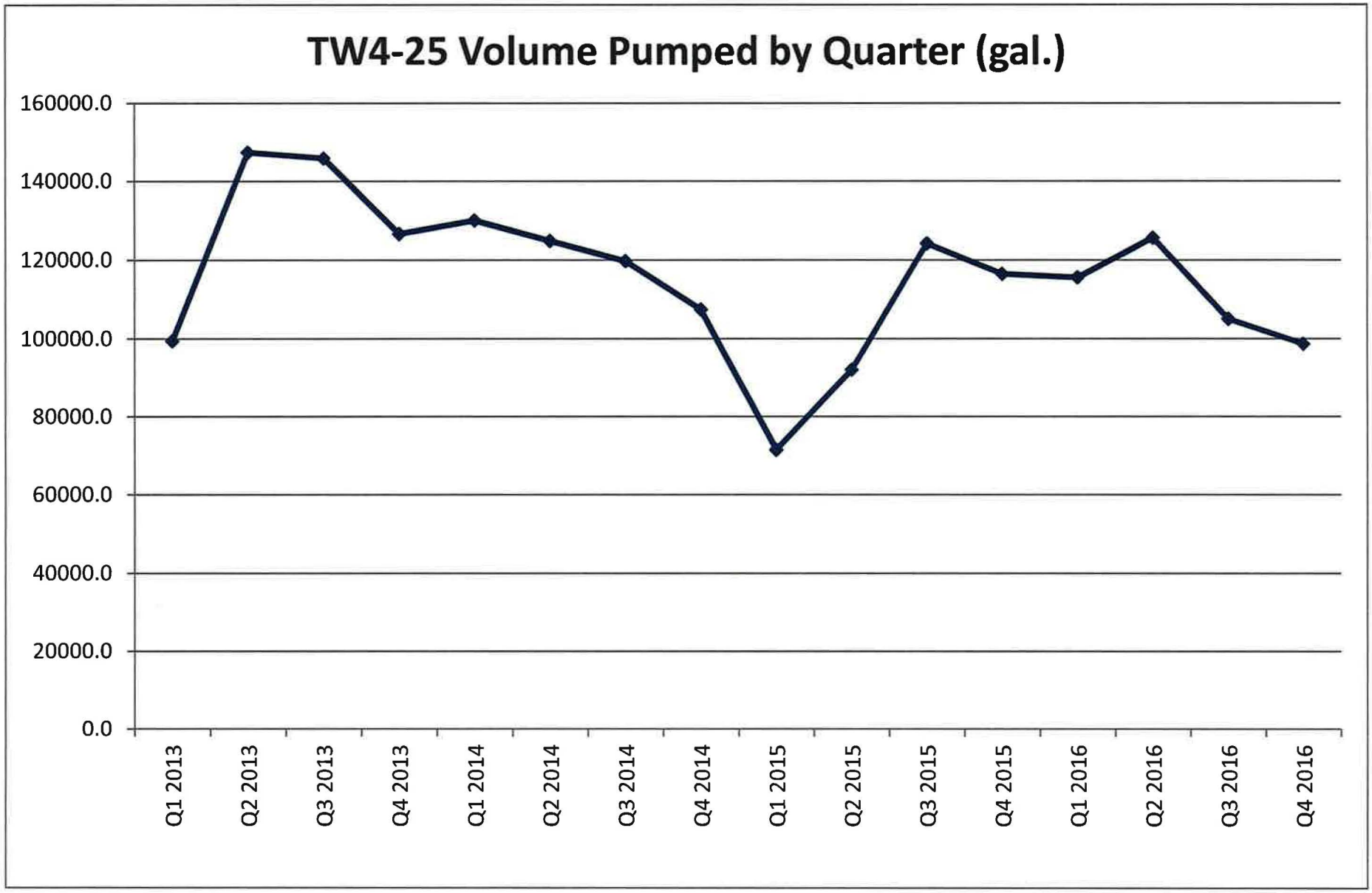


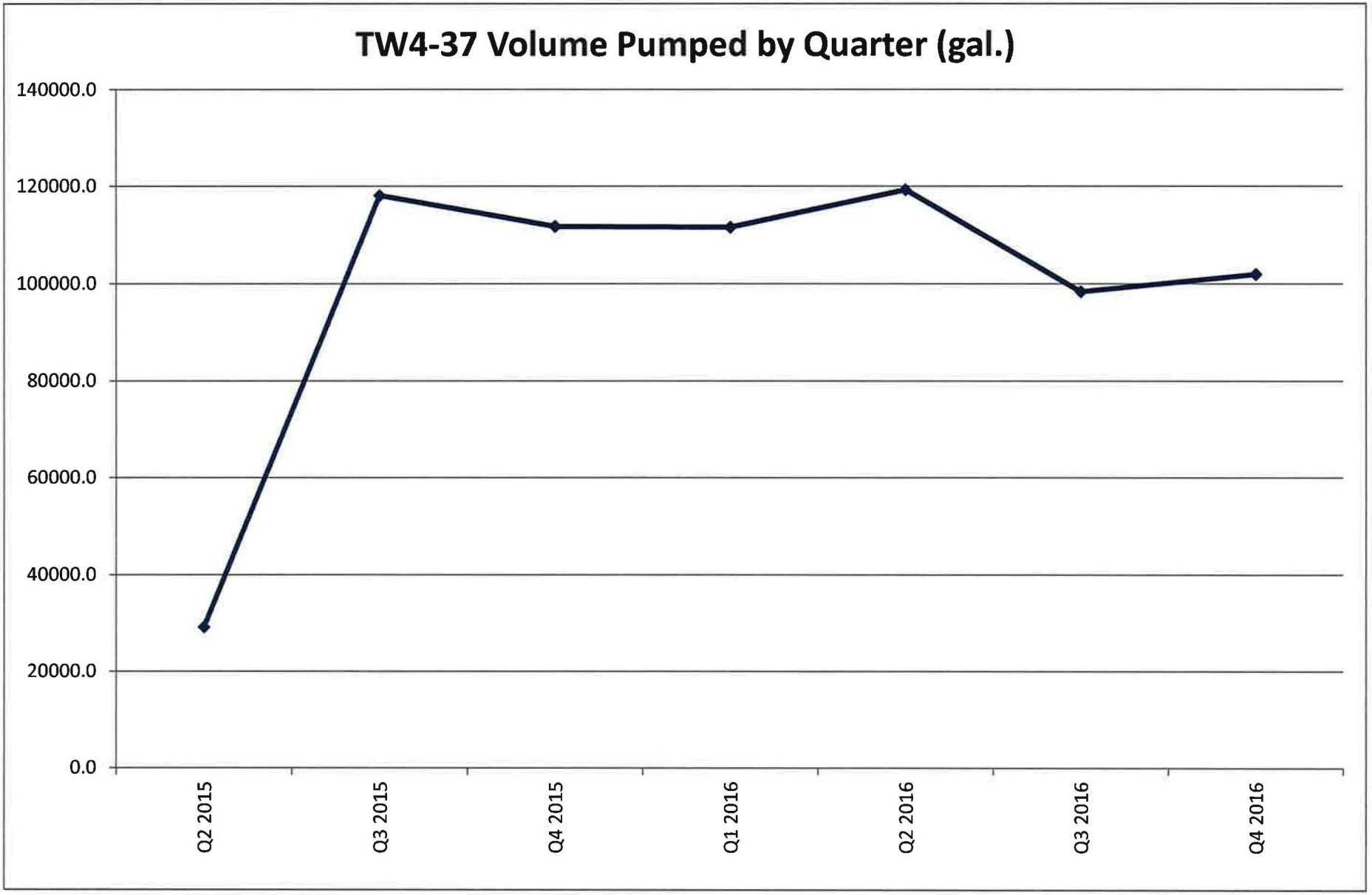
Q1 2007 represents the cumulative total prior to and including Q1 2007.

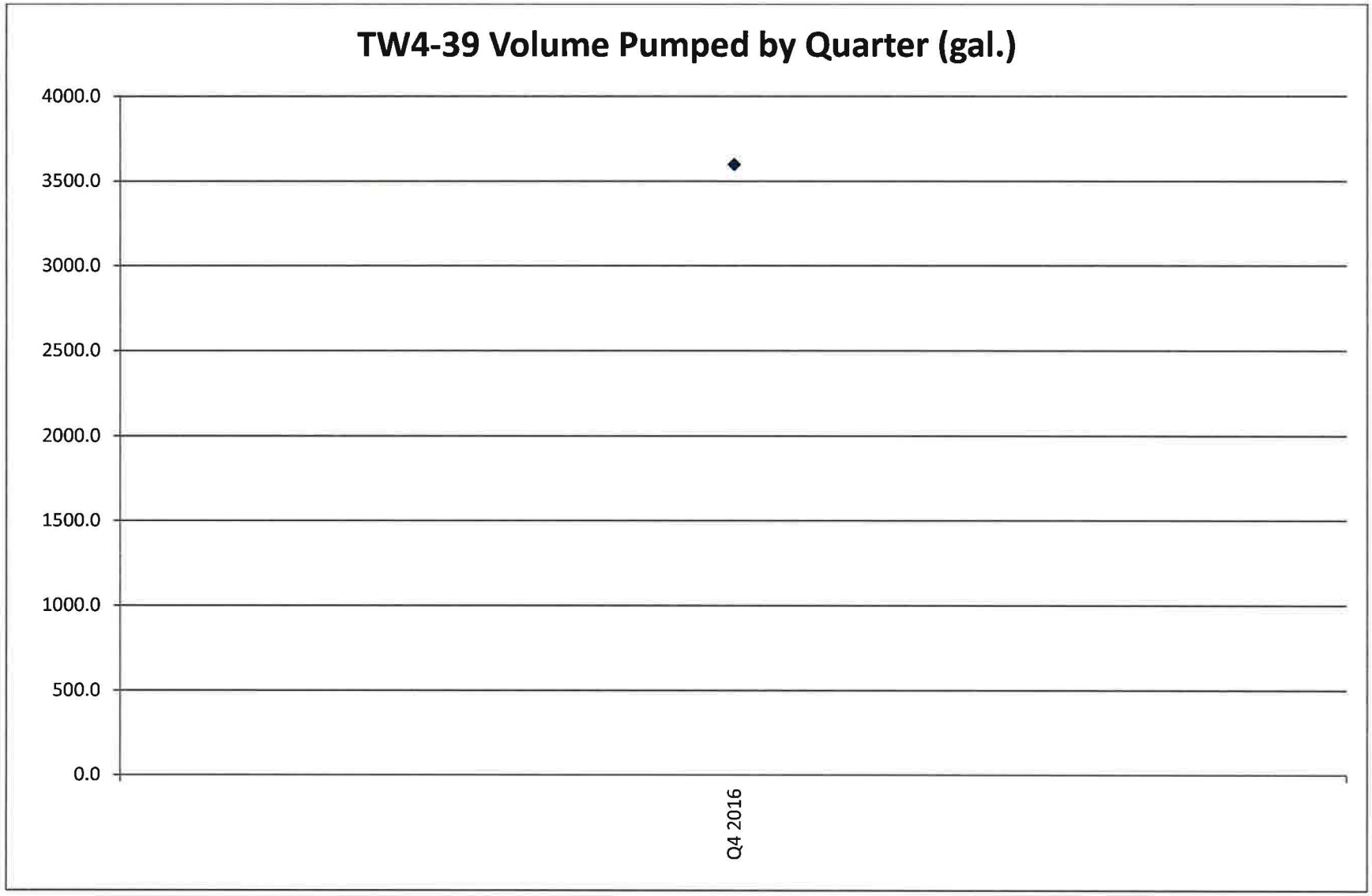

TW4-21 Volume Pumped by Quarter (gal.)
160000.0
140000.0
120000.0
100000.0
80000.0
60000.0
40000.0
20000.0
0.0
Q2 2015
Q3 2015
Q4 2015
Q1 2016
Q2 2016
Q3 2016
Q4 2016


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
Q4 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
Q4 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
Q4 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
Q4 2016


TW4-39 Volume Pumped by Quarter (gal.)
4000.0
3500.0
3000.0
2500.0
2000.0
1500.0
1000.0
500.0
0.0
Q4 2016

Tab H

Laboratory Analytical Reports

INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Chloroform 2016
Lab Sample ID: 1610270-006
Client Sample ID: MW-04_10122016
Collection Date: 10/12/2016 1441h
Received Date: 10/14/2016 1025h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		10/17/2016 2130h	E300.0	10.0	**44.8**	
Nitrate/Nitrite (as N)	mg/L		10/19/2016 1959h	E353.2	0.100	**4.88**	

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web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

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

ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Chloroform 2016
Lab Sample ID: 1610270-006C
Client Sample ID: MW-04_10122016
Collection Date: 10/12/2016 1441h
Received Date: 10/14/2016 1025h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 10/17/2016 1838h
Units: µg/L **Dilution Factor:** 50 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	50.0	**1,470**	~

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	2,760	2,500	111	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	2,540	2,500	102	80-152	
Surr: Dibromofluoromethane	1868-53-7	2,680	2,500	107	80-124	
Surr: Toluene-d8	2037-26-5	2,560	2,500	102	77-129	

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

Analyzed: 10/14/2016 1659h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	**1.24**	
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	51.3	50.00	103	80-152	
Surr: Dibromofluoromethane	1868-53-7	55.6	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: 4th Quarter Chloroform 2016
Lab Sample ID: 1610270-004
Client Sample ID: TW4-01_10132016
Collection Date: 10/13/2016 832h
Received Date: 10/14/2016 1025h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		10/17/2016 2056h	E300.0	10.0	**44.2**	
Nitrate/Nitrite (as N)	mg/L		10/19/2016 1956h	E353.2	0.100	**0.746**	

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Kyle F. Gross
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: 4th Quarter Chloroform 2016
Lab Sample ID: 1610270-004C
Client Sample ID: TW4-01_10132016
Collection Date: 10/13/2016 832h
Received Date: 10/14/2016 1025h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 10/17/2016 1720h
Units: µg/L **Dilution Factor:** 50 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	50.0	**1,330**	~

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	2,810	2,500	112	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	2,530	2,500	101	80-152	
Surr: Dibromofluoromethane	1868-53-7	2,700	2,500	108	80-124	
Surr: Toluene-d8	2037-26-5	2,550	2,500	102	77-129	

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

Analyzed: 10/14/2016 1619h
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	53.3	50.00	107	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	46.6	50.00	93.2	80-152	
Surr: Dibromofluoromethane	1868-53-7	52.6	50.00	105	80-124	
Surr: Toluene-d8	2037-26-5	48.9	50.00	97.8	77-129	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Chloroform 2016
Lab Sample ID: 1610270-007
Client Sample ID: TW4-02_10122016
Collection Date: 10/12/2016 1429h
Received Date: 10/14/2016 1025h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		10/17/2016 2147h	E300.0	10.0	**44.3**	
Nitrate/Nitrite (as N)	mg/L		10/19/2016 2000h	E353.2	0.100	**6.07**	

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Jose Rocha
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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Chloroform 2016
Lab Sample ID: 1610270-007C
Client Sample ID: TW4-02_10122016
Collection Date: 10/12/2016 1429h
Received Date: 10/14/2016 1025h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 10/17/2016 1858h
Units: µg/L **Dilution Factor:** 50 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	50.0	**1,600**	~

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	2,740	2,500	109	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	2,520	2,500	101	80-152	
Surr: Dibromofluoromethane	1868-53-7	2,680	2,500	107	80-124	
Surr: Toluene-d8	2037-26-5	2,520	2,500	101	77-129	

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

Analyzed: 10/14/2016 1719h
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	55.1	50.00	110	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	50.6	50.00	101	80-152	
Surr: Dibromofluoromethane	1868-53-7	54.8	50.00	110	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: 4th Quarter Chloroform 2016
Lab Sample ID: 1610431-003
Client Sample ID: TW4-03_10192016
Collection Date: 10/19/2016 747h
Received Date: 10/21/2016 1030h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		10/28/2016 1730h	E300.0	5.00	**29.5**	
Nitrate/Nitrite (as N)	mg/L		10/21/2016 1946h	E353.2	0.100	**6.00**	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Chloroform 2016
Lab Sample ID: 1610431-003C
Client Sample ID: TW4-03_10192016
Collection Date: 10/19/2016 747h
Received Date: 10/21/2016 1030h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 10/21/2016 1428h
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	56.0	50.00	112	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	52.2	50.00	104	80-152	
Surr: Dibromofluoromethane	1868-53-7	54.5	50.00	109	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: 4th Quarter Chloroform 2016
Lab Sample ID: 1610431-001
Client Sample ID: TW4-03R_10182016
Collection Date: 10/18/2016 758h
Received Date: 10/21/2016 1030h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		10/28/2016 1623h	E300.0	1.00	< 1.00	
Nitrate/Nitrite (as N)	mg/L		10/21/2016 1942h	E353.2	0.100	< 0.100	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Chloroform 2016
Lab Sample ID: 1610431-001C
Client Sample ID: TW4-03R_10182016
Collection Date: 10/18/2016 758h
Received Date: 10/21/2016 1030h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 10/21/2016 1348h
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	52.8	50.00	106	80-152	
Surr: Dibromofluoromethane	1868-53-7	53.9	50.00	108	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: 4th Quarter Chloroform 2016
Lab Sample ID: 1610270-005
Client Sample ID: TW4-04_10132016
Collection Date: 10/13/2016 841h
Received Date: 10/14/2016 1025h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		10/17/2016 2113h	E300.0	10.0	**42.3**	
Nitrate/Nitrite (as N)	mg/L		10/19/2016 1958h	E353.2	0.100	**6.77**	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Chloroform 2016
Lab Sample ID: 1610270-005C
Client Sample ID: TW4-04_10132016
Collection Date: 10/13/2016 841h
Received Date: 10/14/2016 1025h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 10/17/2016 1819h
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	2,720	2,500	109	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	2,540	2,500	102	80-152	
Surr: Dibromofluoromethane	1868-53-7	2,630	2,500	105	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: 10/14/2016 1639h
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	51.7	50.00	103	80-152	
Surr: Dibromofluoromethane	1868-53-7	55.4	50.00	111	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: 4th Quarter Chloroform 2016
Lab Sample ID: 1610561-001
Client Sample ID: TW4-05_10262016
Collection Date: 10/26/2016 838h
Received Date: 10/28/2016 1010h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		11/4/2016 1827h	E300.0	10.0	**47.8**	
Nitrate/Nitrite (as N)	mg/L		10/31/2016 1805h	E353.2	0.100	**8.32**	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Chloroform 2016
Lab Sample ID: 1610561-001C
Client Sample ID: TW4-05_10262016
Collection Date: 10/26/2016 838h
Received Date: 10/28/2016 1010h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 10/28/2016 1651h
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	**9.90**	
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	46.7	50.00	93.3	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	51.7	50.00	103	80-152	
Surr: Dibromofluoromethane	1868-53-7	42.6	50.00	85.3	80-124	
Surr: Toluene-d8	2037-26-5	46.9	50.00	93.7	77-129	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Chloroform 2016
Lab Sample ID: 1610561-007
Client Sample ID: TW4-06_10262016
Collection Date: 10/26/2016 943h
Received Date: 10/28/2016 1010h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		11/7/2016 1338h	E300.0	10.0	**46.1**	
Nitrate/Nitrite (as N)	mg/L		10/31/2016 1815h	E353.2	0.100	**3.74**	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Chloroform 2016
Lab Sample ID: 1610561-007C
Client Sample ID: TW4-06_10262016
Collection Date: 10/26/2016 943h
Received Date: 10/28/2016 1010h
Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 10/31/2016 2148h
Units: µg/L **Dilution Factor:** 10 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	10.0	**301**	~

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	488	500.0	97.7	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	460	500.0	92.0	80-152	
Surr: Dibromofluoromethane	1868-53-7	481	500.0	96.1	80-124	
Surr: Toluene-d8	2037-26-5	458	500.0	91.6	77-129	

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

Analyzed: 10/28/2016 1930h
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	59.0	50.00	118	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	50.5	50.00	101	80-152	
Surr: Dibromofluoromethane	1868-53-7	51.1	50.00	102	80-124	
Surr: Toluene-d8	2037-26-5	43.6	50.00	87.1	77-129	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Chloroform 2016
Lab Sample ID: 1610561-009
Client Sample ID: TW4-07_10272016
Collection Date: 10/27/2016 846h
Received Date: 10/28/2016 1010h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		11/7/2016 1355h	E300.0	10.0	**45.8**	
Nitrate/Nitrite (as N)	mg/L		10/31/2016 1817h	E353.2	0.100	**4.33**	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Chloroform 2016
Lab Sample ID: 1610561-009C
Client Sample ID: TW4-07_10272016
Collection Date: 10/27/2016 846h
Received Date: 10/28/2016 1010h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 10/31/2016 2227h
Units: µg/L **Dilution Factor:** 10 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	10.0	**886**	~

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	475	500.0	95.0	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	434	500.0	86.9	80-152	
Surr: Dibromofluoromethane	1868-53-7	473	500.0	94.5	80-124	
Surr: Toluene-d8	2037-26-5	441	500.0	88.2	77-129	

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

Analyzed: 10/28/2016 2010h
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	51.4	50.00	103	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	49.6	50.00	99.2	80-152	
Surr: Dibromofluoromethane	1868-53-7	46.6	50.00	93.1	80-124	
Surr: Toluene-d8	2037-26-5	43.5	50.00	87.1	77-129	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Chloroform 2016
Lab Sample ID: 1610561-008
Client Sample ID: TW4-08_10272016
Collection Date: 10/27/2016 842h
Received Date: 10/28/2016 1010h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		11/7/2016 1705h	E300.0	10.0	**60.1**	
Nitrate/Nitrite (as N)	mg/L		10/31/2016 1816h	E353.2	0.100	**2.16**	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Chloroform 2016
Lab Sample ID: 1610561-008C
Client Sample ID: TW4-08_10272016
Collection Date: 10/27/2016 842h
Received Date: 10/28/2016 1010h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 10/31/2016 2208h
Units: µg/L **Dilution Factor:** 10 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	10.0	**472**	~

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	490	500.0	98.1	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	426	500.0	85.2	80-152	
Surr: Dibromofluoromethane	1868-53-7	483	500.0	96.6	80-124	
Surr: Toluene-d8	2037-26-5	445	500.0	89.0	77-129	

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

Analyzed: 10/28/2016 1950h
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	55.0	50.00	110	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	51.0	50.00	102	80-152	
Surr: Dibromofluoromethane	1868-53-7	50.3	50.00	101	80-124	
Surr: Toluene-d8	2037-26-5	46.0	50.00	91.9	77-129	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Chloroform 2016
Lab Sample ID: 1610561-012
Client Sample ID: TW4-08R_10262016
Collection Date: 10/26/2016 1003h
Received Date: 10/28/2016 1010h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		11/4/2016 1415h	E300.0	1.00	< 1.00	
Nitrate/Nitrite (as N)	mg/L		10/31/2016 1819h	E353.2	0.100	< 0.100	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Chloroform 2016
Lab Sample ID: 1610561-012C
Client Sample ID: TW4-08R_10262016
Collection Date: 10/26/2016 1003h
Received Date: 10/28/2016 1010h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 10/31/2016 2109h
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	**2.04**	
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	48.6	50.00	97.2	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	45.5	50.00	91.1	80-152	
Surr: Dibromofluoromethane	1868-53-7	48.1	50.00	96.2	80-124	
Surr: Toluene-d8	2037-26-5	45.5	50.00	90.9	77-129	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Chloroform 2016
Lab Sample ID: 1610561-004
Client Sample ID: TW4-09_10262016
Collection Date: 10/26/2016 909h
Received Date: 10/28/2016 1010h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		11/7/2016 1214h	E300.0	10.0	**37.4**	
Nitrate/Nitrite (as N)	mg/L		10/31/2016 1810h	E353.2	0.100	**2.24**	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Chloroform 2016
Lab Sample ID: 1610561-004C
Client Sample ID: TW4-09_10262016
Collection Date: 10/26/2016 909h
Received Date: 10/28/2016 1010h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 10/28/2016 1831h
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	**76.0**	
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	51.5	50.00	103	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	47.8	50.00	95.6	80-152	
Surr: Dibromofluoromethane	1868-53-7	47.1	50.00	94.1	80-124	
Surr: Toluene-d8	2037-26-5	43.8	50.00	87.5	77-129	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Chloroform 2016
Lab Sample ID: 1610561-010
Client Sample ID: TW4-10_10272016
Collection Date: 10/27/2016 852h
Received Date: 10/28/2016 1010h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		11/7/2016 1412h	E300.0	10.0	**84.4**	
Nitrate/Nitrite (as N)	mg/L		10/31/2016 1818h	E353.2	0.100	**14.8**	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Chloroform 2016
Lab Sample ID: 1610561-010C
Client Sample ID: TW4-10_10272016
Collection Date: 10/27/2016 852h
Received Date: 10/28/2016 1010h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 11/3/2016 1221h
Units: µg/L **Dilution Factor:** 50 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	50.0	**1,290**	~

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	2,600	2,500	104	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	2,500	2,500	99.9	80-152	
Surr: Dibromofluoromethane	1868-53-7	2,660	2,500	107	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: 10/28/2016 2030h
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	54.4	50.00	109	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	51.3	50.00	103	80-152	
Surr: Dibromofluoromethane	1868-53-7	52.6	50.00	105	80-124	
Surr: Toluene-d8	2037-26-5	47.2	50.00	94.3	77-129	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Chloroform 2016
Lab Sample ID: 1610270-009
Client Sample ID: TW4-11_10122016
Collection Date: 10/12/2016 1421h
Received Date: 10/14/2016 1025h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		10/17/2016 2221h	E300.0	10.0	**57.2**	
Nitrate/Nitrite (as N)	mg/L		10/19/2016 2007h	E353.2	0.100	**8.92**	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Chloroform 2016
Lab Sample ID: 1610270-009C
Client Sample ID: TW4-11_10122016
Collection Date: 10/12/2016 1421h
Received Date: 10/14/2016 1025h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 10/17/2016 1937h
Units: µg/L **Dilution Factor:** 50 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	50.0	**3,180**	~

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	2,510	2,500	101	80-152	
Surr: Dibromofluoromethane	1868-53-7	2,700	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: 10/14/2016 1759h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	**1.58**	
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	50.8	50.00	102	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	44.3	50.00	88.6	80-152	
Surr: Dibromofluoromethane	1868-53-7	50.3	50.00	101	80-124	
Surr: Toluene-d8	2037-26-5	47.2	50.00	94.4	77-129	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Chloroform 2016
Lab Sample ID: 1610431-004
Client Sample ID: TW4-12_10192016
Collection Date: 10/19/2016 754h
Received Date: 10/21/2016 1030h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		10/28/2016 1747h	E300.0	10.0	**72.6**	
Nitrate/Nitrite (as N)	mg/L		10/21/2016 2055h	E353.2	0.500	**25.8**	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Chloroform 2016
Lab Sample ID: 1610431-004C
Client Sample ID: TW4-12_10192016
Collection Date: 10/19/2016 754h
Received Date: 10/21/2016 1030h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 10/21/2016 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	56.3	50.00	113	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	52.6	50.00	105	80-152	
Surr: Dibromofluoromethane	1868-53-7	55.2	50.00	110	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: 4th Quarter Chloroform 2016
Lab Sample ID: 1610431-007
Client Sample ID: TW4-13_10192016
Collection Date: 10/19/2016 811h
Received Date: 10/21/2016 1030h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		10/28/2016 1912h	E300.0	10.0	**70.9**	
Nitrate/Nitrite (as N)	mg/L		10/21/2016 1956h	E353.2	0.100	**6.20**	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Chloroform 2016
Lab Sample ID: 1610431-007C
Client Sample ID: TW4-13_10192016
Collection Date: 10/19/2016 811h
Received Date: 10/21/2016 1030h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 10/21/2016 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	< 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	56.1	50.00	112	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	48.6	50.00	97.2	80-152	
Surr: Dibromofluoromethane	1868-53-7	53.8	50.00	108	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: 4th Quarter Chloroform 2016
Lab Sample ID: 1610431-014
Client Sample ID: TW4-14_10202016
Collection Date: 10/20/2016 953h
Received Date: 10/21/2016 1030h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		10/28/2016 2143h	E300.0	5.00	**45.6**	
Nitrate/Nitrite (as N)	mg/L		10/21/2016 2033h	E353.2	0.100	**2.86**	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Chloroform 2016
Lab Sample ID: 1610431-014C
Client Sample ID: TW4-14_10202016
Collection Date: 10/20/2016 953h
Received Date: 10/21/2016 1030h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 10/21/2016 1844h
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	**7.02**	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	**1.59**	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	57.2	50.00	114	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	51.0	50.00	102	80-152	
Surr: Dibromofluoromethane	1868-53-7	54.7	50.00	109	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: 4th Quarter Chloroform 2016
Lab Sample ID: 1610270-008
Client Sample ID: MW-26_10122016
Collection Date: 10/12/2016 1413h
Received Date: 10/14/2016 1025h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		10/17/2016 2204h	E300.0	10.0	**66.2**	
Nitrate/Nitrite (as N)	mg/L		10/19/2016 2001h	E353.2	0.100	**1.18**	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Chloroform 2016
Lab Sample ID: 1610270-008C
Client Sample ID: MW-26_10122016
Collection Date: 10/12/2016 1413h
Received Date: 10/14/2016 1025h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 10/17/2016 1918h
Units: µg/L **Dilution Factor:** 50 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	50.0	**2,510**	~

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	2,780	2,500	111	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	2,560	2,500	102	80-152	
Surr: Dibromofluoromethane	1868-53-7	2,700	2,500	108	80-124	
Surr: Toluene-d8	2037-26-5	2,540	2,500	101	77-129	

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

Analyzed: 10/14/2016 1739h
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	**4.31**	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	54.1	50.00	108	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	51.2	50.00	102	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: 4th Quarter Chloroform 2016
Lab Sample ID: 1610561-002
Client Sample ID: TW4-16_10262016
Collection Date: 10/26/2016 853h
Received Date: 10/28/2016 1010h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		11/7/2016 1140h	E300.0	10.0	**66.7**	
Nitrate/Nitrite (as N)	mg/L		10/31/2016 1808h	E353.2	0.100	**2.78**	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Chloroform 2016
Lab Sample ID: 1610561-002C
Client Sample ID: TW4-16_10262016
Collection Date: 10/26/2016 853h
Received Date: 10/28/2016 1010h
Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 10/28/2016 1711h
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	**92.9**	
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	51.6	50.00	103	80-152	
Surr: Dibromofluoromethane	1868-53-7	51.5	50.00	103	80-124	
Surr: Toluene-d8	2037-26-5	42.9	50.00	85.7	77-129	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Chloroform 2016
Lab Sample ID: 1611111-001
Client Sample ID: MW-32_10312016
Collection Date: 10/31/2016 1330h
Received Date: 11/4/2016 1025h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		11/9/2016 2326h	E300.0	10.0	**36.9**	
Nitrate/Nitrite (as N)	mg/L		11/7/2016 1223h	E353.2	0.100	< 0.100	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Chloroform 2016
Lab Sample ID: 1611111-001C
Client Sample ID: MW-32_10312016
Collection Date: 10/31/2016 1330h
Received Date: 11/4/2016 1025h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 11/7/2016 1146h
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	52.8	50.00	106	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	49.1	50.00	98.3	80-152	
Surr: Dibromofluoromethane	1868-53-7	58.7	50.00	117	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: 4th Quarter Chloroform 2016
Lab Sample ID: 1610561-003
Client Sample ID: TW4-18_10262016
Collection Date: 10/26/2016 902h
Received Date: 10/28/2016 1010h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		11/7/2016 1157h	E300.0	10.0	**43.9**	
Nitrate/Nitrite (as N)	mg/L		10/31/2016 1809h	E353.2	0.100	**5.24**	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Chloroform 2016
Lab Sample ID: 1610561-003C
Client Sample ID: TW4-18_10262016
Collection Date: 10/26/2016 902h
Received Date: 10/28/2016 1010h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 10/28/2016 1811h
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	**60.1**	
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	51.7	50.00	103	80-152	
Surr: Dibromofluoromethane	1868-53-7	51.9	50.00	104	80-124	
Surr: Toluene-d8	2037-26-5	49.0	50.00	98.0	77-129	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Chloroform 2016
Lab Sample ID: 1610270-011
Client Sample ID: TW4-19_10132016
Collection Date: 10/13/2016 910h
Received Date: 10/14/2016 1025h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		10/17/2016 2328h	E300.0	100	**200**	
Nitrate/Nitrite (as N)	mg/L		10/19/2016 2012h	E353.2	0.100	**10.0**	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Chloroform 2016
Lab Sample ID: 1610270-011C
Client Sample ID: TW4-19_10132016
Collection Date: 10/13/2016 910h
Received Date: 10/14/2016 1025h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 10/17/2016 2017h
Units: µg/L **Dilution Factor:** 100 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	100	**6,640**	~

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	5,060	5,000	101	80-152	
Surr: Dibromofluoromethane	1868-53-7	5,390	5,000	108	80-124	
Surr: Toluene-d8	2037-26-5	5,080	5,000	102	77-129	

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

Analyzed: 10/17/2016 1541h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	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	54.5	50.00	109	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	50.2	50.00	100	80-152	
Surr: Dibromofluoromethane	1868-53-7	53.4	50.00	107	80-124	
Surr: Toluene-d8	2037-26-5	49.9	50.00	99.8	77-129	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Chloroform 2016
Lab Sample ID: 1610270-013
Client Sample ID: TW4-20_10122016
Collection Date: 10/12/2016 1405h
Received Date: 10/14/2016 1025h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		10/18/2016 002h	E300.0	100	**301**	
Nitrate/Nitrite (as N)	mg/L		10/19/2016 2014h	E353.2	0.100	**11.4**	

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Jose Rocha
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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Chloroform 2016
Lab Sample ID: 1610270-013C
Client Sample ID: TW4-20_10122016
Collection Date: 10/12/2016 1405h
Received Date: 10/14/2016 1025h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 10/17/2016 2056h
Units: µg/L **Dilution Factor:** 500 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	500	**21,300**	~

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	27,700	25,000	111	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	25,900	25,000	104	80-152	
Surr: Dibromofluoromethane	1868-53-7	27,200	25,000	109	80-124	
Surr: Toluene-d8	2037-26-5	25,900	25,000	104	77-129	

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

Analyzed: 10/17/2016 1621h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	**24.4**	
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	54.1	50.00	108	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	50.2	50.00	100	80-152	
Surr: Dibromofluoromethane	1868-53-7	52.8	50.00	106	80-124	
Surr: Toluene-d8	2037-26-5	50.5	50.00	101	77-129	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Chloroform 2016
Lab Sample ID: 1610270-003
Client Sample ID: TW4-21_10122016
Collection Date: 10/12/2016 1316h
Received Date: 10/14/2016 1025h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		10/17/2016 1949h	E300.0	100	**439**	
Nitrate/Nitrite (as N)	mg/L		10/19/2016 1955h	E353.2	0.100	**13.5**	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Chloroform 2016
Lab Sample ID: 1610270-003C
Client Sample ID: TW4-21_10122016
Collection Date: 10/12/2016 1316h
Received Date: 10/14/2016 1025h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 10/17/2016 1700h
Units: µg/L **Dilution Factor:** 10 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	10.0	**434**	~

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	553	500.0	111	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	502	500.0	100	80-152	
Surr: Dibromofluoromethane	1868-53-7	541	500.0	108	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: 10/14/2016 1520h
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	53.1	50.00	106	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	46.6	50.00	93.2	80-152	
Surr: Dibromofluoromethane	1868-53-7	52.5	50.00	105	80-124	
Surr: Toluene-d8	2037-26-5	48.7	50.00	97.3	77-129	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Chloroform 2016
Lab Sample ID: 1610270-010
Client Sample ID: TW4-22_10122016
Collection Date: 10/12/2016 1344h
Received Date: 10/14/2016 1025h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		10/17/2016 2311h	E300.0	100	**588**	
Nitrate/Nitrite (as N)	mg/L		10/19/2016 2051h	E353.2	1.00	**61.5**	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Chloroform 2016
Lab Sample ID: 1610270-010C
Client Sample ID: TW4-22_10122016
Collection Date: 10/12/2016 1344h
Received Date: 10/14/2016 1025h
Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 10/17/2016 1957h
Units: µg/L **Dilution Factor:** 100 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	100	**3,370**	~

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	5,560	5,000	111	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	5,100	5,000	102	80-152	
Surr: Dibromofluoromethane	1868-53-7	5,360	5,000	107	80-124	
Surr: Toluene-d8	2037-26-5	5,130	5,000	103	77-129	

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

Analyzed: 10/17/2016 1522h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	**1.08**	
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	50.7	50.00	101	80-152	
Surr: Dibromofluoromethane	1868-53-7	53.4	50.00	107	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: 4th Quarter Chloroform 2016
Lab Sample ID: 1610431-012
Client Sample ID: TW4-23_10202016
Collection Date: 10/20/2016 941h
Received Date: 10/21/2016 1030h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		10/28/2016 2109h	E300.0	5.00	**52.1**	
Nitrate/Nitrite (as N)	mg/L		10/21/2016 2002h	E353.2	0.100	< 0.100	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Chloroform 2016
Lab Sample ID: 1610431-012C
Client Sample ID: TW4-23_10202016
Collection Date: 10/20/2016 941h
Received Date: 10/21/2016 1030h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 10/21/2016 1805h
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	56.0	50.00	112	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	51.5	50.00	103	80-152	
Surr: Dibromofluoromethane	1868-53-7	54.1	50.00	108	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: 4th Quarter Chloroform 2016
Lab Sample ID: 1610270-002
Client Sample ID: TW4-24_10122016
Collection Date: 10/12/2016 1336h
Received Date: 10/14/2016 1025h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		10/17/2016 1825h	E300.0	100	**1,010**	
Nitrate/Nitrite (as N)	mg/L		10/19/2016 2050h	E353.2	0.200	**31.9**	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Chloroform 2016
Lab Sample ID: 1610270-002C
Client Sample ID: TW4-24_10122016
Collection Date: 10/12/2016 1336h
Received Date: 10/14/2016 1025h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 10/14/2016 1500h
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	**20.8**	
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	56.6	50.00	113	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	51.1	50.00	102	80-152	
Surr: Dibromofluoromethane	1868-53-7	55.3	50.00	111	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: 4th Quarter Chloroform 2016
Lab Sample ID: 1610270-001
Client Sample ID: TW4-25_10122016
Collection Date: 10/12/2016 1325h
Received Date: 10/14/2016 1025h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		10/17/2016 2039h	E300.0	10.0	**59.8**	
Nitrate/Nitrite (as N)	mg/L		10/19/2016 1953h	E353.2	0.100	**1.24**	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Chloroform 2016
Lab Sample ID: 1610270-001C
Client Sample ID: TW4-25_10122016
Collection Date: 10/12/2016 1325h
Received Date: 10/14/2016 1025h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 10/14/2016 1440h
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	55.2	50.00	110	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	50.4	50.00	101	80-152	
Surr: Dibromofluoromethane	1868-53-7	54.6	50.00	109	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: 4th Quarter Chloroform 2016
Lab Sample ID: 1610431-015
Client Sample ID: TW4-26_10202016
Collection Date: 10/20/2016 1001h
Received Date: 10/21/2016 1030h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		10/28/2016 2234h	E300.0	2.00	**14.2**	
Nitrate/Nitrite (as N)	mg/L		10/21/2016 2034h	E353.2	0.500	**15.0**	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Chloroform 2016
Lab Sample ID: 1610431-015C
Client Sample ID: TW4-26_10202016
Collection Date: 10/20/2016 1001h
Received Date: 10/21/2016 1030h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 10/21/2016 1904h
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	**19.9**	
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	56.3	50.00	113	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	52.6	50.00	105	80-152	
Surr: Dibromofluoromethane	1868-53-7	54.6	50.00	109	80-124	
Surr: Toluene-d8	2037-26-5	51.2	50.00	103	77-129	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Chloroform 2016
Lab Sample ID: 1610431-013
Client Sample ID: TW4-27_10202016
Collection Date: 10/20/2016 948h
Received Date: 10/21/2016 1030h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		10/28/2016 2126h	E300.0	5.00	**29.4**	
Nitrate/Nitrite (as N)	mg/L		10/21/2016 2032h	E353.2	0.200	**19.3**	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Chloroform 2016
Lab Sample ID: 1610431-013C
Client Sample ID: TW4-27_10202016
Collection Date: 10/20/2016 948h
Received Date: 10/21/2016 1030h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 10/21/2016 1824h
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	**3.80**	
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	56.4	50.00	113	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	52.4	50.00	105	80-152	
Surr: Dibromofluoromethane	1868-53-7	54.5	50.00	109	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: 4th Quarter Chloroform 2016
Lab Sample ID: 1610431-005
Client Sample ID: TW4-28_10192016
Collection Date: 10/19/2016 759h
Received Date: 10/21/2016 1030h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		10/28/2016 1804h	E300.0	10.0	**70.9**	
Nitrate/Nitrite (as N)	mg/L		10/21/2016 2056h	E353.2	0.200	**25.5**	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Chloroform 2016
Lab Sample ID: 1610431-005C
Client Sample ID: TW4-28_10192016
Collection Date: 10/19/2016 759h
Received Date: 10/21/2016 1030h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 10/21/2016 1547h
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	56.3	50.00	113	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	52.6	50.00	105	80-152	
Surr: Dibromofluoromethane	1868-53-7	54.4	50.00	109	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: 4th Quarter Chloroform 2016
Lab Sample ID: 1610561-006
Client Sample ID: TW4-29_10262016
Collection Date: 10/26/2016 935h
Received Date: 10/28/2016 1010h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		11/7/2016 1321h	E300.0	10.0	**44.2**	
Nitrate/Nitrite (as N)	mg/L		10/31/2016 1812h	E353.2	0.100	**2.40**	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Chloroform 2016
Lab Sample ID: 1610561-006C
Client Sample ID: TW4-29_10262016
Collection Date: 10/26/2016 935h
Received Date: 10/28/2016 1010h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 10/31/2016 2128h
Units: µg/L **Dilution Factor:** 10 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	10.0	**392**	~

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	478	500.0	95.7	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	441	500.0	88.2	80-152	
Surr: Dibromofluoromethane	1868-53-7	472	500.0	94.5	80-124	
Surr: Toluene-d8	2037-26-5	442	500.0	88.4	77-129	

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

Analyzed: 10/28/2016 1910h
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	55.7	50.00	111	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	51.8	50.00	104	80-152	
Surr: Dibromofluoromethane	1868-53-7	51.1	50.00	102	80-124	
Surr: Toluene-d8	2037-26-5	43.9	50.00	87.7	77-129	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Chloroform 2016
Lab Sample ID: 1610431-016
Client Sample ID: TW4-30_10202016
Collection Date: 10/20/2016 1008h
Received Date: 10/21/2016 1030h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		10/28/2016 2251h	E300.0	5.00	**41.3**	
Nitrate/Nitrite (as N)	mg/L		10/21/2016 2036h	E353.2	0.100	**2.51**	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Chloroform 2016
Lab Sample ID: 1610431-016C
Client Sample ID: TW4-30_10202016
Collection Date: 10/20/2016 1008h
Received Date: 10/21/2016 1030h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 10/21/2016 1924h
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	**8.69**	
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	56.6	50.00	113	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	51.3	50.00	103	80-152	
Surr: Dibromofluoromethane	1868-53-7	54.6	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: 4th Quarter Chloroform 2016
Lab Sample ID: 1610431-009
Client Sample ID: TW4-31_10202016
Collection Date: 10/20/2016 923h
Received Date: 10/21/2016 1030h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		10/28/2016 1945h	E300.0	5.00	**34.0**	
Nitrate/Nitrite (as N)	mg/L		10/21/2016 1958h	E353.2	0.100	**1.14**	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Chloroform 2016
Lab Sample ID: 1610431-009C
Client Sample ID: TW4-31_10202016
Collection Date: 10/20/2016 923h
Received Date: 10/21/2016 1030h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 10/21/2016 1705h
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	56.4	50.00	113	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	51.6	50.00	103	80-152	
Surr: Dibromofluoromethane	1868-53-7	54.6	50.00	109	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: 4th Quarter Chloroform 2016
Lab Sample ID: 1610431-006
Client Sample ID: TW4-32_10192016
Collection Date: 10/19/2016 805h
Received Date: 10/21/2016 1030h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		10/28/2016 1821h	E300.0	10.0	**66.0**	
Nitrate/Nitrite (as N)	mg/L		10/21/2016 1955h	E353.2	0.100	**2.87**	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Chloroform 2016
Lab Sample ID: 1610431-006C
Client Sample ID: TW4-32_10192016
Collection Date: 10/19/2016 805h
Received Date: 10/21/2016 1030h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 10/21/2016 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	< 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	53.1	50.00	106	80-152	
Surr: Dibromofluoromethane	1868-53-7	55.0	50.00	110	80-124	
Surr: Toluene-d8	2037-26-5	52.5	50.00	105	77-129	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Chloroform 2016
Lab Sample ID: 1610561-005
Client Sample ID: TW4-33_10262016
Collection Date: 10/26/2016 918h
Received Date: 10/28/2016 1010h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		11/7/2016 1304h	E300.0	10.0	**52.4**	
Nitrate/Nitrite (as N)	mg/L		10/31/2016 1811h	E353.2	0.100	**2.36**	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Chloroform 2016
Lab Sample ID: 1610561-005C
Client Sample ID: TW4-33_10262016
Collection Date: 10/26/2016 918h
Received Date: 10/28/2016 1010h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 10/28/2016 1851h
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	**109**	
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	56.4	50.00	113	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	53.6	50.00	107	80-152	
Surr: Dibromofluoromethane	1868-53-7	52.6	50.00	105	80-124	
Surr: Toluene-d8	2037-26-5	45.5	50.00	91.0	77-129	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Chloroform 2016
Lab Sample ID: 1610431-010
Client Sample ID: TW4-34_10202016
Collection Date: 10/20/2016 929h
Received Date: 10/21/2016 1030h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		10/28/2016 2036h	E300.0	2.00	**19.0**	
Nitrate/Nitrite (as N)	mg/L		10/21/2016 2000h	E353.2	0.100	**0.612**	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Chloroform 2016
Lab Sample ID: 1610431-010C
Client Sample ID: TW4-34_10202016
Collection Date: 10/20/2016 929h
Received Date: 10/21/2016 1030h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 10/21/2016 1725h
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	56.0	50.00	112	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	52.0	50.00	104	80-152	
Surr: Dibromofluoromethane	1868-53-7	53.5	50.00	107	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: 4th Quarter Chloroform 2016
Lab Sample ID: 1610431-011
Client Sample ID: TW4-35_10202016
Collection Date: 10/20/2016 934h
Received Date: 10/21/2016 1030h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		10/28/2016 2053h	E300.0	5.00	**37.1**	
Nitrate/Nitrite (as N)	mg/L		10/21/2016 2001h	E353.2	0.100	**0.626**	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Chloroform 2016
Lab Sample ID: 1610431-011C
Client Sample ID: TW4-35_10202016
Collection Date: 10/20/2016 934h
Received Date: 10/21/2016 1030h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 10/21/2016 1745h
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	56.1	50.00	112	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	48.3	50.00	96.6	80-152	
Surr: Dibromofluoromethane	1868-53-7	54.0	50.00	108	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: 4th Quarter Chloroform 2016
Lab Sample ID: 1610431-008
Client Sample ID: TW4-36_10202016
Collection Date: 10/20/2016 914h
Received Date: 10/21/2016 1030h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		10/28/2016 1928h	E300.0	10.0	**73.8**	
Nitrate/Nitrite (as N)	mg/L		10/21/2016 1957h	E353.2	0.100	< 0.100	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Chloroform 2016
Lab Sample ID: 1610431-008C
Client Sample ID: TW4-36_10202016
Collection Date: 10/20/2016 914h
Received Date: 10/21/2016 1030h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 10/21/2016 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	< 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	52.6	50.00	105	80-152	
Surr: Dibromofluoromethane	1868-53-7	54.9	50.00	110	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: 4th Quarter Chloroform 2016
Lab Sample ID: 1610270-012
Client Sample ID: TW4-37_10122016
Collection Date: 10/12/2016 1358h
Received Date: 10/14/2016 1025h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		10/17/2016 2345h	E300.0	100	**304**	
Nitrate/Nitrite (as N)	mg/L		10/19/2016 2100h	E353.2	0.200	**26.1**	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Chloroform 2016
Lab Sample ID: 1610270-012C
Client Sample ID: TW4-37_10122016
Collection Date: 10/12/2016 1358h
Received Date: 10/14/2016 1025h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 10/17/2016 2036h
Units: µg/L **Dilution Factor:** 500 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	500	**16,400**	~

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	27,800	25,000	111	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	23,600	25,000	94.3	80-152	
Surr: Dibromofluoromethane	1868-53-7	27,000	25,000	108	80-124	
Surr: Toluene-d8	2037-26-5	24,700	25,000	98.6	77-129	

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

Analyzed: 10/17/2016 1601h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	**16.3**	
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	55.8	50.00	112	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	51.8	50.00	104	80-152	
Surr: Dibromofluoromethane	1868-53-7	54.1	50.00	108	80-124	
Surr: Toluene-d8	2037-26-5	52.0	50.00	104	77-129	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Chloroform 2016
Lab Sample ID: 1611262-002
Client Sample ID: TW4-38_11102016
Collection Date: 11/10/2016 700h
Received Date: 11/11/2016 1035h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		11/15/2016 1506h	E300.0	20.0	**40.0**	
Nitrate/Nitrite (as N)	mg/L		11/17/2016 1739h	E353.2	0.100	**11.2**	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Chloroform 2016
Lab Sample ID: 1611262-002C
Client Sample ID: TW4-38_11102016
Collection Date: 11/10/2016 700h
Received Date: 11/11/2016 1035h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 11/11/2016 1555h
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	55.0	50.00	110	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	49.1	50.00	98.2	80-152	
Surr: Dibromofluoromethane	1868-53-7	55.5	50.00	111	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: 4th Quarter Chloroform 2016
Lab Sample ID: 1611262-001
Client Sample ID: TW4-38R_11092016
Collection Date: 11/9/2016 915h
Received Date: 11/11/2016 1035h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		11/16/2016 929h	E300.0	1.00	< 1.00	
Nitrate/Nitrite (as N)	mg/L		11/17/2016 1733h	E353.2	0.100	< 0.100	1

1 - 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: 4th Quarter Chloroform 2016
Lab Sample ID: 1611262-001C
Client Sample ID: TW4-38R_11092016
Collection Date: 11/9/2016 915h
Received Date: 11/11/2016 1035h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 11/11/2016 1536h
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	56.2	50.00	112	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	50.4	50.00	101	80-152	
Surr: Dibromofluoromethane	1868-53-7	56.5	50.00	113	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: 4th Quarter Chloroform 2016
Lab Sample ID: 1611262-003
Client Sample ID: TW4-39_11102016
Collection Date: 11/10/2016 715h
Received Date: 11/11/2016 1035h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		11/15/2016 1523h	E300.0	20.0	**68.9**	
Nitrate/Nitrite (as N)	mg/L		11/17/2016 1810h	E353.2	0.200	**20.7**	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Chloroform 2016
Lab Sample ID: 1611262-003C
Client Sample ID: TW4-39_11102016
Collection Date: 11/10/2016 715h
Received Date: 11/11/2016 1035h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 11/11/2016 1814h
Units: µg/L **Dilution Factor:** 100 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	100	**2,800**	~

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	5,420	5,000	108	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	4,920	5,000	98.4	80-152	
Surr: Dibromofluoromethane	1868-53-7	5,440	5,000	109	80-124	
Surr: Toluene-d8	2037-26-5	5,040	5,000	101	77-129	

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

Analyzed: 11/11/2016 1615h
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	55.3	50.00	111	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	49.0	50.00	98.0	80-152	
Surr: Dibromofluoromethane	1868-53-7	56.9	50.00	114	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: 4th Quarter Chloroform 2016
Lab Sample ID: 1611262-004
Client Sample ID: TW4-60_11102016
Collection Date: 11/10/2016 740h
Received Date: 11/11/2016 1035h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		11/15/2016 1556h	E300.0	1.00	< 1.00	
Nitrate/Nitrite (as N)	mg/L		11/17/2016 1741h	E353.2	0.100	< 0.100	

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Project: 4th Quarter Chloroform 2016
Lab Sample ID: 1611262-004C
Client Sample ID: TW4-60_11102016
Collection Date: 11/10/2016 740h
Received Date: 11/11/2016 1035h
Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 11/11/2016 1755h
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	53.6	50.00	107	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	47.6	50.00	95.3	80-152	
Surr: Dibromofluoromethane	1868-53-7	53.6	50.00	107	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: 4th Quarter Chloroform 2016
Lab Sample ID: 1610431-017
Client Sample ID: TW4-65_10192016
Collection Date: 10/19/2016 759h
Received Date: 10/21/2016 1030h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		10/28/2016 2307h	E300.0	10.0	**73.7**	
Nitrate/Nitrite (as N)	mg/L		10/21/2016 2057h	E353.2	0.500	**25.4**	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

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Laboratory Director

Jose Rocha
QA Officer

ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Chloroform 2016
Lab Sample ID: 1610431-017C
Client Sample ID: TW4-65_10192016
Collection Date: 10/19/2016 759h
Received Date: 10/21/2016 1030h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 10/21/2016 1943h
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	56.9	50.00	114	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	51.2	50.00	102	80-152	
Surr: Dibromofluoromethane	1868-53-7	54.5	50.00	109	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: 4th Quarter Chloroform 2016
Lab Sample ID: 1610431-018
Client Sample ID: TW4-70_10202016
Collection Date: 10/20/2016 914h
Received Date: 10/21/2016 1030h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		10/28/2016 2324h	E300.0	5.00	**72.0**	
Nitrate/Nitrite (as N)	mg/L		10/21/2016 2038h	E353.2	0.100	< 0.100	

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Jose Rocha
QA Officer

ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Chloroform 2016
Lab Sample ID: 1610431-018C
Client Sample ID: TW4-70_10202016
Collection Date: 10/20/2016 914h
Received Date: 10/21/2016 1030h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 10/21/2016 2003h
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	55.4	50.00	111	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	49.8	50.00	99.6	80-152	
Surr: Dibromofluoromethane	1868-53-7	52.9	50.00	106	80-124	
Surr: Toluene-d8	2037-26-5	49.8	50.00	99.7	77-129	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Chloroform 2016
Lab Sample ID: 1610561-011
Client Sample ID: TW4-75_10262016
Collection Date: 10/26/2016 838h
Received Date: 10/28/2016 1010h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		11/7/2016 1429h	E300.0	10.0	**49.5**	
Nitrate/Nitrite (as N)	mg/L		10/31/2016 1819h	E353.2	0.100	**8.34**	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Chloroform 2016
Lab Sample ID: 1610561-011C
Client Sample ID: TW4-75_10262016
Collection Date: 10/26/2016 838h
Received Date: 10/28/2016 1010h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 10/31/2016 2049h
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	**12.0**	
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	48.2	50.00	96.4	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	45.2	50.00	90.5	80-152	
Surr: Dibromofluoromethane	1868-53-7	47.8	50.00	95.6	80-124	
Surr: Toluene-d8	2037-26-5	44.9	50.00	89.8	77-129	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Chloroform 2016
Lab Sample ID: 1610270-014A
Client Sample ID: Trip Blank
Collection Date: 10/12/2016
Received Date: 10/14/2016 1025h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 10/17/2016 1502h
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	50.4	50.00	101	80-152	
Surr: Dibromofluoromethane	1868-53-7	52.7	50.00	105	80-124	
Surr: Toluene-d8	2037-26-5	49.7	50.00	99.3	77-129	

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Laboratory Director

Jose Rocha
QA Officer

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Chloroform 2016
Lab Sample ID: 1610431-020A
Client Sample ID: Trip Blank
Collection Date: 10/18/2016
Received Date: 10/21/2016 1030h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 10/21/2016 1329h
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	54.0	50.00	108	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	54.1	50.00	108	80-152	
Surr: Dibromofluoromethane	1868-53-7	54.0	50.00	108	80-124	
Surr: Toluene-d8	2037-26-5	51.7	50.00	103	77-129	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Chloroform 2016
Lab Sample ID: 1610561-013A
Client Sample ID: Trip Blank
Collection Date: 10/26/2016
Received Date: 10/28/2016 1010h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 10/28/2016 1631h
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	53.2	50.00	106	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	50.4	50.00	101	80-152	
Surr: Dibromofluoromethane	1868-53-7	47.7	50.00	95.4	80-124	
Surr: Toluene-d8	2037-26-5	47.4	50.00	94.8	77-129	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Chloroform 2016
Lab Sample ID: 1611111-002A
Client Sample ID: Trip Blank
Collection Date: 10/31/2016
Received Date: 11/4/2016 1025h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 11/7/2016 1126h
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	53.3	50.00	107	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	49.0	50.00	98.1	80-152	
Surr: Dibromofluoromethane	1868-53-7	58.6	50.00	117	80-124	
Surr: Toluene-d8	2037-26-5	51.5	50.00	103	77-129	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Chloroform 2016
Lab Sample ID: 1611262-005A
Client Sample ID: Trip Blank
Collection Date: 11/9/2016
Received Date: 11/11/2016 1035h

Test Code: 8260-W-DEN100

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 11/11/2016 1655h
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	49.5	50.00	99.1	80-152	
Surr: Dibromofluoromethane	1868-53-7	55.6	50.00	111	80-124	
Surr: Toluene-d8	2037-26-5	50.5	50.00	101	77-129	

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American West
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Garrin Palmer
Energy Fuels Resources, Inc.
6425 S. Hwy 191
Blanding, UT 84511
TEL: (303) 389-4134

RE: 4th Quarter Chloroform 2016

Dear Garrin Palmer: Lab Set ID: 1610270

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American West Analytical Laboratories received sample(s) on 10/14/2016 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: 2016.10.25 14:26:57 -06'00'

Laboratory Director or designee

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SAMPLE SUMMARY

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Chloroform 2016
Lab Set ID: 1610270
Date Received: 10/14/2016 1025h

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Jose Rocha
QA Officer

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
1610270-001A	TW4-25_10122016	10/12/2016 1325h	Aqueous	Anions, E300.0
1610270-001B	TW4-25_10122016	10/12/2016 1325h	Aqueous	Nitrite/Nitrate (as N), E353.2
1610270-001C	TW4-25_10122016	10/12/2016 1325h	Aqueous	VOA by GC/MS Method 8260C/5030C
1610270-002A	TW4-24_10122016	10/12/2016 1336h	Aqueous	Anions, E300.0
1610270-002B	TW4-24_10122016	10/12/2016 1336h	Aqueous	Nitrite/Nitrate (as N), E353.2
1610270-002C	TW4-24_10122016	10/12/2016 1336h	Aqueous	VOA by GC/MS Method 8260C/5030C
1610270-003A	TW4-21_10122016	10/12/2016 1316h	Aqueous	Anions, E300.0
1610270-003B	TW4-21_10122016	10/12/2016 1316h	Aqueous	Nitrite/Nitrate (as N), E353.2
1610270-003C	TW4-21_10122016	10/12/2016 1316h	Aqueous	VOA by GC/MS Method 8260C/5030C
1610270-004A	TW4-01_10132016	10/13/2016 832h	Aqueous	Anions, E300.0
1610270-004B	TW4-01_10132016	10/13/2016 832h	Aqueous	Nitrite/Nitrate (as N), E353.2
1610270-004C	TW4-01_10132016	10/13/2016 832h	Aqueous	VOA by GC/MS Method 8260C/5030C
1610270-005A	TW4-04_10132016	10/13/2016 841h	Aqueous	Anions, E300.0
1610270-005B	TW4-04_10132016	10/13/2016 841h	Aqueous	Nitrite/Nitrate (as N), E353.2
1610270-005C	TW4-04_10132016	10/13/2016 841h	Aqueous	VOA by GC/MS Method 8260C/5030C
1610270-006A	MW-04_10122016	10/12/2016 1441h	Aqueous	Anions, E300.0
1610270-006B	MW-04_10122016	10/12/2016 1441h	Aqueous	Nitrite/Nitrate (as N), E353.2
1610270-006C	MW-04_10122016	10/12/2016 1441h	Aqueous	VOA by GC/MS Method 8260C/5030C
1610270-007A	TW4-02_10122016	10/12/2016 1429h	Aqueous	Anions, E300.0
1610270-007B	TW4-02_10122016	10/12/2016 1429h	Aqueous	Nitrite/Nitrate (as N), E353.2
1610270-007C	TW4-02_10122016	10/12/2016 1429h	Aqueous	VOA by GC/MS Method 8260C/5030C
1610270-008A	MW-26_10122016	10/12/2016 1413h	Aqueous	Anions, E300.0
1610270-008B	MW-26_10122016	10/12/2016 1413h	Aqueous	Nitrite/Nitrate (as N), E353.2
1610270-008C	MW-26_10122016	10/12/2016 1413h	Aqueous	VOA by GC/MS Method 8260C/5030C
1610270-009A	TW4-11_10122016	10/12/2016 1421h	Aqueous	Anions, E300.0
1610270-009B	TW4-11_10122016	10/12/2016 1421h	Aqueous	Nitrite/Nitrate (as N), E353.2
1610270-009C	TW4-11_10122016	10/12/2016 1421h	Aqueous	VOA by GC/MS Method 8260C/5030C
1610270-010A	TW4-22_10122016	10/12/2016 1344h	Aqueous	Anions, E300.0
1610270-010B	TW4-22_10122016	10/12/2016 1344h	Aqueous	Nitrite/Nitrate (as N), E353.2

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Laboratory Director

Jose Rocha
QA Officer

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Chloroform 2016
Lab Set ID: 1610270
Date Received: 10/14/2016 1025h

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
1610270-010C	TW4-22_10122016	10/12/2016 1344h	Aqueous	VOA by GC/MS Method 8260C/5030C
1610270-011A	TW4-19_10132016	10/13/2016 910h	Aqueous	Anions, E300.0
1610270-011B	TW4-19_10132016	10/13/2016 910h	Aqueous	Nitrite/Nitrate (as N), E353.2
1610270-011C	TW4-19_10132016	10/13/2016 910h	Aqueous	VOA by GC/MS Method 8260C/5030C
1610270-012A	TW4-37_10122016	10/12/2016 1358h	Aqueous	Anions, E300.0
1610270-012B	TW4-37_10122016	10/12/2016 1358h	Aqueous	Nitrite/Nitrate (as N), E353.2
1610270-012C	TW4-37_10122016	10/12/2016 1358h	Aqueous	VOA by GC/MS Method 8260C/5030C
1610270-013A	TW4-20_10122016	10/12/2016 1405h	Aqueous	Anions, E300.0
1610270-013B	TW4-20_10122016	10/12/2016 1405h	Aqueous	Nitrite/Nitrate (as N), E353.2
1610270-013C	TW4-20_10122016	10/12/2016 1405h	Aqueous	VOA by GC/MS Method 8260C/5030C
1610270-014A	Trip Blank	10/12/2016	Aqueous	VOA by GC/MS Method 8260C/5030C

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Inorganic Case Narrative

Client:	Energy Fuels Resources, Inc.
Contact:	Garrin Palmer
Project:	4th Quarter Chloroform 2016
Lab Set ID:	1610270

Sample Receipt Information:

Date of Receipt:	10/14/2016
Dates of Collection:	10/12-10/13/2016
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.

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:	4th Quarter Chloroform 2016
Lab Set ID:	1610270

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Jose Rocha
QA Officer

Sample Receipt Information:

Date of Receipt:	10/14/2016
Dates of Collection:	10/12-10/13/2016
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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Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1610270
Project: 4th 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-R94915 Date Analyzed: 10/17/2016 1321h Test Code: 300.0-W													
Chloride	5.23	mg/L	E300.0	0.00516	0.100	5.000	0	105	90 - 110				
Lab Sample ID: LCS-R94983 Date Analyzed: 10/19/2016 1952h Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	0.956	mg/L	E353.2	0.00833	0.0100	1.000	0	95.6	90 - 110				

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Jose Rocha
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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1610270
Project: 4th 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-R94915 Date Analyzed: 10/17/2016 1305h Test Code: 300.0-W													
Chloride	< 0.100	mg/L	E300.0	0.00516	0.100								
Lab Sample ID: MB-R94983 Date Analyzed: 10/19/2016 1950h 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: 1610270
Project: 4th 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: 1610270-002AMS Date Analyzed: 10/17/2016 1842h Test Code: 300.0-W													
Chloride	2,090	mg/L	E300.0	1.03	20.0	1,000	1010	108	90 - 110				
Lab Sample ID: 1610270-003AMS Date Analyzed: 10/17/2016 2006h Test Code: 300.0-W													
Chloride	1,490	mg/L	E300.0	1.03	20.0	1,000	439	105	90 - 110				
Lab Sample ID: 1610270-010BMS Date Analyzed: 10/19/2016 2057h Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	160	mg/L	E353.2	0.833	1.00	100.0	61.5	98.8	90 - 110				
Lab Sample ID: 1610271-007BMS Date Analyzed: 10/19/2016 2102h Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	131	mg/L	E353.2	0.833	1.00	100.0	32.6	98.2	90 - 110				

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Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1610270
Project: 4th 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: 1610270-002AMSD Date Analyzed: 10/17/2016 1858h Test Code: 300.0-W													
Chloride	2,070	mg/L	E300.0	1.03	20.0	1,000	1010	106	90 - 110	2090	0.939	20	
Lab Sample ID: 1610270-003AMSD Date Analyzed: 10/17/2016 2023h Test Code: 300.0-W													
Chloride	1,490	mg/L	E300.0	1.03	20.0	1,000	439	105	90 - 110	1490	0.153	20	
Lab Sample ID: 1610270-010BMSD Date Analyzed: 10/19/2016 2058h Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	162	mg/L	E353.2	0.833	1.00	100.0	61.5	101	90 - 110	160	1.05	10	
Lab Sample ID: 1610271-007BMSD Date Analyzed: 10/19/2016 2103h Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	138	mg/L	E353.2	0.833	1.00	100.0	32.6	106	90 - 110	131	5.72	10	

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Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1610270
Project: 4th 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 101416A Date Analyzed: 10/14/2016 1004h													
Test Code: 8260-W-DEN100													
Chloroform	19.9	µg/L	SW8260C	0.153	1.00	20.00	0	99.6	85 - 124				
Methylene chloride	19.7	µg/L	SW8260C	0.172	1.00	20.00	0	98.4	71 - 135				
Surr: 1,2-Dichloroethane-d4	52.2	µg/L	SW8260C			50.00		104	80 - 122				
Surr: 4-Bromofluorobenzene	46.6	µg/L	SW8260C			50.00		93.3	85 - 121				
Surr: Dibromofluoromethane	52.2	µg/L	SW8260C			50.00		104	80 - 116				
Surr: Toluene-d8	49.2	µg/L	SW8260C			50.00		98.4	81 - 123				
Lab Sample ID: LCS VOC-1 101716A Date Analyzed: 10/17/2016 1403h													
Test Code: 8260-W-DEN100													
Chloroform	20.1	µg/L	SW8260C	0.153	1.00	20.00	0	101	85 - 124				
Methylene chloride	19.8	µg/L	SW8260C	0.172	1.00	20.00	0	98.8	71 - 135				
Surr: 1,2-Dichloroethane-d4	52.6	µg/L	SW8260C			50.00		105	80 - 122				
Surr: 4-Bromofluorobenzene	48.4	µg/L	SW8260C			50.00		96.8	85 - 121				
Surr: Dibromofluoromethane	51.5	µg/L	SW8260C			50.00		103	80 - 116				
Surr: Toluene-d8	49.2	µg/L	SW8260C			50.00		98.5	81 - 123				

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Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1610270
Project: 4th 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 101416A Date Analyzed: 10/14/2016 1044h													
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	55.3	µg/L	SW8260C			50.00		111	80 - 122				
Surr: 4-Bromofluorobenzene	51.6	µg/L	SW8260C			50.00		103	85 - 121				
Surr: Dibromofluoromethane	54.8	µg/L	SW8260C			50.00		110	80 - 116				
Surr: Toluene-d8	51.3	µg/L	SW8260C			50.00		103	81 - 123				
Lab Sample ID: MB VOC-1 101716A Date Analyzed: 10/17/2016 1443h													
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	54.8	µg/L	SW8260C			50.00		110	80 - 122				
Surr: 4-Bromofluorobenzene	51.0	µg/L	SW8260C			50.00		102	85 - 121				
Surr: Dibromofluoromethane	53.2	µg/L	SW8260C			50.00		106	80 - 116				
Surr: Toluene-d8	51.3	µg/L	SW8260C			50.00		103	81 - 123				

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Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1610270
Project: 4th 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: 1610270-001CMS Date Analyzed: 10/14/2016 1540h													
Test Code: 8260-W-DEN100													
Chloroform	22.4	µg/L	SW8260C	0.153	1.00	20.00	0	112	50 - 146				
Methylene chloride	21.9	µg/L	SW8260C	0.172	1.00	20.00	0	110	30 - 192				
Surr: 1,2-Dichloroethane-d4	54.2	µg/L	SW8260C			50.00		108	72 - 151				
Surr: 4-Bromofluorobenzene	49.4	µg/L	SW8260C			50.00		98.9	80 - 152				
Surr: Dibromofluoromethane	53.2	µg/L	SW8260C			50.00		106	80 - 124				
Surr: Toluene-d8	49.3	µg/L	SW8260C			50.00		98.6	77 - 129				
Lab Sample ID: 1610270-004CMS Date Analyzed: 10/17/2016 1739h													
Test Code: 8260-W-DEN100													
Chloroform	2,150	µg/L	SW8260C	7.65	50.0	1,000	1330	82.3	50 - 146				
Methylene chloride	1,030	µg/L	SW8260C	8.60	50.0	1,000	0	103	30 - 192				
Surr: 1,2-Dichloroethane-d4	2,720	µg/L	SW8260C			2,500		109	72 - 151				
Surr: 4-Bromofluorobenzene	2,450	µg/L	SW8260C			2,500		98.1	80 - 152				
Surr: Dibromofluoromethane	2,670	µg/L	SW8260C			2,500		107	80 - 124				
Surr: Toluene-d8	2,440	µg/L	SW8260C			2,500		97.4	77 - 129				

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Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1610270
Project: 4th 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: 1610270-001CMSD Date Analyzed: 10/14/2016 1559h													
Test Code: 8260-W-DEN100													
Chloroform	21.5	µg/L	SW8260C	0.153	1.00	20.00	0	107	50 - 146	22.4	4.33	25	
Methylene chloride	21.3	µg/L	SW8260C	0.172	1.00	20.00	0	106	30 - 192	21.9	3.06	25	
Surr: 1,2-Dichloroethane-d4	52.4	µg/L	SW8260C			50.00		105	72 - 151				
Surr: 4-Bromofluorobenzene	48.9	µg/L	SW8260C			50.00		97.8	80 - 152				
Surr: Dibromofluoromethane	51.7	µg/L	SW8260C			50.00		103	80 - 124				
Surr: Toluene-d8	48.8	µg/L	SW8260C			50.00		97.5	77 - 129				
Lab Sample ID: 1610270-004CMSD Date Analyzed: 10/17/2016 1759h													
Test Code: 8260-W-DEN100													
Chloroform	2,180	µg/L	SW8260C	7.65	50.0	1,000	1330	85.0	50 - 146	2150	1.27	25	
Methylene chloride	1,050	µg/L	SW8260C	8.60	50.0	1,000	0	105	30 - 192	1030	2.25	25	
Surr: 1,2-Dichloroethane-d4	2,710	µg/L	SW8260C			2,500		108	72 - 151				
Surr: 4-Bromofluorobenzene	2,500	µg/L	SW8260C			2,500		100	80 - 152				
Surr: Dibromofluoromethane	2,620	µg/L	SW8260C			2,500		105	80 - 124				
Surr: Toluene-d8	2,430	µg/L	SW8260C			2,500		97.0	77 - 129				

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 for any purpose other than for the addressee will be granted only on contact. This

American West Analytical Laboratories

UL
Denison

WORK ORDER Summary

Work Order: **1610270**

Client: Energy Fuels Resources, Inc. Due Date: 10/25/2016

Client ID: DEN100 **Contact:** Garrin Palmer

Project: **4th 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	
1610270-001A	**TW4-25_10122016**	10/12/2016 1325h	10/14/2016 1025h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1610270-001B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1610270-001C				**8260-W-DEN100**			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1610270-002A	**TW4-24_10122016**	10/12/2016 1336h	10/14/2016 1025h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1610270-002B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1610270-002C				**8260-W-DEN100**			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1610270-003A	**TW4-21_10122016**	10/12/2016 1316h	10/14/2016 1025h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1610270-003B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1610270-003C				**8260-W-DEN100**			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1610270-004A	**TW4-01_10132016**	10/13/2016 0832h	10/14/2016 1025h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1610270-004B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1610270-004C				**8260-W-DEN100**			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1610270-005A	**TW4-04_10132016**	10/13/2016 0841h	10/14/2016 1025h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1610270-005B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1610270-005C				**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: **1610270**

Client: Energy Fuels Resources, Inc. Due Date: 10/25/2016

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1610270-006A	**MW-04_10122016**	10/12/2016 1441h	10/14/2016 1025h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1610270-006B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1610270-006C				**8260-W-DEN100**			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1610270-007A	**TW4-02_10122016**	10/12/2016 1429h	10/14/2016 1025h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1610270-007B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1610270-007C				**8260-W-DEN100**			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1610270-008A	**MW-26_10122016**	10/12/2016 1413h	10/14/2016 1025h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1610270-008B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1610270-008C				**8260-W-DEN100**			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1610270-009A	**TW4-11_10122016**	10/12/2016 1421h	10/14/2016 1025h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1610270-009B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1610270-009C				**8260-W-DEN100**			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1610270-010A	**TW4-22_10122016**	10/12/2016 1344h	10/14/2016 1025h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1610270-010B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1610270-010C				**8260-W-DEN100**			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1610270-011A	**TW4-19_10132016**	10/13/2016 0910h	10/14/2016 1025h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1610270-011B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				

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WORK ORDER Summary

Work Order: **1610270**

Client: Energy Fuels Resources, Inc. Due Date: 10/25/2016

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1610270-011C	**TW4-19_10132016**	10/13/2016 0910h	10/14/2016 1025h	**8260-W-DEN100**	Aqueous		VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1610270-012A	**TW4-37_10122016**	10/12/2016 1358h	10/14/2016 1025h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1610270-012B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1610270-012C				**8260-W-DEN100**			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1610270-013A	**TW4-20_10122016**	10/12/2016 1405h	10/14/2016 1025h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1610270-013B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1610270-013C				**8260-W-DEN100**			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1610270-014A	**Trip Blank**	10/12/2016	10/14/2016 1025h	**8260-W-DEN100**	Aqueous		VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				

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www.awal-labs.com

CHAIN OF CUSTODY

1610270
AWAL Lab Sample Set #
Page 1 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 #:
Email: **gpalmer@energyfuels.com; KWeinel@energyfuels.com; dturk@energyfuels.com**
Project Name: **4TH 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	TW4-25_10122016	10/12/2016	1325	5	w	x	x	x	
2	TW4-24_10122016	10/12/2016	1336	5	w	x	x	x	
3	TW4-21_10122016	10/12/2016	1316	5	w	x	x	x	
4	TW4-01_10132016	10/13/2016	832	5	w	x	x	x	
5	TW4-04_10132016	10/13/2016	841	5	w	x	x	x	
6	MW-04_10122016	10/12/2016	1441	5	w	x	x	x	
7	TW4-02_10122016	10/12/2016	1429	5	w	x	x	x	
8	MW-26_10122016	10/12/2016	1413	5	w	x	x	x	
9	TW4-11_10122016	10/12/2016	1421	5	w	x	x	x	
10	TW4-22_10122016	10/12/2016	1344	5	w	x	x	x	
11	TW4-19_10132016	10/13/2016	910	5	w	x	x	x	
12	TW4-37_10122016	10/12/2016	1358	5	w	x	x	x	
13	TW4-20_10122016	10/12/2016	1405	5	w	x	x	x	

Laboratory Use Only

Samples Were: UPS
1 Shipped or hand delivered
2 Ambient or Chilled
3 Temperature 2.9 °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:	Received by: Signature	Date:
Print Name: TANNER HOLLIDAY	Time: 1230	Print Name:	Time:
Relinquished by: Signature	Date:	Received by: Signature	Date: 10/14/16
Print Name:	Time:	Print Name: Elmer Hoyer	Time: 1025
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

1610270
AWAL Lab Sample Set #

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 #:
Email: **gpalmer@energyfuels.com; KWeinel@energyfuels.com; dturk@energyfuels.com**
Project Name: **4TH 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	TRIP BLANK	10/12/2016		3	W			x	
2	TEMP BLANK	10/13/2016		1	W				
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									

Laboratory Use Only

Samples Were:
1 Shipped or hand delivered (UPS)
2 Ambient or Chilled
3 Temperature 2.9 °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:	Received by: Signature	Date:
Print Name: TANNER HOLLIDAY	Time: 1230	Print Name:	Time:
Relinquished by: Signature	Date:	Received by: Signature	Date: 10/14/16
Print Name:	Time:	Print Name: Elena Hayes	Time: 1025
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: 1610270
pH Lot 5093

Preservation Check Sheet

Sample Set Extension and pH

Analysis	Preservative	1	2	3	4	5	6	7	8	9	10	11	12	13					
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					
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																		

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.

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Garrin Palmer
Energy Fuels Resources, Inc.
6425 S. Hwy 191
Blanding, UT 84511
TEL: (303) 389-4134

RE: 4th Quarter Chloroform 2016

Dear Garrin Palmer: Lab Set ID: 1610431

American West Analytical Laboratories received sample(s) on 10/21/2016 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: 2016.11.03 13:53:13 -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: 4th Quarter Chloroform 2016
Lab Set ID: 1610431
Date Received: 10/21/2016 1030h

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
1610431-001A	TW4-03R_10182016	10/18/2016 758h	Aqueous	Anions, E300.0
1610431-001B	TW4-03R_10182016	10/18/2016 758h	Aqueous	Nitrite/Nitrate (as N), E353.2
1610431-001C	TW4-03R_10182016	10/18/2016 758h	Aqueous	VOA by GC/MS Method 8260C/5030C
1610431-003A	TW4-03_10192016	10/19/2016 747h	Aqueous	Anions, E300.0
1610431-003B	TW4-03_10192016	10/19/2016 747h	Aqueous	Nitrite/Nitrate (as N), E353.2
1610431-003C	TW4-03_10192016	10/19/2016 747h	Aqueous	VOA by GC/MS Method 8260C/5030C
1610431-004A	TW4-12_10192016	10/19/2016 754h	Aqueous	Anions, E300.0
1610431-004B	TW4-12_10192016	10/19/2016 754h	Aqueous	Nitrite/Nitrate (as N), E353.2
1610431-004C	TW4-12_10192016	10/19/2016 754h	Aqueous	VOA by GC/MS Method 8260C/5030C
1610431-005A	TW4-28_10192016	10/19/2016 759h	Aqueous	Anions, E300.0
1610431-005B	TW4-28_10192016	10/19/2016 759h	Aqueous	Nitrite/Nitrate (as N), E353.2
1610431-005C	TW4-28_10192016	10/19/2016 759h	Aqueous	VOA by GC/MS Method 8260C/5030C
1610431-006A	TW4-32_10192016	10/19/2016 805h	Aqueous	Anions, E300.0
1610431-006B	TW4-32_10192016	10/19/2016 805h	Aqueous	Nitrite/Nitrate (as N), E353.2
1610431-006C	TW4-32_10192016	10/19/2016 805h	Aqueous	VOA by GC/MS Method 8260C/5030C
1610431-007A	TW4-13_10192016	10/19/2016 811h	Aqueous	Anions, E300.0
1610431-007B	TW4-13_10192016	10/19/2016 811h	Aqueous	Nitrite/Nitrate (as N), E353.2
1610431-007C	TW4-13_10192016	10/19/2016 811h	Aqueous	VOA by GC/MS Method 8260C/5030C
1610431-008A	TW4-36_10202016	10/20/2016 914h	Aqueous	Anions, E300.0
1610431-008B	TW4-36_10202016	10/20/2016 914h	Aqueous	Nitrite/Nitrate (as N), E353.2
1610431-008C	TW4-36_10202016	10/20/2016 914h	Aqueous	VOA by GC/MS Method 8260C/5030C
1610431-009A	TW4-31_10202016	10/20/2016 923h	Aqueous	Anions, E300.0
1610431-009B	TW4-31_10202016	10/20/2016 923h	Aqueous	Nitrite/Nitrate (as N), E353.2
1610431-009C	TW4-31_10202016	10/20/2016 923h	Aqueous	VOA by GC/MS Method 8260C/5030C
1610431-010A	TW4-34_10202016	10/20/2016 929h	Aqueous	Anions, E300.0
1610431-010B	TW4-34_10202016	10/20/2016 929h	Aqueous	Nitrite/Nitrate (as N), E353.2
1610431-010C	TW4-34_10202016	10/20/2016 929h	Aqueous	VOA by GC/MS Method 8260C/5030C
1610431-011A	TW4-35_10202016	10/20/2016 934h	Aqueous	Anions, E300.0
1610431-011B	TW4-35_10202016	10/20/2016 934h	Aqueous	Nitrite/Nitrate (as N), E353.2

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web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Chloroform 2016
Lab Set ID: 1610431
Date Received: 10/21/2016 1030h

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
1610431-011C	TW4-35_10202016	10/20/2016 934h	Aqueous	VOA by GC/MS Method 8260C/5030C
1610431-012A	TW4-23_10202016	10/20/2016 941h	Aqueous	Anions, E300.0
1610431-012B	TW4-23_10202016	10/20/2016 941h	Aqueous	Nitrite/Nitrate (as N), E353.2
1610431-012C	TW4-23_10202016	10/20/2016 941h	Aqueous	VOA by GC/MS Method 8260C/5030C
1610431-013A	TW4-27_10202016	10/20/2016 948h	Aqueous	Anions, E300.0
1610431-013B	TW4-27_10202016	10/20/2016 948h	Aqueous	Nitrite/Nitrate (as N), E353.2
1610431-013C	TW4-27_10202016	10/20/2016 948h	Aqueous	VOA by GC/MS Method 8260C/5030C
1610431-014A	TW4-14_10202016	10/20/2016 953h	Aqueous	Anions, E300.0
1610431-014B	TW4-14_10202016	10/20/2016 953h	Aqueous	Nitrite/Nitrate (as N), E353.2
1610431-014C	TW4-14_10202016	10/20/2016 953h	Aqueous	VOA by GC/MS Method 8260C/5030C
1610431-015A	TW4-26_10202016	10/20/2016 1001h	Aqueous	Anions, E300.0
1610431-015B	TW4-26_10202016	10/20/2016 1001h	Aqueous	Nitrite/Nitrate (as N), E353.2
1610431-015C	TW4-26_10202016	10/20/2016 1001h	Aqueous	VOA by GC/MS Method 8260C/5030C
1610431-016A	TW4-30_10202016	10/20/2016 1008h	Aqueous	Anions, E300.0
1610431-016B	TW4-30_10202016	10/20/2016 1008h	Aqueous	Nitrite/Nitrate (as N), E353.2
1610431-016C	TW4-30_10202016	10/20/2016 1008h	Aqueous	VOA by GC/MS Method 8260C/5030C
1610431-017A	TW4-65_10192016	10/19/2016 759h	Aqueous	Anions, E300.0
1610431-017B	TW4-65_10192016	10/19/2016 759h	Aqueous	Nitrite/Nitrate (as N), E353.2
1610431-017C	TW4-65_10192016	10/19/2016 759h	Aqueous	VOA by GC/MS Method 8260C/5030C
1610431-018A	TW4-70_10202016	10/20/2016 914h	Aqueous	Anions, E300.0
1610431-018B	TW4-70_10202016	10/20/2016 914h	Aqueous	Nitrite/Nitrate (as N), E353.2
1610431-018C	TW4-70_10202016	10/20/2016 914h	Aqueous	VOA by GC/MS Method 8260C/5030C
1610431-020A	Trip Blank	10/18/2016	Aqueous	VOA by GC/MS Method 8260C/5030C

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Inorganic Case Narrative

Client:	Energy Fuels Resources, Inc.
Contact:	Garrin Palmer
Project:	4th Quarter Chloroform 2016
Lab Set ID:	1610431

Sample Receipt Information:

Date of Receipt:	10/21/2016
Dates of Collection:	10/18-10/20/2016
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.

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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Jose Rocha
QA Officer

Volatile Case Narrative

Client:	Energy Fuels Resources, Inc.
Contact:	Garrin Palmer
Project:	4th Quarter Chloroform 2016
Lab Set ID:	1610431

Sample Receipt Information:

Date of Receipt:	10/21/2016
Dates of Collection:	10/18-10/20/2016
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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Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1610431
Project: 4th 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-R95338 Date Analyzed: 10/28/2016 1606h Test Code: 300.0-W													
Chloride	5.29	mg/L	E300.0	0.00516	0.100	5.000	0	106	90 - 110				
Lab Sample ID: LCS-R95074 Date Analyzed: 10/21/2016 1843h Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.02	mg/L	E353.2	0.00833	0.0100	1.000	0	102	90 - 110				
Lab Sample ID: LCS-R95090 Date Analyzed: 10/21/2016 2031h Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	0.985	mg/L	E353.2	0.00833	0.0100	1.000	0	98.5	90 - 110				

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Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1610431
Project: 4th 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-R95338 Date Analyzed: 10/28/2016 1549h													
Test Code: 300.0-W													
Chloride	< 0.100	mg/L	E300.0	0.00516	0.100								
Lab Sample ID: MB-R95074 Date Analyzed: 10/21/2016 1840h													
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-R95090 Date Analyzed: 10/21/2016 2030h													
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: 1610431
Project: 4th 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: 1610431-002AMS Date Analyzed: 10/28/2016 1657h Test Code: 300.0-W													
Chloride	10.8	mg/L	E300.0	0.0103	0.200	10.00	0.0198	108	90 - 110				
Lab Sample ID: 1610431-010AMS Date Analyzed: 10/28/2016 2002h Test Code: 300.0-W													
Chloride	45.2	mg/L	E300.0	0.0258	0.500	25.00	19	105	90 - 110				
Lab Sample ID: 1610431-001BMS Date Analyzed: 10/21/2016 1943h 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				
Lab Sample ID: 1610431-019BMS Date Analyzed: 10/21/2016 2040h Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	9.75	mg/L	E353.2	0.0833	0.100	10.00	0	97.5	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: 1610431
Project: 4th 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: 1610431-002AMSD Date Analyzed: 10/28/2016 1714h Test Code: 300.0-W													
Chloride	11.0	mg/L	E300.0	0.0103	0.200	10.00	0.0198	110	90 - 110	10.8	1.93	20	
Lab Sample ID: 1610431-010AMSD Date Analyzed: 10/28/2016 2019h Test Code: 300.0-W													
Chloride	45.4	mg/L	E300.0	0.0258	0.500	25.00	19	106	90 - 110	45.2	0.542	20	
Lab Sample ID: 1610431-001BMSD Date Analyzed: 10/21/2016 1944h Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	10.7	mg/L	E353.2	0.0833	0.100	10.00	0	107	90 - 110	10.2	5.00	10	
Lab Sample ID: 1610431-019BMSD Date Analyzed: 10/21/2016 2046h Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	9.59	mg/L	E353.2	0.0833	0.100	10.00	0	95.9	90 - 110	9.75	1.63	10	

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Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1610431
Project: 4th 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 102116A Date Analyzed: 10/21/2016 1201h Test Code: 8260-W-DEN100													
Chloroform	23.1	µg/L	SW8260C	0.153	1.00	20.00	0	116	85 - 124				
Methylene chloride	23.3	µg/L	SW8260C	0.172	1.00	20.00	0	117	71 - 135				
Surr: 1,2-Dichloroethane-d4	53.4	µg/L	SW8260C			50.00		107	80 - 122				
Surr: 4-Bromofluorobenzene	49.2	µg/L	SW8260C			50.00		98.5	85 - 121				
Surr: Dibromofluoromethane	52.6	µg/L	SW8260C			50.00		105	80 - 116				
Surr: Toluene-d8	50.7	µg/L	SW8260C			50.00		101	81 - 123				

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Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1610431
Project: 4th 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 102116A Date Analyzed: 10/21/2016 1240h 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	55.0	µg/L	SW8260C			50.00		110	80 - 122				
Surr: 4-Bromofluorobenzene	53.1	µg/L	SW8260C			50.00		106	85 - 121				
Surr: Dibromofluoromethane	53.9	µg/L	SW8260C			50.00		108	80 - 116				
Surr: Toluene-d8	51.6	µg/L	SW8260C			50.00		103	81 - 123				

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Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1610431
Project: 4th 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: 1610431-001CMS Date Analyzed: 10/21/2016 1507h													
Test Code: 8260-W-DEN100													
Chloroform	21.6	µg/L	SW8260C	0.153	1.00	20.00	0	108	50 - 146				
Methylene chloride	22.0	µg/L	SW8260C	0.172	1.00	20.00	0	110	30 - 192				
Surr: 1,2-Dichloroethane-d4	54.0	µg/L	SW8260C			50.00		108	72 - 151				
Surr: 4-Bromofluorobenzene	49.3	µg/L	SW8260C			50.00		98.6	80 - 152				
Surr: Dibromofluoromethane	52.9	µg/L	SW8260C			50.00		106	80 - 124				
Surr: Toluene-d8	49.3	µg/L	SW8260C			50.00		98.6	77 - 129				

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Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1610431
Project: 4th 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: 1610431-001CMSD Date Analyzed: 10/21/2016 1527h Test Code: 8260-W-DEN100													
Chloroform	22.0	µg/L	SW8260C	0.153	1.00	20.00	0	110	50 - 146	21.6	1.79	25	
Methylene chloride	22.4	µg/L	SW8260C	0.172	1.00	20.00	0	112	30 - 192	22	1.66	25	
Surr: 1,2-Dichloroethane-d4	53.6	µg/L	SW8260C			50.00		107	72 - 151				
Surr: 4-Bromofluorobenzene	49.8	µg/L	SW8260C			50.00		99.6	80 - 152				
Surr: Dibromofluoromethane	52.4	µg/L	SW8260C			50.00		105	80 - 124				
Surr: Toluene-d8	49.9	µg/L	SW8260C			50.00		99.8	77 - 129				

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REVISED: 11/3/2016

Samples 1610431-002 and 1610431-019 cancelled per KW. MC

UL

Denison

WORK ORDER Summary

Work Order: **1610431**

Client: Energy Fuels Resources, Inc. Due Date: 11/1/2016

Client ID: DEN100 **Contact:** Garrin Palmer

Project: **4th 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	
1610431-001A	**TW4-03R_10182016**	10/18/2016 0758h	10/21/2016 1030h	**300.0-W**	Aqueous	☑	df - wc	1
				1 SEL Analytes: CL				
1610431-001B				**NO2/NO3-W-353.2**		☑	df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1610431-001C				**8260-W-DEN100**		☑	VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1610431-002A		10/20/2016 1028h	10/21/2016 1030h		Aqueous	☐	df - wc	1
1610431-002B						☐	df - no2/no3	
1610431-002C						☐	VOCFridge	3
1610431-003A	**TW4-03_10192016**	10/19/2016 0747h	10/21/2016 1030h	**300.0-W**	Aqueous	☑	df - wc	1
				1 SEL Analytes: CL				
1610431-003B				**NO2/NO3-W-353.2**		☑	df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1610431-003C				**8260-W-DEN100**		☑	VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1610431-004A	**TW4-12_10192016**	10/19/2016 0754h	10/21/2016 1030h	**300.0-W**	Aqueous	☑	df - wc	1
				1 SEL Analytes: CL				
1610431-004B				**NO2/NO3-W-353.2**		☑	df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1610431-004C				**8260-W-DEN100**		☑	VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1610431-005A	**TW4-28_10192016**	10/19/2016 0759h	10/21/2016 1030h	**300.0-W**	Aqueous	☑	df - wc	1
				1 SEL Analytes: CL				
1610431-005B				**NO2/NO3-W-353.2**		☑	df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1610431-005C				**8260-W-DEN100**		☑	VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				

WORK ORDER Summary

Work Order: **1610431**

Client: Energy Fuels Resources, Inc. Due Date: 11/1/2016

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1610431-006A	**TW4-32_10192016**	10/19/2016 0805h	10/21/2016 1030h	**300.0-W** *1 SEL Analytes: CL*	Aqueous	☑	df - wc	1
1610431-006B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*		☑	df - no2/no3	
1610431-006C				**8260-W-DEN100** *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4*		☑	VOCFridge	3
1610431-007A	**TW4-13_10192016**	10/19/2016 0811h	10/21/2016 1030h	**300.0-W** *1 SEL Analytes: CL*	Aqueous	☑	df - wc	1
1610431-007B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*		☑	df - no2/no3	
1610431-007C				**8260-W-DEN100** *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4*		☑	VOCFridge	3
1610431-008A	**TW4-36_10202016**	10/20/2016 0914h	10/21/2016 1030h	**300.0-W** *1 SEL Analytes: CL*	Aqueous	☑	df - wc	1
1610431-008B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*		☑	df - no2/no3	
1610431-008C				**8260-W-DEN100** *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4*		☑	VOCFridge	3
1610431-009A	**TW4-31_10202016**	10/20/2016 0923h	10/21/2016 1030h	**300.0-W** *1 SEL Analytes: CL*	Aqueous	☑	df - wc	1
1610431-009B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*		☑	df - no2/no3	
1610431-009C				**8260-W-DEN100** *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4*		☑	VOCFridge	3
1610431-010A	**TW4-34_10202016**	10/20/2016 0929h	10/21/2016 1030h	**300.0-W** *1 SEL Analytes: CL*	Aqueous	☑	df - wc	1
1610431-010B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*		☑	df - no2/no3	
1610431-010C				**8260-W-DEN100** *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4*		☑	VOCFridge	3
1610431-011A	**TW4-35_10202016**	10/20/2016 0934h	10/21/2016 1030h	**300.0-W** *1 SEL Analytes: CL*	Aqueous	☑	df - wc	1
1610431-011B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*		☑	df - no2/no3	
1610431-011C				**8260-W-DEN100** *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4*		☑	VOCFridge	3
1610431-012A	**TW4-23_10202016**	10/20/2016 0941h	10/21/2016 1030h	**300.0-W** *1 SEL Analytes: CL*	Aqueous	☑	df - wc	1

WORK ORDER Summary

Work Order: **1610431**

Client: Energy Fuels Resources, Inc. Due Date: 11/1/2016

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1610431-012B	**TW4-23_10202016**	10/20/2016 0941h	10/21/2016 1030h	**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*	Aqueous	☑	df - no2/no3	1
1610431-012C				**8260-W-DEN100** *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4*		☑	VOCFridge	3
1610431-013A	**TW4-27_10202016**	10/20/2016 0948h	10/21/2016 1030h	**300.0-W** *1 SEL Analytes: CL*	Aqueous	☑	df - wc	1
1610431-013B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*		☑	df - no2/no3	
1610431-013C				**8260-W-DEN100** *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4*		☑	VOCFridge	3
1610431-014A	**TW4-14_10202016**	10/20/2016 0953h	10/21/2016 1030h	**300.0-W** *1 SEL Analytes: CL*	Aqueous	☑	df - wc	1
1610431-014B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*		☑	df - no2/no3	
1610431-014C				**8260-W-DEN100** *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4*		☑	VOCFridge	3
1610431-015A	**TW4-26_10202016**	10/20/2016 1001h	10/21/2016 1030h	**300.0-W** *1 SEL Analytes: CL*	Aqueous	☑	df - wc	1
1610431-015B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*		☑	df - no2/no3	
1610431-015C				**8260-W-DEN100** *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4*		☑	VOCFridge	3
1610431-016A	**TW4-30_10202016**	10/20/2016 1008h	10/21/2016 1030h	**300.0-W** *1 SEL Analytes: CL*	Aqueous	☑	df - wc	1
1610431-016B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*		☑	df - no2/no3	
1610431-016C				**8260-W-DEN100** *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4*		☑	VOCFridge	3
1610431-017A	**TW4-65_10192016**	10/19/2016 0759h	10/21/2016 1030h	**300.0-W** *1 SEL Analytes: CL*	Aqueous	☑	df - wc	1
1610431-017B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*		☑	df - no2/no3	
1610431-017C				**8260-W-DEN100** *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4*		☑	VOCFridge	3
1610431-018A	**TW4-70_10202016**	10/20/2016 0914h	10/21/2016 1030h	**300.0-W** *1 SEL Analytes: CL*	Aqueous	☑	df - wc	1
1610431-018B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*		☑	df - no2/no3	

WORK ORDER Summary

Work Order: **1610431**

Client: Energy Fuels Resources, Inc. Due Date: 11/1/2016

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1610431-018C	**TW4-70_10202016**	10/20/2016 0914h	10/21/2016 1030h	**8260-W-DEN100**	Aqueous	☑	VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1610431-019A		10/20/2016 1130h	10/21/2016 1030h		Aqueous	☐	df - wc	1
1610431-019B						☐	df - no2/no3	
1610431-019C						☐	VOCFridge	3
1610431-020A	**Trip Blank**	10/18/2016	10/21/2016 1030h	**8260-W-DEN100**	Aqueous	☑	VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				

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www.awal-labs.com

CHAIN OF CUSTODY

1610431
AWAL Lab Sample Set #
Page 1 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 #:
Email: gpalmer@energyfuels.com; KWeinel@energyfuels.com; dturk@energyfuels.com
Project Name: 4TH 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 1.4 °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

	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	TW4-03R_10182016	10/18/2016	758	5	W	X	X	X	
~~2~~	~~TW4-35R_10202016~~	~~10/20/2016~~	~~1038~~	~~5~~	~~W~~	~~X~~	~~X~~	~~X~~	Sample cancelled per Kathy Weinel. MC 11/3/2016
3	TW4-03_10192016	10/19/2016	747	5	W	X	X	X	
4	TW4-12_10192016	10/19/2016	754	5	W	X	X	X	
5	TW4-28_10192016	10/19/2016	759	5	W	X	X	X	
6	TW4-32_10192016	10/19/2016	805	5	W	X	X	X	
7	TW4-13_10192016	10/19/2016	811	5	W	X	X	X	
8	TW4-36_10202016	10/20/2016	914	5	W	X	X	X	
9	TW4-31_10202016	10/20/2016	923	5	W	X	X	X	
10	TW4-34_10202016	10/20/2016	929	5	W	X	X	X	
11	TW4-35_10202016	10/20/2016	934	5	W	X	X	X	
12	TW4-23_10202016	10/20/2016	941	5	W	X	X	X	
13	TW4-27_10202016	10/20/2016	948	5	W	X	X	X	

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:
Print Name: TANNER HOLLIDAY	10/20/2016	1230	Print Name:		
Relinquished by: Signature	Date:	Time:	Received by: Signature	Date: 10/21/16	Time: 1030
Print Name:			Print Name: Elmer Hyland		
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.

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CHAIN OF CUSTODY

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.

16104 31
AWAL Lab Sample Set #
Page 2 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		

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: 4TH 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:
1 Shipped or hand delivered (UPS)
2 Ambient or Chilled
3 Temperature 1.8 °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? 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
14	TW4-14_10202016	10/20/2016	953	5	W	X	X	X	
15	TW4-26_10202016	10/20/2016	1001	5	W	X	X	X	
16	TW4-30_10202016	10/20/2016	1008	5	W	X	X	X	
17	TW4-65_10192016	10/19/2016	759	5	W	X	X	X	
18	TW4-70_10202016	10/20/2016	914	5	W	X	X	X	
19	~~TW4-80_10202016~~	~~10/20/2016~~	~~1100~~	~~6~~	~~W~~	~~X~~	~~X~~	~~X~~	Sample cancelled per Kathy Weinel. MC 11/3/2016
20	TRIP BLANK	10/18/2016		3	W			X	
8	TEMP BLANK	10/20/2016		1	W				
9									
10									
11									
12									
13									

Relinquished by: Signature	Date:	Received by: Signature	Date:
Print Name: TANNER HOLLIDAY	Time: 1230	Print Name:	Time:
Relinquished by: Signature	Date:	Received by: Signature	Date: 10/21/16
Print Name:	Time:	Print Name: Ellen Hay	Time: 1031
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: 1610431

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																			

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.

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ANALYTICAL LABORATORIES

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Salt Lake City, UT 84119

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Garrin Palmer
Energy Fuels Resources, Inc.
6425 S. Hwy 191
Blanding, UT 84511
TEL: (303) 389-4134

RE: 4th Quarter Chloroform 2016

Dear Garrin Palmer: Lab Set ID: 1610561

American West Analytical Laboratories received sample(s) on 10/28/2016 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: 2016.11.14 11:34:09 -07'00'

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: 4th Quarter Chloroform 2016
Lab Set ID: 1610561
Date Received: 10/28/2016 1010h

American West ANALYTICAL LABORATORIES

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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
1610561-001A	TW4-05_10262016	10/26/2016 838h	Aqueous	Anions, E300.0
1610561-001B	TW4-05_10262016	10/26/2016 838h	Aqueous	Nitrite/Nitrate (as N), E353.2
1610561-001C	TW4-05_10262016	10/26/2016 838h	Aqueous	VOA by GC/MS Method 8260C/5030C
1610561-002A	TW4-16_10262016	10/26/2016 853h	Aqueous	Anions, E300.0
1610561-002B	TW4-16_10262016	10/26/2016 853h	Aqueous	Nitrite/Nitrate (as N), E353.2
1610561-002C	TW4-16_10262016	10/26/2016 853h	Aqueous	VOA by GC/MS Method 8260C/5030C
1610561-003A	TW4-18_10262016	10/26/2016 902h	Aqueous	Anions, E300.0
1610561-003B	TW4-18_10262016	10/26/2016 902h	Aqueous	Nitrite/Nitrate (as N), E353.2
1610561-003C	TW4-18_10262016	10/26/2016 902h	Aqueous	VOA by GC/MS Method 8260C/5030C
1610561-004A	TW4-09_10262016	10/26/2016 909h	Aqueous	Anions, E300.0
1610561-004B	TW4-09_10262016	10/26/2016 909h	Aqueous	Nitrite/Nitrate (as N), E353.2
1610561-004C	TW4-09_10262016	10/26/2016 909h	Aqueous	VOA by GC/MS Method 8260C/5030C
1610561-005A	TW4-33_10262016	10/26/2016 918h	Aqueous	Anions, E300.0
1610561-005B	TW4-33_10262016	10/26/2016 918h	Aqueous	Nitrite/Nitrate (as N), E353.2
1610561-005C	TW4-33_10262016	10/26/2016 918h	Aqueous	VOA by GC/MS Method 8260C/5030C
1610561-006A	TW4-29_10262016	10/26/2016 935h	Aqueous	Anions, E300.0
1610561-006B	TW4-29_10262016	10/26/2016 935h	Aqueous	Nitrite/Nitrate (as N), E353.2
1610561-006C	TW4-29_10262016	10/26/2016 935h	Aqueous	VOA by GC/MS Method 8260C/5030C
1610561-007A	TW4-06_10262016	10/26/2016 943h	Aqueous	Anions, E300.0
1610561-007B	TW4-06_10262016	10/26/2016 943h	Aqueous	Nitrite/Nitrate (as N), E353.2
1610561-007C	TW4-06_10262016	10/26/2016 943h	Aqueous	VOA by GC/MS Method 8260C/5030C
1610561-008A	TW4-08_10272016	10/27/2016 842h	Aqueous	Anions, E300.0
1610561-008B	TW4-08_10272016	10/27/2016 842h	Aqueous	Nitrite/Nitrate (as N), E353.2
1610561-008C	TW4-08_10272016	10/27/2016 842h	Aqueous	VOA by GC/MS Method 8260C/5030C
1610561-009A	TW4-07_10272016	10/27/2016 846h	Aqueous	Anions, E300.0
1610561-009B	TW4-07_10272016	10/27/2016 846h	Aqueous	Nitrite/Nitrate (as N), E353.2
1610561-009C	TW4-07_10272016	10/27/2016 846h	Aqueous	VOA by GC/MS Method 8260C/5030C
1610561-010A	TW4-10_10272016	10/27/2016 852h	Aqueous	Anions, E300.0
1610561-010B	TW4-10_10272016	10/27/2016 852h	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

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Chloroform 2016
Lab Set ID: 1610561
Date Received: 10/28/2016 1010h

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
1610561-010C	TW4-10_10272016	10/27/2016 852h	Aqueous	VOA by GC/MS Method 8260C/5030C
1610561-011A	TW4-75_10262016	10/26/2016 838h	Aqueous	Anions, E300.0
1610561-011B	TW4-75_10262016	10/26/2016 838h	Aqueous	Nitrite/Nitrate (as N), E353.2
1610561-011C	TW4-75_10262016	10/26/2016 838h	Aqueous	VOA by GC/MS Method 8260C/5030C
1610561-012A	TW4-08R_10262016	10/26/2016 1003h	Aqueous	Anions, E300.0
1610561-012B	TW4-08R_10262016	10/26/2016 1003h	Aqueous	Nitrite/Nitrate (as N), E353.2
1610561-012C	TW4-08R_10262016	10/26/2016 1003h	Aqueous	VOA by GC/MS Method 8260C/5030C
1610561-013A	Trip Blank	10/26/2016	Aqueous	VOA by GC/MS Method 8260C/5030C

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Laboratory Director

Jose Rocha
QA Officer

Inorganic Case Narrative

Client:	Energy Fuels Resources, Inc.
Contact:	Garrin Palmer
Project:	4th Quarter Chloroform 2016
Lab Set ID:	1610561

Sample Receipt Information:

Date of Receipt:	10/28/2016
Dates of Collection:	10/26-10/27/2016
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.

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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Jose Rocha
QA Officer

Volatile Case Narrative

Client:	Energy Fuels Resources, Inc.
Contact:	Garrin Palmer
Project:	4th Quarter Chloroform 2016
Lab Set ID:	1610561

Sample Receipt Information:

Date of Receipt:	10/28/2016
Dates of Collection:	10/26-10/27/2016
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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Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1610561
Project: 4th 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-R95616 Date Analyzed: 11/04/2016 1108h													
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-R95632 Date Analyzed: 11/07/2016 958h													
Test Code: 300.0-W													
Chloride	5.39	mg/L	E300.0	0.00516	0.100	5.000	0	108	90 - 110				
Lab Sample ID: LCS-R95378 Date Analyzed: 10/31/2016 1804h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.06	mg/L	E353.2	0.00833	0.0100	1.000	0	106	90 - 110				

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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1610561
Project: 4th 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-R95616 Date Analyzed: 11/04/2016 1051h													
Test Code: 300.0-W													
Chloride	< 0.100	mg/L	E300.0	0.00516	0.100								
Lab Sample ID: MB-R95632 Date Analyzed: 11/07/2016 1015h													
Test Code: 300.0-W													
Chloride	< 0.100	mg/L	E300.0	0.00516	0.100								
Lab Sample ID: MB-R95378 Date Analyzed: 10/31/2016 1800h													
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: 1610561
Project: 4th 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: 1610527-002DMS Date Analyzed: 11/04/2016 1613h Test Code: 300.0-W													
Chloride	229	mg/L	E300.0	0.103	2.00	100.0	120	110	90 - 110				
Lab Sample ID: 1610490-001DMS Date Analyzed: 11/04/2016 1703h Test Code: 300.0-W													
Chloride	130	mg/L	E300.0	0.103	2.00	100.0	22.4	107	90 - 110				
Lab Sample ID: 1610561-008AMS Date Analyzed: 11/07/2016 1106h Test Code: 300.0-W													
Chloride	170	mg/L	E300.0	0.103	2.00	100.0	60.1	110	90 - 110				
Lab Sample ID: 1610506-001BMS Date Analyzed: 11/07/2016 1631h Test Code: 300.0-W													
Chloride	1,100	mg/L	E300.0	1.03	20.0	1,000	38	107	90 - 110				
Lab Sample ID: 1610597-001BMS Date Analyzed: 10/31/2016 1822h Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.75	mg/L	E353.2	0.00833	0.0100	1.000	0.692	106	90 - 110				
Lab Sample ID: 1610561-001BMS Date Analyzed: 10/31/2016 1828h Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	30.2	mg/L	E353.2	0.167	0.200	20.00	8.32	109	90 - 110				

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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1610561
Project: 4th 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: 1610527-002DMSD Date Analyzed: 11/04/2016 1629h Test Code: 300.0-W													
Chloride	227	mg/L	E300.0	0.103	2.00	100.0	120	107	90 - 110	229	0.932	20	
Lab Sample ID: 1610490-001DMSD Date Analyzed: 11/04/2016 1720h Test Code: 300.0-W													
Chloride	130	mg/L	E300.0	0.103	2.00	100.0	22.4	108	90 - 110	130	0.305	20	
Lab Sample ID: 1610561-008AMSD Date Analyzed: 11/07/2016 1123h Test Code: 300.0-W													
Chloride	170	mg/L	E300.0	0.103	2.00	100.0	60.1	109	90 - 110	170	0.485	20	
Lab Sample ID: 1610506-001BMSD Date Analyzed: 11/07/2016 1648h Test Code: 300.0-W													
Chloride	1,100	mg/L	E300.0	1.03	20.0	1,000	38	106	90 - 110	1100	0.280	20	
Lab Sample ID: 1610597-001BMSD Date Analyzed: 10/31/2016 1823h Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.73	mg/L	E353.2	0.00833	0.0100	1.000	0.692	104	90 - 110	1.75	1.32	10	
Lab Sample ID: 1610561-001BMSD Date Analyzed: 10/31/2016 1829h Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	28.4	mg/L	E353.2	0.167	0.200	20.00	8.32	100	90 - 110	30.2	6.22	10	

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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1610561
Project: 4th 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 102816A Date Analyzed: 10/28/2016 1531h													
Test Code: 8260-W-DEN100													
Chloroform	21.6	µg/L	SW8260C	0.153	1.00	20.00	0	108	85 - 124				
Methylene chloride	23.2	µg/L	SW8260C	0.172	1.00	20.00	0	116	71 - 135				
Surr: 1,2-Dichloroethane-d4	55.0	µg/L	SW8260C			50.00		110	80 - 122				
Surr: 4-Bromofluorobenzene	49.4	µg/L	SW8260C			50.00		98.7	85 - 121				
Surr: Dibromofluoromethane	52.7	µg/L	SW8260C			50.00		105	80 - 116				
Surr: Toluene-d8	49.8	µg/L	SW8260C			50.00		99.5	81 - 123				
Lab Sample ID: LCS VOC-1 103116A Date Analyzed: 10/31/2016 1513h													
Test Code: 8260-W-DEN100													
Chloroform	21.4	µg/L	SW8260C	0.153	1.00	20.00	0	107	85 - 124				
Methylene chloride	21.0	µg/L	SW8260C	0.172	1.00	20.00	0	105	71 - 135				
Surr: 1,2-Dichloroethane-d4	48.6	µg/L	SW8260C			50.00		97.2	80 - 122				
Surr: 4-Bromofluorobenzene	46.4	µg/L	SW8260C			50.00		92.8	85 - 121				
Surr: Dibromofluoromethane	48.5	µg/L	SW8260C			50.00		96.9	80 - 116				
Surr: Toluene-d8	47.6	µg/L	SW8260C			50.00		95.1	81 - 123				
Lab Sample ID: LCS VOC-1 110316A Date Analyzed: 11/03/2016 1102h													
Test Code: 8260-W-DEN100													
Chloroform	23.5	µg/L	SW8260C	0.153	1.00	20.00	0	118	85 - 124				
Surr: 1,2-Dichloroethane-d4	50.8	µg/L	SW8260C			50.00		102	80 - 122				
Surr: 4-Bromofluorobenzene	49.5	µg/L	SW8260C			50.00		99.0	85 - 121				
Surr: Dibromofluoromethane	55.3	µg/L	SW8260C			50.00		111	80 - 116				
Surr: Toluene-d8	50.4	µg/L	SW8260C			50.00		101	81 - 123				

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Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1610561
Project: 4th 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 102816A Date Analyzed: 10/28/2016 1611h													
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	53.6	µg/L	SW8260C			50.00		107	80 - 122				
Surr: 4-Bromofluorobenzene	51.5	µg/L	SW8260C			50.00		103	85 - 121				
Surr: Dibromofluoromethane	50.4	µg/L	SW8260C			50.00		101	80 - 116				
Surr: Toluene-d8	49.8	µg/L	SW8260C			50.00		99.5	81 - 123				
Lab Sample ID: MB VOC-1 103116A Date Analyzed: 10/31/2016 1552h													
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	49.6	µg/L	SW8260C			50.00		99.2	80 - 122				
Surr: 4-Bromofluorobenzene	48.3	µg/L	SW8260C			50.00		96.6	85 - 121				
Surr: Dibromofluoromethane	49.2	µg/L	SW8260C			50.00		98.5	80 - 116				
Surr: Toluene-d8	47.3	µg/L	SW8260C			50.00		94.6	81 - 123				
Lab Sample ID: MB VOC-1 110316A Date Analyzed: 11/03/2016 1141h													
Test Code: 8260-W-DEN100													
Chloroform	< 1.00	µg/L	SW8260C	0.153	1.00								
Surr: 1,2-Dichloroethane-d4	52.4	µg/L	SW8260C			50.00		105	80 - 122				
Surr: 4-Bromofluorobenzene	47.9	µg/L	SW8260C			50.00		95.7	85 - 121				
Surr: Dibromofluoromethane	54.2	µg/L	SW8260C			50.00		108	80 - 116				
Surr: Toluene-d8	50.3	µg/L	SW8260C			50.00		101	81 - 123				

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QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1610561
Project: 4th 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: 1610561-001CMS Date Analyzed: 10/28/2016 1731h													
Test Code: 8260-W-DEN100													
Chloroform	34.0	µg/L	SW8260C	0.153	1.00	20.00	9.9	120	50 - 146				
Methylene chloride	20.7	µg/L	SW8260C	0.172	1.00	20.00	0	103	30 - 192				
Surr: 1,2-Dichloroethane-d4	56.5	µg/L	SW8260C			50.00		113	72 - 151				
Surr: 4-Bromofluorobenzene	49.1	µg/L	SW8260C			50.00		98.3	80 - 152				
Surr: Dibromofluoromethane	52.6	µg/L	SW8260C			50.00		105	80 - 124				
Surr: Toluene-d8	41.4	µg/L	SW8260C			50.00		82.8	77 - 129				
Lab Sample ID: 1610575-001AMS Date Analyzed: 10/31/2016 1651h													
Test Code: 8260-W-DEN100													
Chloroform	20.5	µg/L	SW8260C	0.153	1.00	20.00	0	103	50 - 146				
Methylene chloride	18.4	µg/L	SW8260C	0.172	1.00	20.00	0	91.9	30 - 192				
Surr: 1,2-Dichloroethane-d4	47.4	µg/L	SW8260C			50.00		94.9	72 - 151				
Surr: 4-Bromofluorobenzene	45.6	µg/L	SW8260C			50.00		91.2	80 - 152				
Surr: Dibromofluoromethane	47.5	µg/L	SW8260C			50.00		94.9	80 - 124				
Surr: Toluene-d8	44.4	µg/L	SW8260C			50.00		88.8	77 - 129				
Lab Sample ID: 1611057-003AMS Date Analyzed: 11/03/2016 1517h													
Test Code: 8260-W-DEN100													
Chloroform	23.8	µg/L	SW8260C	0.153	1.00	20.00	0.6	116	50 - 146				
Surr: 1,2-Dichloroethane-d4	51.7	µg/L	SW8260C			50.00		103	72 - 151				
Surr: 4-Bromofluorobenzene	49.7	µg/L	SW8260C			50.00		99.4	80 - 152				
Surr: Dibromofluoromethane	55.4	µg/L	SW8260C			50.00		111	80 - 124				
Surr: Toluene-d8	50.0	µg/L	SW8260C			50.00		100	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: 1610561
Project: 4th 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: 1610561-001CMSD Date Analyzed: 10/28/2016 1751h													
Test Code: 8260-W-DEN100													
Chloroform	33.2	µg/L	SW8260C	0.153	1.00	20.00	9.9	116	50 - 146	34	2.29	25	
Methylene chloride	20.2	µg/L	SW8260C	0.172	1.00	20.00	0	101	30 - 192	20.7	2.40	25	
Surr: 1,2-Dichloroethane-d4	55.5	µg/L	SW8260C			50.00		111	72 - 151				
Surr: 4-Bromofluorobenzene	49.3	µg/L	SW8260C			50.00		98.5	80 - 152				
Surr: Dibromofluoromethane	52.5	µg/L	SW8260C			50.00		105	80 - 124				
Surr: Toluene-d8	48.0	µg/L	SW8260C			50.00		96.0	77 - 129				
Lab Sample ID: 1610575-001AMSD Date Analyzed: 10/31/2016 1711h													
Test Code: 8260-W-DEN100													
Chloroform	21.2	µg/L	SW8260C	0.153	1.00	20.00	0	106	50 - 146	20.5	3.45	25	
Methylene chloride	21.5	µg/L	SW8260C	0.172	1.00	20.00	0	107	30 - 192	18.4	15.5	25	
Surr: 1,2-Dichloroethane-d4	47.0	µg/L	SW8260C			50.00		94.0	72 - 151				
Surr: 4-Bromofluorobenzene	45.1	µg/L	SW8260C			50.00		90.3	80 - 152				
Surr: Dibromofluoromethane	47.0	µg/L	SW8260C			50.00		93.9	80 - 124				
Surr: Toluene-d8	43.6	µg/L	SW8260C			50.00		87.2	77 - 129				
Lab Sample ID: 1611057-003AMSD Date Analyzed: 11/03/2016 1536h													
Test Code: 8260-W-DEN100													
Chloroform	21.8	µg/L	SW8260C	0.153	1.00	20.00	0.6	106	50 - 146	23.8	8.65	25	
Surr: 1,2-Dichloroethane-d4	52.1	µg/L	SW8260C			50.00		104	72 - 151				
Surr: 4-Bromofluorobenzene	49.0	µg/L	SW8260C			50.00		97.9	80 - 152				
Surr: Dibromofluoromethane	54.2	µg/L	SW8260C			50.00		108	80 - 124				
Surr: Toluene-d8	50.9	µg/L	SW8260C			50.00		102	77 - 129				

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American West Analytical Laboratories

UL
Denison

WORK ORDER Summary

Work Order: **1610561**

Client: Energy Fuels Resources, Inc. Due Date: 11/8/2016

Client ID: DEN100 **Contact:** Garrin Palmer

Project: **4th 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	
1610561-001A	**TW4-05_10262016**	10/26/2016 0838h	10/28/2016 1010h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1610561-001B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1610561-001C				**8260-W-DEN100**			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1610561-002A	**TW4-16_10262016**	10/26/2016 0853h	10/28/2016 1010h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1610561-002B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1610561-002C				**8260-W-DEN100**			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1610561-003A	**TW4-18_10262016**	10/26/2016 0902h	10/28/2016 1010h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1610561-003B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1610561-003C				**8260-W-DEN100**			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1610561-004A	**TW4-09_10262016**	10/26/2016 0909h	10/28/2016 1010h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1610561-004B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1610561-004C				**8260-W-DEN100**			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1610561-005A	**TW4-33_10262016**	10/26/2016 0918h	10/28/2016 1010h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1610561-005B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1610561-005C				**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: **1610561**

Client: Energy Fuels Resources, Inc. Due Date: 11/8/2016

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1610561-006A	**TW4-29_10262016**	10/26/2016 0935h	10/28/2016 1010h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1610561-006B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1610561-006C				**8260-W-DEN100**			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1610561-007A	**TW4-06_10262016**	10/26/2016 0943h	10/28/2016 1010h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1610561-007B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1610561-007C				**8260-W-DEN100**			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1610561-008A	**TW4-08_10272016**	10/27/2016 0842h	10/28/2016 1010h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1610561-008B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1610561-008C				**8260-W-DEN100**			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1610561-009A	**TW4-07_10272016**	10/27/2016 0846h	10/28/2016 1010h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1610561-009B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1610561-009C				**8260-W-DEN100**			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1610561-010A	**TW4-10_10272016**	10/27/2016 0852h	10/28/2016 1010h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1610561-010B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1610561-010C				**8260-W-DEN100**			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1610561-011A	**TW4-75_10262016**	10/26/2016 0838h	10/28/2016 1010h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1610561-011B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				

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WORK ORDER Summary

Work Order: **1610561**

Client: Energy Fuels Resources, Inc. Due Date: 11/8/2016

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1610561-011C	**TW4-75_10262016**	10/26/2016 0838h	10/28/2016 1010h	**8260-W-DEN100**	Aqueous		VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1610561-012A	**TW4-08R_10262016**	10/26/2016 1003h	10/28/2016 1010h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1610561-012B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1610561-012C				**8260-W-DEN100**			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1610561-013A	**Trip Blank**	10/26/2016	10/28/2016 1010h	**8260-W-DEN100**	Aqueous		VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				

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www.awal-labs.com

CHAIN OF CUSTODY

1610561
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		11/1

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: **4th 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	TW4-05_10262016	10/26/2016	838	5	W	X	X	X	
2	TW4-16_10262016	10/26/2016	853	5	W	X	X	X	
3	TW4-18_10262016	10/26/2016	902	5	W	X	X	X	
4	TW4-09_10262016	10/26/2016	909	5	W	X	X	X	
5	TW4-33_10262016	10/26/2016	918	5	W	X	X	X	
6	TW4-29_10262016	10/26/2016	935	5	W	X	X	X	
7	TW4-06_10262016	10/26/2016	943	5	W	X	X	X	
8	TW4-08_10272016	10/27/2016	842	5	W	X	X	X	
9	TW4-07_10272016	10/27/2016	846	5	W	X	X	X	
10	TW4-10_10272016	10/27/2016	852	5	W	X	X	X	
	TW4-75_10262016	10/26/2016	838	5	W	X	X	X	
11	TW4-08R_10262016	10/26/2016	1003	5	W	X	X	X	
12	TRIP BLANK	10/26/2016		3	W			X	

Laboratory Use Only

Samples Were:
1 Shipped or hand delivered
2 Ambient or Chilled
3 Temperature 3.4 °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:	Received by: Signature	Date:
Print Name: TANNER HOLLIDAY	Time: 1230	Print Name:	Time:
Relinquished by: Signature	Date:	Received by: Signature	Date: 10/28/16
Print Name:	Time:	Print Name: Elmer Hoyt	Time: 1010
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: 1610561
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						
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						
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																		

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: 4th Quarter Chloroform 2016

Dear Garrin Palmer: Lab Set ID: 1611111

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 11/4/2016 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: 2016.11.14 11:35:36 -07'00'

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: 4th Quarter Chloroform 2016
Lab Set ID: 1611111
Date Received: 11/4/2016 1025h

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
1611111-001A	MW-32_10312016	10/31/2016 1330h	Aqueous	Anions, E300.0
1611111-001B	MW-32_10312016	10/31/2016 1330h	Aqueous	Nitrite/Nitrate (as N), E353.2
1611111-001C	MW-32_10312016	10/31/2016 1330h	Aqueous	VOA by GC/MS Method 8260C/5030C
1611111-002A	Trip Blank	10/31/2016	Aqueous	VOA by GC/MS Method 8260C/5030C

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

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Inorganic Case Narrative

Client:	Energy Fuels Resources, Inc.
Contact:	Garrin Palmer
Project:	4th Quarter Chloroform 2016
Lab Set ID:	1611111

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Sample Receipt Information:

Date of Receipt:	11/04/2016
Date of Collection:	10/31/2016
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.

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:	4th Quarter Chloroform 2016
Lab Set ID:	1611111

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Sample Receipt Information:

Date of Receipt:	11/04/2016
Date of Collection:	10/31/2016
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.

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: 1611111
Project: 4th 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-R95694 Date Analyzed: 11/09/2016 1212h 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-R95577 Date Analyzed: 11/07/2016 1221h Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.02	mg/L	E353.2	0.00833	0.0100	1.000	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: 1611111
Project: 4th 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-R95694 Date Analyzed: 11/09/2016 1155h													
Test Code: 300.0-W													
Chloride	< 0.100	mg/L	E300.0	0.00516	0.100								
Lab Sample ID: MB-R95577 Date Analyzed: 11/07/2016 1216h													
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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e-mail: awal@awal-labs.com, web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1611111
Project: 4th 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: 1611111-001AMS Date Analyzed: 11/09/2016 2343h Test Code: 300.0-W													
Chloride	142	mg/L	E300.0	0.103	2.00	100.0	36.9	105	90 - 110				
Lab Sample ID: 1611111-001BMS Date Analyzed: 11/07/2016 1224h Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	10.5	mg/L	E353.2	0.0833	0.100	10.00	0	105	90 - 110				
Lab Sample ID: 1611110-001DMS Date Analyzed: 11/07/2016 1236h Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	11.0	mg/L	E353.2	0.0833	0.100	10.00	0	110	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: 1611111
Project: 4th 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: 1611111-001AMSD Date Analyzed: 11/09/2016 2359h													
Test Code: 300.0-W													
Chloride	144	mg/L	E300.0	0.103	2.00	100.0	36.9	107	90 - 110	142	1.57	20	
Lab Sample ID: 1611111-001BMSD Date Analyzed: 11/07/2016 1225h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	10.4	mg/L	E353.2	0.0833	0.100	10.00	0	104	90 - 110	10.5	1.06	10	
Lab Sample ID: 1611110-001DMSD Date Analyzed: 11/07/2016 1236h													
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	11	6.20	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: 1611111
Project: 4th 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 110716A Date Analyzed: 11/07/2016 1008h Test Code: 8260-W-DEN100													
Chloroform	21.7	µg/L	SW8260C	0.153	1.00	20.00	0	109	85 - 124				
Methylene chloride	19.9	µg/L	SW8260C	0.172	1.00	20.00	0	99.4	71 - 135				
Surr: 1,2-Dichloroethane-d4	51.1	µg/L	SW8260C			50.00		102	80 - 122				
Surr: 4-Bromofluorobenzene	48.0	µg/L	SW8260C			50.00		96.1	85 - 121				
Surr: Dibromofluoromethane	57.3	µg/L	SW8260C			50.00		115	80 - 116				
Surr: Toluene-d8	50.7	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: 1611111
Project: 4th 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 110716A Date Analyzed: 11/07/2016 1047h 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	52.4	µg/L	SW8260C			50.00		105	80 - 122				
Surr: 4-Bromofluorobenzene	49.8	µg/L	SW8260C			50.00		99.5	85 - 121				
Surr: Dibromofluoromethane	57.7	µg/L	SW8260C			50.00		115	80 - 116				
Surr: Toluene-d8	51.9	µg/L	SW8260C			50.00		104	81 - 123				

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Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1611111
Project: 4th 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: 1611110-001AMS Date Analyzed: 11/07/2016 1344h													
Test Code: 8260-W-DEN100													
Chloroform	20.8	µg/L	SW8260C	0.153	1.00	20.00	0	104	50 - 146				
Methylene chloride	19.6	µg/L	SW8260C	0.172	1.00	20.00	0	97.9	30 - 192				
Surr: 1,2-Dichloroethane-d4	49.3	µg/L	SW8260C			50.00		98.7	72 - 151				
Surr: 4-Bromofluorobenzene	45.4	µg/L	SW8260C			50.00		90.8	80 - 152				
Surr: Dibromofluoromethane	52.8	µg/L	SW8260C			50.00		106	80 - 124				
Surr: Toluene-d8	45.7	µg/L	SW8260C			50.00		91.5	77 - 129				
Lab Sample ID: 1611111-001CMS Date Analyzed: 11/07/2016 1305h													
Test Code: 8260-W-DEN100													
Chloroform	22.8	µg/L	SW8260C	0.153	1.00	20.00	0	114	50 - 146				
Methylene chloride	20.6	µg/L	SW8260C	0.172	1.00	20.00	0	103	30 - 192				
Surr: 1,2-Dichloroethane-d4	52.8	µg/L	SW8260C			50.00		106	72 - 151				
Surr: 4-Bromofluorobenzene	45.8	µg/L	SW8260C			50.00		91.6	80 - 152				
Surr: Dibromofluoromethane	56.5	µg/L	SW8260C			50.00		113	80 - 124				
Surr: Toluene-d8	49.2	µg/L	SW8260C			50.00		98.4	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: 1611111
Project: 4th 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: 1611110-001AMSD Date Analyzed: 11/07/2016 1404h													
Test Code: 8260-W-DEN100													
Chloroform	23.2	µg/L	SW8260C	0.153	1.00	20.00	0	116	50 - 146	20.8	10.8	25	
Methylene chloride	21.2	µg/L	SW8260C	0.172	1.00	20.00	0	106	30 - 192	19.6	8.09	25	
Surr: 1,2-Dichloroethane-d4	52.5	µg/L	SW8260C			50.00		105	72 - 151				
Surr: 4-Bromofluorobenzene	48.3	µg/L	SW8260C			50.00		96.7	80 - 152				
Surr: Dibromofluoromethane	55.5	µg/L	SW8260C			50.00		111	80 - 124				
Surr: Toluene-d8	48.9	µg/L	SW8260C			50.00		97.7	77 - 129				
Lab Sample ID: 1611111-001CMSD Date Analyzed: 11/07/2016 1325h													
Test Code: 8260-W-DEN100													
Chloroform	22.5	µg/L	SW8260C	0.153	1.00	20.00	0	112	50 - 146	22.8	1.10	25	
Methylene chloride	20.9	µg/L	SW8260C	0.172	1.00	20.00	0	104	30 - 192	20.6	1.16	25	
Surr: 1,2-Dichloroethane-d4	52.8	µg/L	SW8260C			50.00		106	72 - 151				
Surr: 4-Bromofluorobenzene	47.8	µg/L	SW8260C			50.00		95.7	80 - 152				
Surr: Dibromofluoromethane	56.4	µg/L	SW8260C			50.00		113	80 - 124				
Surr: Toluene-d8	49.0	µg/L	SW8260C			50.00		98.0	77 - 129				

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American West Analytical Laboratories

UL
Denison

WORK ORDER Summary

Work Order: **1611111**

Client: Energy Fuels Resources, Inc. Due Date: 11/15/2016

Client ID: DEN100 **Contact:** Garrin Palmer

Project: **4th 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	
1611111-001A	**MW-32_10312016**	10/31/2016 1330h	11/4/2016 1025h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1611111-001B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1611111-001C				**8260-W-DEN100**			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1611111-002A	**Trip Blank**	10/31/2016	11/4/2016 1025h	**8260-W-DEN100**	Aqueous		VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				

Printed: 11/4/2016 FOR LABORATORY USE ONLY [fill out on page 1]: %M ☐ RT ☐ CN ☐ TAT ☐ QC ☐ HOK_____ HOK_____ HOK_____ COC Emailed_____

American West Analytical Laboratories

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CHAIN OF CUSTODY

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.

16/111
AWAL Lab Sample Set #

Page 1 of 1

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 #:
Email: **gpalmer@energyfuels.com; KWeinel@energyfuels.com; dturk@energyfuels.com**
Project Name: **4TH 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

	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_10312016	10/31/2016	1330	5	W	X	X	X	
2	TRIP BLANK	10/31/2016		3	W	~~X~~ NO	~~X~~ NO	X	
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									

Laboratory Use Only

Samples Were:
1 Shipped or hand delivered
2 Ambient or Chilled
3 Temperature 2.5 °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: James Holliday	Date: 11/3/2016	Received by: Signature	Date:
Print Name: TANNER HOLLIDAY	Time: 1245	Print Name:	Time: 11/4
Relinquished by: Signature	Date:	Received by: Signature: Elena Hayward	Date: 11/4/16
Print Name:	Time:	Print Name: Elena Hayward	Time: 1025
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: 1611111

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	Y/S																	
O & G	pH <2 HCL																		
Phenols	pH <2 H_2SO_4																		
Sulfide	pH >9 NaOH, Zn Acetate																		
TKN	pH <2 H_2SO_4																		
T PO_4	pH <2 H_2SO_4																		

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: 4th Quarter Chloroform 2016

Dear Garrin Palmer: Lab Set ID: 1611262

3440 South 700 West
Salt Lake City, UT 84119

Phone: (801) 263-8686
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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

American West Analytical Laboratories received sample(s) on 11/11/2016 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: 2016.11.29 14:09:10 -07'00'

Laboratory Director or designee

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SAMPLE SUMMARY

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Chloroform 2016
Lab Set ID: 1611262
Date Received: 11/11/2016 1035h

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
1611262-001A	TW4-38R_11092016	11/9/2016 915h	Aqueous	Anions, E300.0
1611262-001B	TW4-38R_11092016	11/9/2016 915h	Aqueous	Nitrite/Nitrate (as N), E353.2
1611262-001C	TW4-38R_11092016	11/9/2016 915h	Aqueous	VOA by GC/MS Method 8260C/5030C
1611262-002A	TW4-38_11102016	11/10/2016 700h	Aqueous	Anions, E300.0
1611262-002B	TW4-38_11102016	11/10/2016 700h	Aqueous	Nitrite/Nitrate (as N), E353.2
1611262-002C	TW4-38_11102016	11/10/2016 700h	Aqueous	VOA by GC/MS Method 8260C/5030C
1611262-003A	TW4-39_11102016	11/10/2016 715h	Aqueous	Anions, E300.0
1611262-003B	TW4-39_11102016	11/10/2016 715h	Aqueous	Nitrite/Nitrate (as N), E353.2
1611262-003C	TW4-39_11102016	11/10/2016 715h	Aqueous	VOA by GC/MS Method 8260C/5030C
1611262-004A	TW4-60_11102016	11/10/2016 740h	Aqueous	Anions, E300.0
1611262-004B	TW4-60_11102016	11/10/2016 740h	Aqueous	Nitrite/Nitrate (as N), E353.2
1611262-004C	TW4-60_11102016	11/10/2016 740h	Aqueous	VOA by GC/MS Method 8260C/5030C
1611262-005A	Trip Blank	11/9/2016	Aqueous	VOA by GC/MS Method 8260C/5030C

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Kyle F. Gross
Laboratory Director
Jose Rocha
QA Officer

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Inorganic Case Narrative

Client:	Energy Fuels Resources, Inc.
Contact:	Garrin Palmer
Project:	4th Quarter Chloroform 2016
Lab Set ID:	1611262

Sample Receipt Information:

Date of Receipt:	11/11/2016
Date(s) of Collection:	11/9-11/10/2016
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, with the following exceptions:

Sample ID	Analyte	QC	Explanation
1611262-001B	Nitrate-Nitrite	MS	Sample matrix interference
1611263-001D	Nitrate-Nitrite	MS/MSD	Sample matrix interference

Duplicate (DUP): The parameters that required a duplicate analysis had RPDs within the control 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

Volatile Case Narrative

Client:	Energy Fuels Resources, Inc.
Contact:	Garrin Palmer
Project:	4th Quarter Chloroform 2016
Lab Set ID:	1611262

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web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Sample Receipt Information:

Date of Receipt:	11/11/2016
Date(s) of Collection:	11/9-11/10/2016
Sample Condition:	Intact
C-O-C Discrepancies:	None
Method:	SW-846 8260C/5030C
Analysis:	Volatile Organic Compounds

General Set Comments: One target analyte was 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: 1611262
Project: 4th 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-R95919 Date Analyzed: 11/15/2016 1415h													
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-R95979 Date Analyzed: 11/17/2016 1731h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	0.999	mg/L	E353.2	0.00833	0.0100	1.000	0	99.9	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: 1611262
Project: 4th 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-R95919 Date Analyzed: 11/15/2016 1359h													
Test Code: 300.0-W													
Chloride	< 0.100	mg/L	E300.0	0.00516	0.100								
Lab Sample ID: MB-R95979 Date Analyzed: 11/17/2016 1730h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	< 0.0100	mg/L	E353.2	0.00833	0.0100								

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: 1611262
Project: 4th 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: 1611262-004AMS Date Analyzed: 11/15/2016 1613h Test Code: 300.0-W													
Chloride	5.34	mg/L	E300.0	0.00516	0.100	5.000	0.00675	107	90 - 110				
Lab Sample ID: 1611262-001BMS Date Analyzed: 11/17/2016 1736h Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	11.1	mg/L	E353.2	0.0833	0.100	10.00	0	111	90 - 110				1
Lab Sample ID: 1611263-001DMS Date Analyzed: 11/17/2016 1743h Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	11.5	mg/L	E353.2	0.0833	0.100	10.00	0.0847	114	90 - 110				1

1 - Matrix spike recovery indicates matrix interference. The method is in control as indicated by the LCS.

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: 1611262
Project: 4th 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: 1611262-004AMSD Date Analyzed: 11/15/2016 1630h Test Code: 300.0-W													
Chloride	5.49	mg/L	E300.0	0.00516	0.100	5.000	0.00675	110	90 - 110	5.34	2.86	20	
Lab Sample ID: 1611262-001BMSD Date Analyzed: 11/17/2016 1737h Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	10.6	mg/L	E353.2	0.0833	0.100	10.00	0	106	90 - 110	11.1	4.33	10	
Lab Sample ID: 1611263-001DMSD Date Analyzed: 11/17/2016 1744h Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	12.2	mg/L	E353.2	0.0833	0.100	10.00	0.0847	121	90 - 110	11.5	5.24	10	1

1 - Matrix spike recovery indicates matrix interference. The method is in control as indicated by the LCS.

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1611262
Project: 4th 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 111116A Date Analyzed: 11/11/2016 1106h Test Code: 8260-W-DEN100													
Chloroform	21.0	µg/L	SW8260C	0.153	1.00	20.00	0	105	85 - 124				
Methylene chloride	21.7	µg/L	SW8260C	0.172	1.00	20.00	0	108	71 - 135				
Surr: 1,2-Dichloroethane-d4	50.5	µg/L	SW8260C			50.00		101	80 - 122				
Surr: 4-Bromofluorobenzene	47.1	µg/L	SW8260C			50.00		94.2	85 - 121				
Surr: Dibromofluoromethane	52.2	µg/L	SW8260C			50.00		104	80 - 116				
Surr: Toluene-d8	49.9	µg/L	SW8260C			50.00		99.8	81 - 123				

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Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1611262
Project: 4th 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 111116A Date Analyzed: 11/11/2016 1146h 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	54.2	µg/L	SW8260C			50.00		108	80 - 122				
Surr: 4-Bromofluorobenzene	49.8	µg/L	SW8260C			50.00		99.5	85 - 121				
Surr: Dibromofluoromethane	54.9	µg/L	SW8260C			50.00		110	80 - 116				
Surr: Toluene-d8	51.4	µg/L	SW8260C			50.00		103	81 - 123				

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Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1611262
Project: 4th 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: 1611262-001CMS Date Analyzed: 11/11/2016 1715h Test Code: 8260-W-DEN100													
Chloroform	21.9	µg/L	SW8260C	0.153	1.00	20.00	0	110	50 - 146				
Methylene chloride	21.9	µg/L	SW8260C	0.172	1.00	20.00	0	110	30 - 192				
Surr: 1,2-Dichloroethane-d4	54.1	µg/L	SW8260C			50.00		108	72 - 151				
Surr: 4-Bromofluorobenzene	47.4	µg/L	SW8260C			50.00		94.9	80 - 152				
Surr: Dibromofluoromethane	54.5	µg/L	SW8260C			50.00		109	80 - 124				
Surr: Toluene-d8	49.6	µg/L	SW8260C			50.00		99.2	77 - 129				

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Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1611262
Project: 4th 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: 1611262-001CMSD Date Analyzed: 11/11/2016 1735h Test Code: 8260-W-DEN100													
Chloroform	20.2	µg/L	SW8260C	0.153	1.00	20.00	0	101	50 - 146	21.9	8.07	25	
Methylene chloride	20.4	µg/L	SW8260C	0.172	1.00	20.00	0	102	30 - 192	21.9	7.28	25	
Surr: 1,2-Dichloroethane-d4	52.6	µg/L	SW8260C			50.00		105	72 - 151				
Surr: 4-Bromofluorobenzene	47.8	µg/L	SW8260C			50.00		95.6	80 - 152				
Surr: Dibromofluoromethane	53.2	µg/L	SW8260C			50.00		106	80 - 124				
Surr: Toluene-d8	48.5	µg/L	SW8260C			50.00		97.0	77 - 129				

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UL
Denison

WORK ORDER Summary

Work Order: **1611262**

Client: Energy Fuels Resources, Inc. Due Date: 11/22/2016

Client ID: DEN100 **Contact:** Garrin Palmer

Project: **4th 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	
1611262-001A	**TW4-38R_11092016**	11/9/2016 0915h	11/11/2016 1035h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1611262-001B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1611262-001C				**8260-W-DEN100**			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1611262-002A	**TW4-38_11102016**	11/10/2016 0700h	11/11/2016 1035h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1611262-002B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1611262-002C				**8260-W-DEN100**			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1611262-003A	**TW4-39_11102016**	11/10/2016 0715h	11/11/2016 1035h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1611262-003B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1611262-003C				**8260-W-DEN100**			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1611262-004A	**TW4-60_11102016**	11/10/2016 0740h	11/11/2016 1035h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1611262-004B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1611262-004C				**8260-W-DEN100**			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1611262-005A	**Trip Blank**	11/9/2016	11/11/2016 1035h	**8260-W-DEN100**	Aqueous		VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				

Printed: 11/11/2016 FOR LABORATORY USE ONLY [fill out on page 1]: %M ☐ RT ☐ CN ☐ TAT ☐ QC ☐ HOK_____ HOK_____ HOK_____ COC Emailed 11/11/16

CHAIN OF CUSTODY

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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.

1611262
AWAL Lab Sample Set #
Page 1 of 1

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 #:
Email: gpalmer@energyfuels.com; KWeinel@energyfuels.com; dturk@energyfuels.com
Project Name: 4TH 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	TW4-38R_11092016	11/9/2016	915	5	W	X	X	X	
2	TW4-38_11102016	11/10/2016	700	5	W	X	X	X	
3	TW4-39_11102016	11/10/2016	715	5	W	X	X	X	
4	TW4-60_11102016	11/10/2016	740	5	W	X	X	X	
5	TRIP BLANK	11/9/2016		3	W			X	
6	TEMP BLANK	11/10/2016							
7									
8									
9									
10									
11									
12									

Laboratory Use Only

Samples Were: UPS
1 Shipped or hand-delivered
2 Ambient or Chilled
3 Temperature 4.8 °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? Y N

Relinquished by: Signature: Tanner Holliday	Date: 11/10/2016	Received by: Signature	Date:
Print Name: Tanner Holliday	Time: 1245	Print Name:	Time:
Relinquished by: Signature	Date:	Received by: Signature	Date: 11/11/16
Print Name:	Time:	Print Name: Elena Hayes	Time: 1025
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: 1611262

pH Lot #: 5005

Preservation Check Sheet

Sample Set Extension and pH

Analysis	Preservative	1	2	3	4														
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														
O & G	pH <2 HCL																		
Phenols	pH <2 H_2SO_4																		
Sulfide	pH >9 NaOH, Zn Acetate																		
TKN	pH <2 H_2SO_4																		
T PO_4	pH <2 H_2SO_4																		

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	--		1881		N/A	6.78		N/A	15.90		N/A	344		N/A	0.0		N/A
TW4-01	NA	Continuously pumped well	--		3271		N/A	7.19		N/A	15.91		N/A	256		N/A	0.0		N/A
TW4-02	NA	Continuously pumped well	--		3651		N/A	6.65		N/A	15.43		N/A	354		N/A	1.8		N/A
TW4-03	54.52	110.00	109	OK	1697	1705	0.47	6.35	6.35	0.00	14.63	14.63	0.00	529	529	0.00	8.8	9.0	2.25
TW4-04	NA	Continuously pumped well	--		2383		N/A	6.74		N/A	15.28		N/A	265		N/A	0.0		N/A
TW4-05	33.60	90.00	67	OK	1502	1500	0.13	6.58	6.58	0.00	15.18	15.19	0.07	490	490	0.00	0.0	0.0	0.00
TW4-06	15.87	33.33	32	Pumped Dry	3815	3831	0.42	6.60	6.59	0.15	14.40	14.36	0.28	NM		NC	NM		NC
TW4-07	28.31	70.00	57	OK	1616	1666	3.05	6.62	6.62	0.00	14.95	14.96	0.07	445	445	0.00	13	14	7.41
TW4-08	29.51	70.00	59	OK	4908	4905	0.06	6.31	6.32	0.16	15.00	14.99	0.07	533	532	0.19	0.0	0.0	0.00
TW4-09	37.01	90.00	74	OK	2417	2418	0.04	6.42	6.42	0.00	14.90	14.89	0.07	482	482	0.00	19	20	5.13
TW4-10	31.37	70.00	63	Pumped Dry	2840	2814	0.92	5.99	6.00	0.17	15.60	15.49	0.71	NM		NC	NM		NC
TW4-11	NA	Continuously pumped well	--		3561		N/A	6.63		N/A	15.38		N/A	327		N/A	5.0		N/A
TW4-12	35.84	80.00	72	OK	1467	1469	0.14	6.54	6.55	0.15	14.85	14.86	0.07	514	514	0.00	8.9	9.5	6.52
TW4-13	32.65	65.00	65	Pumped Dry	2141	2169	1.30	5.59	5.63	0.71	13.39	13.50	0.82	NM		NC	NM		NC
TW4-14	8.87	17.50	18	Pumped Dry	5192	5195	0.06	6.27	6.31	0.64	14.15	14.20	0.35	NM		NC	NM		NC
MW-26	NA	Continuously pumped well	--		3415		N/A	6.54		N/A	15.45		N/A	288		N/A	5.0		N/A
TW4-16	50.80	120.00	102	OK	3772	3773	0.03	6.36	6.37	0.16	14.73	14.73	0.00	490	490	0.00	100	97	3.05
MW-32	35.78	71.61	72	OK	3814	3817	0.08	6.40	6.38	0.31	14.82	14.88	0.40	528	522	1.14	15	15.3	1.98
TW4-18	46.48	110.00	93	OK	1958	1947	0.56	6.26	6.26	0.00	15.29	15.29	0.00	484	484	0.00	13	13	0.00
TW4-19	NA	Continuously pumped well	--		3086		N/A	6.80		N/A	15.65		N/A	481		N/A	5.0		N/A
TW4-20	NA	Continuously pumped well	--		4982		N/A	6.59		N/A	16.50		N/A	450		N/A	1.0		N/A
TW4-21	NA	Continuously pumped well	--		4524		N/A	6.76		N/A	16.50		N/A	533		N/A	5.9		N/A
TW4-22	NA	Continuously pumped well	--		5333		N/A	6.60		N/A	15.85		N/A	480		N/A	0.0		N/A
TW4-23	28.56	80.00	57	OK	3630	3629	0.03	6.28	6.27	0.16	14.45	14.46	0.07	382	380	0.52	88	87	1.14
TW4-24	NA	Continuously pumped well	--		7270		N/A	6.45		N/A	15.79		N/A	511		N/A	21		N/A
TW4-25	NA	Continuously pumped well	--		2733		N/A	6.78		N/A	16.04		N/A	504		N/A	0.0		N/A
TW4-26	12.03	20.00	24	Pumped Dry	6351	6394	0.67	4.91	4.90	0.20	14.00	14.06	0.43	NM		NC	NM		NC
TW4-27	10.80	15.00	22	Pumped Dry	5126	5149	0.45	6.15	6.18	0.49	13.95	14.01	0.43	NM		NC	NM		NC
TW4-28	43.39	90.00	87	OK	1381	1379	0.14	6.61	6.62	0.15	14.77	14.78	0.07	515	514	0.19	17.9	18.1	1.11
TW4-29	12.48	20.00	25	Pumped Dry	4207	4210	0.07	6.84	6.83	0.15	14.73	14.70	0.20	NM		NC	NM		NC
TW4-30	11.00	23.33	22	Pumped Dry	4370	4379	0.21	4.79	4.83	0.83	14.04	14.09	0.36	NM		NC	NM		NC
TW4-31	17.69	30.00	35	Pumped Dry	4738	4749	0.23	6.62	6.63	0.15	14.66	14.65	0.07	NM		NC	NM		NC
TW4-32	41.43	90.00	83	OK	7079	7110	0.44	3.50	3.50	0.00	14.95	14.93	0.13	613	612	0.16	13.4	13.5	0.74
TW4-33	9.56	13.33	19	Pumped Dry	4327	4359	0.74	7.01	7.00	0.14	15.40	15.35	0.33	NM		NC	NM		NC
TW4-34	16.19	35.00	32	Pumped Dry	3932	3942	0.25	6.65	6.65	0.00	14.29	14.27	0.14	NM		NC	NM		NC
TW4-35	8.68	13.33	17	Pumped Dry	4372	4390	0.41	6.51	6.49	0.31	14.05	14.08	0.21	NM		NC	NM		NC
TW4-36	27.78	50.00	56	Pumped Dry	2399	2417	0.75	6.48	6.47	0.15	15.20	15.16	0.26	NM		NC	NM		NC
TW4-37	NA	Continuously pumped well	--		4082		N/A	6.65		N/A	15.98		N/A	467		N/A	0.0		N/A
TW4-38	39.06	100.00	78	OK	1355	1356	0.07	6.48	6.49	0.15	14.60	14.61	0.07	500	499	0.20	20	21	4.88
TW4-39	38.99	100.00	78	OK	2469	2474	0.20	6.54	6.53	0.15	15.71	15.72	0.06	506	506	0.00	36	36	0.00

MW-4, TW4-01, TW4-02, TW4-4, TW4-11, MW-26, TW4-19, TW4-20, TW4-21, TW4-22, TW4-24, TW4-25, TW4-37 and TW4-39 are continually pumped wells. TW4-22, TW4-24, and TW4-25 are pumped under the nitrate program.

TW4-06, TW4-10, TW4-13, 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	10/12/2016	10/17/2016	5	14	OK
Trip Blank	Chloroform	10/12/2016	10/17/2016	5	14	OK
Trip Blank	Chloromethane	10/12/2016	10/17/2016	5	14	OK
Trip Blank	Methylene chloride	10/12/2016	10/17/2016	5	14	OK
Trip Blank	Carbon tetrachloride	10/18/2016	10/21/2016	3	14	OK
Trip Blank	Chloroform	10/18/2016	10/21/2016	3	14	OK
Trip Blank	Chloromethane	10/18/2016	10/21/2016	3	14	OK
Trip Blank	Methylene chloride	10/18/2016	10/21/2016	3	14	OK
Trip Blank	Carbon tetrachloride	10/26/2016	10/28/2016	2	14	OK
Trip Blank	Chloroform	10/26/2016	10/28/2016	2	14	OK
Trip Blank	Chloromethane	10/26/2016	10/28/2016	2	14	OK
Trip Blank	Methylene chloride	10/26/2016	10/28/2016	2	14	OK
Trip Blank	Carbon tetrachloride	10/31/2016	11/7/2016	7	14	OK
Trip Blank	Chloroform	10/31/2016	11/7/2016	7	14	OK
Trip Blank	Chloromethane	10/31/2016	11/7/2016	7	14	OK
Trip Blank	Methylene chloride	10/31/2016	11/7/2016	7	14	OK
Trip Blank	Carbon tetrachloride	11/9/2016	11/11/2016	2	14	OK
Trip Blank	Chloroform	11/9/2016	11/11/2016	2	14	OK
Trip Blank	Chloromethane	11/9/2016	11/11/2016	2	14	OK
Trip Blank	Methylene chloride	11/9/2016	11/11/2016	2	14	OK
MW-04	Chloride	10/12/2016	10/17/2016	5	28	OK
MW-04	Carbon tetrachloride	10/12/2016	10/14/2016	2	14	OK
MW-04	Chloroform	10/12/2016	10/17/2016	5	14	OK
MW-04	Chloromethane	10/12/2016	10/14/2016	2	14	OK
MW-04	Methylene chloride	10/12/2016	10/14/2016	2	14	OK
MW-04	Nitrate/Nitrite (as N)	10/12/2016	10/19/2016	7	28	OK
MW-26	Chloride	10/12/2016	10/17/2016	5	28	OK
MW-26	Carbon tetrachloride	10/12/2016	10/14/2016	2	14	OK
MW-26	Chloroform	10/12/2016	10/17/2016	5	14	OK
MW-26	Chloromethane	10/12/2016	10/14/2016	2	14	OK
MW-26	Methylene chloride	10/12/2016	10/14/2016	2	14	OK
MW-26	Nitrate/Nitrite (as N)	10/12/2016	10/19/2016	7	28	OK
MW-32	Chloride	10/31/2016	11/9/2016	9	28	OK
MW-32	Carbon tetrachloride	10/31/2016	11/7/2016	7	14	OK
MW-32	Chloroform	10/31/2016	11/7/2016	7	14	OK
MW-32	Chloromethane	10/31/2016	11/7/2016	7	14	OK
MW-32	Methylene chloride	10/31/2016	11/7/2016	7	14	OK
MW-32	Nitrate/Nitrite (as N)	10/31/2016	11/7/2016	7	28	OK
TW4-01	Chloride	10/13/2016	10/17/2016	4	28	OK
TW4-01	Carbon tetrachloride	10/13/2016	10/14/2016	1	14	OK
TW4-01	Chloroform	10/13/2016	10/17/2016	4	14	OK
TW4-01	Chloromethane	10/13/2016	10/14/2016	1	14	OK
TW4-01	Methylene chloride	10/13/2016	10/14/2016	1	14	OK
TW4-01	Nitrate/Nitrite (as N)	10/13/2016	10/19/2016	6	28	OK
TW4-02	Chloride	10/12/2016	10/17/2016	5	28	OK
TW4-02	Carbon tetrachloride	10/12/2016	10/14/2016	2	14	OK
TW4-02	Chloroform	10/12/2016	10/17/2016	5	14	OK
TW4-02	Chloromethane	10/12/2016	10/14/2016	2	14	OK
TW4-02	Methylene chloride	10/12/2016	10/14/2016	2	14	OK
TW4-02	Nitrate/Nitrite (as N)	10/12/2016	10/19/2016	7	28	OK
TW4-03	Chloride	10/19/2016	10/28/2016	9	28	OK
TW4-03	Carbon tetrachloride	10/19/2016	10/21/2016	2	14	OK
TW4-03	Chloroform	10/19/2016	10/21/2016	2	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
TW4-03	Chloromethane	10/19/2016	10/21/2016	2	14	OK
TW4-03	Methylene chloride	10/19/2016	10/21/2016	2	14	OK
TW4-03	Nitrate/Nitrite (as N)	10/19/2016	10/21/2016	2	28	OK
TW4-03	Chloride	10/18/2016	10/28/2016	10	28	OK
TW4-03	Carbon tetrachloride	10/18/2016	10/21/2016	3	14	OK
TW4-03	Chloroform	10/18/2016	10/21/2016	3	14	OK
TW4-03	Chloromethane	10/18/2016	10/21/2016	3	14	OK
TW4-03	Methylene chloride	10/18/2016	10/21/2016	3	14	OK
TW4-03	Nitrate/Nitrite (as N)	10/18/2016	10/21/2016	3	28	OK
TW4-04	Chloride	10/13/2016	10/17/2016	4	28	OK
TW4-04	Carbon tetrachloride	10/13/2016	10/14/2016	1	14	OK
TW4-04	Chloroform	10/13/2016	10/17/2016	4	14	OK
TW4-04	Chloromethane	10/13/2016	10/14/2016	1	14	OK
TW4-04	Methylene chloride	10/13/2016	10/14/2016	1	14	OK
TW4-04	Nitrate/Nitrite (as N)	10/13/2016	10/19/2016	6	28	OK
TW4-05	Chloride	10/26/2016	11/4/2016	9	28	OK
TW4-05	Carbon tetrachloride	10/26/2016	10/28/2016	2	14	OK
TW4-05	Chloroform	10/26/2016	10/28/2016	2	14	OK
TW4-05	Chloromethane	10/26/2016	10/28/2016	2	14	OK
TW4-05	Methylene chloride	10/26/2016	10/28/2016	2	14	OK
TW4-05	Nitrate/Nitrite (as N)	10/26/2016	10/31/2016	5	28	OK
TW4-06	Chloride	10/26/2016	11/7/2016	12	28	OK
TW4-06	Carbon tetrachloride	10/26/2016	10/28/2016	2	14	OK
TW4-06	Chloroform	10/26/2016	10/31/2016	5	14	OK
TW4-06	Chloromethane	10/26/2016	10/28/2016	2	14	OK
TW4-06	Methylene chloride	10/26/2016	10/28/2016	2	14	OK
TW4-06	Nitrate/Nitrite (as N)	10/26/2016	10/31/2016	5	28	OK
TW4-07	Chloride	10/27/2016	11/7/2016	11	28	OK
TW4-07	Carbon tetrachloride	10/27/2016	10/28/2016	1	14	OK
TW4-07	Chloroform	10/27/2016	10/31/2016	4	14	OK
TW4-07	Chloromethane	10/27/2016	10/28/2016	1	14	OK
TW4-07	Methylene chloride	10/27/2016	10/28/2016	1	14	OK
TW4-07	Nitrate/Nitrite (as N)	10/27/2016	10/31/2016	4	28	OK
TW4-08	Chloride	10/27/2016	11/7/2016	11	28	OK
TW4-08	Carbon tetrachloride	10/27/2016	10/28/2016	1	14	OK
TW4-08	Chloroform	10/27/2016	10/31/2016	4	14	OK
TW4-08	Chloromethane	10/27/2016	10/28/2016	1	14	OK
TW4-08	Methylene chloride	10/27/2016	10/28/2016	1	14	OK
TW4-08	Nitrate/Nitrite (as N)	10/27/2016	10/31/2016	4	28	OK
TW4-08R	Chloride	10/26/2016	11/4/2016	9	28	OK
TW4-08R	Carbon tetrachloride	10/26/2016	10/31/2016	5	14	OK
TW4-08R	Chloroform	10/26/2016	10/31/2016	5	14	OK
TW4-08R	Chloromethane	10/26/2016	10/31/2016	5	14	OK
TW4-08R	Methylene chloride	10/26/2016	10/31/2016	5	14	OK
TW4-08R	Nitrate/Nitrite (as N)	10/26/2016	10/31/2016	5	28	OK
TW4-09	Chloride	10/26/2016	11/7/2016	12	28	OK
TW4-09	Carbon tetrachloride	10/26/2016	10/28/2016	2	14	OK
TW4-09	Chloroform	10/26/2016	10/28/2016	2	14	OK
TW4-09	Chloromethane	10/26/2016	10/28/2016	2	14	OK
TW4-09	Methylene chloride	10/26/2016	10/28/2016	2	14	OK
TW4-09	Nitrate/Nitrite (as N)	10/26/2016	10/31/2016	5	28	OK
TW4-10	Chloride	10/27/2016	11/7/2016	11	28	OK
TW4-10	Carbon tetrachloride	10/27/2016	10/28/2016	1	14	OK

I-2: Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
TW4-10	Chloroform	10/27/2016	11/3/2016	7	14	OK
TW4-10	Chloromethane	10/27/2016	10/28/2016	1	14	OK
TW4-10	Methylene chloride	10/27/2016	10/28/2016	1	14	OK
TW4-10	Nitrate/Nitrite (as N)	10/27/2016	10/31/2016	4	28	OK
TW4-11	Chloride	10/12/2016	10/17/2016	5	28	OK
TW4-11	Carbon tetrachloride	10/12/2016	10/14/2016	2	14	OK
TW4-11	Chloroform	10/12/2016	10/17/2016	5	14	OK
TW4-11	Chloromethane	10/12/2016	10/14/2016	2	14	OK
TW4-11	Methylene chloride	10/12/2016	10/14/2016	2	14	OK
TW4-11	Nitrate/Nitrite (as N)	10/12/2016	10/19/2016	7	28	OK
TW4-12	Chloride	10/19/2016	10/28/2016	9	28	OK
TW4-12	Carbon tetrachloride	10/19/2016	10/21/2016	2	14	OK
TW4-12	Chloroform	10/19/2016	10/21/2016	2	14	OK
TW4-12	Chloromethane	10/19/2016	10/21/2016	2	14	OK
TW4-12	Methylene chloride	10/19/2016	10/21/2016	2	14	OK
TW4-12	Nitrate/Nitrite (as N)	10/19/2016	10/21/2016	2	28	OK
TW4-13	Chloride	10/19/2016	10/28/2016	9	28	OK
TW4-13	Carbon tetrachloride	10/19/2016	10/21/2016	2	14	OK
TW4-13	Chloroform	10/19/2016	10/21/2016	2	14	OK
TW4-13	Chloromethane	10/19/2016	10/21/2016	2	14	OK
TW4-13	Methylene chloride	10/19/2016	10/21/2016	2	14	OK
TW4-13	Nitrate/Nitrite (as N)	10/19/2016	10/21/2016	2	28	OK
TW4-14	Chloride	10/20/2016	10/28/2016	8	28	OK
TW4-14	Carbon tetrachloride	10/20/2016	10/21/2016	1	14	OK
TW4-14	Chloroform	10/20/2016	10/21/2016	1	14	OK
TW4-14	Chloromethane	10/20/2016	10/21/2016	1	14	OK
TW4-14	Methylene chloride	10/20/2016	10/21/2016	1	14	OK
TW4-14	Nitrate/Nitrite (as N)	10/20/2016	10/21/2016	1	28	OK
TW4-16	Chloride	10/26/2016	11/7/2016	12	28	OK
TW4-16	Carbon tetrachloride	10/26/2016	10/28/2016	2	14	OK
TW4-16	Chloroform	10/26/2016	10/28/2016	2	14	OK
TW4-16	Chloromethane	10/26/2016	10/28/2016	2	14	OK
TW4-16	Methylene chloride	10/26/2016	10/28/2016	2	14	OK
TW4-16	Nitrate/Nitrite (as N)	10/26/2016	10/31/2016	5	28	OK
TW4-18	Chloride	10/26/2016	11/7/2016	12	28	OK
TW4-18	Carbon tetrachloride	10/26/2016	10/28/2016	2	14	OK
TW4-18	Chloroform	10/26/2016	10/28/2016	2	14	OK
TW4-18	Chloromethane	10/26/2016	10/28/2016	2	14	OK
TW4-18	Methylene chloride	10/26/2016	10/28/2016	2	14	OK
TW4-18	Nitrate/Nitrite (as N)	10/26/2016	10/31/2016	5	28	OK
TW4-19	Chloride	10/13/2016	10/17/2016	4	28	OK
TW4-19	Carbon tetrachloride	10/13/2016	10/17/2016	4	14	OK
TW4-19	Chloroform	10/13/2016	10/17/2016	4	14	OK
TW4-19	Chloromethane	10/13/2016	10/17/2016	4	14	OK
TW4-19	Methylene chloride	10/13/2016	10/17/2016	4	14	OK
TW4-19	Nitrate/Nitrite (as N)	10/13/2016	10/19/2016	6	28	OK
TW4-20	Chloride	10/12/2016	10/18/2016	6	28	OK
TW4-20	Carbon tetrachloride	10/12/2016	10/17/2016	5	14	OK
TW4-20	Chloroform	10/12/2016	10/17/2016	5	14	OK
TW4-20	Chloromethane	10/12/2016	10/17/2016	5	14	OK
TW4-20	Methylene chloride	10/12/2016	10/17/2016	5	14	OK
TW4-20	Nitrate/Nitrite (as N)	10/12/2016	10/19/2016	7	28	OK
TW4-21	Chloride	10/12/2016	10/17/2016	5	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
TW4-21	Carbon tetrachloride	10/12/2016	10/14/2016	2	14	OK
TW4-21	Chloroform	10/12/2016	10/17/2016	5	14	OK
TW4-21	Chloromethane	10/12/2016	10/14/2016	2	14	OK
TW4-21	Methylene chloride	10/12/2016	10/14/2016	2	14	OK
TW4-21	Nitrate/Nitrite (as N)	10/12/2016	10/19/2016	7	28	OK
TW4-22	Chloride	10/12/2016	10/17/2016	5	28	OK
TW4-22	Carbon tetrachloride	10/12/2016	10/17/2016	5	14	OK
TW4-22	Chloroform	10/12/2016	10/17/2016	5	14	OK
TW4-22	Chloromethane	10/12/2016	10/17/2016	5	14	OK
TW4-22	Methylene chloride	10/12/2016	10/17/2016	5	14	OK
TW4-22	Nitrate/Nitrite (as N)	10/12/2016	10/19/2016	7	28	OK
TW4-23	Chloride	10/20/2016	10/28/2016	8	28	OK
TW4-23	Carbon tetrachloride	10/20/2016	10/21/2016	1	14	OK
TW4-23	Chloroform	10/20/2016	10/21/2016	1	14	OK
TW4-23	Chloromethane	10/20/2016	10/21/2016	1	14	OK
TW4-23	Methylene chloride	10/20/2016	10/21/2016	1	14	OK
TW4-23	Nitrate/Nitrite (as N)	10/20/2016	10/21/2016	1	28	OK
TW4-24	Chloride	10/12/2016	10/17/2016	5	28	OK
TW4-24	Carbon tetrachloride	10/12/2016	10/14/2016	2	14	OK
TW4-24	Chloroform	10/12/2016	10/14/2016	2	14	OK
TW4-24	Chloromethane	10/12/2016	10/14/2016	2	14	OK
TW4-24	Methylene chloride	10/12/2016	10/14/2016	2	14	OK
TW4-24	Nitrate/Nitrite (as N)	10/12/2016	10/19/2016	7	28	OK
TW4-25	Chloride	10/12/2016	10/17/2016	5	28	OK
TW4-25	Carbon tetrachloride	10/12/2016	10/14/2016	2	14	OK
TW4-25	Chloroform	10/12/2016	10/14/2016	2	14	OK
TW4-25	Chloromethane	10/12/2016	10/14/2016	2	14	OK
TW4-25	Methylene chloride	10/12/2016	10/14/2016	2	14	OK
TW4-25	Nitrate/Nitrite (as N)	10/12/2016	10/19/2016	7	28	OK
TW4-26	Chloride	10/20/2016	10/28/2016	8	28	OK
TW4-26	Carbon tetrachloride	10/20/2016	10/21/2016	1	14	OK
TW4-26	Chloroform	10/20/2016	10/21/2016	1	14	OK
TW4-26	Chloromethane	10/20/2016	10/21/2016	1	14	OK
TW4-26	Methylene chloride	10/20/2016	10/21/2016	1	14	OK
TW4-26	Nitrate/Nitrite (as N)	10/20/2016	10/21/2016	1	28	OK
TW4-27	Chloride	10/20/2016	10/28/2016	8	28	OK
TW4-27	Carbon tetrachloride	10/20/2016	10/21/2016	1	14	OK
TW4-27	Chloroform	10/20/2016	10/21/2016	1	14	OK
TW4-27	Chloromethane	10/20/2016	10/21/2016	1	14	OK
TW4-27	Methylene chloride	10/20/2016	10/21/2016	1	14	OK
TW4-27	Nitrate/Nitrite (as N)	10/20/2016	10/21/2016	1	28	OK
TW4-28	Chloride	10/19/2016	10/28/2016	9	28	OK
TW4-28	Carbon tetrachloride	10/19/2016	10/21/2016	2	14	OK
TW4-28	Chloroform	10/19/2016	10/21/2016	2	14	OK
TW4-28	Chloromethane	10/19/2016	10/21/2016	2	14	OK
TW4-28	Methylene chloride	10/19/2016	10/21/2016	2	14	OK
TW4-28	Nitrate/Nitrite (as N)	10/19/2016	10/21/2016	2	28	OK
TW4-29	Chloride	10/26/2016	11/7/2016	12	28	OK
TW4-29	Carbon tetrachloride	10/26/2016	10/28/2016	2	14	OK
TW4-29	Chloroform	10/26/2016	10/31/2016	5	14	OK
TW4-29	Chloromethane	10/26/2016	10/28/2016	2	14	OK
TW4-29	Methylene chloride	10/26/2016	10/28/2016	2	14	OK
TW4-29	Nitrate/Nitrite (as N)	10/26/2016	10/31/2016	5	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
TW4-30	Chloride	10/20/2016	10/28/2016	8	28	OK
TW4-30	Carbon tetrachloride	10/20/2016	10/21/2016	1	14	OK
TW4-30	Chloroform	10/20/2016	10/21/2016	1	14	OK
TW4-30	Chloromethane	10/20/2016	10/21/2016	1	14	OK
TW4-30	Methylene chloride	10/20/2016	10/21/2016	1	14	OK
TW4-30	Nitrate/Nitrite (as N)	10/20/2016	10/21/2016	1	28	OK
TW4-31	Chloride	10/20/2016	10/28/2016	8	28	OK
TW4-31	Carbon tetrachloride	10/20/2016	10/21/2016	1	14	OK
TW4-31	Chloroform	10/20/2016	10/21/2016	1	14	OK
TW4-31	Chloromethane	10/20/2016	10/21/2016	1	14	OK
TW4-31	Methylene chloride	10/20/2016	10/21/2016	1	14	OK
TW4-31	Nitrate/Nitrite (as N)	10/20/2016	10/21/2016	1	28	OK
TW4-32	Chloride	10/19/2016	10/28/2016	9	28	OK
TW4-32	Carbon tetrachloride	10/19/2016	10/21/2016	2	14	OK
TW4-32	Chloroform	10/19/2016	10/21/2016	2	14	OK
TW4-32	Chloromethane	10/19/2016	10/21/2016	2	14	OK
TW4-32	Methylene chloride	10/19/2016	10/21/2016	2	14	OK
TW4-32	Nitrate/Nitrite (as N)	10/19/2016	10/21/2016	2	28	OK
TW4-33	Chloride	10/26/2016	11/7/2016	12	28	OK
TW4-33	Carbon tetrachloride	10/26/2016	10/28/2016	2	14	OK
TW4-33	Chloroform	10/26/2016	10/28/2016	2	14	OK
TW4-33	Chloromethane	10/26/2016	10/28/2016	2	14	OK
TW4-33	Methylene chloride	10/26/2016	10/28/2016	2	14	OK
TW4-33	Nitrate/Nitrite (as N)	10/26/2016	10/31/2016	5	28	OK
TW4-34	Chloride	10/20/2016	10/28/2016	8	28	OK
TW4-34	Carbon tetrachloride	10/20/2016	10/21/2016	1	14	OK
TW4-34	Chloroform	10/20/2016	10/21/2016	1	14	OK
TW4-34	Chloromethane	10/20/2016	10/21/2016	1	14	OK
TW4-34	Methylene chloride	10/20/2016	10/21/2016	1	14	OK
TW4-34	Nitrate/Nitrite (as N)	10/20/2016	10/21/2016	1	28	OK
TW4-35	Chloride	10/20/2016	10/28/2016	8	28	OK
TW4-35	Carbon tetrachloride	10/20/2016	10/21/2016	1	14	OK
TW4-35	Chloroform	10/20/2016	10/21/2016	1	14	OK
TW4-35	Chloromethane	10/20/2016	10/21/2016	1	14	OK
TW4-35	Methylene chloride	10/20/2016	10/21/2016	1	14	OK
TW4-35	Nitrate/Nitrite (as N)	10/20/2016	10/21/2016	1	28	OK
TW4-36	Chloride	10/20/2016	10/28/2016	8	28	OK
TW4-36	Carbon tetrachloride	10/20/2016	10/21/2016	1	14	OK
TW4-36	Chloroform	10/20/2016	10/21/2016	1	14	OK
TW4-36	Chloromethane	10/20/2016	10/21/2016	1	14	OK
TW4-36	Methylene chloride	10/20/2016	10/21/2016	1	14	OK
TW4-36	Nitrate/Nitrite (as N)	10/20/2016	10/21/2016	1	28	OK
TW4-37	Chloride	10/12/2016	10/17/2016	5	28	OK
TW4-37	Carbon tetrachloride	10/12/2016	10/17/2016	5	14	OK
TW4-37	Chloroform	10/12/2016	10/17/2016	5	14	OK
TW4-37	Chloromethane	10/12/2016	10/17/2016	5	14	OK
TW4-37	Methylene chloride	10/12/2016	10/17/2016	5	14	OK
TW4-37	Nitrate/Nitrite (as N)	10/12/2016	10/19/2016	7	28	OK
TW4-38	Chloride	11/10/2016	11/15/2016	5	28	OK
TW4-38	Carbon tetrachloride	11/10/2016	11/11/2016	1	14	OK
TW4-38	Chloroform	11/10/2016	11/11/2016	1	14	OK
TW4-38	Chloromethane	11/10/2016	11/11/2016	1	14	OK
TW4-38	Methylene chloride	11/10/2016	11/11/2016	1	14	OK

I-2: Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
TW4-38	Nitrate/Nitrite (as N)	11/10/2016	11/17/2016	7	28	OK
TW4-38R	Chloride	11/9/2016	11/16/2016	7	28	OK
TW4-38R	Carbon tetrachloride	11/9/2016	11/11/2016	2	14	OK
TW4-38R	Chloroform	11/9/2016	11/11/2016	2	14	OK
TW4-38R	Chloromethane	11/9/2016	11/11/2016	2	14	OK
TW4-38R	Methylene chloride	11/9/2016	11/11/2016	2	14	OK
TW4-38R	Nitrate/Nitrite (as N)	11/9/2016	11/17/2016	8	28	OK
TW4-39	Chloride	11/10/2016	11/15/2016	5	28	OK
TW4-39	Carbon tetrachloride	11/10/2016	11/11/2016	1	14	OK
TW4-39	Chloroform	11/10/2016	11/11/2016	1	14	OK
TW4-39	Chloromethane	11/10/2016	11/11/2016	1	14	OK
TW4-39	Methylene chloride	11/10/2016	11/11/2016	1	14	OK
TW4-39	Nitrate/Nitrite (as N)	11/10/2016	11/17/2016	7	28	OK
TW4-60	Chloride	11/10/2016	11/15/2016	5	28	OK
TW4-60	Carbon tetrachloride	11/10/2016	11/11/2016	1	14	OK
TW4-60	Chloroform	11/10/2016	11/11/2016	1	14	OK
TW4-60	Chloromethane	11/10/2016	11/11/2016	1	14	OK
TW4-60	Methylene chloride	11/10/2016	11/11/2016	1	14	OK
TW4-60	Nitrate/Nitrite (as N)	11/10/2016	11/17/2016	7	28	OK
TW4-65	Chloride	10/19/2016	10/28/2016	9	28	OK
TW4-65	Carbon tetrachloride	10/19/2016	10/21/2016	2	14	OK
TW4-65	Chloroform	10/19/2016	10/21/2016	2	14	OK
TW4-65	Chloromethane	10/19/2016	10/21/2016	2	14	OK
TW4-65	Methylene chloride	10/19/2016	10/21/2016	2	14	OK
TW4-65	Nitrate/Nitrite (as N)	10/19/2016	10/21/2016	2	28	OK
TW4-70	Chloride	10/20/2016	10/28/2016	8	28	OK
TW4-70	Carbon tetrachloride	10/20/2016	10/21/2016	1	14	OK
TW4-70	Chloroform	10/20/2016	10/21/2016	1	14	OK
TW4-70	Chloromethane	10/20/2016	10/21/2016	1	14	OK
TW4-70	Methylene chloride	10/20/2016	10/21/2016	1	14	OK
TW4-70	Nitrate/Nitrite (as N)	10/20/2016	10/21/2016	1	28	OK
TW4-75	Chloride	10/26/2016	11/7/2016	12	28	OK
TW4-75	Carbon tetrachloride	10/26/2016	10/31/2016	5	14	OK
TW4-75	Chloroform	10/26/2016	10/31/2016	5	14	OK
TW4-75	Chloromethane	10/26/2016	10/31/2016	5	14	OK
TW4-75	Methylene chloride	10/26/2016	10/31/2016	5	14	OK
TW4-75	Nitrate/Nitrite (as N)	10/26/2016	10/31/2016	5	28	OK

Table I-3 Recipt Temperature Check

Sample Batch	Wells in Batch	Temperature
1610270	MW-04, MW-26, TW4-01, TW4-02, TW4-04, TW4-11, TW4-19, TW4-20, TW4-21, TW4-22, TW4-24, TW4-25, TW4-37, Trip Blank	2.9 °C
1610431	TW4-03, TW4-03R, TW4-12, TW4-13, TW4-14, TW4-23, TW4-26, TW4-27, TW4-28, TW4-30, TW4-31, TW4-32, TW4-34, TW4-35, TW4-36, TW4-65, TW4-70, Trip Blank	1.8 °C
1610561	TW4-05, TW4-06, TW4-07, TW4-08, TW4-08R, TW4-09, TW4-10, TW4-16, TW4-18, TW4-29, TW4-33, TW4-75, Trip Blank	3.4 °C
1611111	MW-32, and Trip Blank	2.5 °C
1611262	TW4-38, TW4-38R, TW4-39, TW4-60, Trip Blank	1.8 °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
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		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	5	mg/L		5	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

I-5 Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
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
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	10	ug/L		10	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
TW4-08R	Chloride	1	mg/L	U	1	1	OK
TW4-08R	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-08R	Chloroform	1	ug/L		1	1	OK
TW4-08R	Chloromethane	1	ug/L	U	1	1	OK
TW4-08R	Methylene chloride	1	ug/L	U	1	1	OK
TW4-08R	Nitrate/Nitrite (as N)	0.1	mg/L	U	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

I-5 Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
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		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)	0.5	mg/L		50	0.1	OK
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	5	mg/L		5	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	500	ug/L		500	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

I-5 Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
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		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)	1	mg/L		100	0.1	OK
TW4-23	Chloride	5	mg/L		5	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
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)	0.2	mg/L		20	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	2	mg/L		2	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)	0.5	mg/L		50	0.1	OK
TW4-27	Chloride	5	mg/L		5	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	5	mg/L		5	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

I-5 Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
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	5	mg/L		5	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
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	2	mg/L		2	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
TW4-35	Chloride	5	mg/L		5	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	500	ug/L		500	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
TW4-38	Chloride	20	mg/L		20	1	OK
TW4-38	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-38	Chloroform	1	ug/L	U	1	1	OK
TW4-38	Chloromethane	1	ug/L	U	1	1	OK
TW4-38	Methylene chloride	1	ug/L	U	1	1	OK
TW4-38	Nitrate/Nitrite (as N)	0.1	mg/L		10	0.1	OK
TW4-38R	Chloride	1	mg/L	U	1	1	OK
TW4-38R	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-38R	Chloroform	1	ug/L	U	1	1	OK
TW4-38R	Chloromethane	1	ug/L	U	1	1	OK

I-5 Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
TW4-38R	Methylene chloride	1	ug/L	U	1	1	OK
TW4-38R	Nitrate/Nitrite (as N)	0.1	mg/L	U	10	0.1	OK
TW4-39	Chloride	20	mg/L		20	1	OK
TW4-39	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-39	Chloroform	100	ug/L		100	1	OK
TW4-39	Chloromethane	1	ug/L	U	1	1	OK
TW4-39	Methylene chloride	1	ug/L	U	1	1	OK
TW4-39	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)	0.5	mg/L		50	0.1	OK
TW4-70	Chloride	5	mg/L		5	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
TW4-75	Chloride	10	mg/L		10	1	OK
TW4-75	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-75	Chloroform	1	ug/L		1	1	OK
TW4-75	Chloromethane	1	ug/L	U	1	1	OK
TW4-75	Methylene chloride	1	ug/L	U	1	1	OK
TW4-75	Nitrate/Nitrite (as N)	0.1	mg/L		10	0.1	OK

I-6 Trip Blank Evaluation

Lab Report	Constituent	Result	
1610270	Carbon tetrachloride	ND	ug/L
	Chloroform	ND	ug/L
	Chloromethane	ND	ug/L
	Methylene chloride	ND	ug/L
1610431	Carbon tetrachloride	ND	ug/L
	Chloroform	ND	ug/L
	Chloromethane	ND	ug/L
	Methylene chloride	ND	ug/L
1610561	Carbon tetrachloride	ND	ug/L
	Chloroform	ND	ug/L
	Chloromethane	ND	ug/L
	Methylene chloride	ND	ug/L
1611111	Carbon tetrachloride	ND	ug/L
	Chloroform	ND	ug/L
	Chloromethane	ND	ug/L
	Methylene chloride	ND	ug/L
1611262	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)	70.9	73.7	3.9
Nitrate + Nitrite (as N)	25.5	25.4	0.4
Carbon Tetrachloride	ND	ND	NC
Chloroform	ND	ND	NC
Chloromethane	ND	ND	NC
Dichloromethane (Methylene Chloride)	ND	ND	NC

Constituent	TW4-36	TW4-70	%RPD
Chloride (mg/L)	73.8	72	2.5
Nitrate + Nitrite (as N)	ND	ND	NC
Carbon Tetrachloride	ND	ND	NC
Chloroform	ND	ND	NC
Chloromethane	ND	ND	NC
Dichloromethane (Methylene Chloride)	ND	ND	NC

Constituent	TW4-05	TW4-75	%RPD
Chloride (mg/L)	47.8	49.5	3.5
Nitrate + Nitrite (as N)	8.32	8.34	0.2
Carbon Tetrachloride	ND	ND	NC
Chloroform	9.90	12.0	19.2
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
1611262	1611262-001BMS	TW4-38R	Nitrate	111	106	90-110	4.33
1611262	1611263-001DMS	N/A	Nitrate	114	121	90-110	5.24

* - Recovery was not calculated because the analyte of the sample was greater than 4 times the spike amount
N/A - QC was not performed on an EFRI sample
NC - Not calculated

Laboratory Control Sample
All LCS recoveries for the quarter were within acceptance limits.

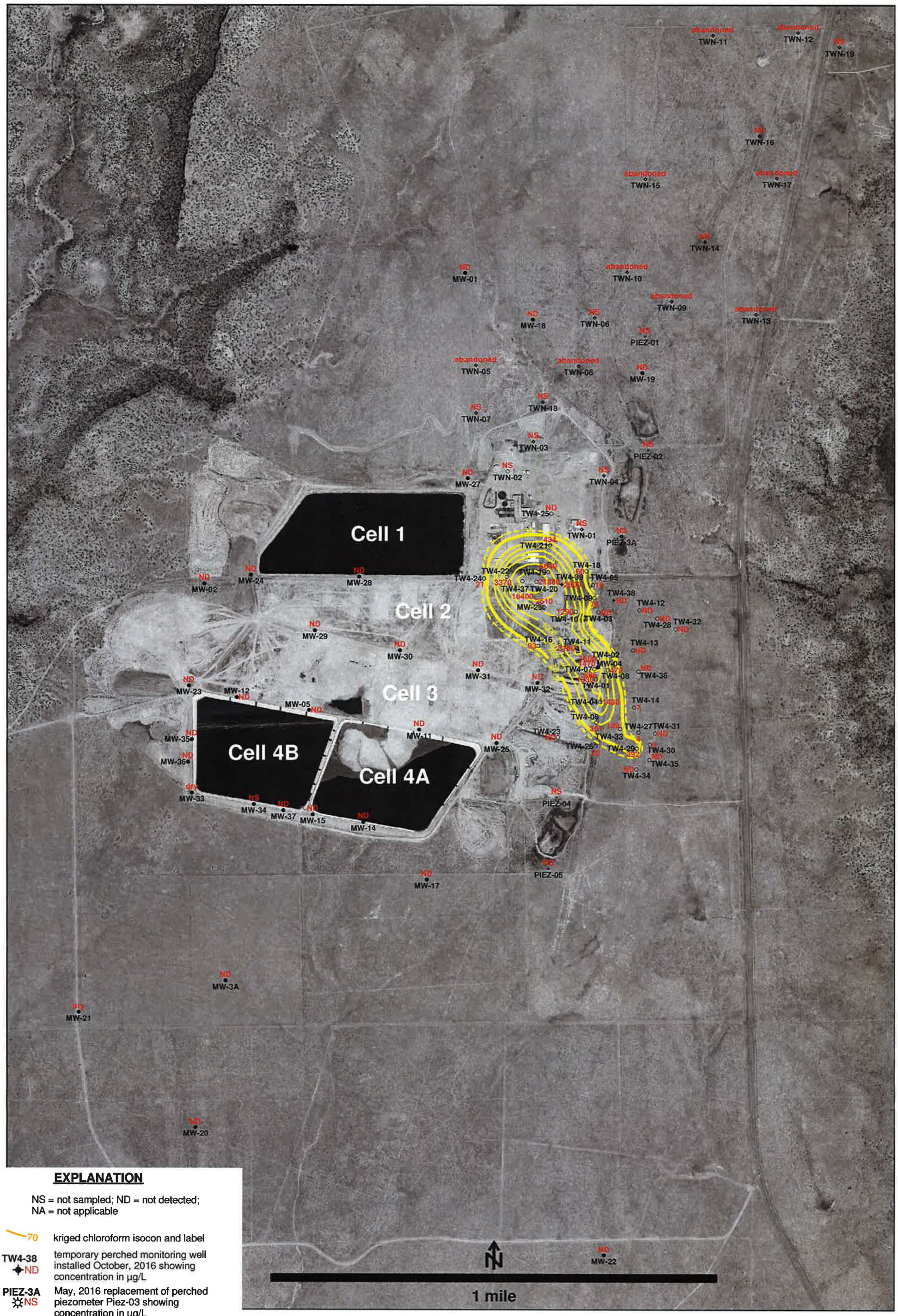
Surrogate % Recovery
All Surrogate recoveries were within acceptance limits for the quarter.

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;
NA = not applicable

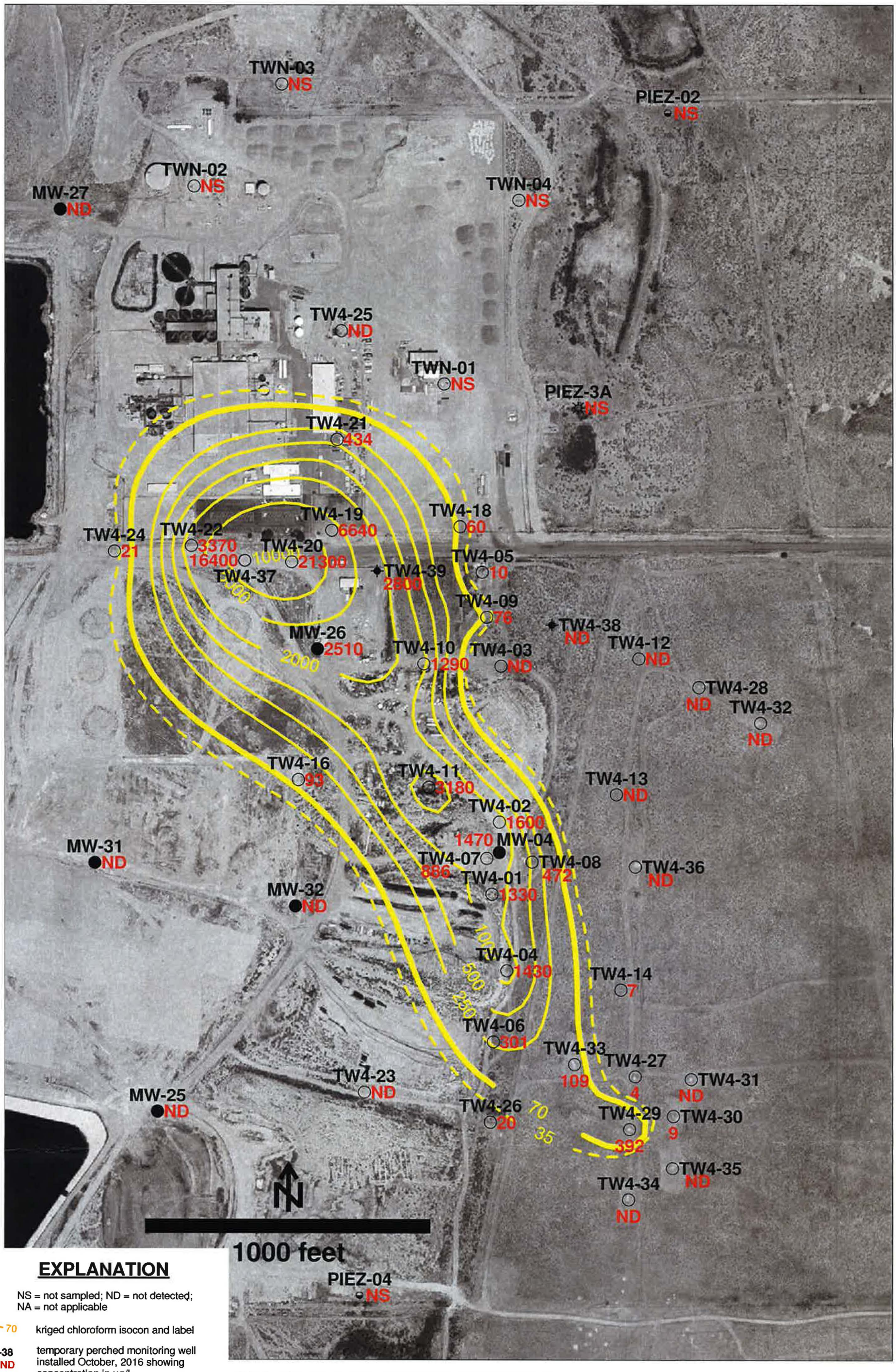
- 70 — kriged chloroform isocon and label
- TW4-38 ND — temporary perched monitoring well installed October, 2016 showing concentration in µg/L
- PIEZ-3A NS — May, 2016 replacement of perched piezometer Piez-03 showing concentration in µg/L
- MW-32 ND — perched monitoring well showing concentration in µg/L
- TW4-7 886 — 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)

NOTES: MW-4, MW-26, TW4-1, TW4-2, TW4-4, TW4-11,TW4-19, TW4-20, TW4-21, TW4-37, and TW4-39 are chloroform pumping wells; TW4-22, TW4-24, TW4-25, and TWN-2 are nitrate pumping wells;

HYDRO GEO CHEM, INC.

KRIGED 4th QUARTER, 2016 CHLOROFORM (µg/L) WHITE MESA SITE

APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/feb17/chloroform/Uchl1116_rev.srf	J-1



EXPLANATION

NS = not sampled; ND = not detected;
NA = not applicable

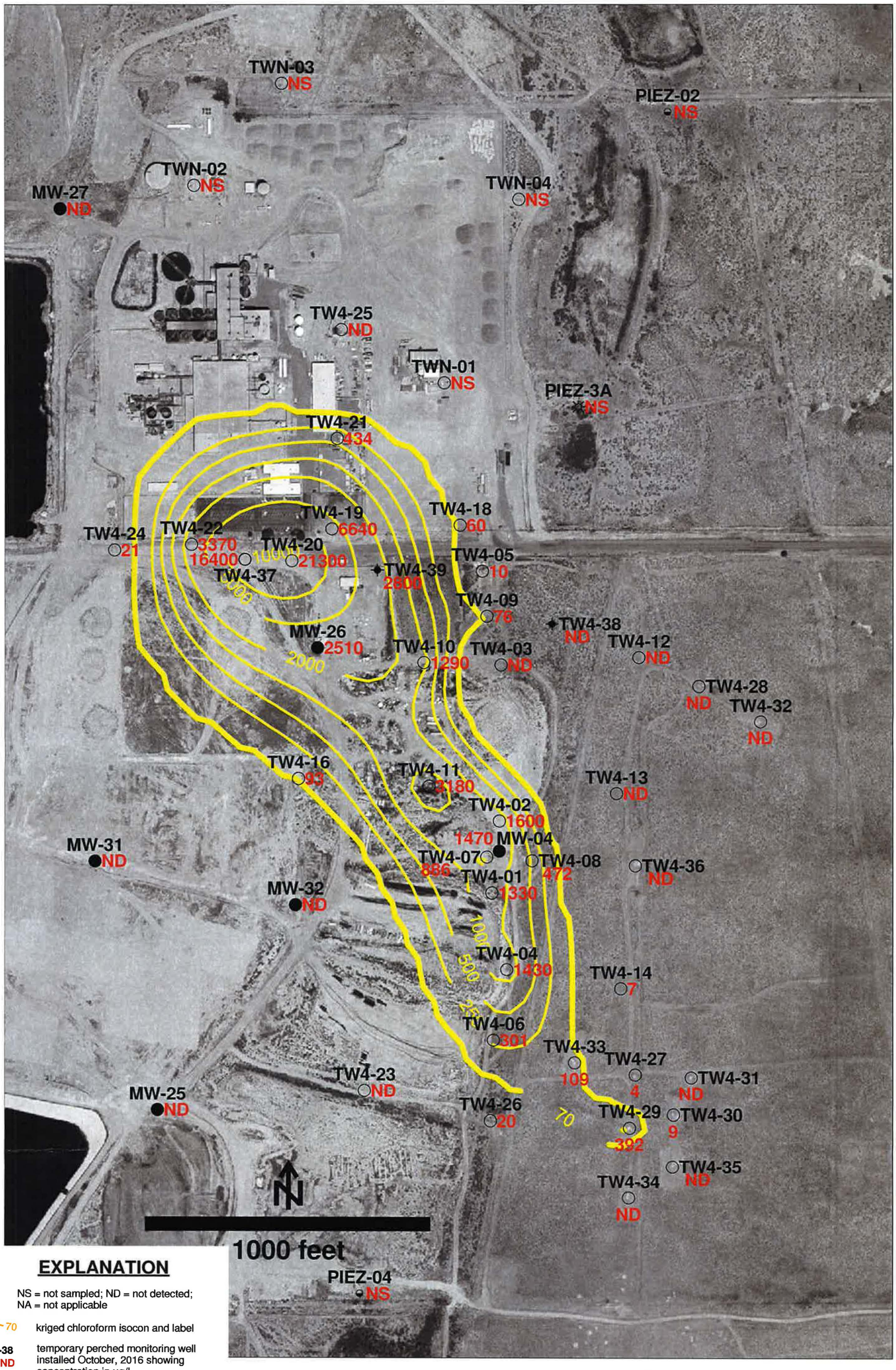
- 70 — kriged chloroform isocon and label
- TW4-38 ND — temporary perched monitoring well installed October, 2016 showing concentration in µg/L
- PIEZ-3A NS — May, 2016 replacement of perched piezometer Piez-03 (not sampled)
- MW-32 ND — perched monitoring well showing concentration (µg/L)
- TW4-7 886 — temporary perched monitoring well showing concentration (µg/L)
- PIEZ-2 NS — perched piezometer showing concentration (µg/L)

NOTES: MW-4, MW-26, TW4-1, TW4-2, TW4-4, TW4-11,TW4-19, TW4-20, TW4-21, TW4-37, and TW4-39 are chloroform pumping wells; TW4-22, TW4-24, TW4-25, and TWN-2 are nitrate pumping wells;

HYDRO
GEO
CHEM, INC.

KRIGED 4th QUARTER, 2016 CHLOROFORM (µg/L) WHITE MESA SITE (detail map)

APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/feb17/chloroform/Uchl1116det_rev.srf	J-2



EXPLANATION

NS = not sampled; ND = not detected;
NA = not applicable

70	kriged chloroform isocon and label
TW4-38 ✦ ND	temporary perched monitoring well installed October, 2016 showing concentration in µg/L
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 ○ 886	temporary perched monitoring well showing concentration (µg/L)
PIEZ-2 ⊖ NS	perched piezometer showing concentration (µg/L)

NOTES: MW-4, MW-26, TW4-1, TW4-2, TW4-4, TW4-11,TW4-19, TW4-20, TW4-21, TW4-37, and TW4-39 are chloroform pumping wells; TW4-22, TW4-24, TW4-25, and TWN-2 are nitrate pumping wells;

HYDRO GEO CHEM, INC.

4th QUARTER, 2016 CHLOROFORM GREATER THAN OR EQUAL TO 70 µg/L GRID WHITE MESA SITE

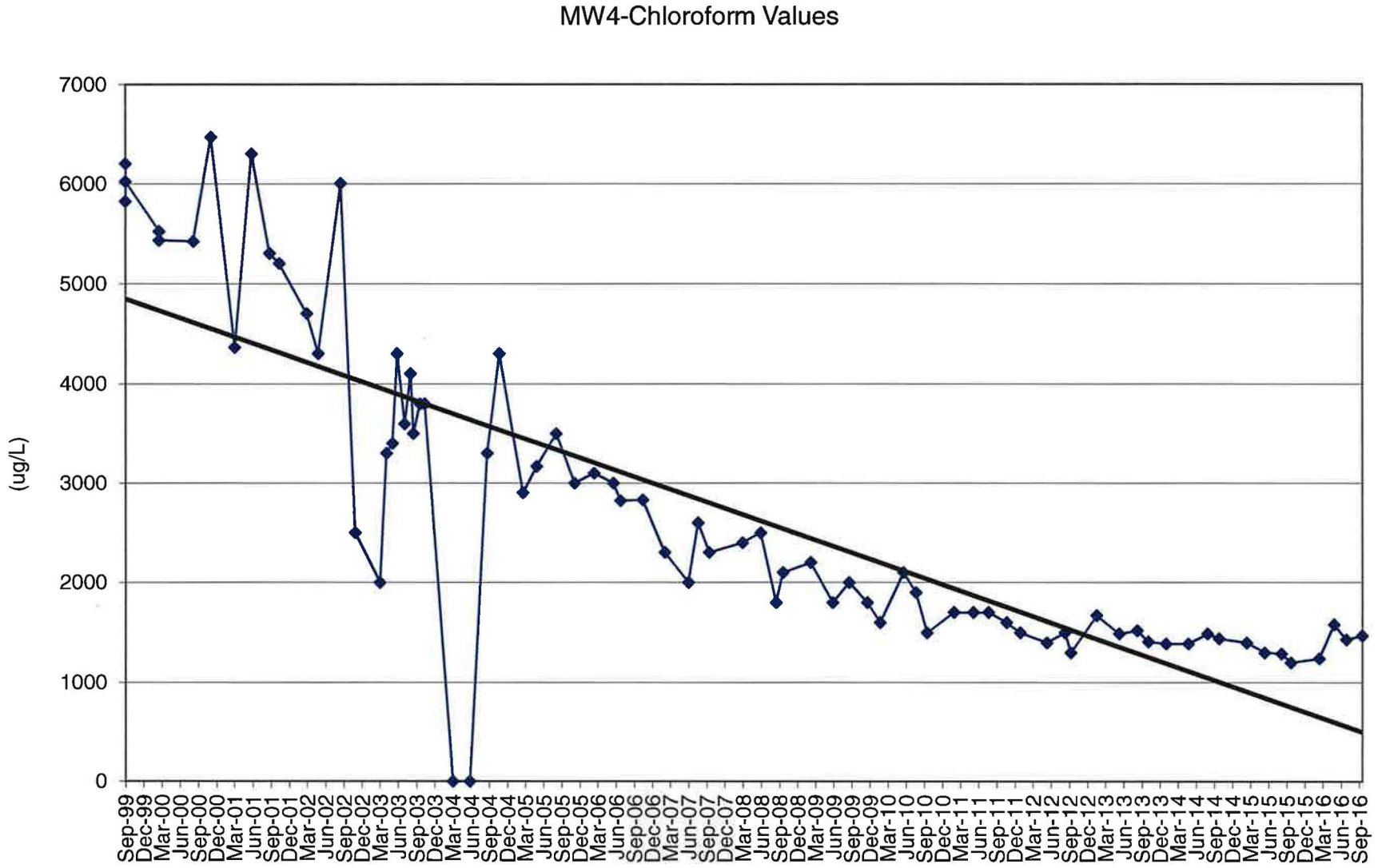
APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/feb17/chloroform/Uchl1116ge70_rev.srf	J-3

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
12-Oct-16	1470	1.24	ND	ND	4.88	44.8


MW4-Chloroform Values
(ug/L)
7000
6000
5000
4000
3000
2000
1000
0
Sep-99
Dec-99
Mar-00
Jun-00
Sep-00
Dec-00
Mar-01
Jun-01
Sep-01
Dec-01
Mar-02
Jun-02
Sep-02
Dec-02
Mar-03
Jun-03
Sep-03
Dec-03
Mar-04
Jun-04
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Jun-13
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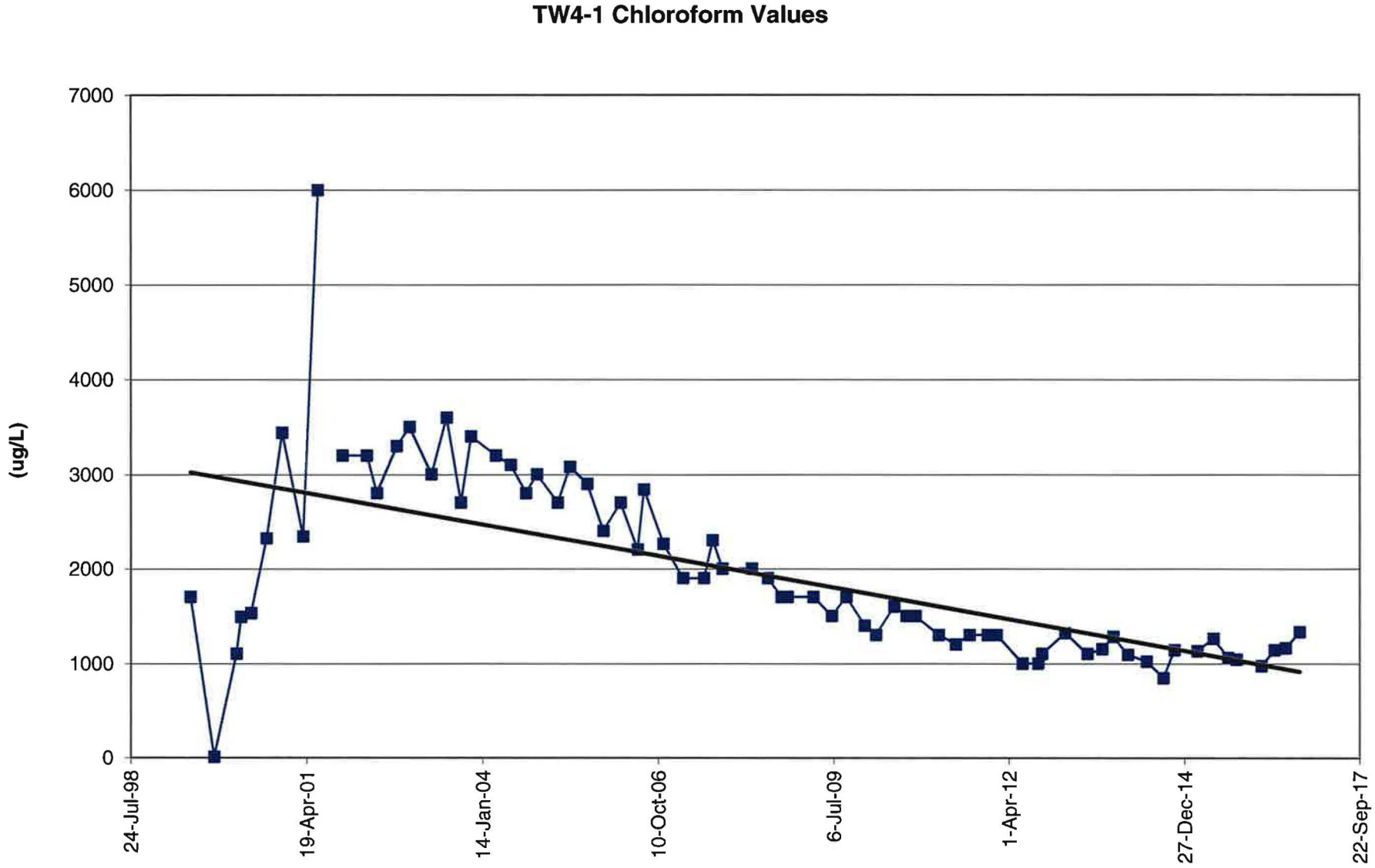
Mar-14
Jun-14
Sep-14
Dec-14
Mar-15
Jun-15
Sep-15
Dec-15
Mar-16
Jun-16
Sep-16

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

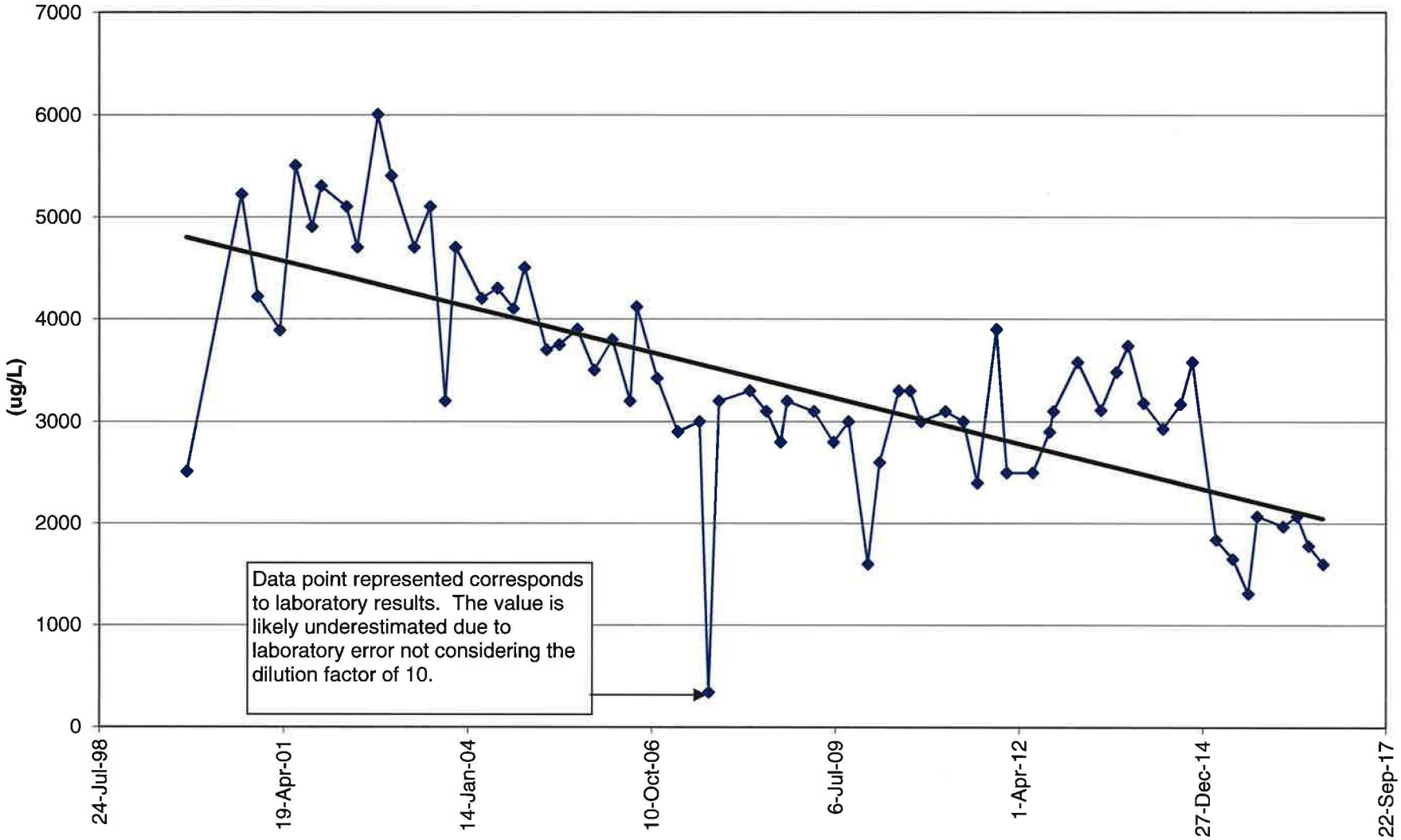
TW4-1	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
11-Mar-09	1700	1.1	<1	<1	7.5	37
24-Jun-09	1500	1	<1	<1	6.9	37
15-Sep-09	1700	<1	<1	<1	7.3	36
29-Dec-09	1400	<1	<1	<1	6.8	41
3-Mar-10	1300	<1	<1	<1	7.1	35
15-Jun-10	1600	1.2	<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
13-Oct-16	1330	ND	ND	ND	0.746	44.2


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

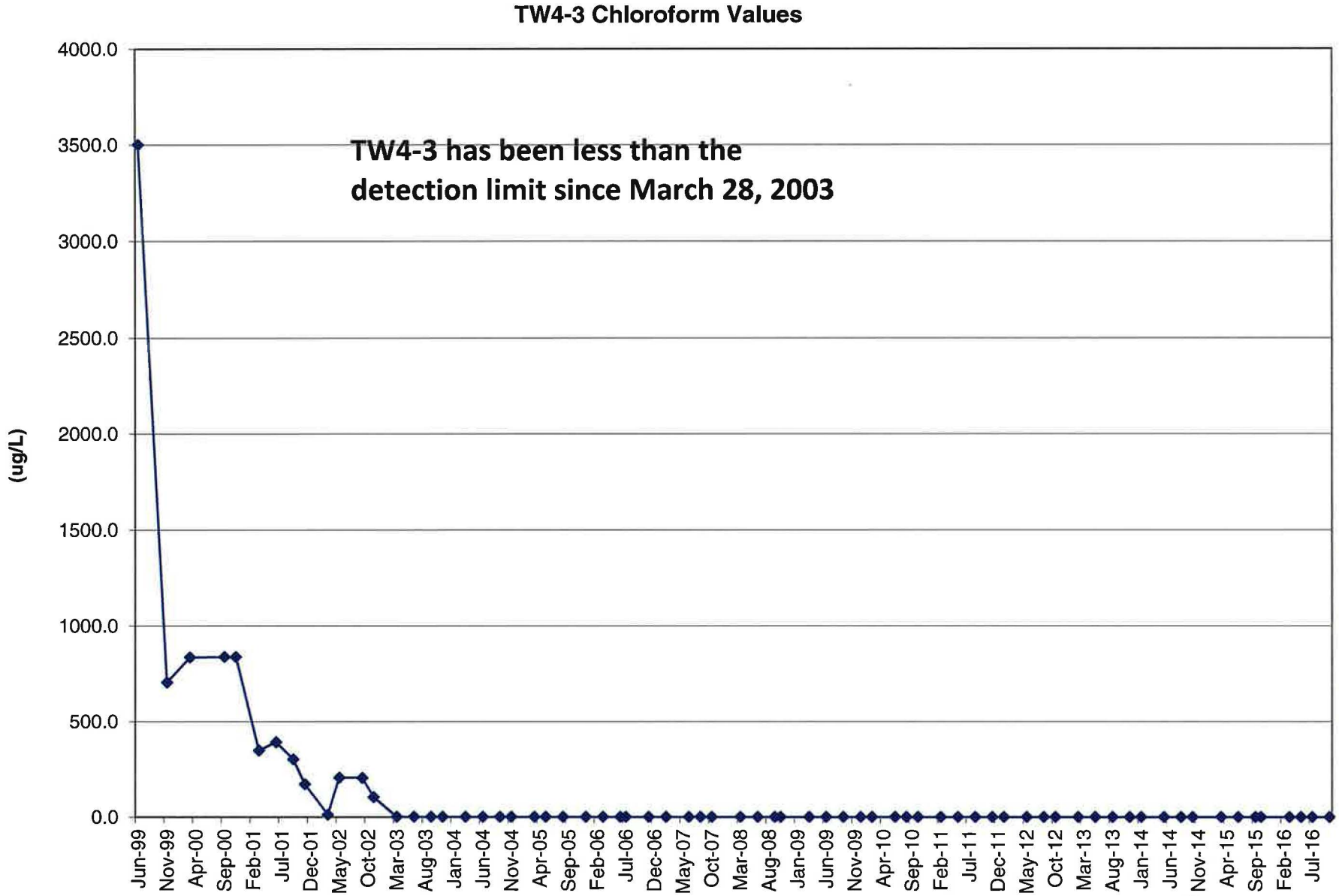
TW4-2	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
3-Mar-10	2600	2	<1	<1	6.8	42
15-Jun-10	3300	2.6	<1	<1	6.7	43
16-Aug-10	3300	2.5	<1	<1	6.6	43
14-Oct-10	3000	2.1	<1	<1	6.5	41
24-Feb-11	3100	2.4	ND	ND	7	46
2-Jun-11	3000	2.2	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
12-Oct-16	1600	ND	ND	ND	6.07	44.3

TW4-2 Chloroform Values



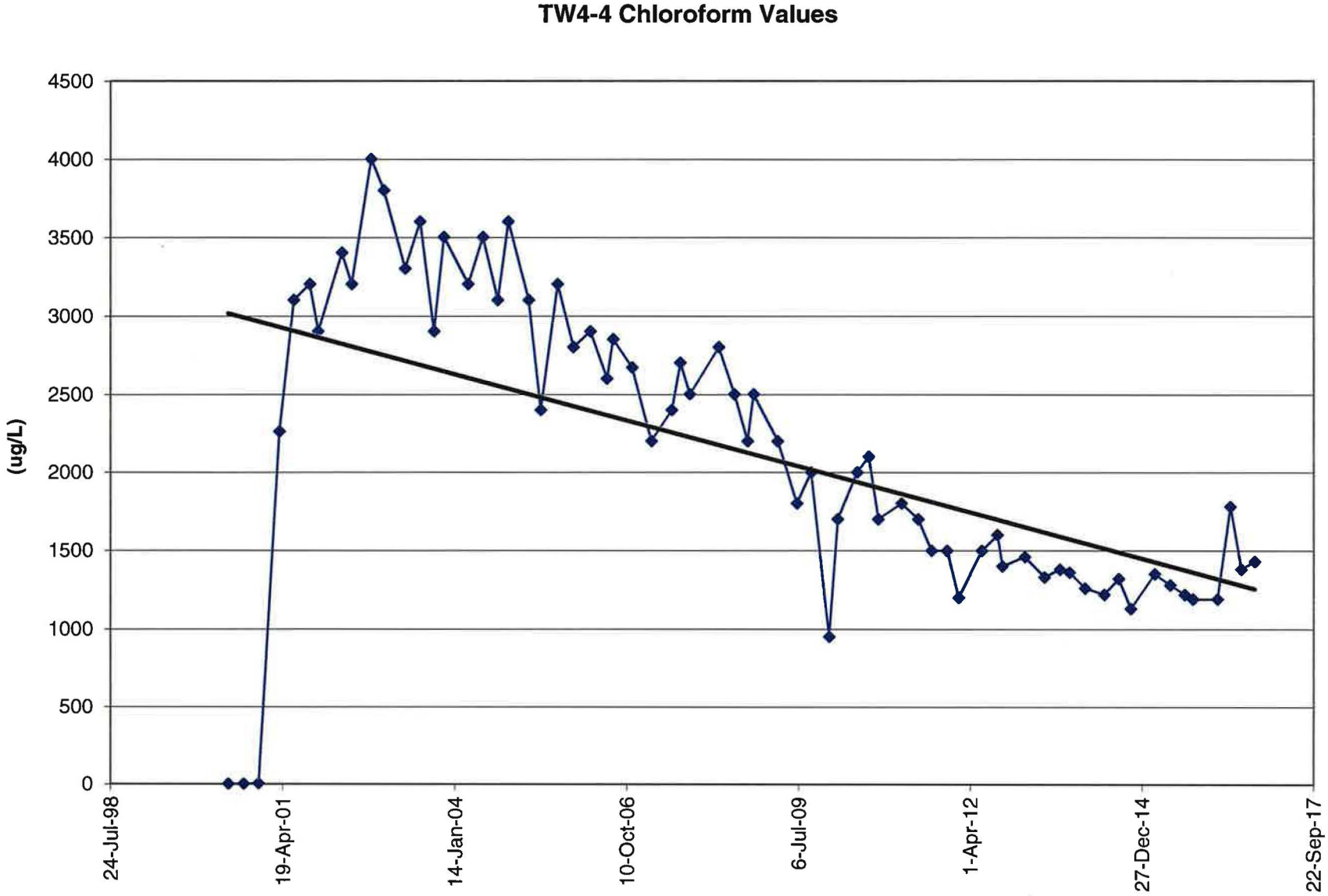
TW4-3	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
28-Jun-99	3500				7.6	
29-Nov-99	702					
15-Mar-00	834					
2-Sep-00	836				1.56	
29-Nov-00	836				1.97	
27-Mar-01	347				1.85	
21-Jun-01	390				2.61	
20-Sep-01	300				3.06	
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
19-Oct-16	ND	ND	ND	ND	6.00	29.5


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

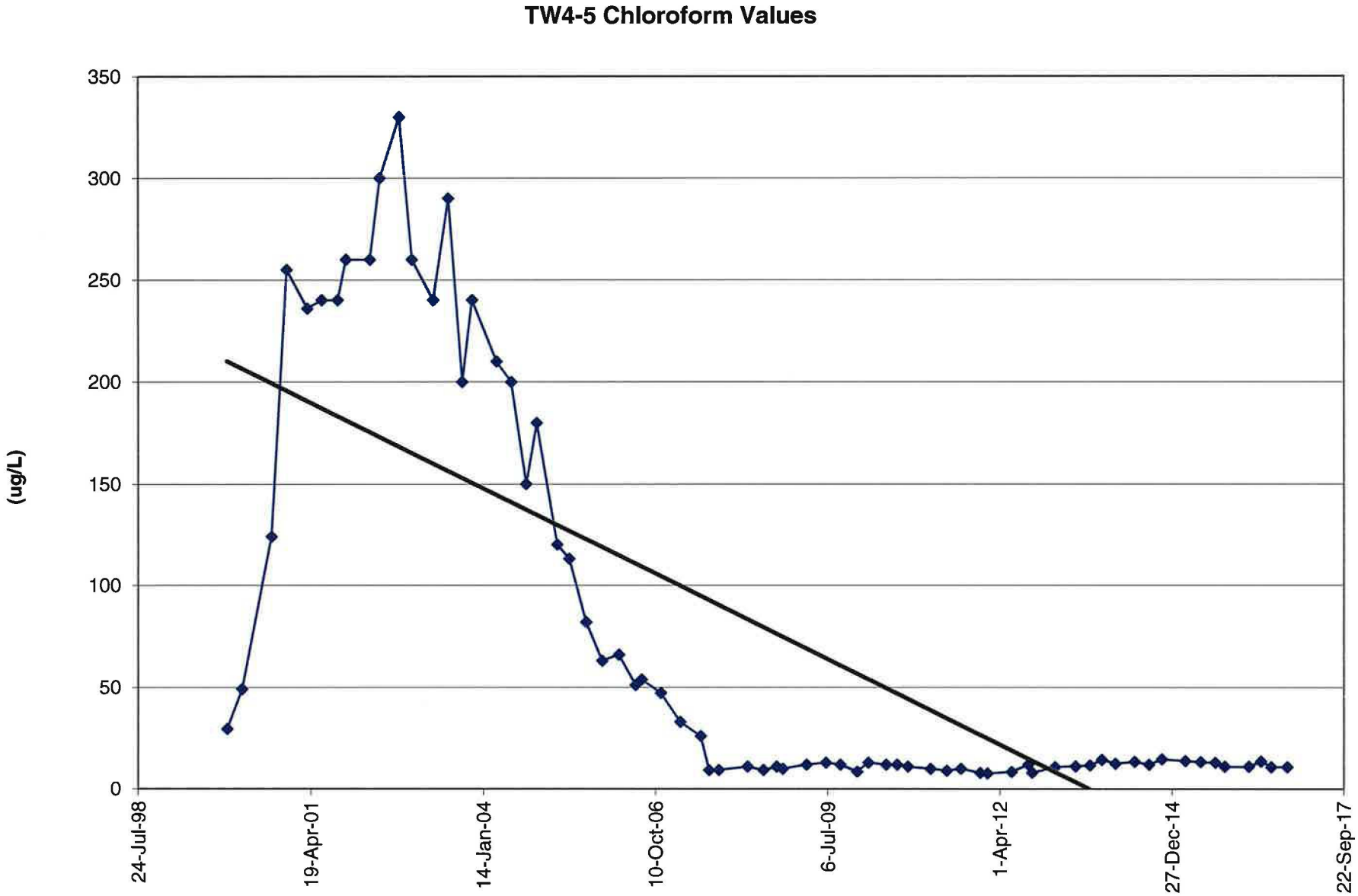
TW4-4	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
6-Jun-00	0					
2-Sep-00	0					
28-Nov-00	3.9					
28-Mar-01	2260				1.02	
20-Jun-01	3100				14.5	
20-Sep-01	3200				14	
8-Nov-01	2900				14.8	
26-Mar-02	3400				15	
22-May-02	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
13-Oct-16	1430	ND	ND	ND	6.77	42.3


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

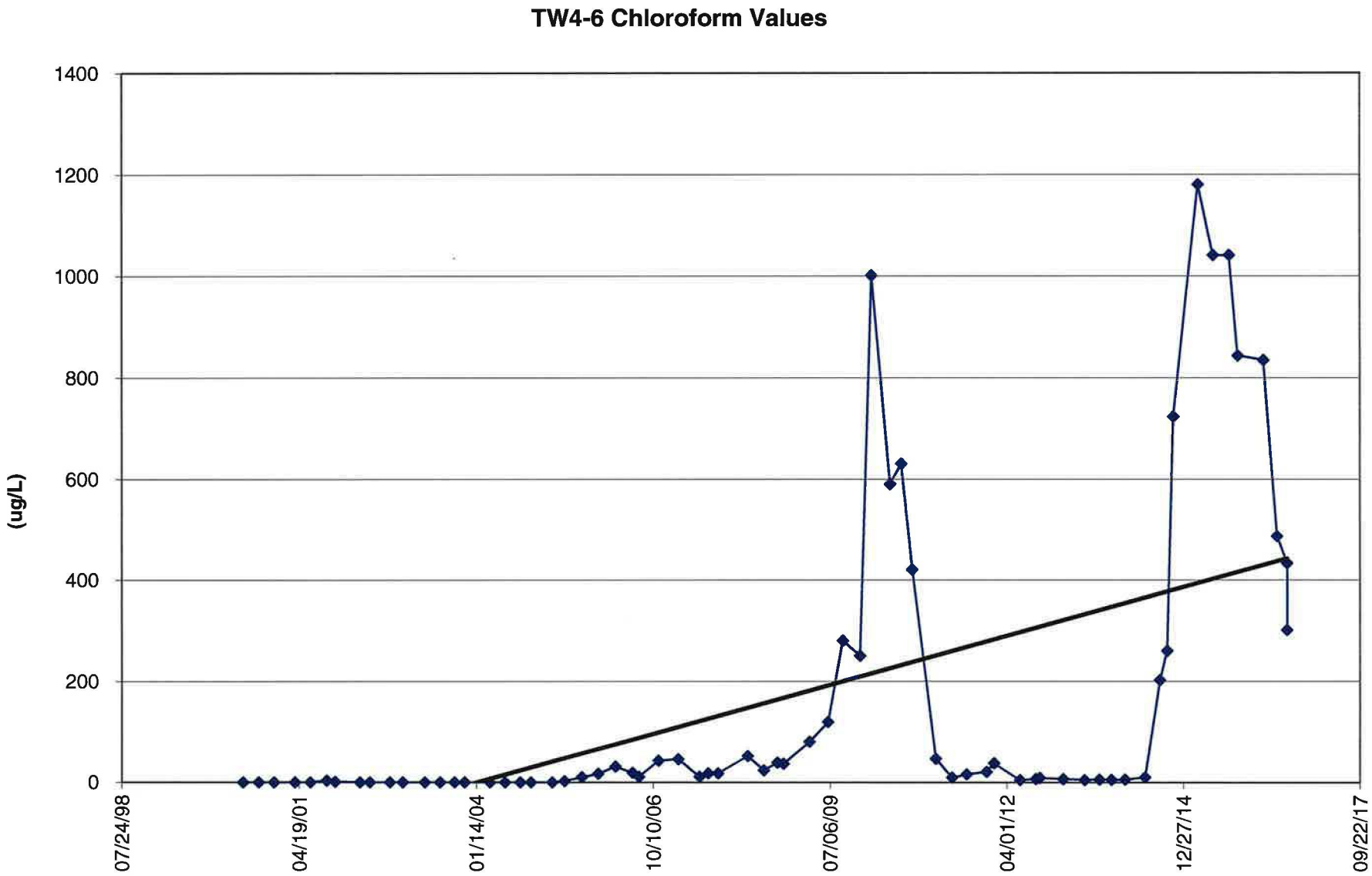
TW4-5	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
22-Dec-09	8.5	<1	<1	<1	7.5	41
25-Feb-10	13.0	<1	<1	<1	6.8	43
9-Jun-10	12.0	<1	<1	<1	7.1	28
11-Aug-10	12.0	<1	<1	<1	7	38
13-Oct-10	11.0	<1	<1	<1	7.2	41
22-Feb-11	10.0	ND	ND	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
26-Oct-16	10.8	ND	ND	ND	8.32	47.8


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

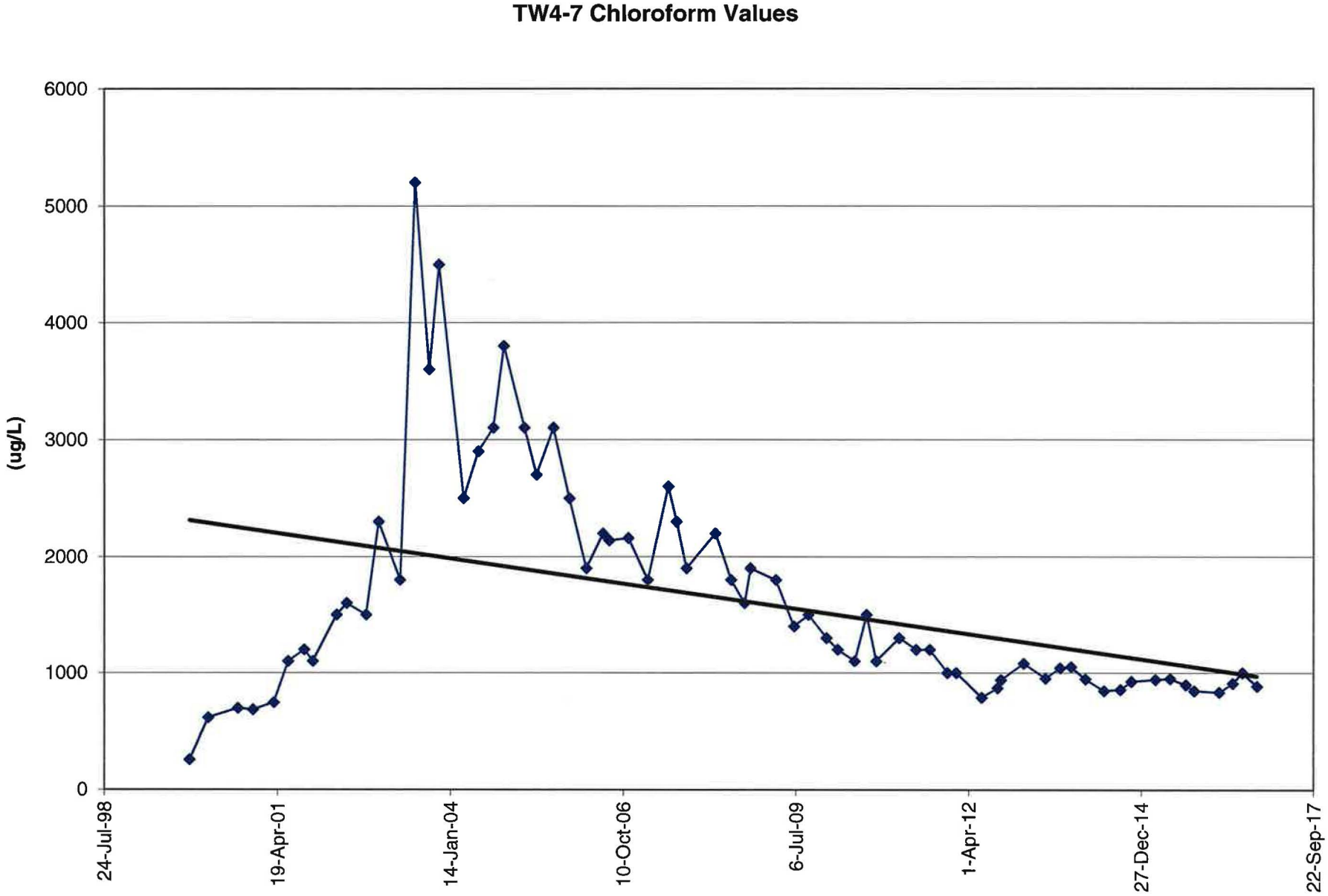
TW4-6	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
6-Jun-00	0					
2-Sep-00	0					
28-Nov-00	0				ND	
26-Mar-01	0				0.13	
20-Jun-01	0				ND	
20-Sep-01	4				ND	
7-Nov-01	1				ND	
26-Mar-02	0				ND	
21-May-02	0				ND	
12-Sep-02	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
26-Oct-16	301.0	ND	ND	ND	3.74	46.1


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

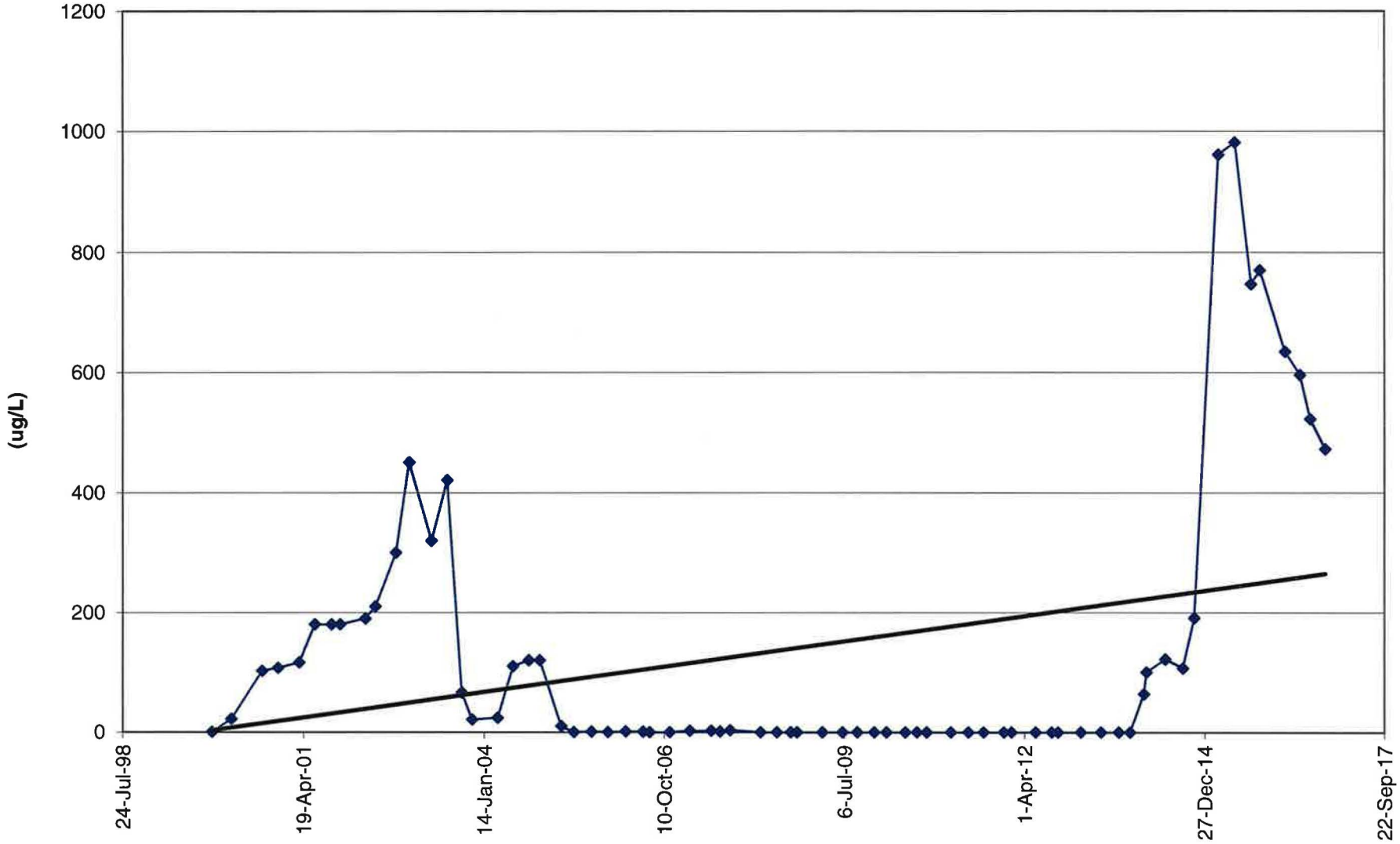
TW4-7	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
29-Dec-09	1300	<1	<1	<1	4.2	37
3-Mar-10	1200	<1	<1	<1	3.8	36
10-Jun-10	1100	<1	<1	<1	3.9	31
18-Aug-10	1500	1.1	<1	<1	3.9	36
13-Oct-10	1100	1.1	<1	<1	4	38
23-Feb-11	1300	ND	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
27-Oct-16	886	ND	ND	ND	4.33	45.8


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

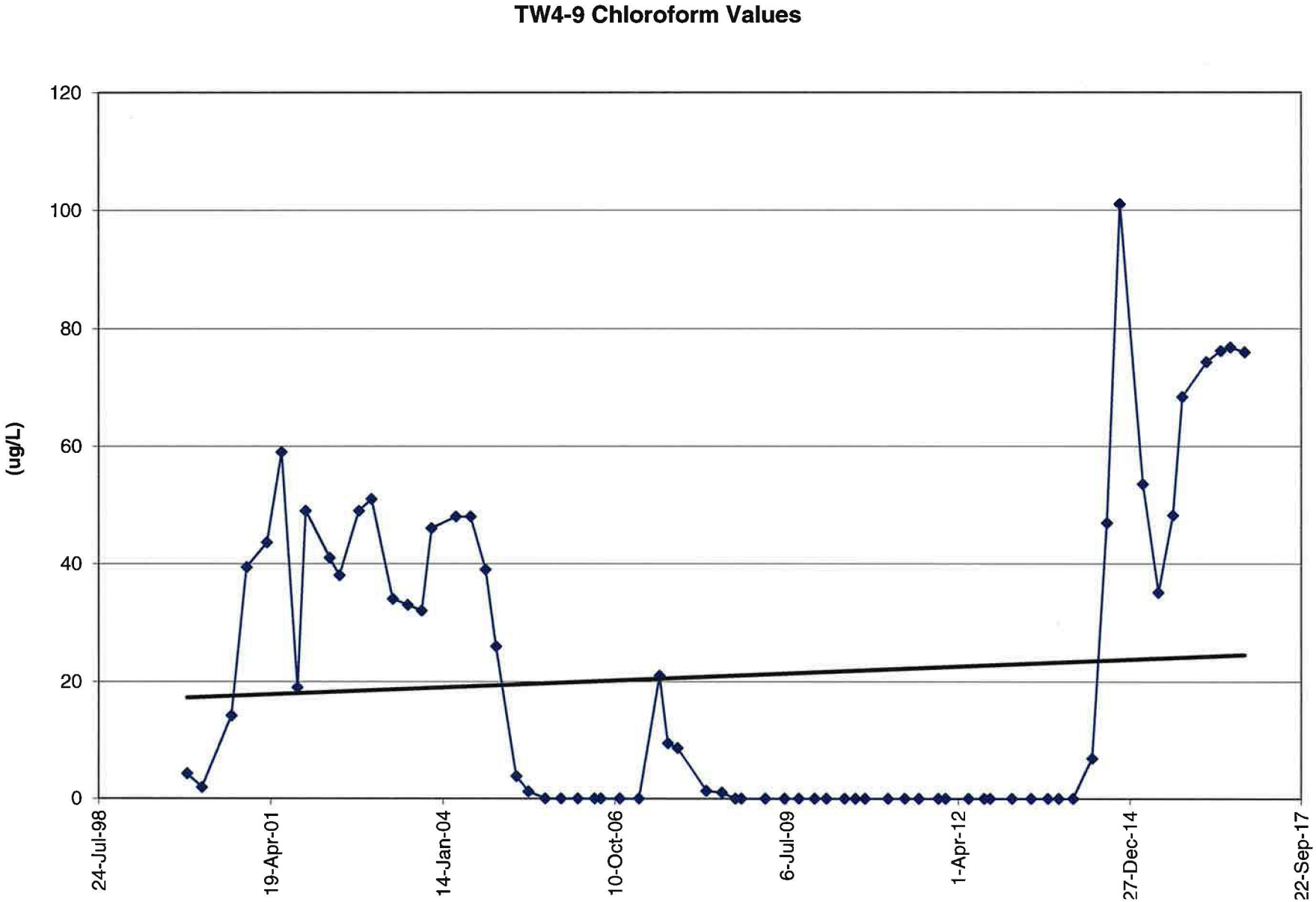
TW4-8	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
17-Dec-09	<1	<1	<1	<1	<0.1	51
24-Feb-10	<1	<1	<1	<1	<0.1	57
9-Jun-10	<1	<1	<1	<1	<0.1	42
11-Aug-10	<1	<1	<1	<1	<0.1	45
5-Oct-10	<1	<1	<1	<1	<0.1	46
16-Feb-11	ND	ND	ND	ND	ND	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	2.20	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	2.10	56.9
27-Oct-16	472	ND	ND	ND	2.16	60.1

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

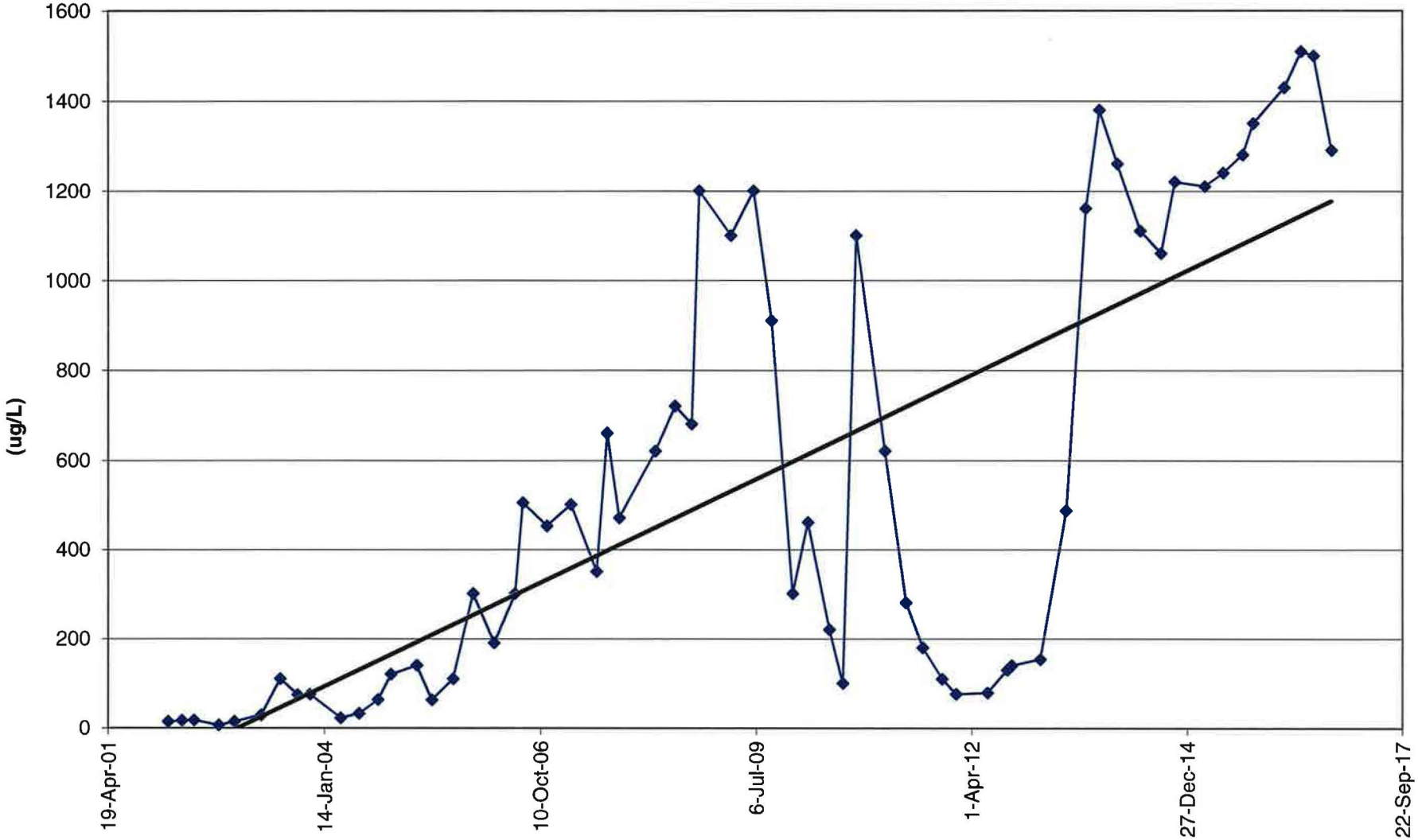
TW4-9	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
17-Dec-09	<1	<1	<1	<1	1.7	37
23-Feb-10	<1	<1	<1	<1	1.7	47
9-Jun-10	<1	<1	<1	<1	1.5	33
11-Aug-10	<1	<1	<1	<1	1.2	40
6-Oct-10	<1	<1	<1	<1	1.8	34
17-Feb-11	ND	ND	ND	ND	1.3	41
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
26-Oct-16	76.0	ND	ND	ND	2.24	37.4


TW4-9 Chloroform Values
(ug/L)
120
100
80
60
40
20
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

TW4-10	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
27-Oct-16	1290	ND	ND	ND	14.8	84.4

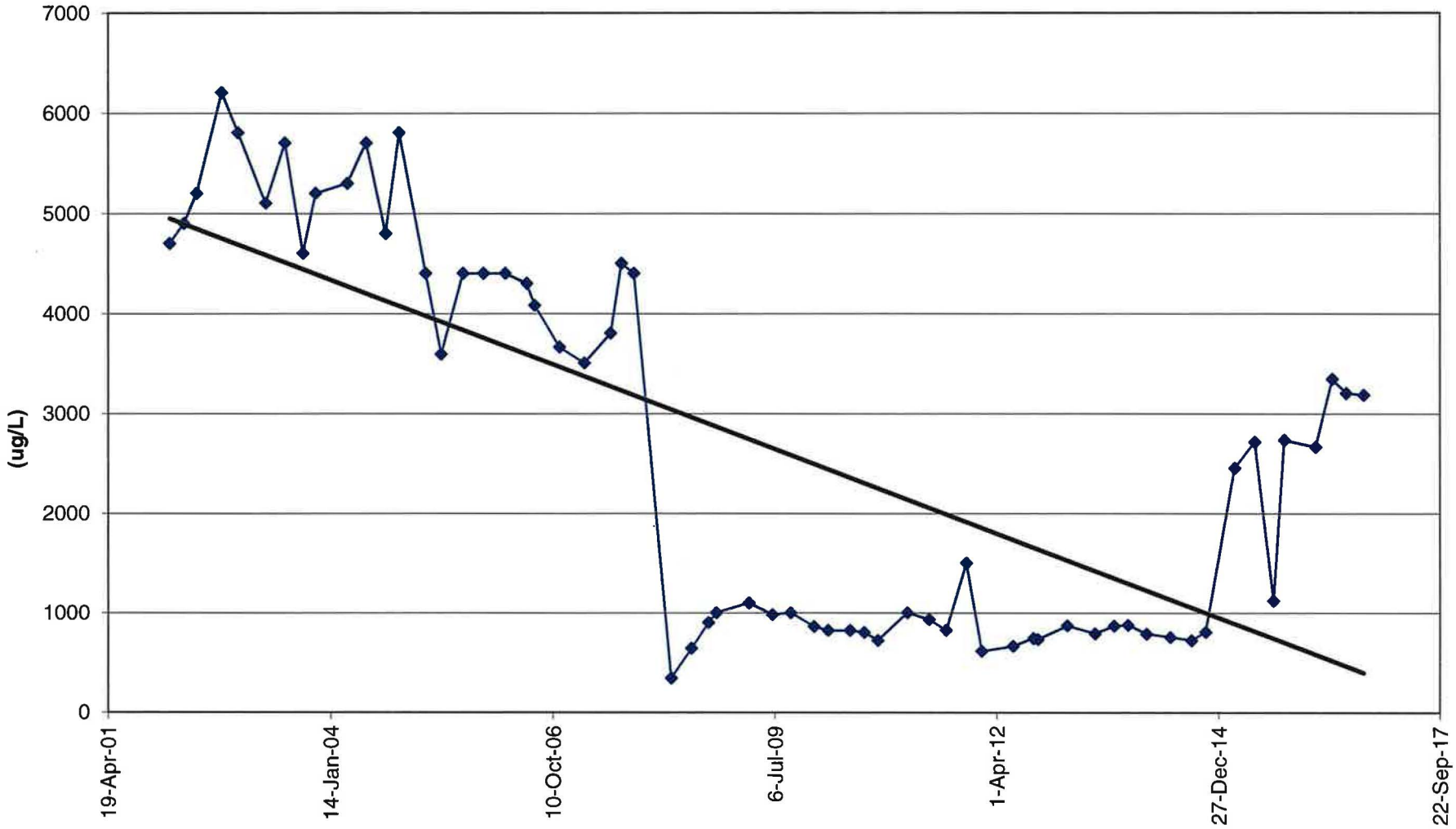
TW4-10 Chloroform Values



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
12-Oct-16	3180	1.58	ND	ND	8.92	57.2

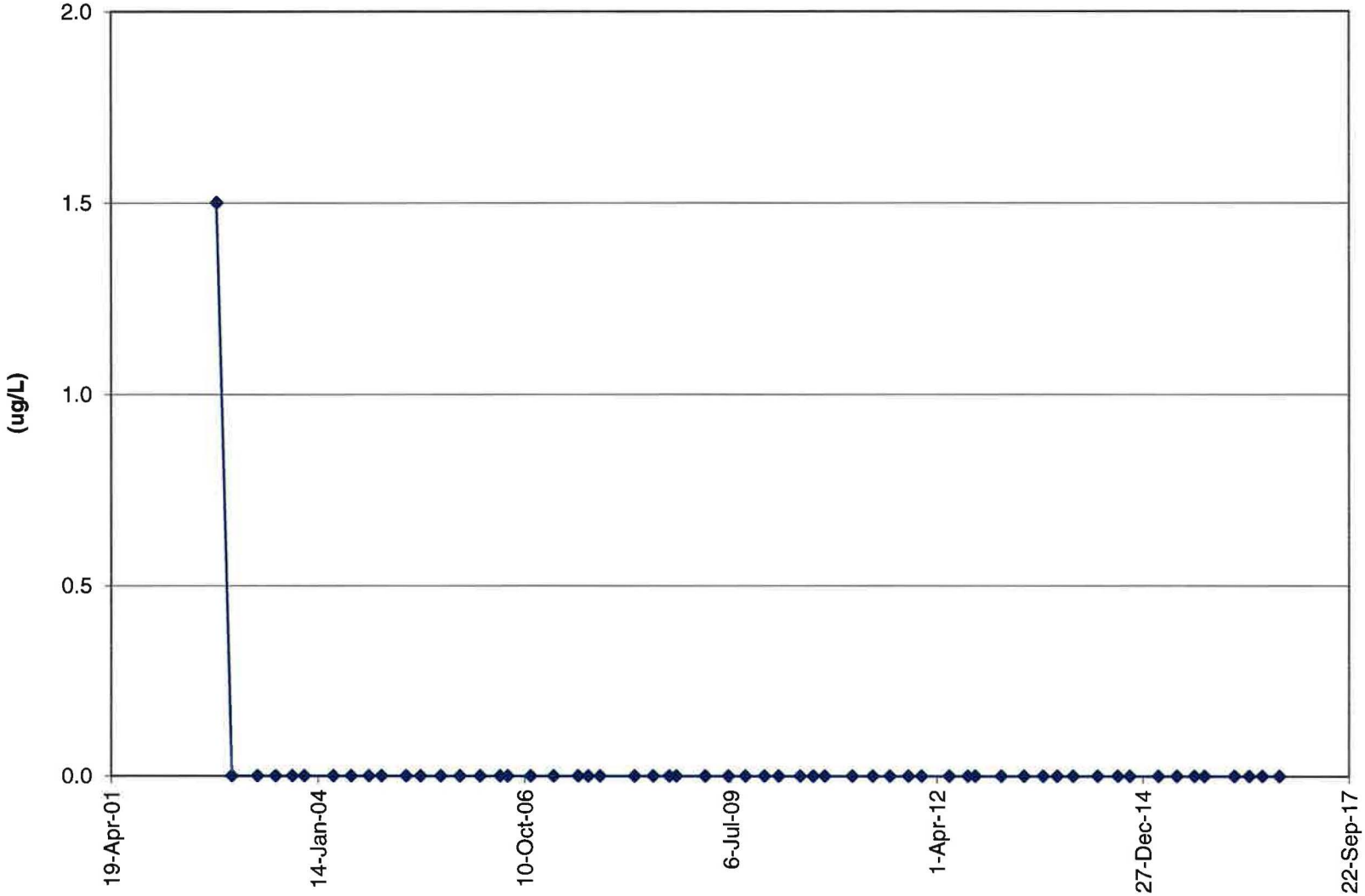
TW4-11 Chloroform Values



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

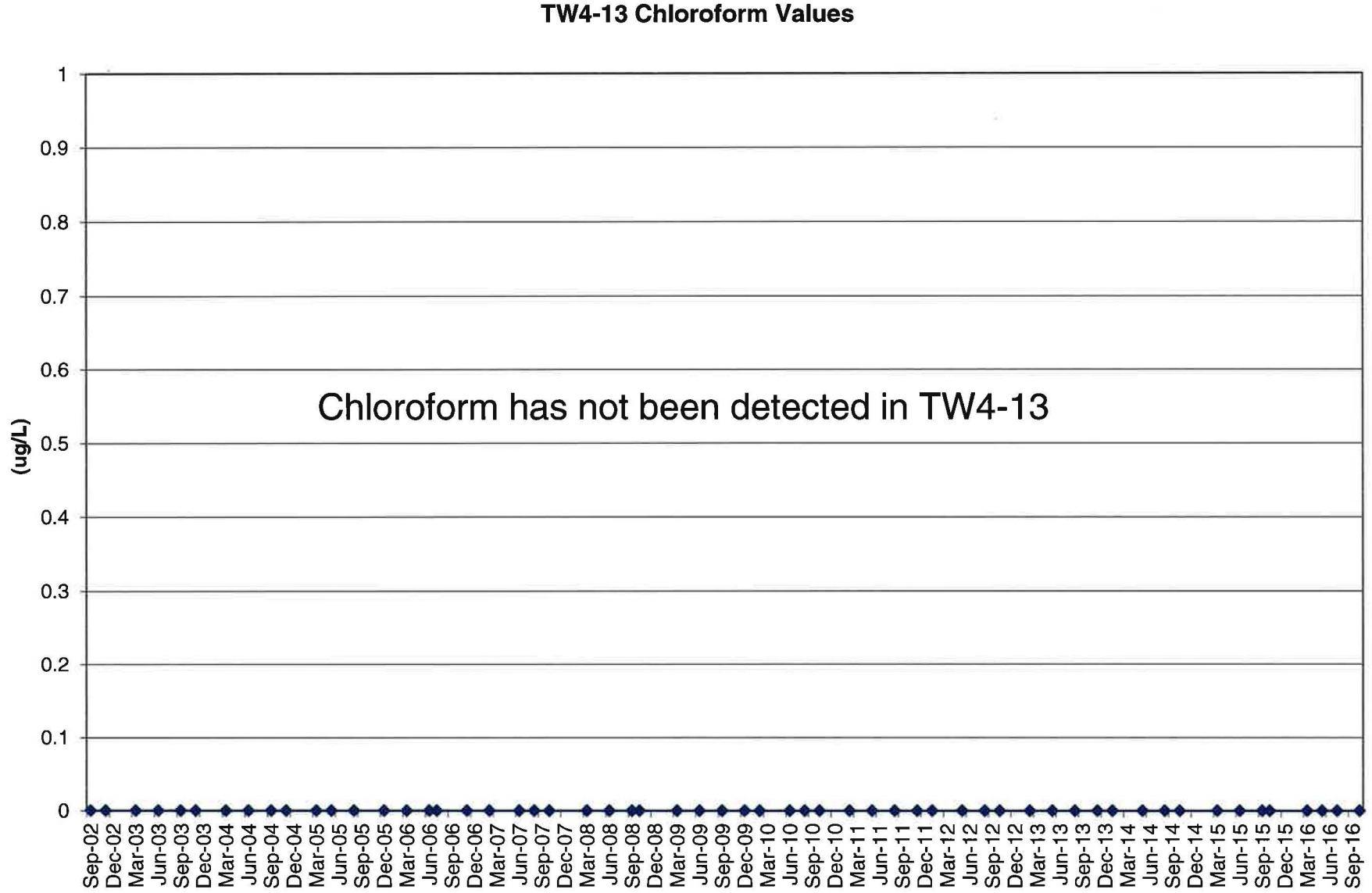
TW4-12	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
31-May-12	ND	ND	ND	ND	10	34
29-Aug-12	ND	ND	ND	ND	13	39
3-Oct-12	ND	ND	ND	ND	13	39
7-Feb-13	ND	ND	ND	ND	12.6	36.7
29-May-13	ND	ND	ND	ND	14.2	38.6
29-Aug-13	ND	ND	ND	ND	17.4	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
19-Oct-16	ND	ND	ND	ND	25.8	72.6

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
19-Oct-16	ND	ND	ND	ND	6.2	70.9


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
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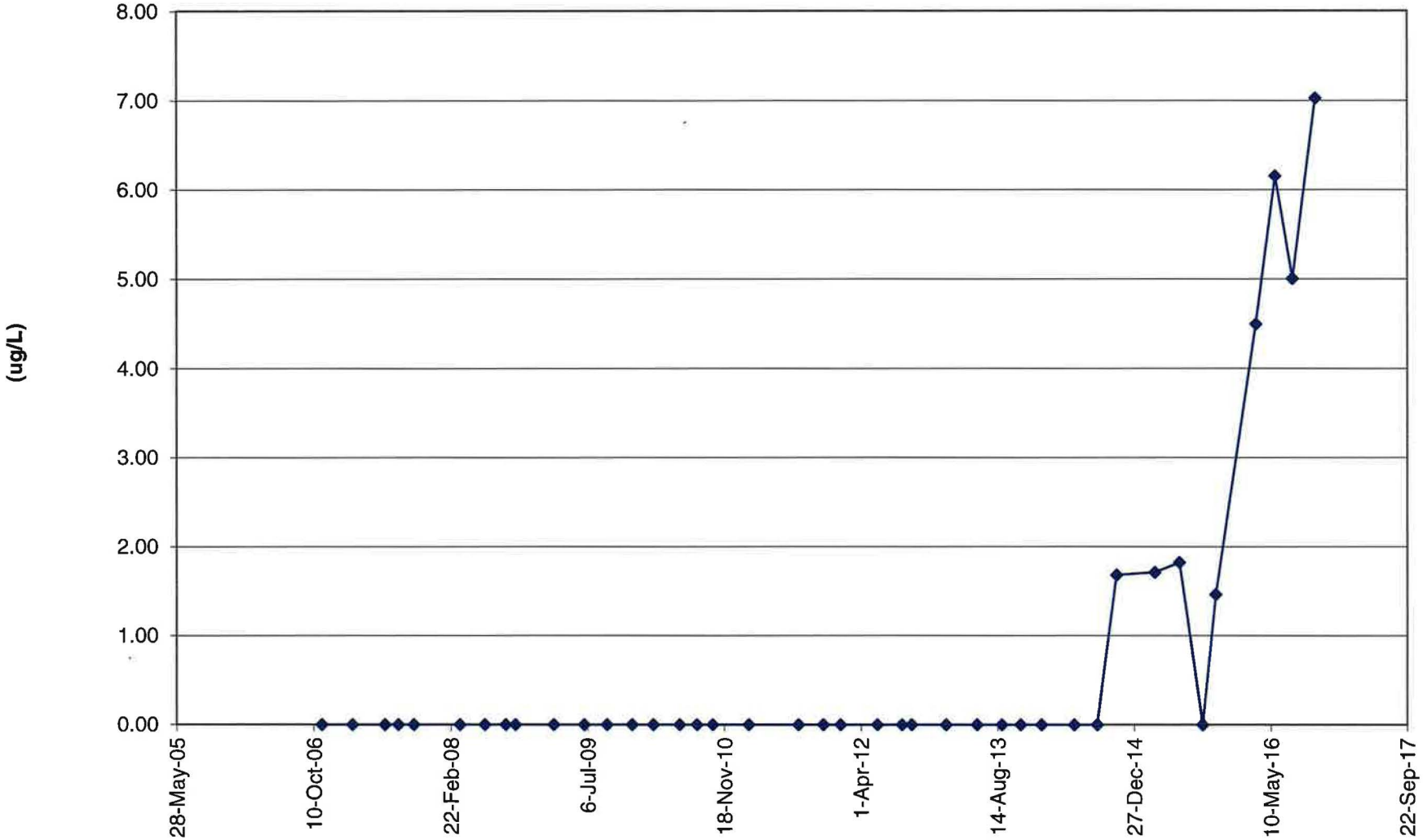
Dec-15
Mar-16
Jun-16
Sep-16

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 (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
20-Oct-16	7.02	ND	ND	1.59	2.86	45.6

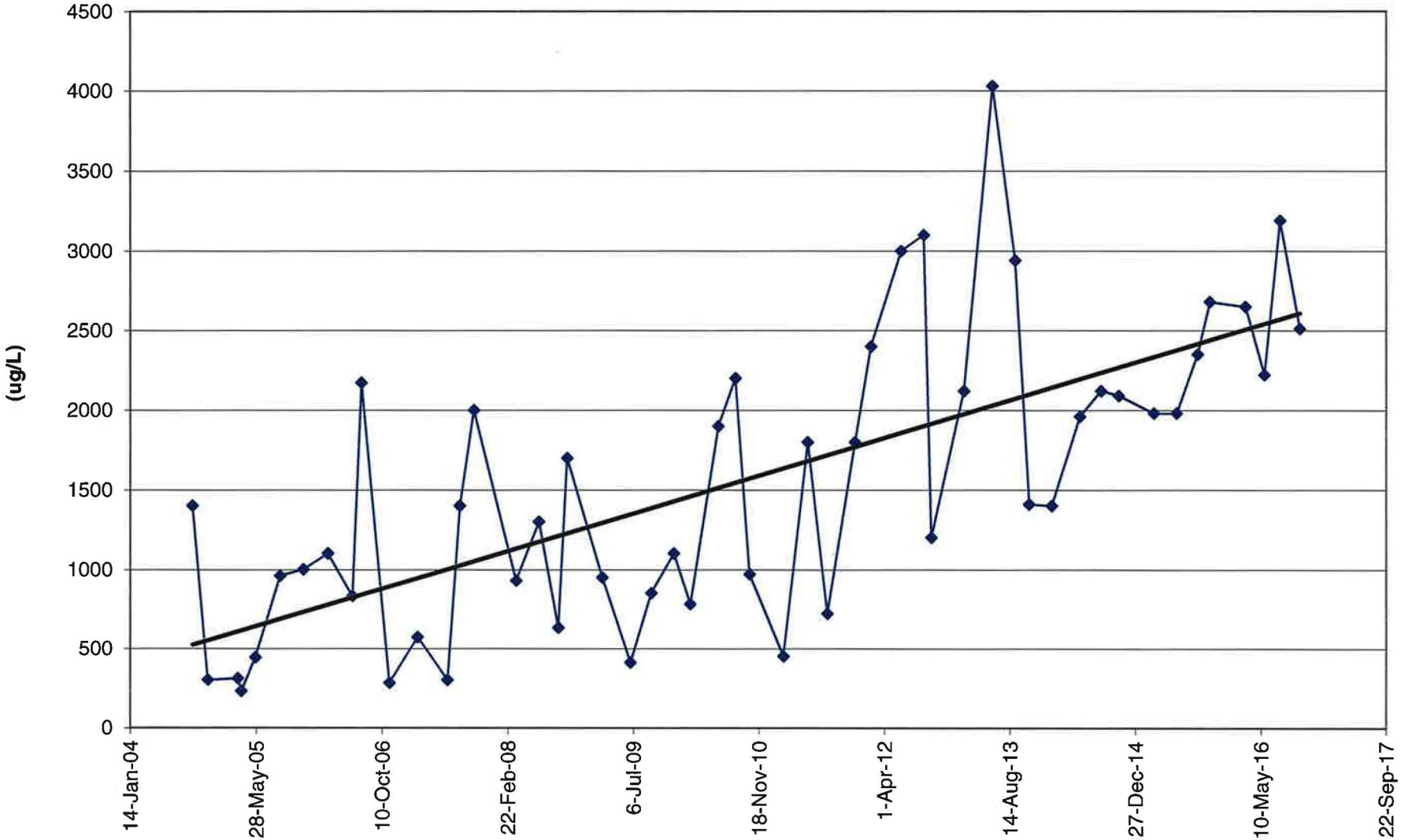
TW4-14 Chloroform Values



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
12-Oct-16	2510	ND	ND	4.31	1.18	66.2

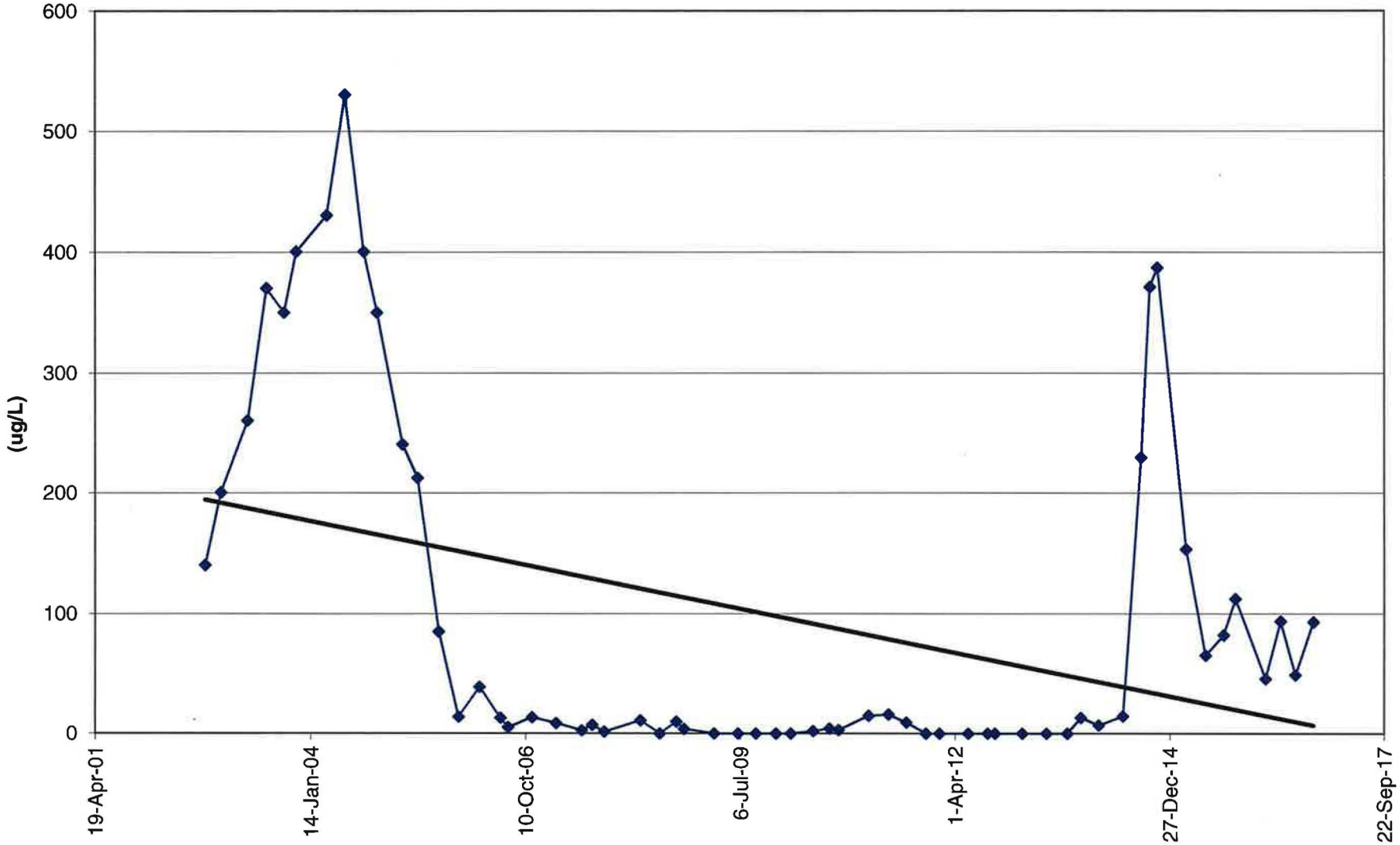
MW-26 Chloroform Values



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
26-Oct-16	92.9	ND	ND	ND	2.78	66.7

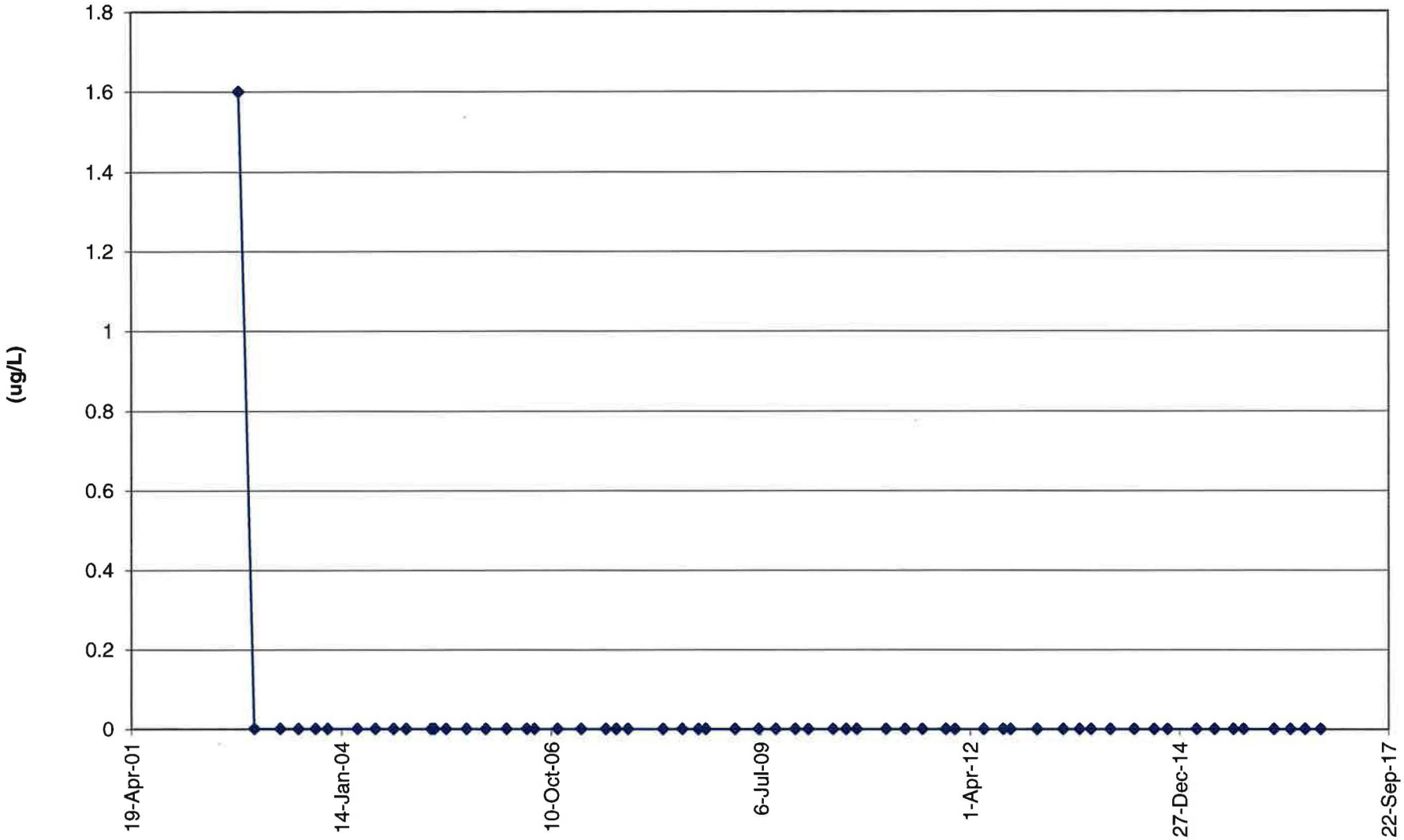
TW4-16 Chloroform Values



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
31-Oct-16	ND	ND	ND	ND	ND	36.9

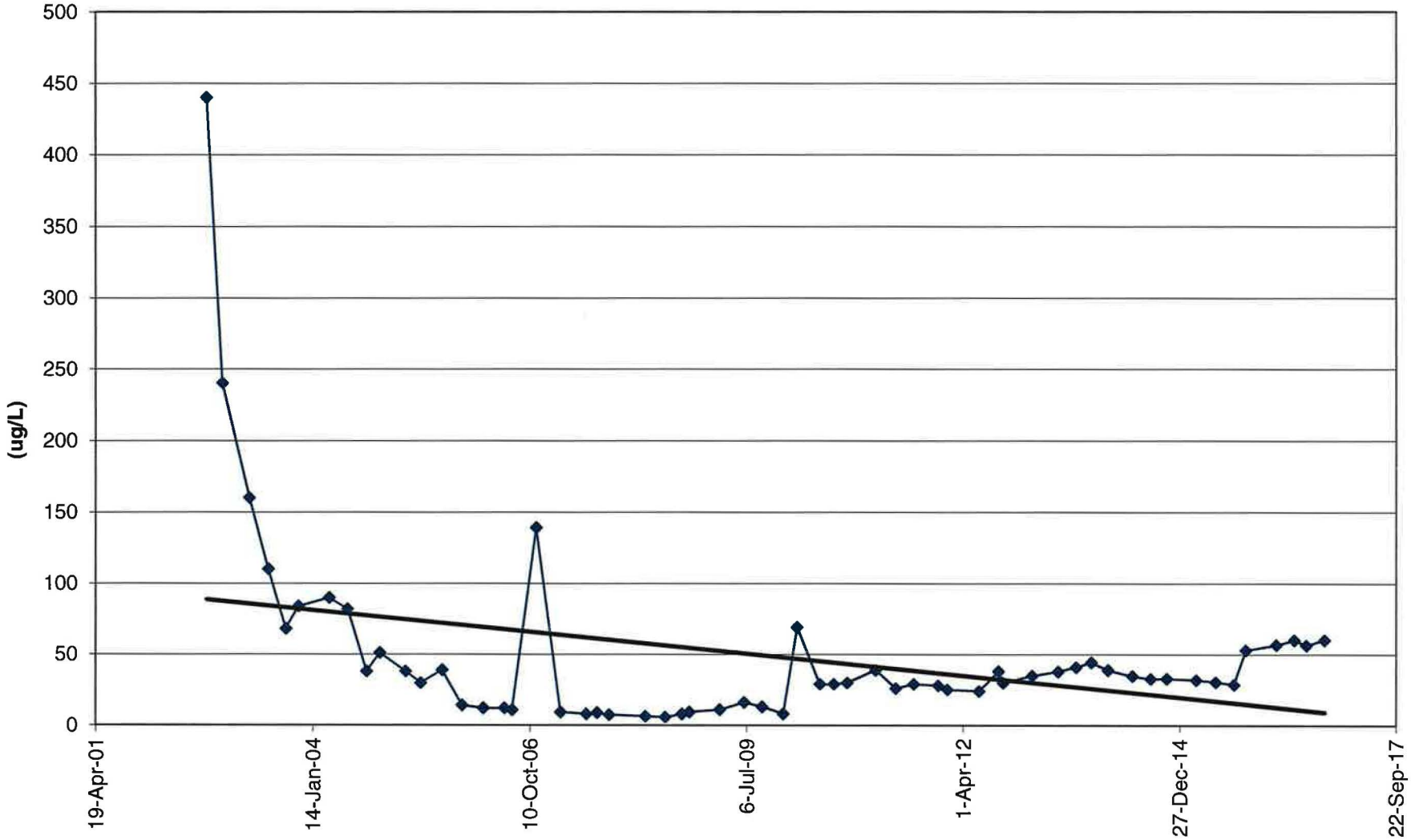
MW-32 Chloroform Values



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

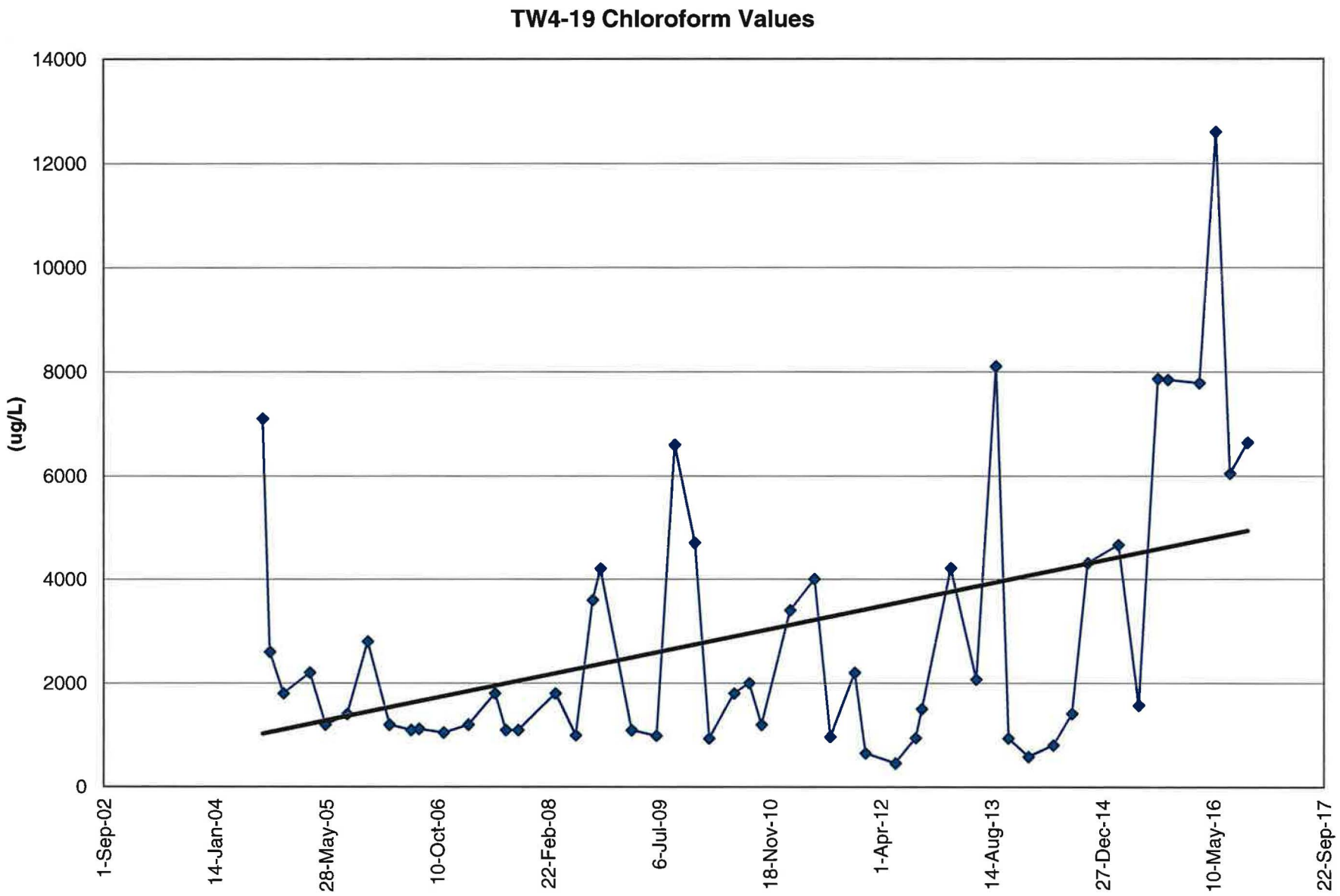
TW4-18	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
13-Jun-12	24.0	ND	ND	ND	6.6	30
11-Sep-12	38.0	ND	ND	ND	6.6	26
3-Oct-12	30.0	ND	ND	ND	6	27
13-Feb-13	34.9	ND	ND	ND	5.58	23.1
13-Jun-13	37.9	ND	ND	ND	8.86	22.9
5-Sep-13	41.0	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
26-Oct-16	60.1	ND	ND	ND	5.24	43.9

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

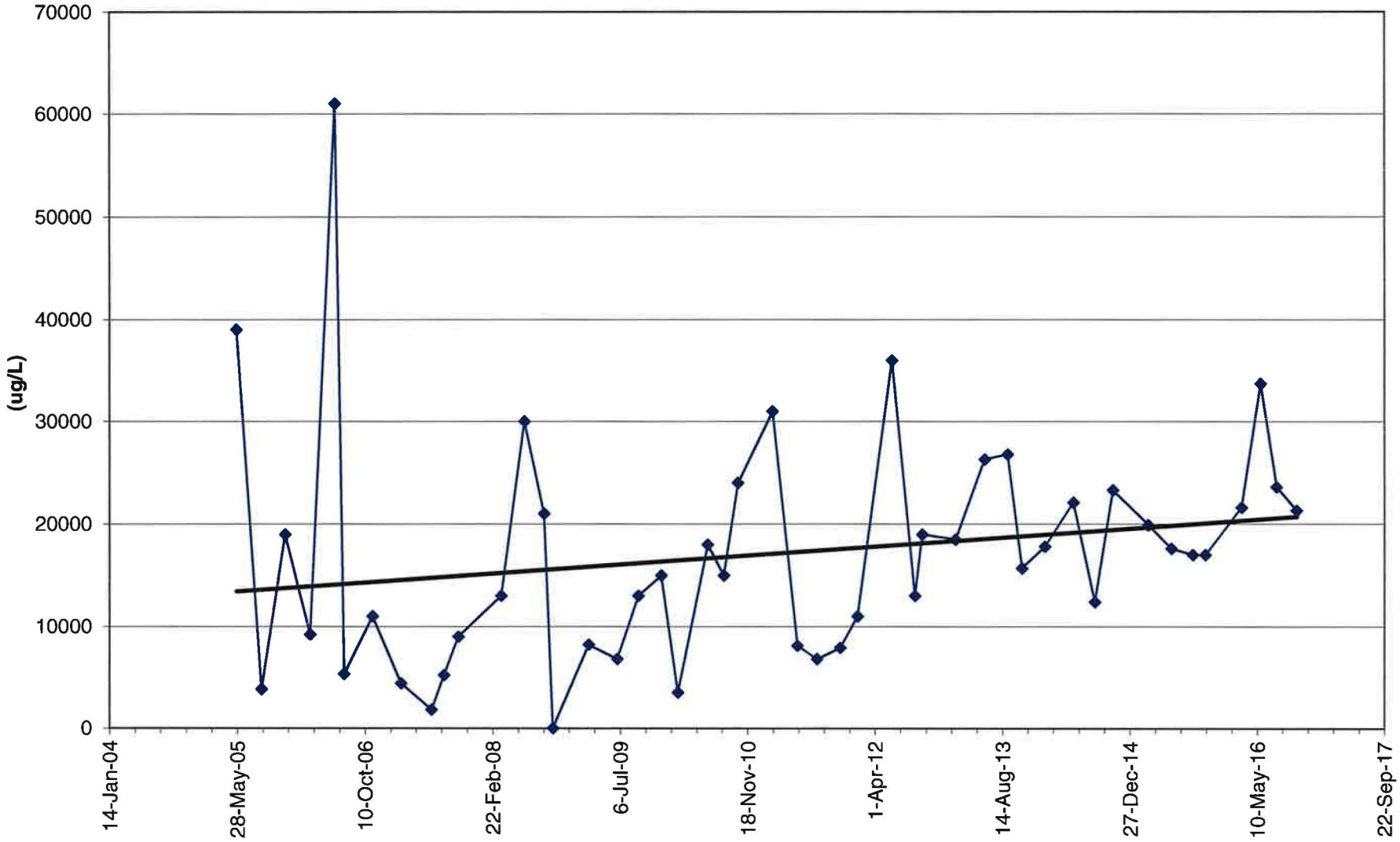
TW4-19	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
11-Oct-10	1200	1.3	<1	<1	2.7	146
17-Feb-11	3400	17	ND	ND	17	135
7-Jun-11	4000	8.3	ND	ND	12	148
17-Aug-11	970	2.1	ND	ND	3	148
5-Dec-11	2200	5.4	ND	ND	5	148
23-Jan-12	650	1.5	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
25-Jul-16	6040	9.89	ND	ND	10.5	214
13-Oct-16	6640	10.8	ND	ND	10.0	200


TW4-19 Chloroform Values
(ug/L)
14000
12000
10000
8000
6000
4000
2000
0
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
12-Oct-16	21300	24.4	ND	ND	11.4	301

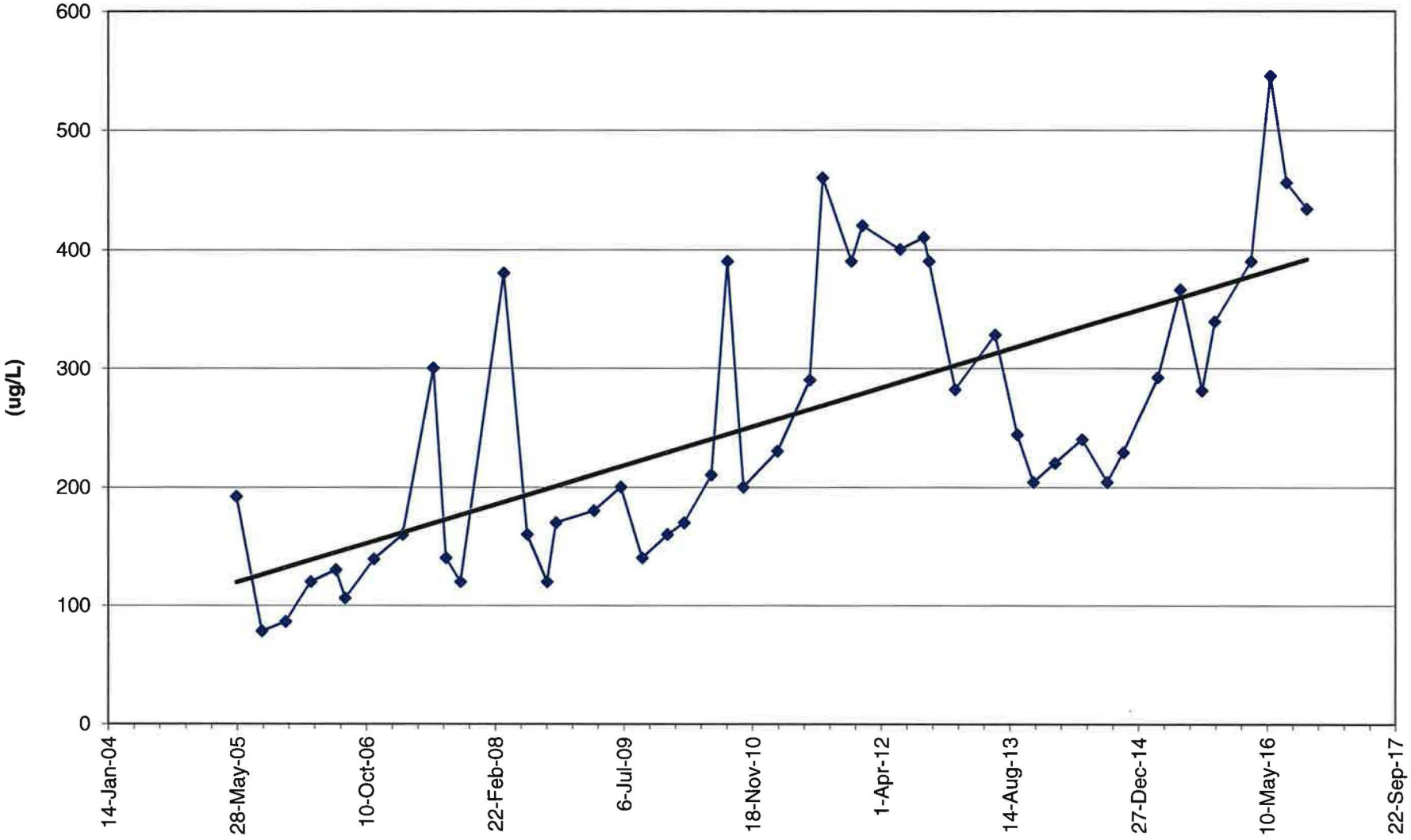
TW4-20 Chloroform Values



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

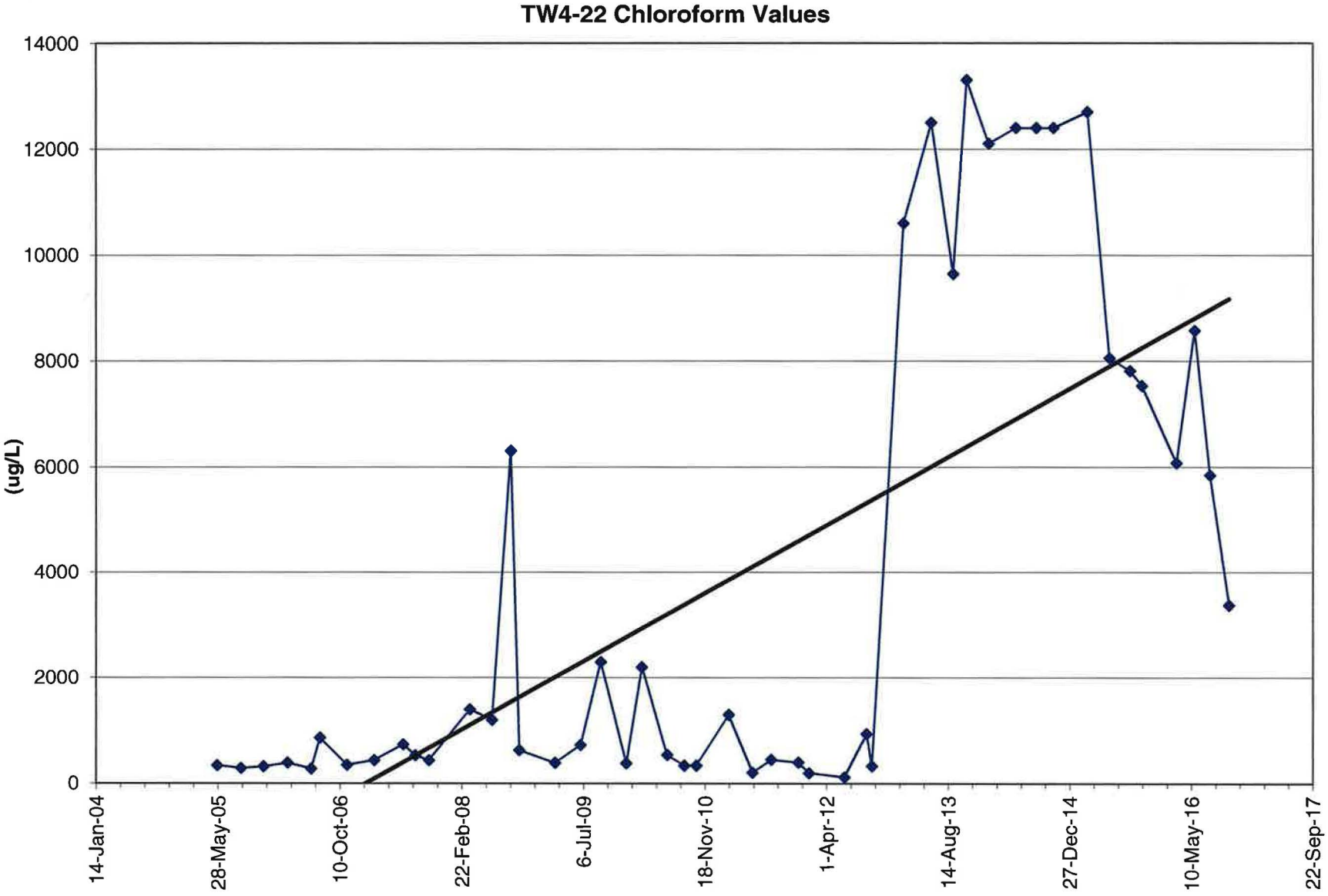
TW4-21	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
12-Mar-15	292	1.75	ND	ND	10.9	255
8-Jun-15	366	1.92	ND	ND	13.1	494
31-Aug-15	281	ND	ND	ND	14.7	499
19-Oct-15	339	ND	ND	ND	14.3	413
9-Mar-16	390	ND	ND	ND	14.6	452
23-May-16	545	ND	ND	ND	13.1	425
25-Jul-16	456	ND	ND	ND	16.5	457
12-Oct-16	434	ND	ND	ND	11.4	301

TW4-21 Chloroform Values

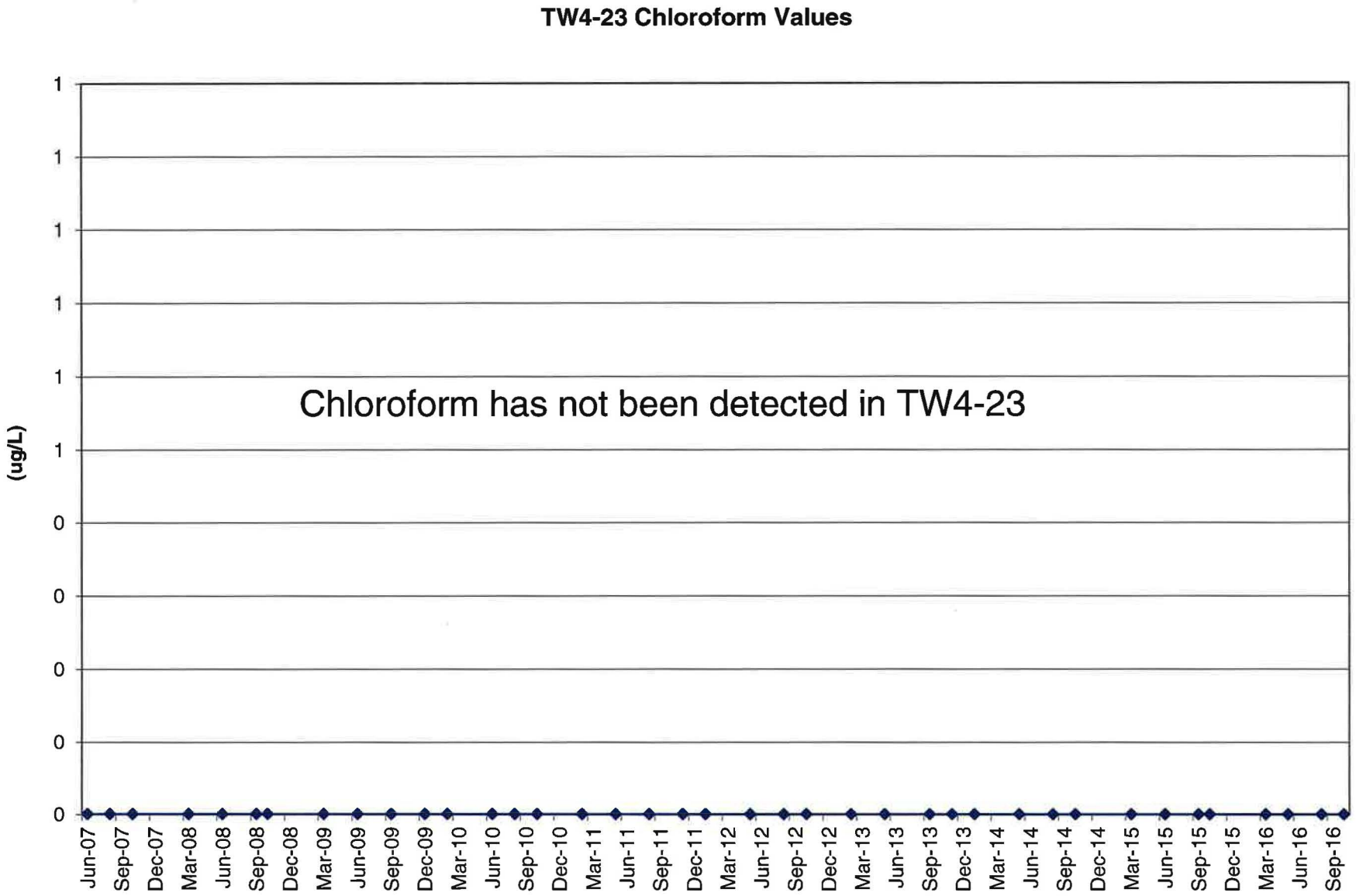


TW4-22	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
25-May-05	340	NA	NA	NA	18.2	NA
31-Aug-05	290	<5	<5	<5	15.7	NA
1-Dec-05	320	<5	<5	<5	15.1	NA
9-Mar-06	390	<10	<10	<10	15.3	236
14-Jun-06	280	<10	<10	<10	14.3	221
20-Jul-06	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

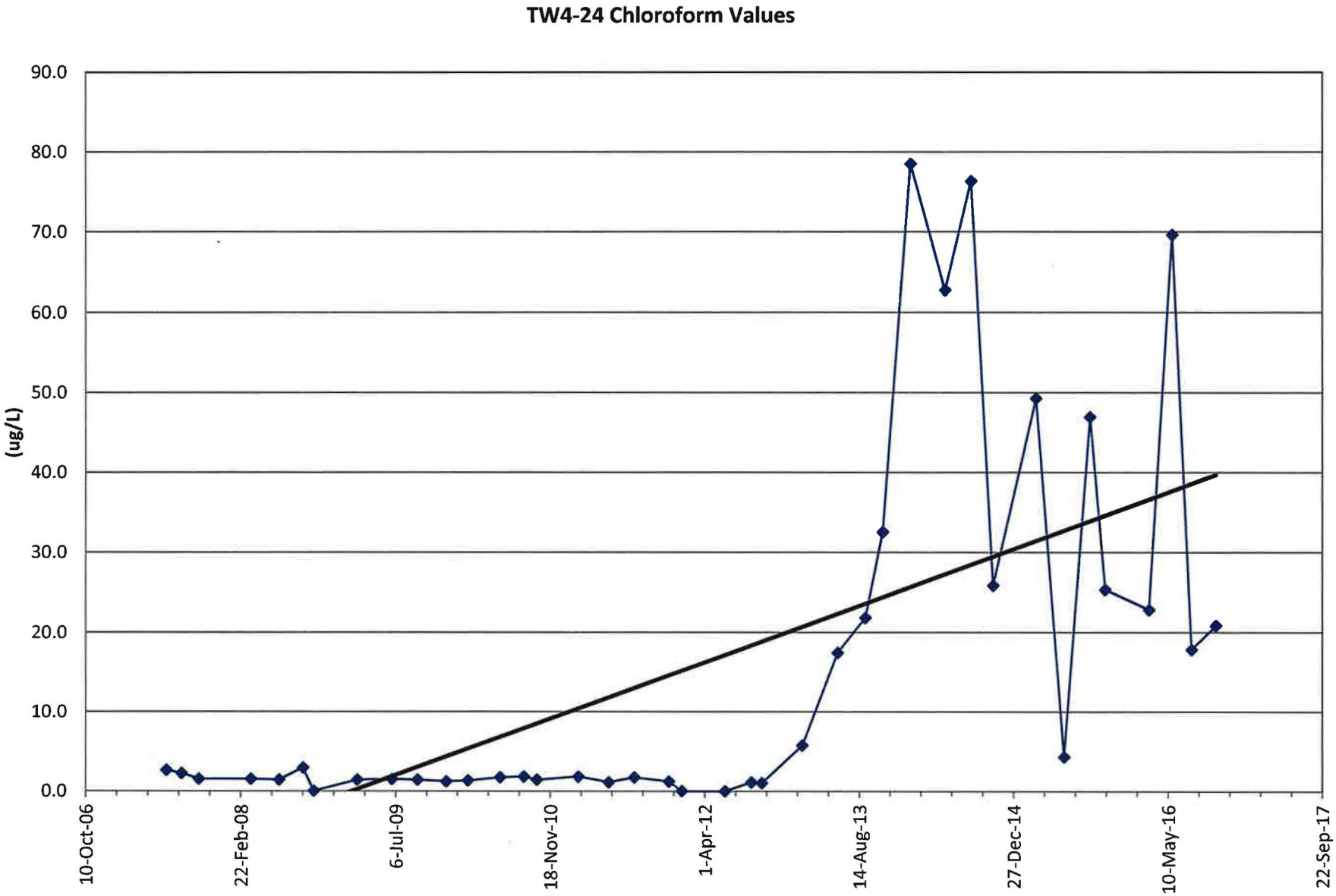
TW4-22	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
9-Mar-15	12700	3.77	4.31	ND	69.2	675
8-Jun-15	8050	2.42	3.42	ND	47.1	390
31-Aug-15	7810	ND	5.47	ND	64.7	557
19-Oct-15	7530	ND	5.1	ND	56.1	567
9-Mar-16	6070	ND	ND	ND	31.1	583
23-May-16	8570	2.64	ND	ND	58.4	598
25-Jul-16	5840	ND	ND	ND	61.3	619
12-Oct-16	3370	1.08	ND	ND	61.5	588


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

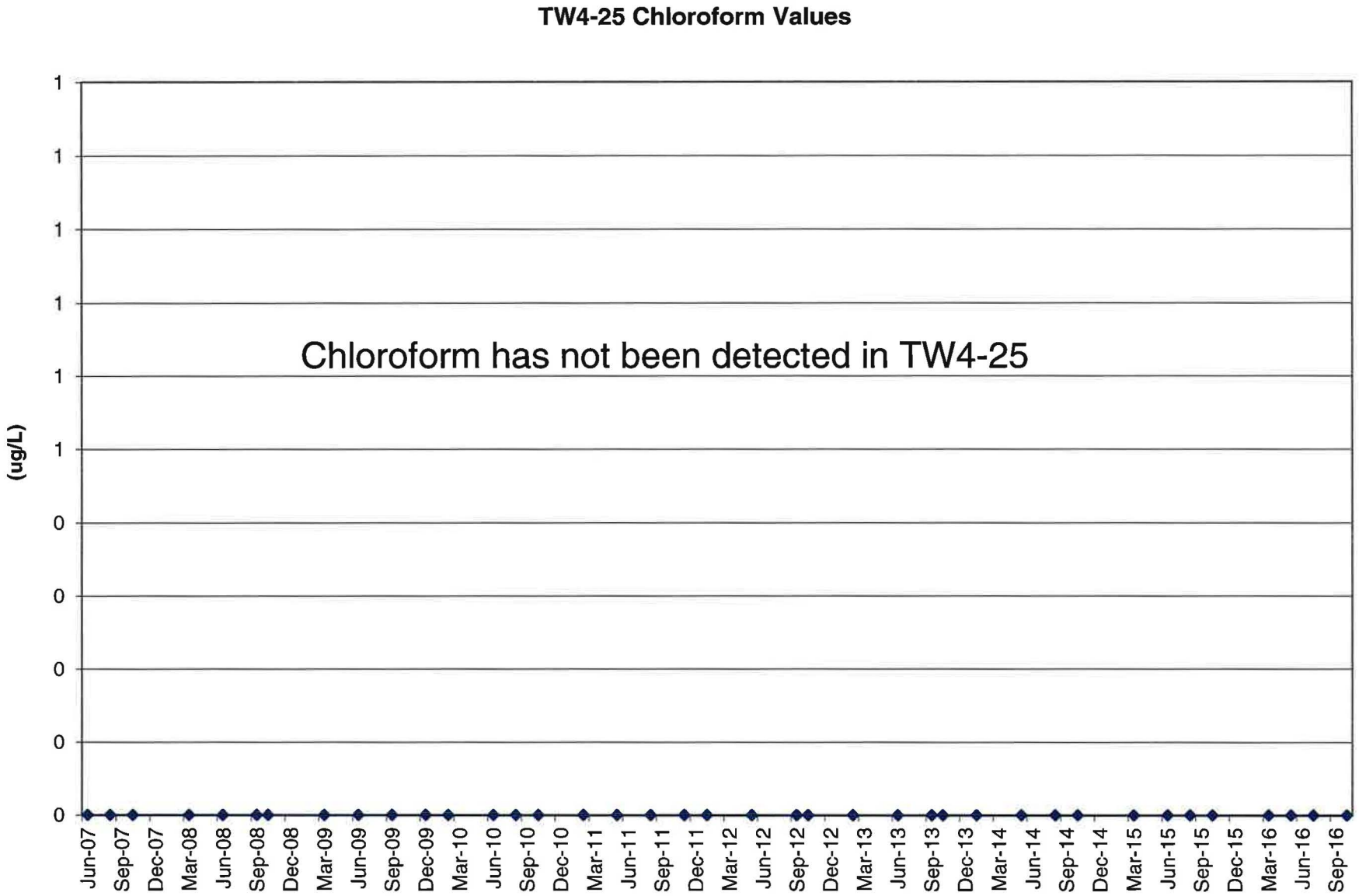
TW4-23	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
27-Jun-07	<1	<1	<1	<1	<0.1	47
15-Aug-07	<1	<1	<1	<1	<0.1	46
10-Oct-07	<1	<1	<1	<1	<0.1	43
26-Mar-08	<1	<1	<1	<1	<0.1	41
25-Jun-08	<1	<1	<1	<1	<0.05	41
10-Sep-08	<1	<1	<1	<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
20-Oct-16	ND	ND	ND	ND	ND	52.1


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
Sep-16

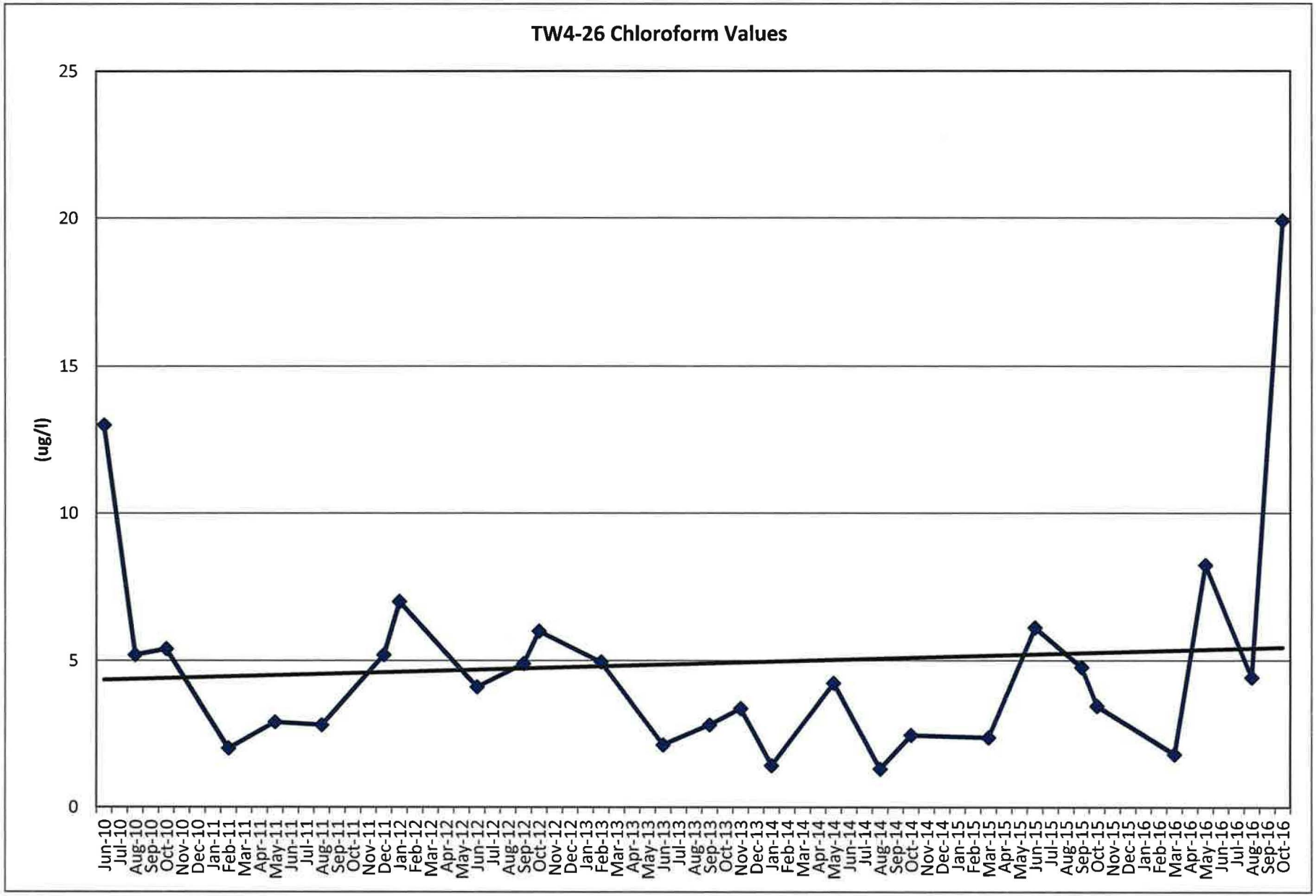
TW4-24	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
27-Jun-07	2.6	<1	<1	<1	26.1	770
15-Aug-07	2.2	<1	<1	<1	29	791
10-Oct-07	1.5	<1	<1	<1	24.7	692
26-Mar-08	1.5	<1	<1	<1	24.4	740
25-Jun-08	1.4	<1	<1	<1	45.3	834
10-Sep-08	2.9	<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
12-Oct-16	20.8	ND	ND	ND	31.9	1010


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

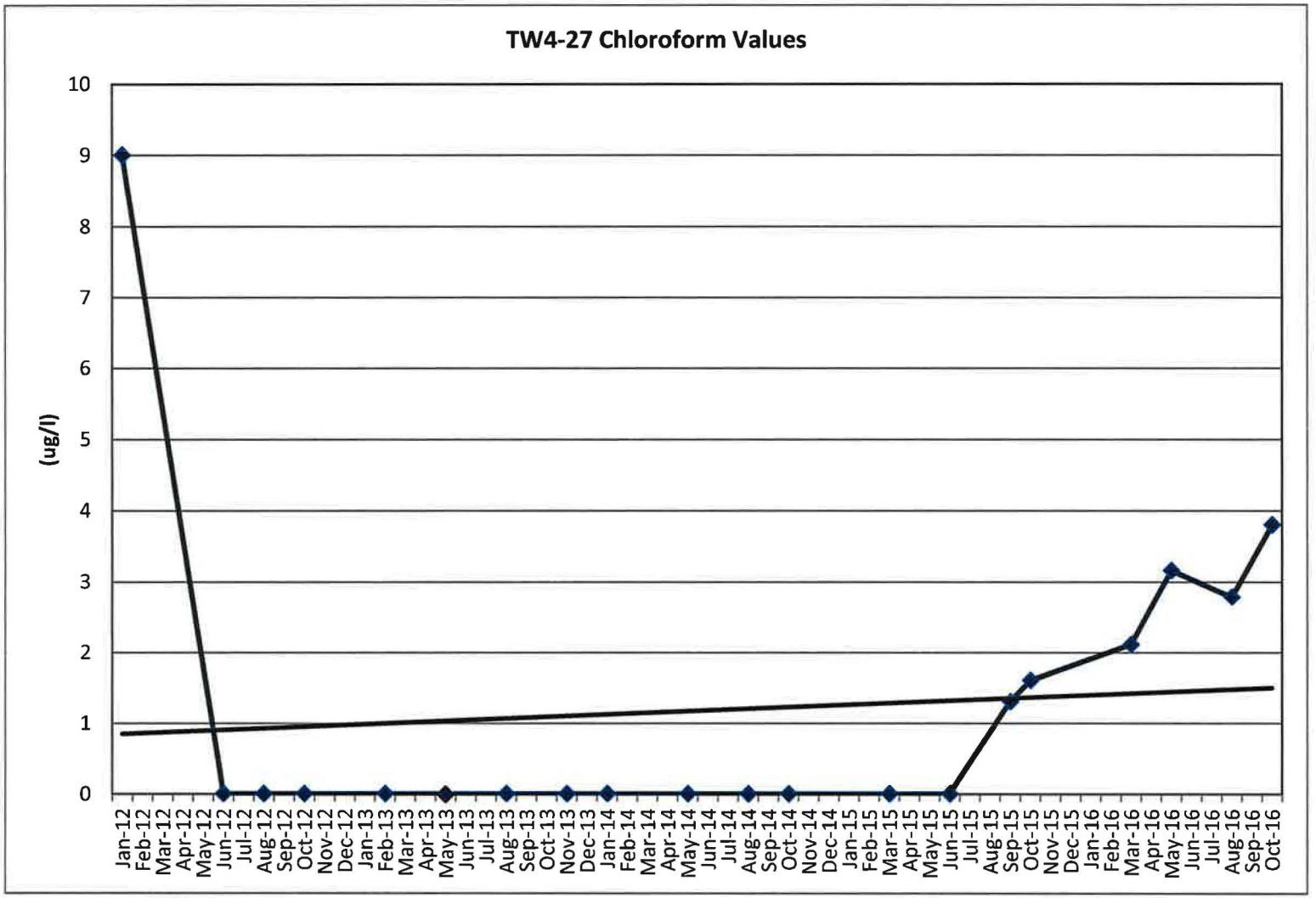
TW4-25	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
27-Jun-07	<1	<1	<1	<1	17.1	395
15-Aug-07	<1	<1	<1	<1	16.7	382
10-Oct-07	<1	<1	<1	<1	17	356
26-Mar-08	<1	<1	<1	<1	18.7	374
25-Jun-08	<1	<1	<1	<1	22.1	344
10-Sep-08	<1	<1	<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
12-Oct-16	ND	ND	ND	ND	1.24	59.8


TW4-25 Chloroform Values
(ug/L)
1
1
1
1
1
1
0
0
0
0
0
Chloroform has not been detected in TW4-25
Jun-07
Sep-07
Dec-07
Mar-08
Jun-08
Sep-08
Dec-08
Mar-09
Jun-09
Sep-09
Dec-09
Mar-10
Jun-10
Sep-10
Dec-10
Mar-11
Jun-11
Sep-11
Dec-11
Mar-12
Jun-12
Sep-12
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
Sep-16

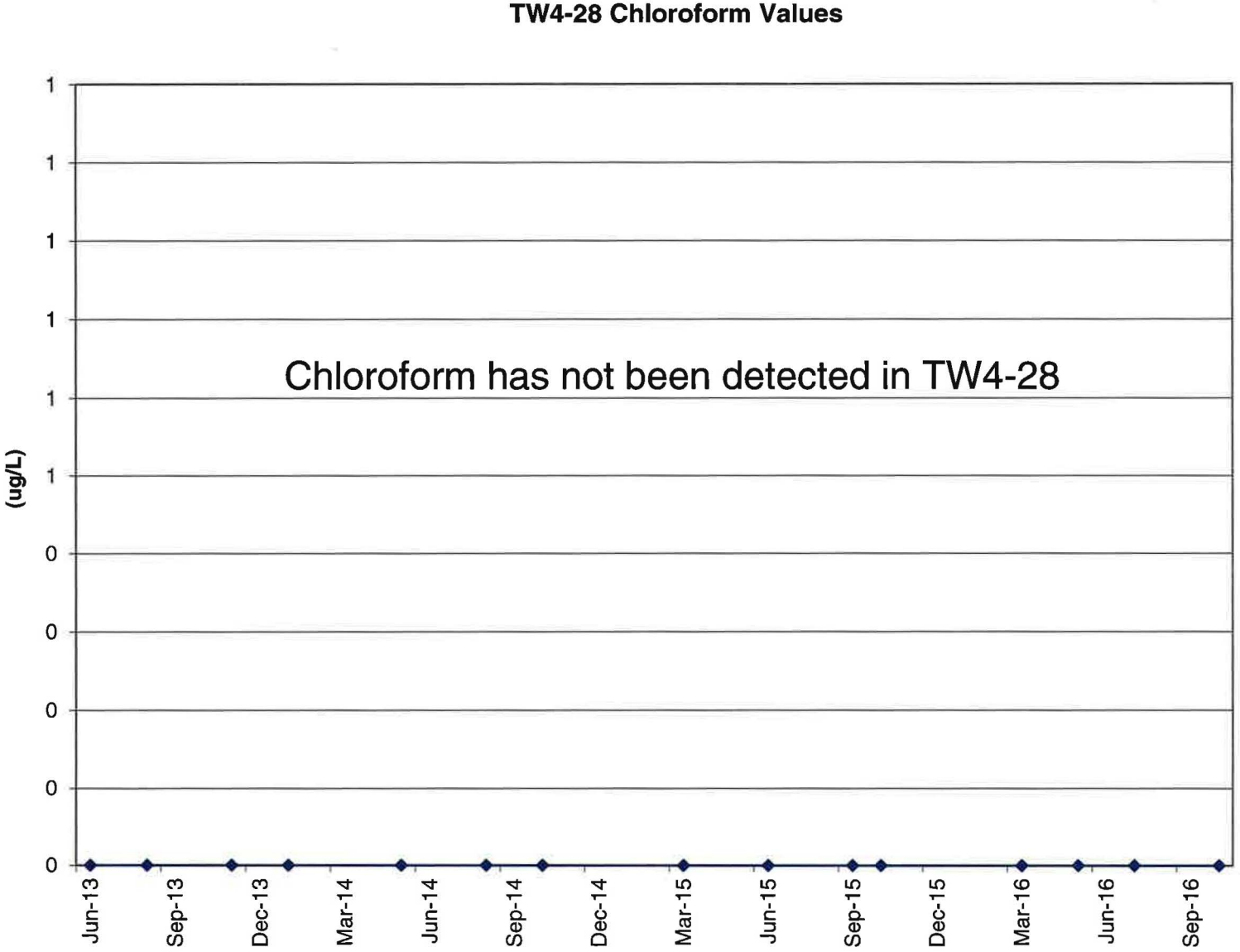
TW4-26	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
15-Jun-10	13	<1	<1	<1	7.9	33
11-Aug-10	5	<1	<1	<1	9	17
6-Oct-10	5.4	<1	<1	<1	9.6	22
22-Feb-11	2.0	ND	ND	ND	10	30
26-May-11	2.9	ND	ND	ND	10	15
17-Aug-11	2.8	ND	ND	ND	11	19
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
20-Oct-16	19.9	ND	ND	ND	15.0	14.2


TW4-26 Chloroform Values
(ug/l)
25
20
15
10
5
0
Jun-10
Jul-10
Aug-10
Sep-10
Oct-10
Nov-10
Dec-10
Jan-11
Feb-11
Mar-11
Apr-11
May-11
Jun-11
Jul-11
Aug-11
Sep-11
Oct-11
Nov-11
Dec-11
Jan-12
Feb-12
Mar-12
Apr-12
May-12
Jun-12
Jul-12
Aug-12
Sep-12
Oct-12
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
Sep-16
Oct-16

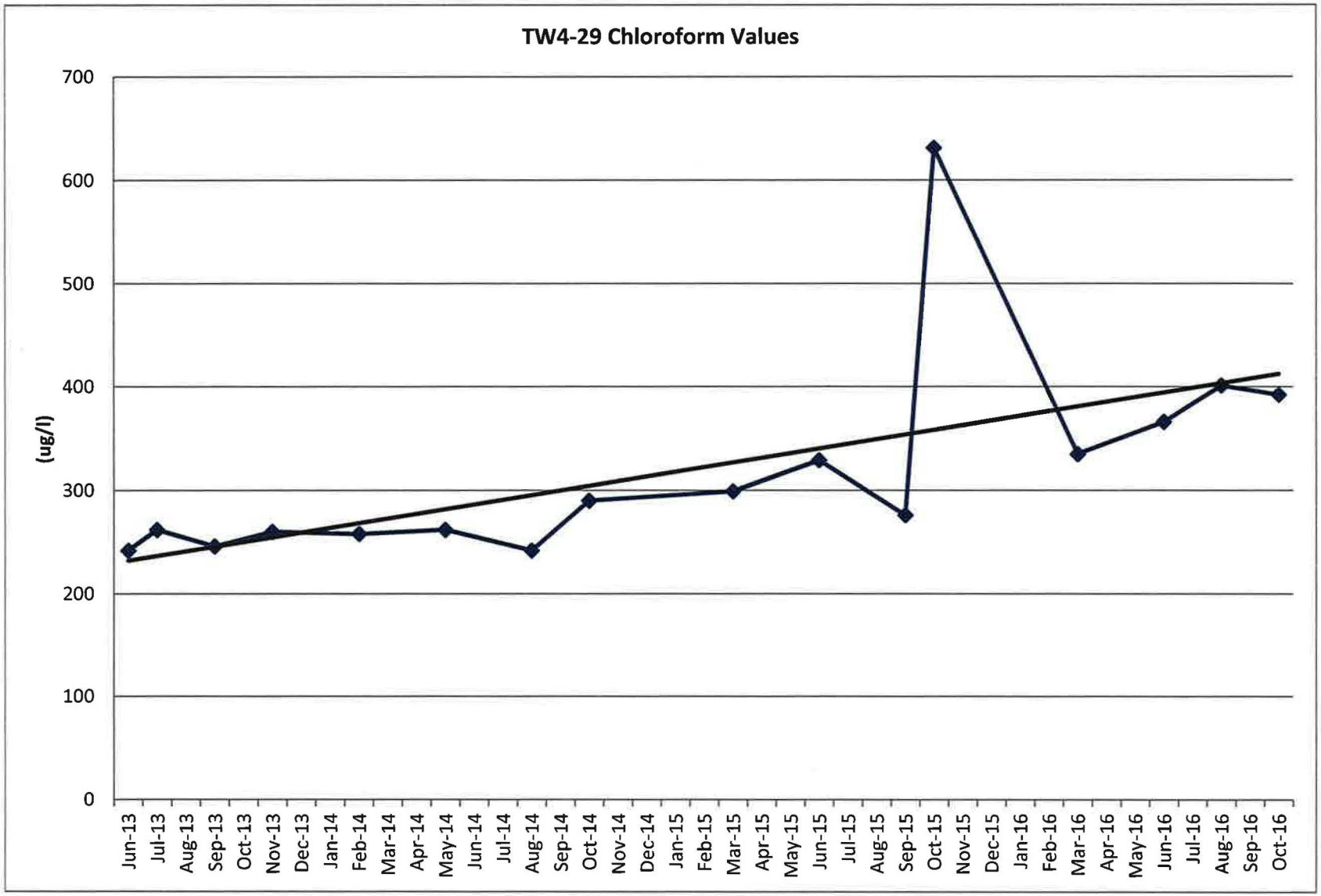
TW4-27	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
24-Jan-12	9	ND	ND	ND	24	11
13-Jun-12	ND	ND	ND	ND	41	17
30-Aug-12	ND	ND	ND	ND	37	21
3-Oct-12	ND	ND	ND	ND	36	18
7-Feb-13	ND	ND	ND	ND	31.2	18.8
30-May-13	ND	ND	ND	ND	29.4	20.3
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
20-Oct-16	3.80	ND	ND	ND	19.3	29.4


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
Sep-16
Oct-16

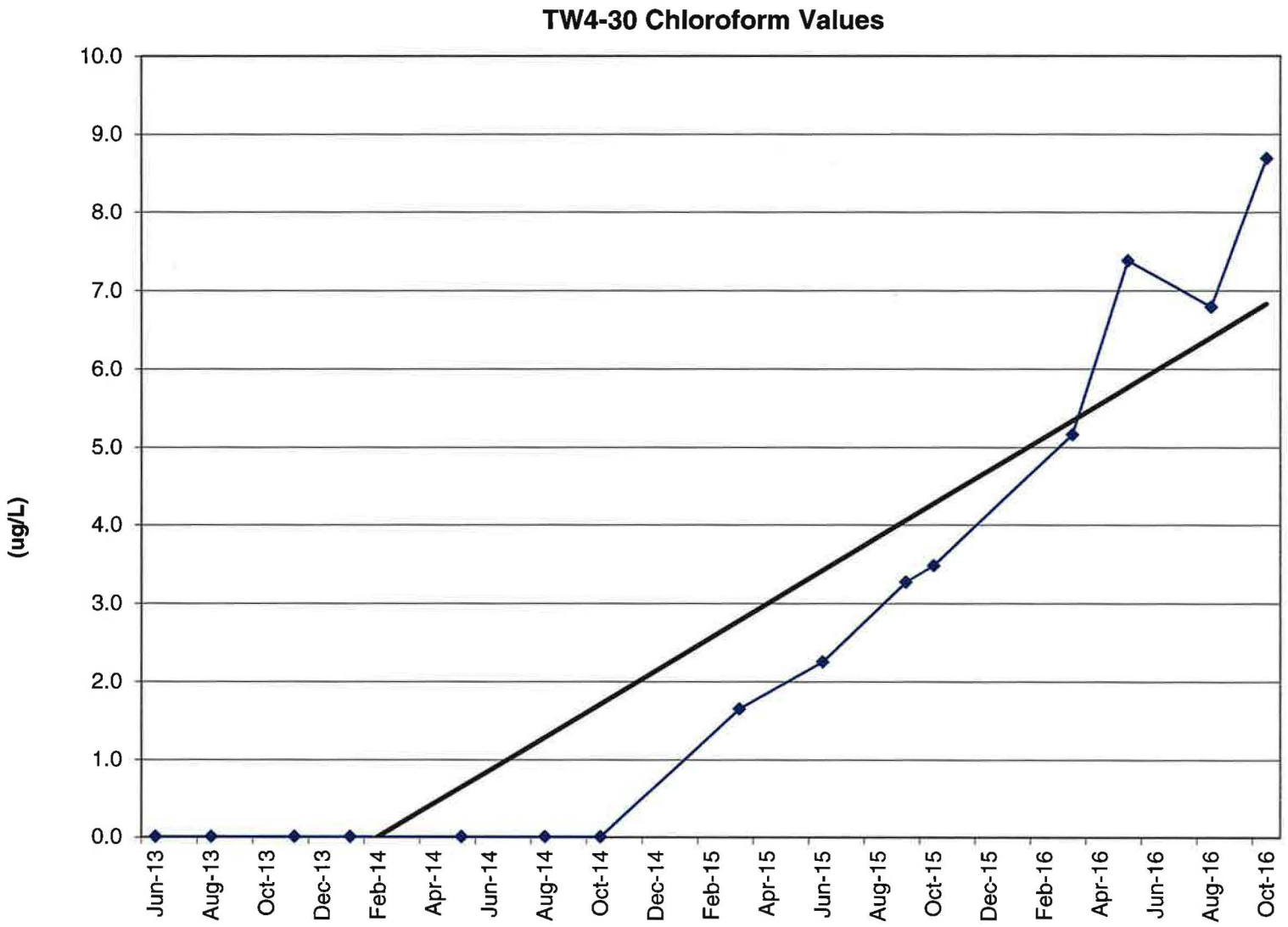
TW4-28	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
19-Jun-13	ND	ND	ND	ND	14.9	44.6
29-Aug-13	ND	ND	ND	ND	17.3	45.3
6-Nov-13	ND	ND	ND	ND	16.2	45.2
22-Jan-14	ND	ND	ND	ND	16.9	47.8
21-May-14	ND	ND	ND	ND	16.5	45.7
13-Aug-14	ND	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
19-Oct-16	ND	ND	ND	ND	25.5	70.9


TW4-28 Chloroform Values
(ug/L)
1
1
1
1
1
1
0
0
0
0
0
Chloroform has not been detected in TW4-28
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
Sep-16

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
26-Oct-16	392	ND	ND	ND	2.4	44.2

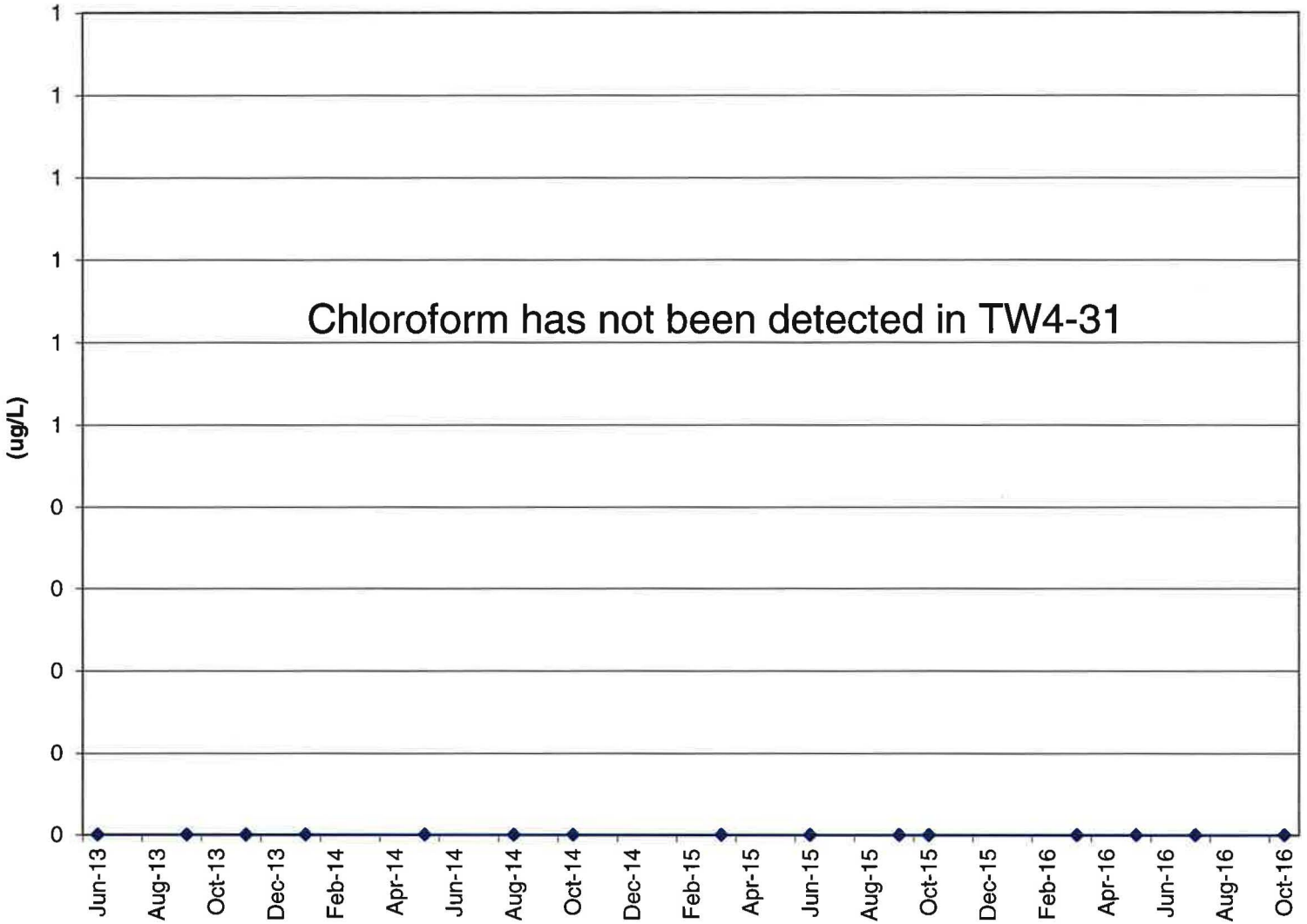

TW4-29 Chloroform Values
(ug/l)
700
600
500
400
300
200
100
0
Jun-13
Jul-13
Aug-13
Sep-13
Oct-13
Nov-13
Dec-13
Jan-14
Feb-14
Mar-14
Apr-14
May-14
Jun-14
Jul-14
Aug-14
Sep-14
Oct-14
Nov-14
Dec-14
Jan-15
Feb-15
Mar-15
Apr-15
May-15
Jun-15
Jul-15
Aug-15
Sep-15
Oct-15
Nov-15
Dec-15
Jan-16
Feb-16
Mar-16
Apr-16
May-16
Jun-16
Jul-16
Aug-16
Sep-16
Oct-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
20-Oct-16	8.69	ND	ND	ND	2.51	41.3


TW4-30 Chloroform Values
(ug/L)
10.0
9.0
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
Oct-16

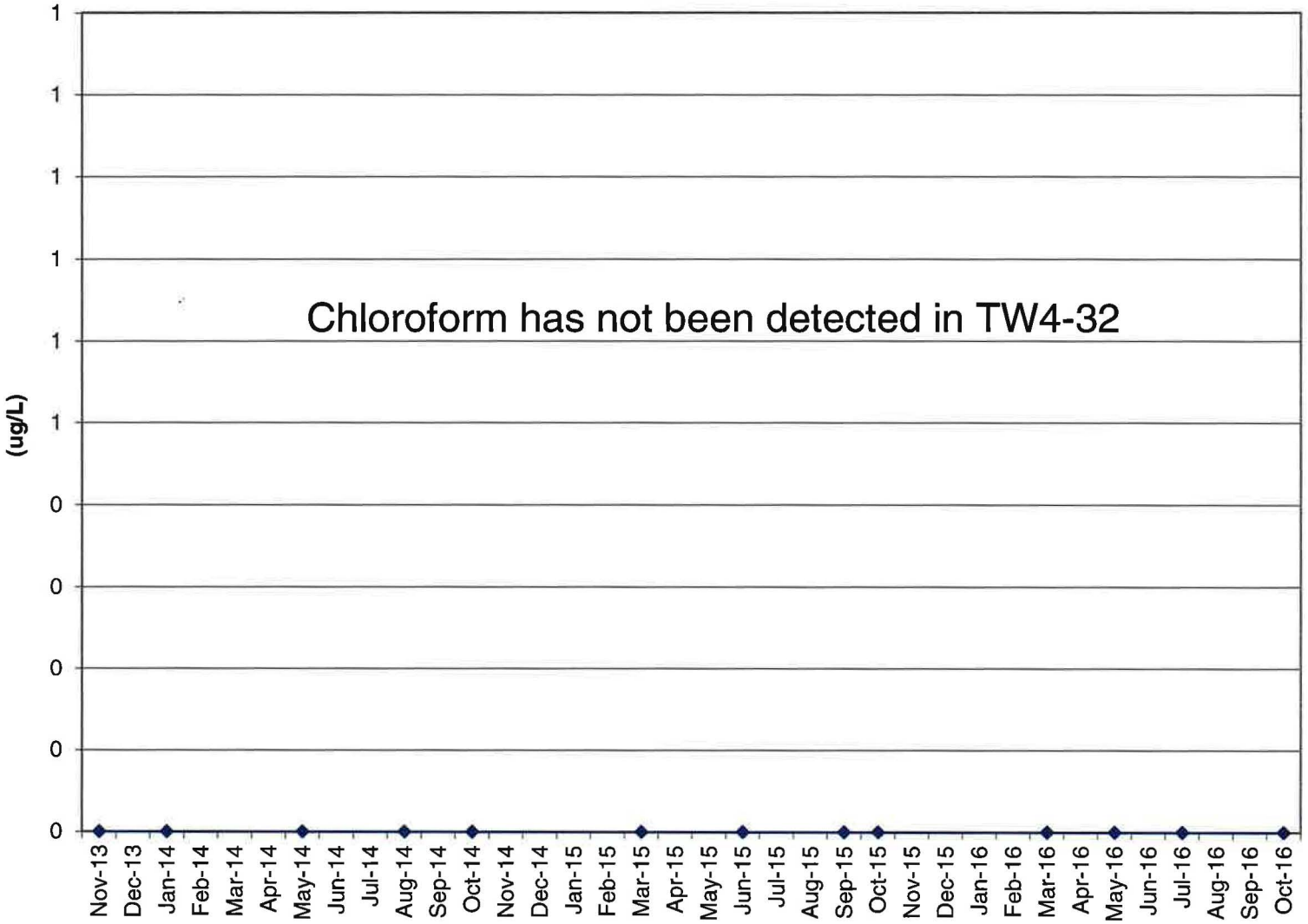
TW4-31	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
19-Jun-13	ND	ND	ND	ND	1.26	28.4
5-Sep-13	ND	ND	ND	ND	1.1	29.4
7-Nov-13	ND	ND	ND	ND	1.33	28
23-Jan-14	ND	ND	ND	ND	1.32	28.5
21-May-14	ND	ND	ND	ND	1.22	26.3
13-Aug-14	ND	ND	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
20-Oct-16	ND	ND	ND	ND	1.14	34.0

TW4-31 Chloroform Values



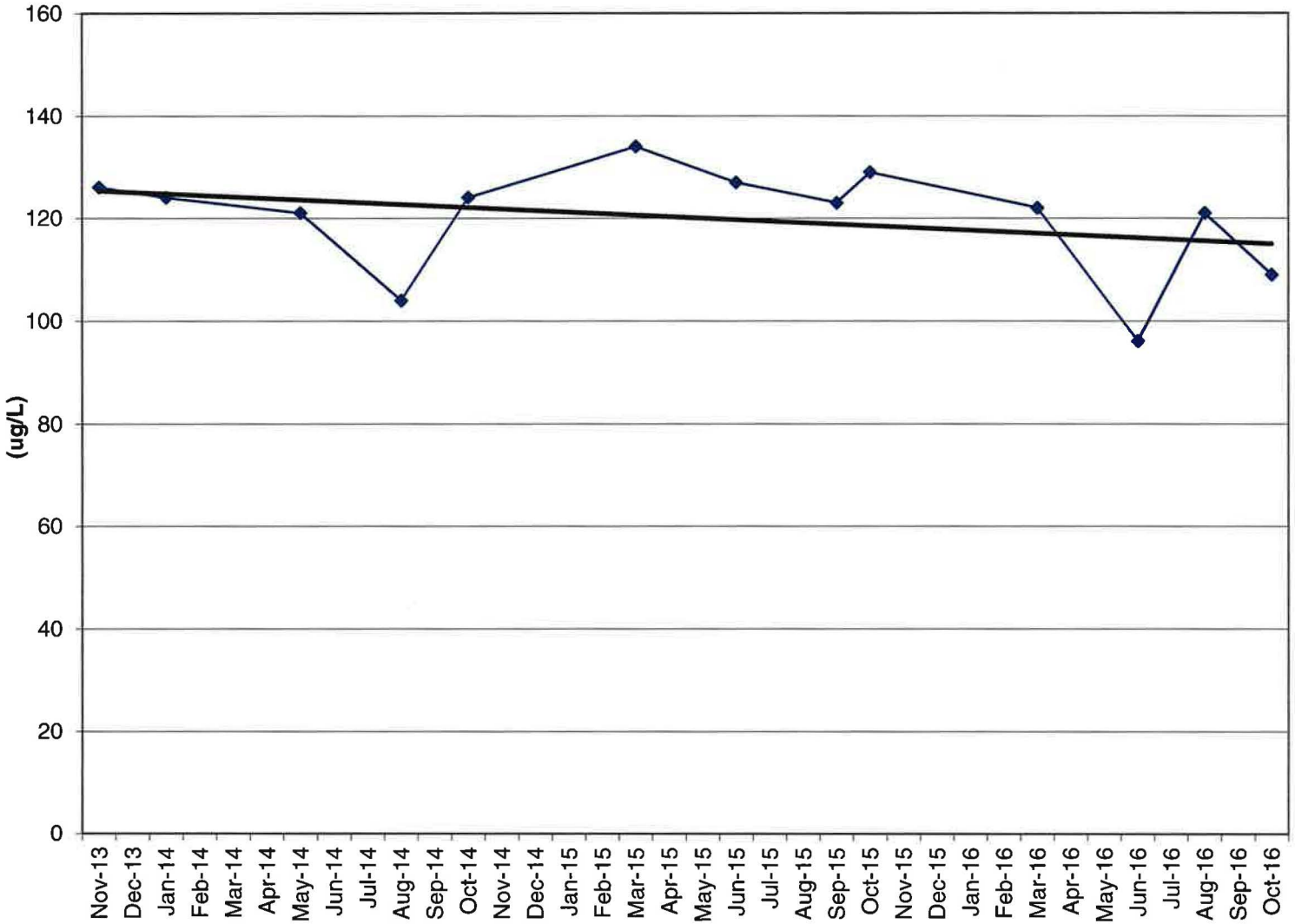
TW4-32	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
14-Nov-13	ND	ND	ND	ND	4.26	52.1
22-Jan-14	ND	ND	ND	ND	5.11	54.5
21-May-14	ND	ND	ND	ND	5.63	54.9
13-Aug-14	ND	ND	ND	ND	4.2	64
23-Oct-14	ND	ND	ND	ND	2.14	62.6
11-Mar-15	ND	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
19-Oct-16	ND	ND	ND	ND	2.87	66.0

TW4-32 Chloroform Values



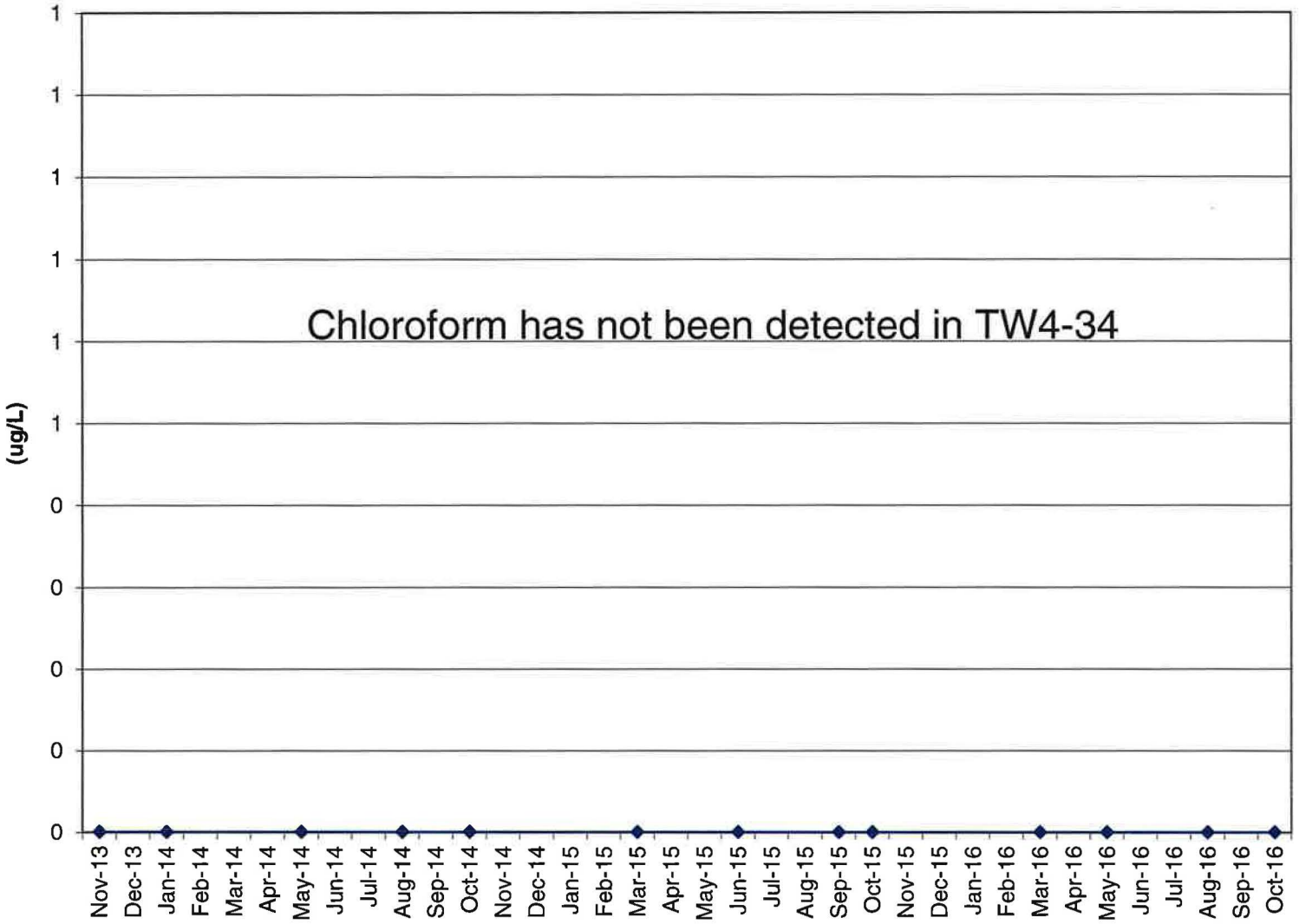
TW4-33	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
14-Nov-13	126	ND	ND	ND	1.82	47.2
30-Jan-14	124	ND	ND	ND	2.56	43.5
22-May-14	121	ND	ND	ND	1.63	46.8
27-Aug-14	104	ND	ND	ND	1.5	43
29-Oct-14	124	ND	ND	ND	2.22	44.2
12-Mar-15	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
26-Oct-16	109	ND	ND	ND	2.36	52.4

TW4-33 Chloroform Values

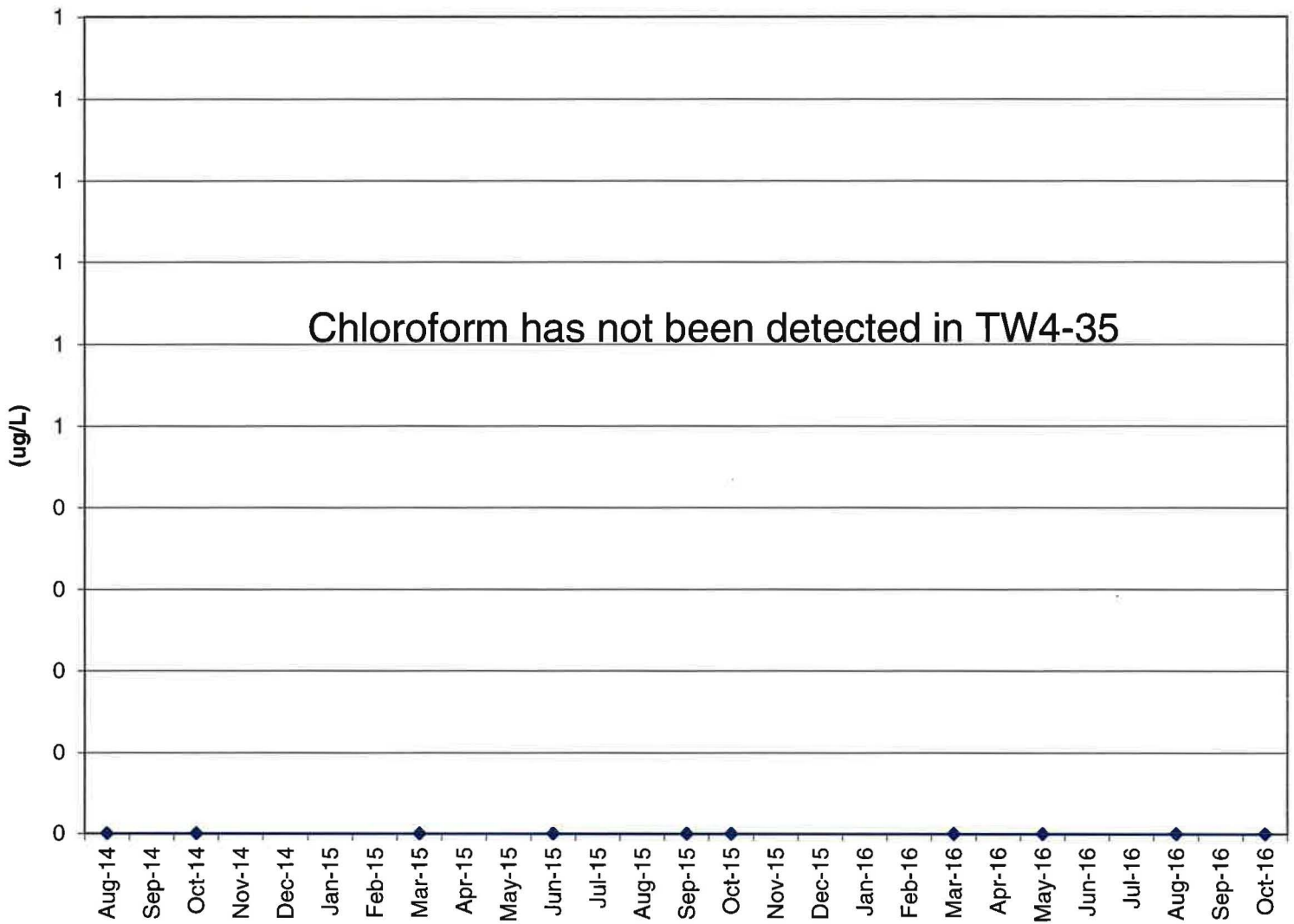


TW4-34	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
14-Nov-13	ND	ND	ND	ND	1.64	19.2
23-Jan-14	ND	ND	ND	ND	1.94	20.4
21-May-14	ND	ND	ND	ND	1.69	17.9
13-Aug-14	ND	ND	ND	ND	1.1	18
28-Oct-14	ND	ND	ND	ND	1.16	17.5
11-Mar-15	ND	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
20-Oct-16	ND	ND	ND	ND	0.612	19.0

TW4-34 Chloroform Values

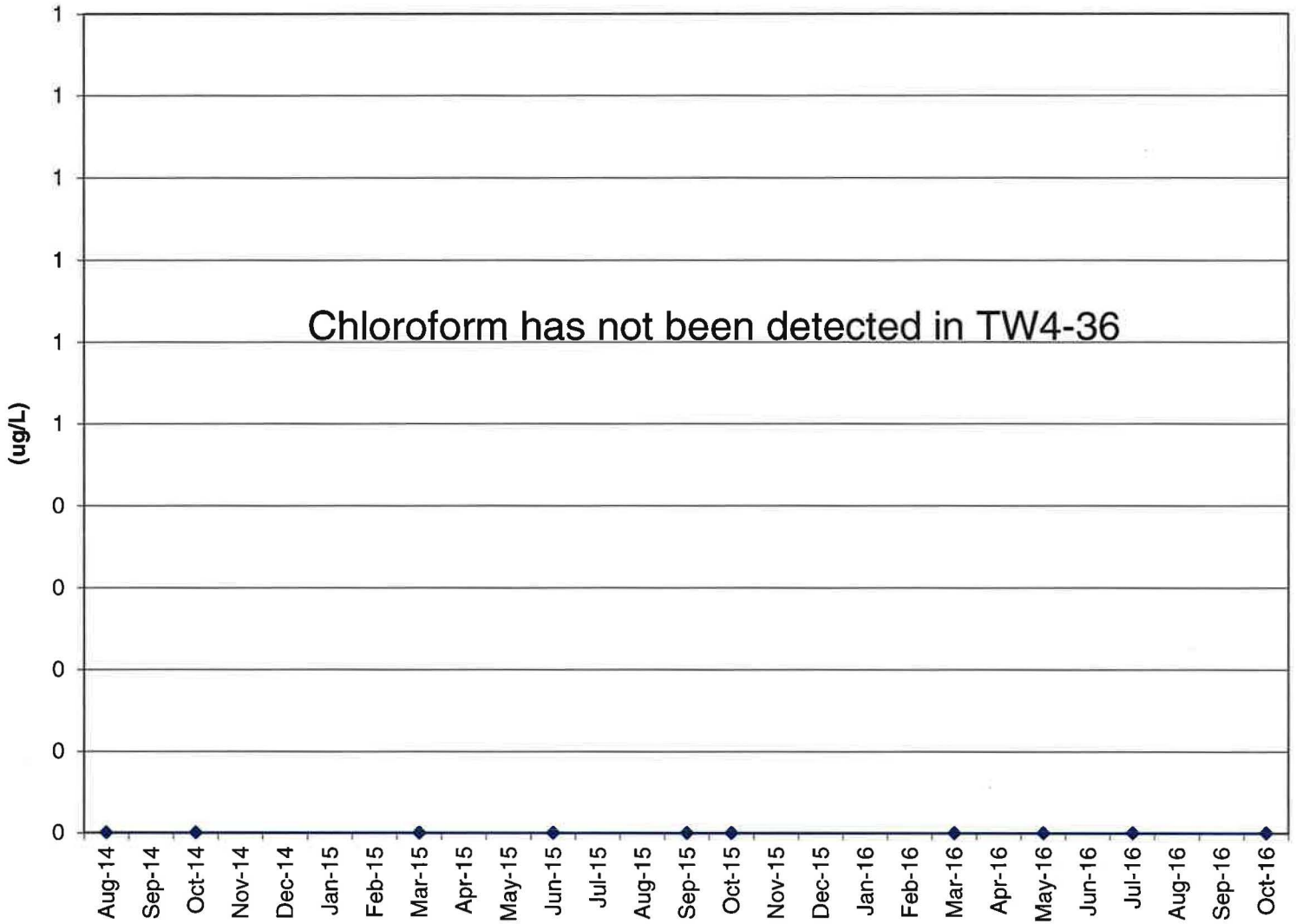


TW4-35	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
27-Aug-14	ND	ND	ND	ND	0.2	34
28-Oct-14	ND	ND	ND	ND	0.351	34.1
11-Mar-15	ND	ND	ND	ND	0.436	34.9
10-Jun-15	ND	ND	ND	ND	0.452	35.2
3-Sep-15	ND	ND	ND	ND	0.304	35.9
28-Oct-15	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
20-Oct-16	ND	ND	ND	ND	0.626	37.1


TW4-35 Chloroform Values
Chloroform has not been detected in TW4-35
(ug/L)
1
1
1
1
1
1
0
0
0
0
0
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
Sep-16
Oct-16

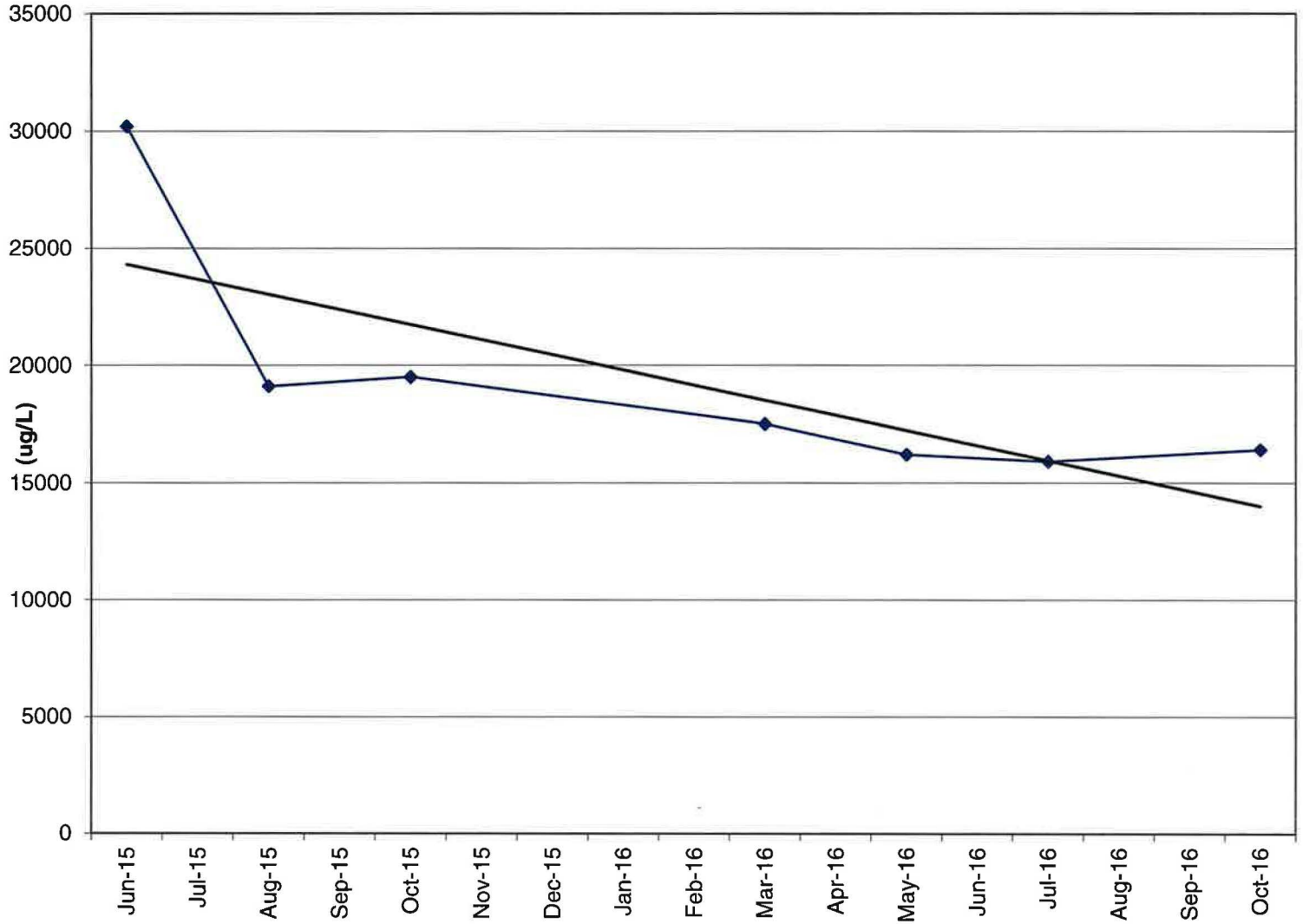
TW4-36	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
27-Aug-14	ND	ND	ND	ND	ND	65
23-Oct-14	ND	ND	ND	ND	ND	67.3
11-Mar-15	ND	ND	ND	ND	ND	67.2
10-Jun-15	ND	ND	ND	ND	ND	69.3
3-Sep-15	ND	ND	ND	ND	ND	76.4
21-Oct-15	ND	ND	ND	ND	ND	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
20-Oct-16	ND	ND	ND	ND	ND	73.8

TW4-36 Chloroform Values



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
12-Oct-16	16400	16	ND	ND	26.1	304

TW4-37 Chloroform Values

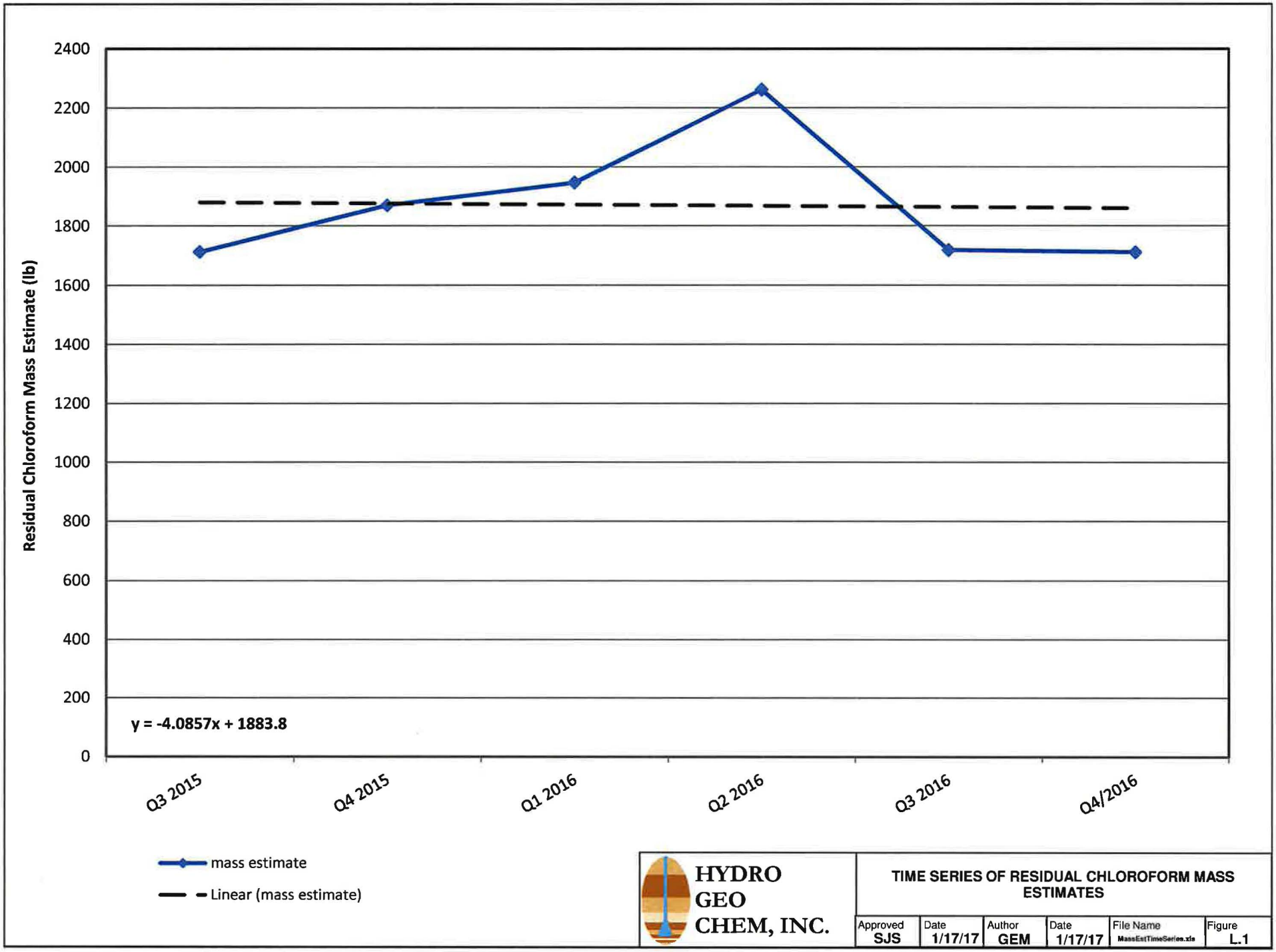


TW4-38	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
10-Nov-16	ND	ND	ND	ND	11.2	40.0

TW4-39	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
10-Nov-16	2800	ND	ND	ND	20.7	68.9

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	1/17/17	GEM	1/17/17	MassEstTimeSeries.xls	L.1

M:\718000\feb17\chloroform\mass_estimate\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
Q4 16	1711

Notes:

lbs = pounds

CHLOROFORM RESIDUAL MASS ESTIMATE DETAILS:

Chloroform Data File: CHL_SurferInput_Q4_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) **Q3, 2015 (previous quarter) data used at wells:** none.

Chloroform residual mass estimate kriged grid files (ascii format):

Ucm4Q16wl.grd: fourth quarter, 2016 Water Level Grid (ft amsl)

Ucm4Q16bb.grd: fourth quarter, 2016 Aquifer Base Grid (ft amsl)

Ucm4Q16sat.grd: fourth quarter, 2016 Saturated Thickness Grid (ft)

Ucm4Q16logchl.grd: fourth quarter, 2016 log of chloroform grid (log of ug/L)

Ucm4Q16chl.grd: fourth quarter, 2016 Chloroform Concentration Grid (ug/L)

Ucm4Q16ge70.grd: fourth quarter, 2016 Chloroform Concentration GE 70 Grid (ug/L)

Ucm4Q16volm3.grd: fourth quarter, 2016 Groundwater Volume Grid (m^3)

Ucm4Q16masslb.grd: fourth quarter, 2016 Chloroform Plume Mass Grid (lb)

Chloroform residual mass estimate kriged grid XYZ files (ascii format):

Ucm4Q16wl.dat: fourth quarter, 2016 Water Level Grid XYZ file (ft amsl)

Ucm4Q16bb.dat: fourth quarter, 2016 top of Aquifer Base Grid XYZ file (ft amsl)

Ucm4Q16sat.dat: fourth quarter, 2016 Saturated Thickness Grid XYZ file (ft)

Ucm4Q16logchl.dat: fourth quarter, 2016 log of chloroform grid XYZ file (log of ug/L)

Tab M

CSV Transmittal Letter

Kathy Weinel

From: Kathy Weinel
Sent: Wednesday, February 22, 2017 9:29 AM
To: 'Phillip Goble'
Cc: 'Dean Henderson'; Mark Chalmers; David Frydenlund; David Turk; Scott Bakken; Logan Shumway
Subject: Transmittal of CSV Files White Mesa Mill 2016 Q4 Chloroform Monitoring
Attachments: 1610270-report-EDD.csv; 1610431-report-EDD.csv; 1610561-report-EDD.csv; 1611111-report-EDD.csv; 1611262-report-EDD.csv; Q4 2016 Chloroform DTWs.csv; Q4 2016 Chloroform Field Data.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 fourth 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

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