Div of Waste Management
and Radiation Control

MAY 19 2017

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DRC-2017-003685

May 17, 2017

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 1st Quarter 2017 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 1st Quarter of 2017 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

1st Quarter
(January through March)
2017

Prepared by:

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

May 17, 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 first quarter of 2017 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.

Three 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, and TW4-38 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, TW4-37, and TW4-39 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 TW4-9, TW4-16, MW-32, TW4-18, TW4-23, TW4-28, TW4-32, and TW4-38 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 sample was not one order of magnitude below the sample because the sample was nondetect. TW4-03R had a reported detection of chloroform at 1.67 ug/L. The rinsate sample was collected from the non-dedicated purging pump, on March 13, 2017, after pump decontamination. The rinsate with the detection was collected on the first day of sampling activities using the non-dedicated pump. Prior to decontamination, the pump was last used over a month before. Any VOC contamination would not persist after a month and VOC contamination would not be present after the decontamination procedures, which includes pumping 150 gallons of water through the pump. Another rinsate (TW4-30R) was collected the following day on March 14, 2017. TW4-30R reported no detections. This indicates that the DI system was not the cause of the chloroform contamination in TW4-03R. If the DI system were experiencing break through, the chloroform detections

would be consistent and continuous. Based on these findings, the detection of chloroform in TW4-03R is the result of laboratory contamination and is not indicative of cross contamination due to field activities. No corrective action by Mill staff is required due to this detection. The QAM will review future date to determine if there is a systematic issue with the laboratory. Any systematic issue will be forwarded to the laboratory for investigation and correction.

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 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 is still evident and 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 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 previous quarter (fourth quarter, 2016). 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 typically evident in the vicinity of all chloroform pumping wells except TW4-4 and TW4-37, which began pumping in the first quarter of 2010 and the second quarter of 2015, respectively. A well defined capture zone was also not evident at TW4-39 until the current quarter due to its recent start-up (fourth quarter of 2016). However, a large decrease in water level at TW4-37 this quarter created an apparently large increase in capture at this well that obscured the apparent capture at some nearby wells (including chloroform pumping wells TW4-19 and TW4-20).

The lack of well-defined capture associated with chloroform pumping well TW4-4 has been consistent, even though pumping since the first quarter of 2010 has depressed the water table in the vicinity of this well. 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.

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, TW4-26, 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 a general, long-term increase in water levels that occurred in this area that is 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, between the start of pumping at TW4-4 (first quarter of 2010) and the fourth quarter of 2013, the rate of increase in water levels at TW4-6 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 generally downward. This downward trend is attributable to both the cessation of water delivery to the northern wildlife ponds and pumping. Generally increasing water levels, except for an apparent stabilization during 2016, are now confined to some of the wells marginal to the chloroform plume such as TW4-14, TW4-27, TW4-30, and TW4-31.

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 continuing 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 5534.0 feet above mean sea level ["ft amsl"]), is approximately 1.5 feet lower than the water level at TW4-6 (approximately 5535.5 ft amsl) and approximately 5.5 feet lower than the water level at TW4-4 (approximately 5539.5 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 5528.9 ft amsl) is approximately 5 feet lower than the water level at TW4-14 (5534.0 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 more 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 (5535.5 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 more 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 6.5 µg/L and 4.3 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 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 13.6 µg/L at TW4-30 (located east and downgradient of TW4-29), and was not detected at wells TW4-31 (located east of TW4-27), TW4-34 (located south and cross-gradient of TW4-29), nor TW4-35 (located southeast and generally cross- to downgradient of TW4-29).

Data from wells within and adjacent to the southern portion of the chloroform plume 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 generally cross- to upgradient of TW4-29; and TW4-27, TW4-34 and TW4-35 are generally 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 the 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 fourth quarter of 2016, as submitted with the Chloroform Monitoring Report for the fourth quarter of 2016, is attached under Tab E. A comparison of the water table contour maps for the current quarter (first quarter of 2017) to the water table contour maps for the previous quarter (fourth quarter of 2016) indicates the following: water level changes at the majority of site wells were small (< 1foot); water level contours have not changed significantly except for a few locations (most notably chloroform pumping well TW4-37); and, except for the large increases in drawdown and apparent capture at TW4-37, overall drawdown patterns associated with pumping wells are similar.

Drawdown patterns and overall capture associated with pumping of the original chloroform pumping wells MW-4, MW-26, and TW4-19 have changed as additional groups of wells have been added to the pumping network. A large expansion in capture occurred within a year of the initiation of pumping at nitrate pumping wells TW4-22, TW4-24, TW4-25, and TWN-2 in the first quarter of 2013. Another large expansion occurred once chloroform pumping wells TW4-1, TW4-2, TW4-11, TW4-21 and TW4-37 became operational in 2015, although a significant cone of depression associated with TW4-37 was not evident until the current quarter.

Drawdowns at chloroform pumping wells TW4-1, TW4-2 and TW4-37, and nitrate pumping well TWN-2, increased by more than 2 feet this quarter, with the drawdown at TW4-37 increasing by more than 44 feet. Drawdowns at chloroform pumping wells TW4-11 and TW4-21, and nitrate pumping wells TW4-22 and TW4-25, decreased 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 above the depth of the Brushy Basin contact this quarter. Although both increases and decreases in drawdown occurred in pumping wells, the overall apparent capture of the combined pumping system is larger than last quarter due to the relatively large increase in drawdown at TW4-37. Except for the apparent increase in capture downgradient (south-southwest) of TW4-37, overall pumping capture is similar to last quarter.

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 0.8 feet at Piezometers 1, 3A, 4, and 5 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 up to 0.26 feet at piezometers 4 and 5 may also result from reduced recharge at the southern wildlife pond. Reported water level increases of approximately 0.45 feet at Piezometer 2, and of approximately 0.2 and 0.9 feet at TWN-1 and TWN-4, respectively, may indicate a slowing in the decay of the groundwater mound.

The reported water level at MW-20 increased by approximately 3.8 feet, compensating for a drop of similar magnitude last quarter. Water level variability at MW-20 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 the third quarter of 2016.

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 and TW4-19 since 2003; TW4-20 since 2005; TW4-4 since 2010; TW4-1, TW4-2, TW4-11, TW4-21 and TW4-37 since 2015, and TW4-39 since the fourth quarter of 2016. 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. The cone of depression at TW4-21 (operational since the second quarter of 2015) that has been evident since the fourth quarter of 2015 has been obscured by the large increase in drawdown at TW4-37 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, TW4-21 and TW4-39 increased by approximately 1.4, 0.3, 7.9, 4.1, and 1.2 feet, respectively, while the water levels in chloroform pumping wells MW-26, TW4-1, TW4-2, TW4-19, TW4-20 and TW4-37 decreased by approximately 1.4, 5.2, 3.8, 0.54, 0.66, and 44 feet, respectively. The water levels in nitrate pumping wells TW4-22, TW4-24 and TW4-25 increased by approximately 2.9, 1.9, and 6.7 feet, respectively, while the water levels in nitrate pumping well TWN-2 decreased by approximately 3.9 feet. Overall, the apparent capture of the combined pumping systems has increased compared to last quarter, primarily due to the relatively large increase in drawdown at TW4-37.

The capture associated with nitrate pumping wells and chloroform pumping wells added in 2015 and 2016 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 5.1 gpm. This calculation is based on the total volume pumped by these wells over the 90 day quarter (667,738 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 1.7 gpm or 50%, 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 359 µg/L this quarter) is likely related to reduced dilution. Although the chloroform concentration in TW4-6 decreased from 301 µg/L to 288 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, and since initiation of pumping at TW4-39 in the second half of 2016. 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 19 µg/L this quarter.

Chloroform exceeding 70 µg/L was detected in the second quarter of 2013 at TW4-29, installed during the first quarter of 2013 and 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 TW4-33, installed during the third quarter of 2013 and 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 to decreasing 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 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: TW4-5, TW4-9, TW4-21, TW4-22, TW4-26, TW4-30 and TW4-39;

b) Chloroform concentrations decreased by more than 20% in the following wells compared to last quarter: MW-26, TW4-1, TW4-8, TW4-16 and TW4-19;

c) Chloroform concentrations have remained within 20% in the following wells compared to last quarter: MW-4, TW4-2, TW4-4, TW4-6, TW4-7, TW4-10, TW4-11, TW4-14, TW4-18, TW4-20, TW4-24, TW4-27, 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, TW4-28, TW4-31, TW4-32, TW4-34, TW4-35, TW4-36 and TW4-38; and

e) The chloroform concentration in TW4-25 increased from non-detect to approximately 1.2 µg/L.

As indicated, chloroform concentrations at many of the wells with detected chloroform were within 20% of the values reported for the wells during the previous quarter, suggesting that variations are within the range typical for sampling and analytical error. Wells MW-26, TW4-1, TW4-5, TW4-8, TW4-9, TW4-16, TW4-19, TW4-21, TW4-22, TW4-26, TW4-30 and TW4-39 had changes in concentration greater than 20%. Of these, MW-26, TW4-1, TW4-19,TW4-21 and TW4-39 are chloroform pumping wells; TW4-22 is a nitrate pumping well. TW4-5 and TW4-9 are located adjacent to chloroform pumping well TW4-39; TW4-8 is located adjacent to chloroform pumping well MW-4; and TW4-16 is located adjacent to chloroform pumping wells TW4-11 and MW-26. Fluctuations in concentrations at both chloroform and nitrate pumping wells and wells adjacent to pumping wells likely result in part from changes in pumping.

TW4-26 is located immediately southwest of the plume boundary and TW4-30 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 TW4-20, TW4-37 and TW4-39, and nitrate pumping well TW4-22, had the highest detected chloroform concentrations of 23,400, 18,000, 6,460, and 5,320 µg/L, respectively. Since last quarter, the chloroform concentration in TW4-20 increased from 21,300 µg/L to 23,400 µg/L; TW4-37 increased from 16,400 µg/L to 18,000 µg/L; TW4-39 increased from 2,800 to 6,460 µg/L; the concentration in nearby pumping well TW4-19 decreased from 6,640 to 1,240 µg/L; and the concentration in nearby pumping well TW4-21 increased from 434 to 598 µg/L. The chloroform concentration in nitrate pumping well TW4-22 increased from 3,370 µg/L to 5,320 µg/L. The chloroform concentration in nitrate pumping well TW4-24 decreased from 20.8 to 18.3 µg/L and remains just outside the chloroform plume. Nitrate pumping well TW4-25 increased from non-detect to approximately 1.2 µg/L. 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 472 µg/L to 359 µg/L. TW4-8 is located immediately east of chloroform pumping well MW-4, where chloroform was detected at a concentration of 1,450 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 (6.5 µg/L).

Chloroform at TW4-29 (located at the southern tip of the plume, to the east of TW4-26 and to the south of TW4-27) increased from 392 µg/L to 446 µg/L, and chloroform at TW4-30, located immediately downgradient of TW4-29, increased from approximately 8.7 µg/L to approximately 13.6 µg/L. Chloroform at TW4-14 decreased from approximately 7 µg/L to approximately 6.5 µg/L and chloroform at TW4-27 increased from approximately 3.8 µg/L to approximately 4.3 µg/L. These changes in concentration are consistent with ongoing, but slow, downgradient migration of chloroform at these locations. A general stabilization of both concentrations and water levels at TW4-14, TW4-27, and TW4-30 over the previous two quarters suggested that

chloroform migration in this area may have slowed. Evaluation of this condition will improve as more quarterly data are collected. Chloroform at TW4-29 is bounded to the north by TW4-27 (4.3 µg/L), to the east by TW4-30 (13.6 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 (46.1 µg/L). Increases in concentration at TW4-26 since the third quarter of 2016 are also consistent with continuing, but slow, downgradient chloroform migration.

Chloroform at TW4-33 (located between TW4-4 and TW4-29) showed a decrease in concentration, from approximately 109 µg/L to 91 µg/L. Chloroform at TW4-33 is bounded to the north by TW4-14 (6.5 µg/), to the east by TW4-27 (4.3 µg/L), to the west by TW4-23 (non-detect), and to the south and west by TW4-26 (46.1 µg/L). This chloroform distribution indicates that the plume southeast of TW4-4 is narrow compared to more upgradient locations.

The chloroform concentration in TW4-6 decreased from 301 µg/L to 288 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 two 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, 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 both 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 a contraction near TW4-16 (outside the plume this quarter); an expansion near TW4-26; and a slight expansion to the north (between TW4-21 and TW4-25) and to the east (near TW4-9). The chloroform concentration at TW4-9 increased from approximately 76 µg/L to 113 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 decrease from approximately 93 µg/L to 19 µg/L) is again outside the plume. Increases at these wells beginning in the second quarter of 2014 are likely related to reduced dilution from cessation of water delivery to the northern wildlife ponds and more westerly flow induced by nitrate pumping. However, continued operation of the nitrate pumping system is expected to enhance the capture zone associated with the chloroform pumping system even though nitrate pumping may redistribute chloroform within the plume and cause changes in the plume boundaries. Furthermore, the addition of chloroform wells TW4-1, TW4-2, TW4-11, TW4-21 and TW4-37 to the chloroform pumping network in the first half of 2015, and of TW4-39 last quarter (fourth quarter of 2016), 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. Specific operational problems observed with the well or pumping equipment which occurred during the quarter are noted for each well below.

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

5.4.1 TW4-11

On January 4, 2017 Mill Field Personnel noted during the routine weekly inspection that the heat lamp on TW4-11 had burned out. The lamp was replaced.

5.4.2 TW4-20

On March 13, 2017, Mill Field Personnel noted during the routine weekly inspection that the TW4-20 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.

5.4.3 TW4-21

On January 4, 2017 Mill Field Personnel noted during the routine weekly inspection that the heat lamp on TW4-21 had burned out. The lamp was replaced.

5.4.4 TW4-25

During the review of the quarterly pump data, it was noted that TW4-25 only pumped 161 gallons. Mill Field Personnel immediately checked the well and noticed that the control module lost memory and the timer settings were erased. Since the well pumps on a timer, minimal water was pumped during the quarter. The loss of the settings was not noticed during the weekly inspections as the well readouts were appropriate and the well was able to be activated manually with no issues. No official notifications to DWMRC were required as the issue was rectified within 24-hours of discovery.

A corrective action is discussed in Section 6.0 below.

5.4.5 TW4-37

On March 13, 2017, Mill Field Personnel noted during the routine weekly inspection that the TW4-37 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.

5.4.6 TW4-39

On January 4, 2017 Mill Field Personnel noted during the routine weekly inspection that the heat lamp on TW4-39 had burned out. The lamp was replaced.

5.4.7 MW-4

On February 21, 2017 Mill Field Personnel noted during the routine weekly inspection that the timer on MW-4 lost memory due to battery failure and the timer settings were erased. The well continued to pump and no loss of data were noted. The batteries were changed and pump settings were restored. No official notifications to DWMRC were required as the issue was rectified within 24-hours.

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 27.2 lb., which is approximately 6% larger than the approximately 25.6 lb. removed last quarter. The slightly larger rate of mass removal is attributable primarily to pumping at TW4-39.

The residual mass of chloroform within the plume is estimated as 1,271 lb. using the methodology described in Appendix A of the GCAP ("Chloroform Plume Mass Calculation Method"). This is approximately 440 lb. less than last quarter's estimate of 1,711 lb. and is attributable to lower average chloroform concentrations within the eastern portion of the plume, the reduced chloroform concentration at TW4-19, and the large decrease in water level at TW4-37, which reduced the computed saturated thickness and volume of high concentration water in the northwest portion of the plume. 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 downward; the current quarter's estimate of 1,271 lb is 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 increase in calculated mass results from increased plume area and increased average concentrations within the plume. The increases in both plume area and average concentrations are attributable to reduced dilution due to the reduction in chloroform-free wildlife pond seepage.

The decreases in the residual mass estimates over the current and two previous quarters suggests stabilization. Although the residual mass estimates have generally increased since the first quarter of 2012, the rate of mass removed per quarter by pumping has also generally increased, in particular since the addition of 5 new pumping wells in the first half of 2015, and since the addition of TW4-39 in the fourth quarter of 2016. 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, 2015, and 2016 ranged from approximately 84% to 93%. The approximate proportion of the mass of the plume under capture this quarter is 98%. The increase over last quarter's estimate of 84% is attributable primarily to the increase in apparent capture near TW4-37.

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

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

6.1 Identification and Definition of the Problem

During the review of the quarterly pump data, it was noted that TW4-25 only pumped 161 gallons. Mill Field Personnel immediately checked the well and noticed that the control module lost memory and the timer settings were erased.

6.2 Assignment of Responsibility for Investigation of the Problem

The issue has been investigated by the QA Manager.

6.3 Investigation and Determination of Cause of the Problem

Since the well pumps on a timer, minimal water was pumped during the quarter. The loss of the settings was not noticed during the weekly inspections as the well readouts were appropriate and the screens all looked to be functioning properly and the well was able to be activated manually with no issues. The cause of the loss of the settings is unknown.

6.4 Determination of a Corrective Action to Eliminate the Problem

Mill Field Personnel have been instructed to review each weeks flow meter readings and check them against the previous week's readings to verify that the pumps are operating.

6.5 Assigning and Accepting Responsibility for Implementing the Corrective Action

It will be the responsibility of the QA manager to review the data to determine if any further corrective action is required.

6.6 Implementing the Corrective Action and Evaluating Effectiveness

The corrective action will be implemented and evaluated after second quarter of 2017.

6.7 Verifying That the Corrective Action Has Eliminated the Problem

The corrective action will be considered complete if there is no repeat of this issue during the second quarter.

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 (1.2 µg/L); to the west and southwest by MW-32 (non-detect), TW4-16 (approximately 19 µg/L), TW4-23 (non-detect), TW4-24 (approximately 18 µg/L), and TW4-26 (approximately 46 µg/L); to the east by TW4-3 (non-detect), TW4-5 (approximately 13 µg/L), TW4-13 (non-detect), TW4-14 (approximately 6.5 µg/L), TW4-18 (approximately 62 µg/L), TW4-27 (4.3 µg/L), TW4-30 (approximately 14 µg/L), TW4-36 (non-detect) and TW4-38 (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 1,271 lb. using the methodology described in Appendix A of the GCAP ("Chloroform Plume Mass Calculation Method"). This is approximately 440 lb. less than last quarter's estimate of 1,711 lb. and is attributable to lower average chloroform concentrations within the eastern portion of the plume, the reduced chloroform concentration at TW4-19, and the large decrease in water level at TW4-37, which reduced the computed saturated thickness and volume of high concentration water in the northwest portion of the plume. The mass of chloroform removed from the plume this quarter is approximately 27.2 lb., which is approximately 6% larger than the approximately 25.6 lb. removed last quarter. The slightly larger rate of mass removal is attributable primarily to pumping at TW4-39.

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-32, TW4-16, 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, 2017 indicate effective capture of water containing high chloroform concentrations in both the northwestern and eastern (vicinity of MW-4) portions of the chloroform plume. 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. The start-up of chloroform pumping wells TW4-21 and TW4-37 during the second quarter of 2015, and of TW4-39 during the previous quarter (fourth quarter of 2016), is also expected to increase capture and chloroform removal rates. Well defined capture zones that are typically evident in the vicinity of chloroform pumping wells MW-26, TW4-19, TW4-20, and TW4-21 are obscured by a large increase in apparent capture at TW4-37 this quarter.

A well-defined capture zone is not clearly evident at chloroform pumping well TW4-4. The capture zone associated with TW4-4 is likely obscured by the low water level at adjacent well TW4-14 and the two orders of magnitude decrease in permeability south of TW4-4. However, 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. Overall, the apparent capture of the combined chloroform and nitrate pumping systems has increased compared to last quarter, primarily due to the relatively large increase in drawdown at TW4-37.

'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 5.1 gpm, which exceeds the calculated background flow by 1.7 gpm or 50%, and is considered adequate at the present time.

Chloroform concentrations at many of the wells with detected chloroform were within 20% of the values reported during the previous quarter, suggesting that variations are within the range typical for sampling and analytical error. Changes in concentration greater than 20% occurred in wells MW-26, TW4-1, TW4-5, TW4-8, TW4-9, TW4-16, TW4-19, TW4-21, TW4-22, TW4-26, TW4-30 and TW4-39. Of these, MW-26, TW4-1, TW4-19, TW4-21 and TW4-39 are chloroform pumping wells; TW4-22 is a nitrate pumping well. TW4-5 and TW4-9 are located adjacent to chloroform pumping well TW4-39; TW4-8 is located adjacent to chloroform pumping well MW-4; and TW4-16 is located adjacent to chloroform pumping wells TW4-11 and MW-26. Fluctuations in concentrations at both chloroform and nitrate pumping wells and wells adjacent to pumping wells likely result in part from changes in pumping. In addition, changes in concentrations at chloroform wells are expected to result from continued operation of nitrate pumping wells as the capture associated with nitrate pumping expands and flow directions change locally.

TW4-26 is located immediately southwest of the plume boundary and TW4-30 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 TW4-20, TW4-37 and TW4-39, and nitrate pumping well TW4-22, had the highest detected chloroform concentrations of 23,400, 18,000, 6,460, and 5,320 µg/L, respectively. Since last quarter, the chloroform concentration in TW4-20 increased from 21,300 µg/L to 23,400 µg/L; TW4-37 increased from 16,400 µg/L to 18,000 µg/L; TW4-39 increased from 2,800 to 6,460 µg/L; the concentration in nearby pumping well TW4-19 decreased from 6,640 to 1,240; and the concentration in nearby pumping well TW4-21 increased from 434 to 598 µg/L. The chloroform concentration in nitrate pumping well TW4-22 increased from 3,370 µg/L to 5,320 µg/L. The chloroform concentration in nitrate pumping well TW4-24 decreased from 20.8 to 18.3 µg/L and remains just outside the chloroform plume. Nitrate pumping well TW4-25 increased from non-detect to approximately 1.2 µg/L. 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 472 µg/L to 359 µg/L. TW4-8 is located immediately east of chloroform pumping well MW-4, where chloroform was detected at a concentration of 1,450 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 (6.5 µg/L).

Detectable chloroform concentrations at TW4-14 (since the fourth quarter of 2014) and TW4-27 (since the third quarter of 2015) are consistent with continued, but slow, downgradient migration of chloroform from the distal end of the plume (defined by TW4-29 and TW4-33) into the low permeability materials penetrated by TW4-14 and TW4-27. Chloroform at TW4-14 decreased from approximately 7 µg/L to approximately 6.5 µg/L and chloroform at TW4-27 increased from approximately 3.8 µg/L to approximately 4.3 µg/L.

Chloroform at TW4-29 (located at the southern tip of the plume, to the east of TW4-26 and to the south of TW4-27) increased from 392 µg/L to 446 µg/L, and chloroform at TW4-30, located immediately downgradient of TW4-29, increased from approximately 8.7 µg/L to approximately 13.6 µg/L. These changes in concentration, and increases in concentration at TW4-26 since the third quarter of 2016, are also consistent with ongoing, but slow, downgradient migration of chloroform at these locations. A general stabilization of both concentrations and water levels at TW4-14, TW4-27, and TW4-30 over the previous two quarters suggested that chloroform migration in this area may have slowed. Evaluation of this condition will improve as more quarterly data are collected. Chloroform at TW4-29 is bounded to the north by TW4-27 (4.3 µg/L), to the east by TW4-30 (13.6 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 (46.1 µg/L).

Chloroform at TW4-33 (located between TW4-4 and TW4-29) showed a decrease in concentration, from approximately 109 µg/L to 91 µg/L. Chloroform at TW4-33 is bounded to the north by TW4-14 (6.5 µg/), to the east by TW4-27 (4.3 µg/L), to the west by TW4-23 (non-detect), and to the south and west by TW4-26 (46.1 µg/L). This chloroform distribution indicates that the plume southeast of TW4-4 is 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 a contraction near TW4-16 (outside the plume this quarter); an expansion near TW4-26; and a slight expansion to the north (between TW4-21 and TW4-25) and to the east (near TW4-9). The chloroform concentration at TW4-9 increased from approximately 76 µg/L to 113 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 decrease from approximately 93 µg/L to 19 µg/L) is again outside the plume. Increases at these wells beginning in the second quarter of 2014 are likely related to reduced dilution from cessation of water delivery to the northern wildlife ponds and more westerly flow induced by nitrate pumping. However, continued operation of the nitrate pumping system is expected to enhance the capture zone associated with the chloroform pumping system even though nitrate pumping may redistribute chloroform within the plume and cause changes in the plume boundaries. Furthermore, the addition of chloroform wells TW4-1, TW4-2, TW4-11, TW4-21 and TW4-37 to the chloroform pumping network in the first half of 2015, and of TW4-39 last quarter (fourth quarter of 2016), 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 to decreasing, 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 May 17, 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	3/8/2017	3/24/2017
TW4-01	3/8/2017	3/24/2017
TW4-02	3/8/2017	3/24/2017
TW4-03	3/14/2017	3/30/2017
TW4-03R	3/13/2017	3/30/2017
TW4-04	3/8/2017	3/24/2017
TW4-05	3/15/2017	3/30/2017
TW4-06	3/16/2017	3/30/2017
TW4-07	3/21/2017	3/30/2017
TW4-08	3/21/2017	3/30/2017
TW4-08R	3/20/2017	3/30/2017
TW4-09	3/16/2017	3/30/2017
TW4-10	3/21/2017	3/30/2017
TW4-11	3/8/2017	3/24/2017
TW4-12	3/14/2017	3/30/2017
TW4-13	3/15/2017	3/30/2017
TW4-14	3/15/2017	3/30/2017
MW-26	3/8/2017	3/24/2017
TW4-16	3/16/2017	3/30/2017
MW-32	3/21/2017	3/30/2017
TW4-18	3/16/2017	3/30/2017
TW4-19	3/8/2017	3/24/2017
TW4-20	3/8/2017	3/24/2017
TW4-21	3/8/2017	3/24/2017
TW4-22	3/8/2017	3/24/2017
TW4-23	3/15/2017	3/30/2017
TW4-24	3/8/2017	3/24/2017
TW4-25	3/8/2017	3/24/2017
TW4-26	3/16/2017	3/30/2017
TW4-27	3/15/2017	3/30/2017
TW4-28	3/14/2017	3/30/2017
TW4-29	3/16/2017	3/30/2017
TW4-30	3/15/2017	3/30/2017
TW4-30R	3/14/2017	3/30/2017
TW4-31	3/15/2017	3/30/2017
TW4-32	3/14/2017	3/30/2017
TW4-33	3/16/2017	3/30/2017
TW4-34	3/15/2017	3/30/2017
TW4-35	3/15/2017	3/30/2017
TW4-36	3/15/2017	3/30/2017
TW4-37	3/8/2017	3/24/2017
TW4-38	3/15/2017	3/30/2017
TW4-39	3/8/2017	3/24/2017
TW4-60	3/8/2017	3/24/2017
TW4-65	3/14/2017	3/30/2017
TW4-70	3/14/2017	3/30/2017
TW4-75	3/16/2017	3/30/2017

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

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

TW4-60 is a DI Field Blank, TW4-65 is a duplicate of TW4-28, and TW4-70 is a duplicate of TW4-23 and TW4-75 is a duplicate of TW4-18.

Highlighted wells are continuously pumped.

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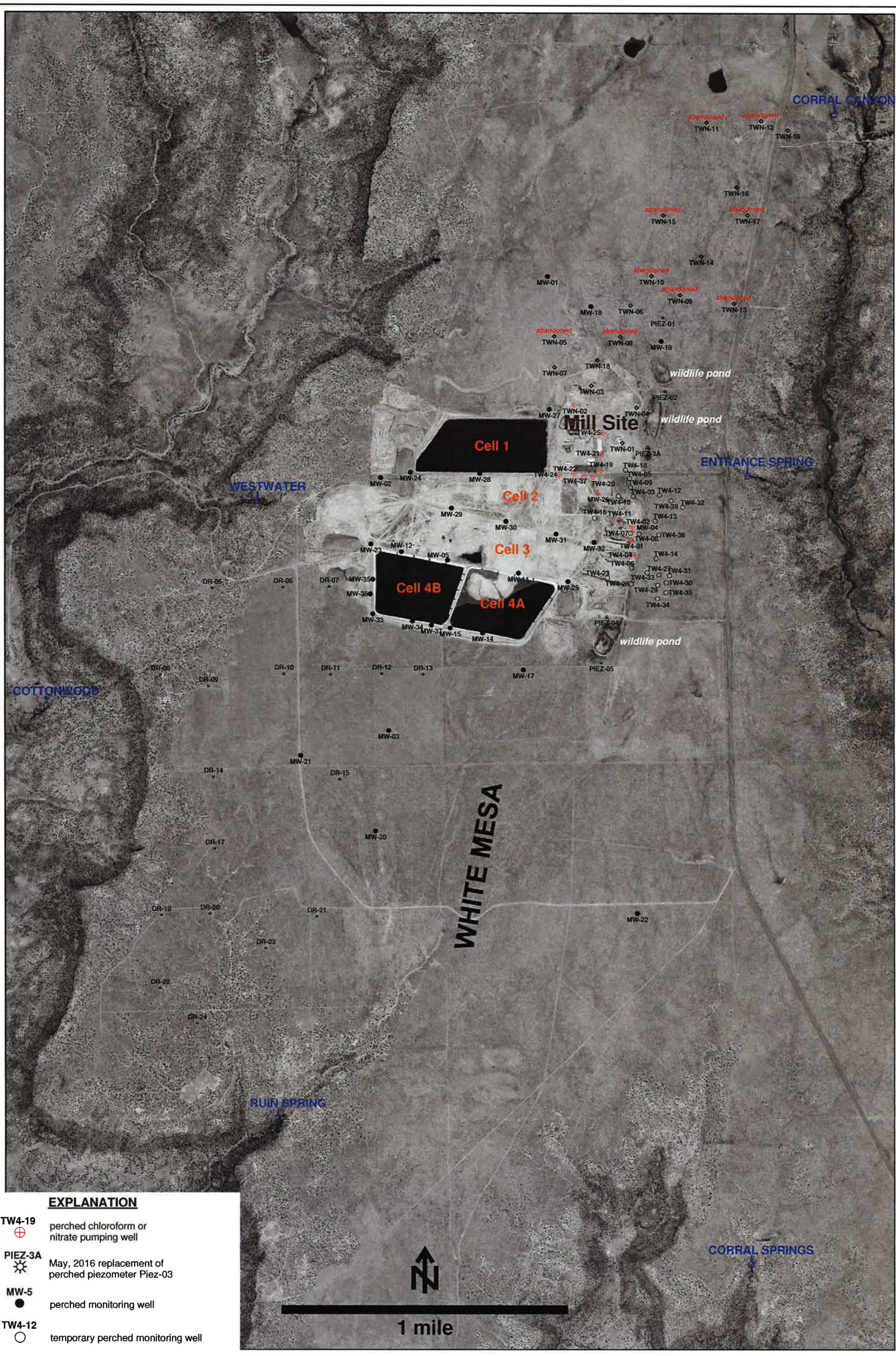
Tab A

Site Plan and Perched Well Locations White Mesa Site



EXPLANATION

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

HYDRO GEO CHEM, INC.

WHITE MESA SITE PLAN SHOWING LOCATIONS OF PERCHED WELLS AND PIEZOMETERS

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

Tab B

Order of Sampling and Field Data Worksheets

Order of Contamination for 1st Quarter 2017 Chloroform Purging Event

Well	Sample time	Chloroform Levels	Rinsate date/time	Water level	Well Depth	
TW4-03	3/14/17 0730	ND			141	TW4-03R_03132017 1128
TW4-12	3/14/17 0738	ND			101.5	
TW4-28	3/14/17 0743	ND			107	
TW4-32	3/14/17 0751	ND			115.1	
TW4-13	3/15/17 0805	ND			102.5	
TW4-36	3/15/17 0811	ND			99	
TW4-31	3/15/17 0817	ND			106	
TW4-34	3/15/17 0823	ND			97.2	
TW4-35	3/15/17 0840	ND			87.5	
TW4-23	3/15/17 0846	ND			114	
MW-32	3/21/17 1300	ND			132.5	Bladder pump
TW4-25	3/8/2017 1202	ND			134.8	Cont. Pumping
TW4-38	3/15/17 [illegible]	ND	0855		112.75	
TW4-27	3/15/17 0903	3.8			96	
TW4-14	3/15/17 0908	7.02			93	
TW4-30	3/15/17 0915	8.69			92.5	TW4-30R_03142017 1335
TW4-05	3/15/17 0923	9.9			120	
TW4-26	3/16/17 0745	19.9			86	
TW4-24	3/8/2017 1212	20.8			112.5	Cont. Pumping
TW4-18	3/16/17 0757	60.1			137.5	
TW4-09	3/16/17 0808	76			120	
TW4-16	3/16/17 0815	92.9			142	
TW4-33	3/16/17 0824	109			87.9	
TW4-06	3/16/17 0832	301			97.5	
TW4-29	3/16/17 0839	392			93.5	
TW4-21	3/8/2017 1152	434			121	
TW4-08	3/21/17 0943	472			125	TW4-08R_03202017 1013
TW4-07	3/21/17 0950	886			120	
TW4-10	3/21/17 0955	1290			111	
TW4-01	3/8/2017 1328	1330			110	
TW4-04	3/8/2017 1338	1430			112	Cont. Pumping
MW-04	3/8/2017 1321	1470			124	Cont. Pumping
TW4-02	3/8/2017 1315	1600			120	
MW-26	3/8/2017 1257	2510			122.5	Cont. Pumping
TW4-39	3/8/2017 1249	2800			120	
TW4-11	3/8/2017 1305	3180			100	
TW4-22	3/8/2017 1222	3370			113.5	Cont. Pumping
TW4-19	3/8/2017 1410	6640			125	Cont. Pumping
TW4-37	3/8/2017 1230	16400			112	Cont. Pumping
TW4-20	3/8/2017 1238	21300			106	Cont. Pumping

TW4-60 23 D.I. Blank 3/8/17 0930
TW4-65 28 Duplicate 3/14/17 0743
TW4-70 23 Duplicate 3/15/17 0846
TW4-75 18 Duplicate 3/16/17 0757

Comments:

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

See instruction

Description of Sampling Event: 1ST Quarter Chloroform 2017

Location (well name): MW-04

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: MW-04_03082017

Date and Time for Purging: 3/8/2017 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: 79.15

Casing Volume (V) 4" Well: 0 (.653h)
3" Well: 0 16.45 (.367h)
16.45

Weather Cond.: Sunny

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

Time	1320	Gal. Purged	0
Conductance	1829	pH	6.57
Temp. °C	14.96		
Redox Potential Eh (mV)	308		
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 = 7.48

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

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

Name of Certified Analytical Laboratory if Other Than Energy Labs: 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: 82.76 Sample Time: 1321

See instruction

Comment

Arrived on site at 1318 Tanner and Garrin present to collect samples
Samples collect at 1321 water was clear
Left site at 1323

MW-04 03-08-2017 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 1ST Quarter Chloroform 2017

Location (well name): TW4-01

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-01_03082017

Date and Time for Purging: 3/8/2017 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: 99.00

Casing Volume (V) 4" Well: 7.18 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Sunny

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

Time	1327	Gal. Purged	0
Conductance	2862	pH	6.64
Temp. °C	14.75		
Redox Potential Eh (mV)	304		
Turbidity (NTU)	0		

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

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

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

Volume of Water Purged: 0 gallon(s)

Pumping Rate Calculation

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

Time to evacuate two casing volumes (2V)
T = 2V/Q = 0.89

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: 109.89 Sample Time: 1328

See instruction

Comment

Arrived on site at 1325 Tanner and Garrin present to collect samples

Samples collected at 1328 Water was clear.

Left site at 1333

TW4-01 03-08-2017 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 1ST Quarter Chloroform 2017

Location (well name): TW4-02

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-02_03082017

Date and Time for Purging: 3/8/2017 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: 94.10

Casing Volume (V) 4" Well: 16.91 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Sunny

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

Time	1314	Gal. Purged	0
Conductance	1c 3386 3386	pH	6.36
Temp. °C	14.45		
Redox Potential Eh (mV)	309		
Turbidity (NTU)	0		

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

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

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

Volume of Water Purged: 0 gallon(s)

Pumping Rate Calculation

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

Time to evacuate two casing volumes (2V)
T = 2V/Q = 2.11

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: 114.25 Sample Time: 1315

See instruction

Comment

Arrived on site at 1311 Tanner and Garrin present to collect samples
Samples collected at 1315 Water was Clear
Left site at 1317

TW4-02 03-08-2017 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 1ST Quarter Chloroform 2017

Location (well name): TW4-03

Sampler Name and initials: Tanner Holliday /TH

Field Sample ID: TW4-03_03142017

Date and Time for Purging: 3/13/2017 and Sampling (if different): 3/14/2017

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: 58.36

Casing Volume (V) 4" Well: 53.96 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Sunny

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

Time	1155	Gal. Purged	80		
Conductance	1716	pH	6.43		
Temp. °C	14.73				
Redox Potential Eh (mV)	460				
Turbidity (NTU)	0				

Time	1156	Gal. Purged	90		
Conductance	1718	pH	6.42		
Temp. °C	14.72				
Redox Potential Eh (mV)	460				
Turbidity (NTU)	0				

Time	1157	Gal. Purged	100		
Conductance	1722	pH	6.42		
Temp. °C	14.75				
Redox Potential Eh (mV)	460				
Turbidity (NTU)	0				

Time	1158	Gal. Purged	110		
Conductance	1721	pH	6.44		
Temp. °C	14.76				
Redox Potential Eh (mV)	459				
Turbidity (NTU)	0				

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 = 10.79

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: 131.42 Sample Time: 0730

See instruction

Comment

Arrived on site at 1144 Tanner and Garrin present for purge. Purge began at 1147 Purged well for a total of 11 minutes, Purge ended at 1158. Water was clear. Left site at 1202
Arrived on site at 0727 Tanner and Garrin present to collect samples. Depth to water was 58.75 samples bailed at 0730 Left site at 0732

TW4-03 03-13-2017 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 1ST Quarter Chloroform 2017

Location (well name): TW4-03R

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-03R_03132017

Date and Time for Purging: 3/13/2017 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.: Sunny

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

Time	1127	Gal. Purged	120
Conductance	4.9	pH	7.73
Temp. °C	14.67		
Redox Potential Eh (mV)	410		
Turbidity (NTU)	0.9		

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: 150 gallon(s)

Pumping Rate Calculation

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

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

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

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

Name of Certified Analytical Laboratory if Other Than Energy Labs: 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: 1128

See instruction

Comment

Arrived on site at 1110 Tanner and Garrin present for rinsate
Rinsate began at 1115 Pumped 50 Gallons of soap water and
100 Gallons of DI water through the pump. samples collected at 1128
Left site at 1131

TW4-03R 03-13-2017 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 1st Quarter Chloroform 2017

Location (well name): TW4-04

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-04_03082017

Date and Time for Purging: 3/8/2017 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: 73.20

Casing Volume (V) 4" Well: 25.33 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Sunny

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

Time	1337	Gal. Purged	0
Conductance	2284	pH	6.52
Temp. °C	14.42		
Redox Potential Eh (mV)	302		
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 = 2.98

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: 79.12 Sample Time: 1338

See instruction

Comment

Arrived on site at 1334 Tanner and Garrin present to collect samples
Samples collected at 1338 Water was clear.
Left site at 1340

TW4-04 03-08-2017 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 1ST Quarter Chloroform 2017

Location (well name): TW4-05

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-05_03152017

Date and Time for Purging: 3/14/2017 and Sampling (if different): 3/15/2017

Well Purging Equip Used: ☒ pump or ☐ bailer

Well Pump (if other than Bennet): Grundfos

Purging Method Used: ☒ 2 casings ☐ 3 casings

Sampling Event: Quarterly Chloroform

Prev. Well Sampled in Sampling Event: TW4-30

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 1000 µMHOS/ cm

Well Depth(0.01ft): 120.00

Depth to Water Before Purging: 66.05

Casing Volume (V) 4" Well: 35.22 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Sunny

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

Time	1423	Gal. Purged	60
Conductance	1526	pH	6.18
Temp. °C	15.49		
Redox Potential Eh (mV)	433		
Turbidity (NTU)	1.0		

Time	1424	Gal. Purged	70
Conductance	1517	pH	6.18
Temp. °C	15.47		
Redox Potential Eh (mV)	433		
Turbidity (NTU)	1.0		

Time	1425	Gal. Purged	80
Conductance	1513	pH	6.22
Temp. °C	15.46		
Redox Potential Eh (mV)	432		
Turbidity (NTU)	1.0		

Time	1426	Gal. Purged	90
Conductance	1508	pH	6.25
Temp. °C	15.45		
Redox Potential Eh (mV)	432		
Turbidity (NTU)	1.0		

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 = 7.04

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: 67.80 Sample Time: 0923

See instruction

Comment

Arrived on site at 1415. Tanner and Garrin present for purge. Purge began at 1417 Purged well for a total of 9 minutes. Purge ended at 1426. Water was clear Left site at 1429

Arrived on site at 0921. Tanner and Garrin present to collect samples. Depth to water was 66.15 samples bailed at 0923 Left site at 0925

TW4-05 03-14-2017 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 1st Quarter Chloroform 2017

Location (well name): TW4-06

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-06_03162017

Date and Time for Purging: 3/15/2017 and Sampling (if different): 3/16/2017

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): 97.50

Depth to Water Before Purging: 73.60

Casing Volume (V) 4" Well: 15.60 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Sunny

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

Time	1331	Gal. Purged	30
Conductance	3355	pH	6.08
Temp. °C	15.18		
Redox Potential Eh (mV)	495		
Turbidity (NTU)	115		

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

Time	0832	Gal. Purged	0
Conductance	3848	pH	6.12
Temp. °C	13.84		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Before

Time	0833	Gal. Purged	0
Conductance	3851	pH	6.12
Temp. °C	13.81		
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 = 3.12

Number of casing volumes evacuated (if other than two): 1.92

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

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

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

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

Final Depth: 94.45 Sample Time: 0832

See instruction

Comment

Arrived on site at 1326. Tanner and Garrin present for purge. Purge began at 1328 Purged well for a total of 3 minutes. Purged well dry! Purge ended at 1331 water was murky. Left site at 1333

Arrived on site at 0829 Tanner and Garrin present to collect samples. Depth to water was 74.15 samples bailed at 0832 Left site at 0834

TW4-06 03-15-2017 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 1st Quarter Chloroform 2017

Location (well name): TW4-07

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-07_03212017

Date and Time for Purging: 3/20/2017 and Sampling (if different): 3/21/2017

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: 75.26

Casing Volume (V) 4" Well: 29.21 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Partly Cloudy

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

Time	1306	Gal. Purged	30		
Conductance	1588	pH	6.44		
Temp. °C	15.03				
Redox Potential Eh (mV)	477				
Turbidity (NTU)	3.5				

Time	1307	Gal. Purged	40		
Conductance	1588	pH	6.45		
Temp. °C	14.98				
Redox Potential Eh (mV)	476				
Turbidity (NTU)	3.6				

Time	1308	Gal. Purged	50		
Conductance	1587	pH	6.46		
Temp. °C	14.95				
Redox Potential Eh (mV)	476				
Turbidity (NTU)	3.6				

Time	1309	Gal. Purged	60		
Conductance	1588	pH	6.47		
Temp. °C	14.95				
Redox Potential Eh (mV)	475				
Turbidity (NTU)	3.7				

Volume of Water Purged: 60 gallon(s)

Pumping Rate Calculation

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

Time to evacuate two casing volumes (2V)
T = 2V/Q = 5.84

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: 101.50 Sample Time: 0950

See instruction

Comment

Arrived on site at 1300. Tanner and Garrin present for purge. Purge began at 1303. Purged well for a total of 6 minutes. Purge ended at 1309. water was clear Left site at 1311.
Arrived on site at 0947 Tanner and Garrin present to collect samples. Depth to water was 76.09. samples bailed at 0950 Left site at 0952

TW4-07 03-20-2017 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 1ST ~~Quarterly~~ Quarter Chloroform 2017

Location (well name): TW4-08

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-08_03212017

Date and Time for Purging: 3/20/2017 and Sampling (if different): 3/21/2017

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: 80.15

Casing Volume (V) 4" Well: 29.28 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Sunny

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

Time	1154	Gal. Purged	30
Conductance	5024	pH	6.17
Temp. °C	15.00		
Redox Potential Eh (mV)	538		
Turbidity (NTU)	0		

Time	1155	Gal. Purged	40
Conductance	5022	pH	6.17
Temp. °C	15.01		
Redox Potential Eh (mV)	538		
Turbidity (NTU)	0		

Time	1156	Gal. Purged	50
Conductance	5021	pH	6.17
Temp. °C	15.01		
Redox Potential Eh (mV)	538		
Turbidity (NTU)	0		

Time	1157	Gal. Purged	60
Conductance	5023	pH	6.18
Temp. °C	15.01		
Redox Potential Eh (mV)	537		
Turbidity (NTU)	0		

Volume of Water Purged: 60 gallon(s)

Pumping Rate Calculation

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

Time to evacuate two casing volumes (2V)
T = 2V/Q = 5.85

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: 85.40 Sample Time: 0943

See instruction

Comment

Arrived on site at 1148. Tanner and Garrin present for purge. Purge began at 1151. Purged well for a total of 6 minutes. Purge ended at 1157. water was clear. Left site at 1159

Arrived on site at 0941 Tanner and Garrin present to collect samples. Depth to water was 80.25. Samples bailed at 0943 Left site at 0945

TW4-08 03-20-2017 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 1ST Quarter Chloroform 2017

Location (well name): TW4-08R

Sampler Name and initials: Tanner Holliday / TH

Field Sample ID: TW4-08R_03202017

Date and Time for Purging: 3/20/2017 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: TW4-29

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): 15°

Time	1012	Gal. Purged	120
Conductance	3.5	pH	7.32 7.32
Temp. °C	19.12		
Redox Potential Eh (mV)	474		
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: 1013

See instruction

Comment

Arrived on site at Tanner and Garrin present for rinsate. Rinsate began at 1000. Pumped 50 Gallons of soap water, then 100 Gallons of DI water through pump. Samples collected at 1013. Left site at 1016

TW4-08R 03-20-2017 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 1ST Quarter Chloroform 2017

Location (well name): TW4-09

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-09_03162017

Date and Time for Purging: 3/15/2017 and Sampling (if different): 3/16/2017

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: 64.02

Casing Volume (V) 4" Well: 36.55 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Sunny

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

Time	1155	Gal. Purged	60
Conductance	2492	pH	6.00
Temp. °C	15.00		
Redox Potential Eh (mV)	502		
Turbidity (NTU)	13		

Time	1156	Gal. Purged	70
Conductance	2491	pH	6.00
Temp. °C	15.00		
Redox Potential Eh (mV)	501		
Turbidity (NTU)	14		

Time	1157	Gal. Purged	80
Conductance	2492	pH	6.01
Temp. °C	15.00		
Redox Potential Eh (mV)	501		
Turbidity (NTU)	14		

Time	1158	Gal. Purged	90
Conductance	2492	pH	6.02
Temp. °C	14.99		
Redox Potential Eh (mV)	500		
Turbidity (NTU)	13		

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 = 7.31

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: 75.71 Sample Time: 0808

See instruction

Comment

Arrived on site at 1147 Tanner and Garrin present for purge. Purge began at 1149 Purged well for a total of 9 minutes. Purge ended at 1158. Water was clear Left site at 1202

Arrived on site at 0806 Tanner and Garrin present to collect samples. Depth to water was 63.96 samples bailed at 0808 Left site at 0810

TW4-09 03-15-2017 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 1ST Quarter Chloroform 2017

Location (well name): TW4-10

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-10_03212017

Date and Time for Purging: 3/20/2017 and Sampling (if different): 3/21/2017

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): ~~130.00~~ 111.00 111.00

Depth to Water Before Purging: 63.50

Casing Volume (V) 4" Well: 31.01 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Partly Cloudy

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

Time	1340	Gal. Purged	65
Conductance	3099	pH	5.81
Temp. °C	15.09		
Redox Potential Eh (mV)	422		
Turbidity (NTU)	20		

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

Time	0955	Gal. Purged	0
Conductance	2943	pH	6.01
Temp. °C	15.14		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Before

Time	0956	Gal. Purged	0
Conductance	2964	pH	6.00
Temp. °C	15.11		
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 = 6.20

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

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: 108.89 Sample Time: 0955

See instruction

Comment

Arrived on site at 1331 Tanner and Garrin present for purge. Purge began at 1334 Purged well for a total of 6 minutes 30 seconds. Purged well dry! Purge ended at 1340 water was mostly clear. Left site at 1344

Arrived on site at 0952 Tanner and Garrin present to collect samples, Depth to water was 63.50 Samples bailed at 0955 Left site at 0957

TW4-10 03-20-2017 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 1st Quarter Chloroform 2017

Location (well name): TW4-11

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-11_03082017

Date and Time for Purging: 3/8/2017 and Sampling (if different): N/A

Well Purging Equip Used: ☒ pump or ☐ bailer

Well Pump (if other than Bennet): Continuous

Purging Method Used: ☒ 2 casings ☐ 3 casings

Sampling Event: Quarterly Chloroform

Prev. Well Sampled in Sampling Event: MW-26

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: 92.34

Casing Volume (V) 4" Well: 5.00 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Sunny

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

Time	1304	Gal. Purged	0
Conductance	3684	pH	6.40
Temp. °C	14.04		
Redox Potential Eh (mV)	295		
Turbidity (NTU)	0.5		

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

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

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

Volume of Water Purged: 0 gallon(s)

Pumping Rate Calculation

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

Time to evacuate two casing volumes (2V)
T = 2V/Q = 0.62

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: 99.90 Sample Time: 1305

See instruction

Comment

Arrived on site at 1302 Tanner and Garrin present to collect samples
Samples collected at 1305 Water was clear
Left site at 1309

TW4-11 03-08-2017 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 1ST Quarter Chloroform 2017

Location (well name): TW4-12

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-12_03142017

Date and Time for Purging: 3/13/2017 and Sampling (if different): 3/14/2017

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: 47.22

Casing Volume (V) 4" Well: 35.44 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Sunny

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

Time	1229	Gal. Purged	50		
Conductance	1432	pH	6.52		
Temp. °C	15.03				
Redox Potential Eh (mV)	448				
Turbidity (NTU)	3.5				

Time	1230	Gal. Purged	60		
Conductance	1432	pH	6.52		
Temp. °C	15.02				
Redox Potential Eh (mV)	447				
Turbidity (NTU)	3.6				

Time	1231	Gal. Purged	70		
Conductance	1432	pH	6.52		
Temp. °C	14.99				
Redox Potential Eh (mV)	447				
Turbidity (NTU)	3.6				

Time	1232	Gal. Purged	80		
Conductance	1433	pH	6.52		
Temp. °C	14.96				
Redox Potential Eh (mV)	447				
Turbidity (NTU)	3.7				

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 = 7.08

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: 99.02 Sample Time: 0738

See instruction

Comment

Arrived on site at 1222 Tanner and Garrin present for purge. Purge began at 1224. Purged well for a total of 8 minutes. Purge ended at 1232. water was clear Left site at 1235.
Arrived on site at ~~0738~~ 0735 Tanner and Garrin present to collect samples. Depth to water was 47.39 samples bailed at 0738 Left site at 0740

TW4.12 03-13-2017 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 1ST Quarter Chloroform 2017

Location (well name): TW4-13

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-13_03152017

Date and Time for Purging: 3/14/2017 and Sampling (if different): 3/15/2017

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: 53.12

Casing Volume (V) 4" Well: 32.24 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Clear

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

Time	0826	Gal. Purged	65		
Conductance	2067	pH	6.47		
Temp. °C	14.76				
Redox Potential Eh (mV)	511		511		
Turbidity (NTU)	3.5				

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

Time	0805	Gal. Purged	0		
Conductance	2090	pH	6.20		
Temp. °C	14.52				
Redox Potential Eh (mV)					
Turbidity (NTU)					

Before

Time	0806	Gal. Purged	0		
Conductance	2092	pH	6.25		
Temp. °C	14.50				
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

Time to evacuate two casing volumes (2V)
T = 2V/Q = 6.44

Number of casing volumes evacuated (if other than two): 2.01

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: 99.84 Sample Time: 0805

See instruction

Comment

Arrived on site at 0817 Tanner and Garrin present for purge. Purge began at 0820 Purged well for a total of 6 minutes 30 seconds. Purged well dry. Purge ended at 0826 water was clear. Left site at 0829

Arrived on site at 0802 Tanner and Garrin present to collect samples. Depth to water was 53.25 samples bailed at 0805 Left site at 0807

TW4-13 03-14-2017 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 1ST Quarter Chloroform 2017

Location (well name): TW4-14

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-14_03152017

Date and Time for Purging: ~~3/15/2017~~ 3/14/2017 and Sampling (if different): 3/15/2017

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: 79.10

Casing Volume (V) 4" Well: 9.07 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Sunny

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

Time	1316	Gal. Purged	17.50
Conductance	5340	pH	6.28
Temp. °C	15.46		
Redox Potential Eh (mV)	438		
Turbidity (NTU)	32		

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

Time	0908	Gal. Purged	0
Conductance	5302	pH	6.09
Temp. °C	13.97		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Before

Time	0909	Gal. Purged	0
Conductance	5310	pH	6.12
Temp. °C	13.94		
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 = 1.81

Number of casing volumes evacuated (if other than two): 1.92

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: 7 90.43

Sample Time: 0908

See instruction

Comment

Arrived on site at 1311 Tanner and Garrin present for purge. Purge began at 1314 Purged well for a total of 1 minute 45 seconds. Purged well dry. Purge ended at 1316. water was mostly clear. Left site at 1318

Arrived on site at 0905 Tanner and Garrin present to collect samples. Depth to water was 79.20 samples bailed at 0908 Left site at 0910

TW4-14 03-14-2017 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 1ST Quarter Chloroform 2017

Location (well name): MW-26

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: MW-26_03082017

Date and Time for Purging: 3/8/2017 and Sampling (if different): N/A

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

Well Pump (if other than Bennet): Continuous

Purging Method Used: [N] 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): ~~128~~ 121.33

Depth to Water Before Purging: 68.74

Casing Volume (V) 4" Well: 34.34 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Sunny

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

Time	1256	Gal. Purged	0
Conductance	3439	pH	6.45
Temp. °C	15.78		
Redox Potential Eh (mV)	316		
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 = 11.0

Time to evacuate two casing volumes (2V)
T = 2V/Q = 6.24

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: 74.88 Sample Time: 1257

See instruction

Comment

Arrived on site at 1253 Tanner and Garrin present to collect samples.
Samples collected at 1257 water was clear
Left site at 1259

MW-26 03-08-2017 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 1ST Quarter Chloroform 2017

Location (well name): TW4-16

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-16_03162017

Date and Time for Purging: 3/15/2017 and Sampling (if different): 3/16/2017

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): 142.00

Depth to Water Before Purging: 64.90 Casing Volume (V) 4" Well: 50.34 (.653h) 3" Well: 0 (.367h)

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

Time	Gal. Purged	Conductance	pH	Temp. °C	Redox Potential Eh (mV)	Turbidity (NTU)
1231	90	3883	5.96	14.96	491	59
1232	100	3883	5.96	14.96	490	58
1233	110	3876	5.96	14.94	490	58
1234	120	3872	5.97	14.95	486	57

Volume of Water Purged: 12.0 gallon(s)

Pumping Rate Calculation

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

Time to evacuate two casing volumes (2V)
T = 2V/Q = 10.06

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

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

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

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

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

Final Depth: 90.40 Sample Time: 0815

See instruction

Comment

Arrived on site at 1219 Tanner and Garrin present for purge. Purge began at 1222 Purged well for a total of 12 minutes. Purge ended at 1234. Water was clear Left site at 1237.

Arrived on site at 0813 Tanner and Garrin present to collect samples. Depth to water was 64.92 samples bailed at 0815 Left site at 0817

TW4-16 03-15-2017 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 1ST Quarter Chloroform

Location (well name): MW-32

Sampler Name and initials: Tanner Holliday /TH

Field Sample ID: MW-32_03212017

Date and Time for Purging: 3/21/2017 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: 78.21

Casing Volume (V) 4" Well: 35.45 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Partly Cloudy

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

Time	1257	Gal. Purged	70.95
Conductance	3839	pH	6.05
Temp. °C	15.50		
Redox Potential Eh (mV)	479		
Turbidity (NTU)	19.5		

Time	1258	Gal. Purged	71.17
Conductance	3824	pH	6.05
Temp. °C	15.33		
Redox Potential Eh (mV)	478		
Turbidity (NTU)	18.5		

Time	1259	Gal. Purged	71.39
Conductance	3857	pH	6.05
Temp. °C	15.30		
Redox Potential Eh (mV)	477		
Turbidity (NTU)	18		

Time	1300	Gal. Purged	71.61
Conductance	3822	pH	6.04
Temp. °C	15.25		
Redox Potential Eh (mV)	476		
Turbidity (NTU)	18		

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 = 326.74

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

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

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

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

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

Final Depth: 83.70 Sample Time: 1300

See instruction

Comment

Arrived on site at 0725, Tanner and Garrin present for purge and sampling event
Purge began at 0730. Purged well for a total of 330 minutes.
Purge ended and samples collected at 1300. water was a little murky
Left site at 1303

MW-32 03-21-2017 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 1ST Quarter Chloroform 2017

Location (well name): TW4-18

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-18_03162017

Date and Time for Purging: 3/15/2017 and Sampling (if different): 3/16/2017

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): 137.50

Depth to Water Before Purging: 67.05

Casing Volume (V) 4" Well: 46.00 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Sunny

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

Time	1048	Gal. Purged	80
Conductance	2039	pH	5.94
Temp. °C	15.40		
Redox Potential Eh (mV)	511		
Turbidity (NTU)	6.7		

Time	1049	Gal. Purged	90
Conductance	2024	pH	5.94
Temp. °C	15.41		
Redox Potential Eh (mV)	511		
Turbidity (NTU)	6.8		

Time	1050	Gal. Purged	100
Conductance	2007	pH	5.94
Temp. °C	15.40		
Redox Potential Eh (mV)	511		
Turbidity (NTU)	6.8		

Time	1051	Gal. Purged	110
Conductance	1994	pH	5.95
Temp. °C	15.40		
Redox Potential Eh (mV)	511		
Turbidity (NTU)	6.8		

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 = | 9,20 |

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 | 67,30 | Sample Time | 0757 |

See instruction

Comment

Arrived on site at 1038 Tanner and Garrin present ~~to collect~~ for purge. Purge began at 1040 Purged well for a total of 11 minutes, Purge ended at 1051 water was clear. Left site at 1054.

Arrived on site at 0754 Tanner and Garrin present to collect samples. Depth to water was 66,97 Samples bailed at 0757 Left site at 0800

TW4-18 03-15-2017 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 1st Quarter Chloroform 2017

Location (well name): TW4-19

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-19_03082017

Date and Time for Purging: 3/8/2017 and Sampling (if different): N/A

Well Purging Equip Used: ☒ pump or ☐ bailer

Well Pump (if other than Bennet): Continuous

Purging Method Used: ☒ 2 casings ☐ 3 casings

Sampling Event: Quarterly Chloroform

Prev. Well Sampled in Sampling Event: TW4-04

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 1000 µMHOS/ cm

Well Depth(0.01ft): 125.00

Depth to Water Before Purging: 64.50

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

Weather Cond.: Sunny

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

Time	1409	Gal. Purged	0
Conductance	2871	pH	6.22
Temp. °C	16.49		
Redox Potential Eh (mV)	353		
Turbidity (NTU)	0		

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

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

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

Volume of Water Purged: 0 gallon(s)

Pumping Rate Calculation

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

Time to evacuate two casing volumes (2V)
T = 2V/Q = 4.38

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: 67.69 Sample Time: 1410

See instruction

Comment

Arrived on site at 1406. Tanner and Garrin present to collect samples.
Samples collected at 1410. Water was clear
Left site at 1413

TW4-19 03-08-2017 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 1st Quarter Chloroform 2017

Location (well name): TW4-20

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-20_03082017

Date and Time for Purging: 3/8/2017 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: 65.25

Casing Volume (V) 4" Well: 26.60 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Sunny

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

Time	1237	Gal. Purged	0
Conductance	4408	pH	6.26
Temp. °C	16.80		
Redox Potential Eh (mV)	359		
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 = 6.6

Time to evacuate two casing volumes (2V)
T = 2V/Q = 8.06

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

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

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

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

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

Final Depth: 68.43 Sample Time: 1238

See instruction

Comment

Arrived on site at 1234 Tanner and Garrin present to collect samples.
Samples collected at 1238 ~~te~~ water was clear
Left site at 1243

TW4-20 03-08-2017 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 1ST Quarter Chloroform 2017

Location (well name): TW4-21

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-21_03082017

Date and Time for Purging: 3/8/2017 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: 64.30

Casing Volume (V) 4" Well: 37.02 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Sunny

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

Time	1151	Gal. Purged	0
Conductance	4602	pH	5.95
Temp. °C	16.75		
Redox Potential Eh (mV)	481		
Turbidity (NTU)	0		

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

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

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

Volume of Water Purged: 0 gallon(s)

Pumping Rate Calculation

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

Time to evacuate two casing volumes (2V)
T = 2V/Q = 4.62

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: 76.11 Sample Time: 1152

See instruction

Comment

Arrived on site at 1148 Tanner and Garrin present to collect samples
Samples collected at 1152 Water was clear
Left site at 1156

TW4-21 03-08-2017 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 1ST Quarter Chloroform 2017

Location (well name): TW4-22

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-22_03082017

Date and Time for Purging: 3/8/2017 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: 60.35

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

Weather Cond.: Sunny

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

Time	1221	Gal. Purged	0
Conductance	5416	pH	6.44
Temp. °C	15.81		
Redox Potential Eh (mV)	406		
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 = 4.08

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: 82.66 Sample Time: 1222

See instruction

Comment

Arrived on site at 1218 Tanner and Garrin present to collect samples

Samples collected at 1222 Water was clear

Left site at 1225

TW4-22 03-08-2017 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 1st Quarter Chloroform 2017

Location (well name): TW4-23

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-23_03152017

Date and Time for Purging: 3/14/2017 and Sampling (if different): 3/15/2017

Well Purging Equip Used: ☒ pump or ☐ bailer

Well Pump (if other than Bennet): Grundfos

Purging Method Used: ☒ 2 casings ☐ 3 casings

Sampling Event: Quarterly Chloroform

Prev. Well Sampled in Sampling Event: TW4-35

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 1000 µMHOS/ cm

Well Depth(0.01ft): 114.00

Depth to Water Before Purging: 70.80

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

Weather Cond.: Sunny

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

Time	1143	Gal. Purged	50
Conductance	3660	pH	6.11
Temp. °C	14.45		
Redox Potential Eh (mV)	448		
Turbidity (NTU)	78		

Time	1144	Gal. Purged	60
Conductance	3663	pH	6.11
Temp. °C	14.44		
Redox Potential Eh (mV)	448		
Turbidity (NTU)	77		

Time	1145	Gal. Purged	70
Conductance	3663	pH	6.12
Temp. °C	14.44		
Redox Potential Eh (mV)	446		
Turbidity (NTU)	76		

Time	1146	Gal. Purged	80
Conductance	3665	pH	6.11
Temp. °C	14.43		
Redox Potential Eh (mV)	444		
Turbidity (NTU)	75		

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 = 5.64

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

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

Name of Certified Analytical Laboratory if Other Than Energy Labs: 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: 85.40 Sample Time: 0846

See instruction

Comment

Arrived on site at 1136 Tanner and Garrin present for purge. Purge began at 1138 Purged well for a total of 8 minutes. Purge ended at 1146. Water started with an orange color but slowly cleared. Left site at 1148

Arrived on site at 0844 Tanner and Garrin present to collect samples. Depth to water was 70.85 samples bailed at 0846 Left site at 0848

TW4-23 03-14-2017 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 1ST Quarter Chloroform 2017

Location (well name): TW4-24

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-24_03082017

Date and Time for Purging: 3/8/2017 and Sampling (if different): N/A

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

Well Pump (if other than Bennet): Continuous

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

Sampling Event: Quarterly Chloroform

Prev. Well Sampled in Sampling Event: TW4-25

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 1000 µMHOS/ cm

Well Depth(0.01ft): 112.50

Depth to Water Before Purging: 63.30

Casing Volume (V) 4" Well: 32.12 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Sunny

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

Time	1211	Gal. Purged	0
Conductance	9695	pH	6.16
Temp. °C	15.38		
Redox Potential Eh (mV)	429		
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 = 14.20

Time to evacuate two casing volumes (2V)
T = 2V/Q = 4.52

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

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

Name of Certified Analytical Laboratory if Other Than Energy Labs: 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: 69.48 Sample Time: 1212

See instruction

Comment

Arrived on site at 1209 Tanner and Garrin present for to collect samples.

Samples collected at 1212. Water was clear

Left site at 1217

TW4-24 03-08-2017 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 1st Quarter Chloroform 2017

Location (well name): TW4-25

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-25_03082017

Date and Time for Purging: 3/8/2017 and Sampling (if different): N/A

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

Well Pump (if other than Bennet): Continuous

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

Sampling Event: Quarterly Chloroform

Prev. Well Sampled in Sampling Event: TW4-21

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 1000 µMHOS/ cm

Well Depth(0.01ft): 134.80

Depth to Water Before Purging: 60.50

Casing Volume (V) 4" Well: 84.07 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Sunny

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

Time	1201	Gal. Purged	0
Conductance	2885	pH	6.44
Temp. °C	16.03		
Redox Potential Eh (mV)	426		
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 = 14.50

Time to evacuate two casing volumes (2V)
T = 2V/Q = 11.59

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: 70.26 Sample Time: 1202

See instruction

Comment

Arrived on site at 1158 Tanner and Garrin present to collect samples.
Samples collected at 1202 water was clear
Left site at 1204

TW4-25 03-08-2017 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 1st Quarter Chloroform 2017

Location (well name): TW4-26

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-26_03162017

Date and Time for Purging: 3/15/2017 and Sampling (if different): 3/16/2017

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): 86.00

Depth to Water Before Purging: 67.94

Casing Volume (V) 4" Well: 11.79 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Sunny

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

Time	1016	Gal. Purged	20
Conductance	6070	pH	5.05
Temp. °C	14.72		
Redox Potential Eh (mV)	574		
Turbidity (NTU)	8.1		

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

Time	0745	Gal. Purged	0
Conductance	6193	pH	4.90
Temp. °C	14.56		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Before

Time	0746	Gal. Purged	6
Conductance	6186	pH	4.89
Temp. °C	14.52		
Redox Potential Eh (mV)			
Turbidity (NTU)			

After

Volume of Water Purged: 2.0 gallon(s)

Pumping Rate Calculation

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

Time to evacuate two casing volumes (2V)
T = 2V/Q = 2.35

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

If well evacuated to dryness, number of gallons evacuated: 2.0

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: 83.98 Sample Time: 0745

See instruction

Comment

Arrived on site at 1012 Tanner and Garrin present for purge. Purge began at 1014 Purged well for a total of 2 minutes. Purged well dry. Purge ended at 1016 Water was clear. Left site at 1016.
Arrived on site at 0742 Tanner and Garrin present to collect samples. Depth to water was 68.10 samples bailed at 0745 Left site at 0747

TW4-26 03-15-2017 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 1ST Quarter Chloroform 2017

Location (well name): TW4-27

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-27_03152017

Date and Time for Purging: 3/14/2017 and Sampling (if different): 3/15/2017

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): 96.00

Depth to Water Before Purging: 79.35

Casing Volume (V) 4" Well: 10.87 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Sunny

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

Time	1246	Gal. Purged	15		
Conductance	5280	pH	6.17		
Temp. °C	15.47				
Redox Potential Eh (mV)	437				
Turbidity (NTU)	35				

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

Time	0923	Gal. Purged	0		
Conductance	5178	pH	6.05		
Temp. °C	13.81				
Redox Potential Eh (mV)					
Turbidity (NTU)					

Before

Time	0904	Gal. Purged	0		
Conductance	5193	pH	6.08		
Temp. °C	13.74				
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 = 2.17

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

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

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

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

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

Final Depth: 94.01 Sample Time: 0903

See instruction

Comment

Arrived on site at 1242 Tanner and Garrin present for purge. Purge began at 1245 Purged well for a total of 1 minute 30 seconds. Purge ended at 1246. water was mostly clear. Left site at 1249

Arrived on site at 0900 Tanner and Garrin present to collect samples. Depth to water was 79.79 samples bailed at 0903 Left site at 0905

TW4-27 03-14-2017 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 1ST Quarter Chloroform 2017

Location (well name): TW4-28

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-28_03142017

Date and Time for Purging: 3/13/2017 and Sampling (if different): 3/14/2017

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: 41.15

Casing Volume (V) 4" Well: 43.00 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Sunny

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

Time	1306	Gal. Purged	60
Conductance	1388	pH	6.63
Temp. °C	15.01		
Redox Potential Eh (mV)	448		
Turbidity (NTU)	39		

Time	1307	Gal. Purged	70
Conductance	1389	pH	6.64
Temp. °C	15.01		
Redox Potential Eh (mV)	448		
Turbidity (NTU)	38		

Time	1308	Gal. Purged	80
Conductance	1388	pH	6.63
Temp. °C	15.00		
Redox Potential Eh (mV)	448		
Turbidity (NTU)	37		

Time	1309	Gal. Purged	90
Conductance	1389	pH	6.65
Temp. °C	14.99		
Redox Potential Eh (mV)	447		
Turbidity (NTU)	36		

Volume of Water Purged: 90 gallon(s)

Pumping Rate Calculation

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

Time to evacuate two casing volumes (2V)
T = 2V/Q = 8.60

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: 83.29 Sample Time: 0743

See instruction

Comment

Arrived on site at 1258 Tanner and Garrin present for purge. Purge began at 1300 Purged well for a total of 9 minutes. Purge ended at 1309. water was mostly clear Left site at 1311

Arrived on site at 0741 Tanner and Garrin present to collect samples. Depth to water was 41.26 samples bailed at 0743 Left site at 0745

TW4-28 03-13-2017 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 1ST Quarter Chloroform 2017

Location (well name): TW4-29

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-29_03162017

Date and Time for Purging: 3/15/2017 and Sampling (if different): 3/16/2017

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): 93.50

Depth to Water Before Purging: 74.70

Casing Volume (V) 4" Well: 12.27 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Sunny

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

Time	1404	Gal. Purged	20
Conductance	4227	pH	6.02
Temp. °C	15.55		
Redox Potential Eh (mV)	507		
Turbidity (NTU)	25		

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

Time	0839	Gal. Purged	0
Conductance	4220	pH	6.22
Temp. °C	13.99		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Before

Time	0840	Gal. Purged	8
Conductance	4227	pH	6.22
Temp. °C	14.03		
Redox Potential Eh (mV)			
Turbidity (NTU)			

After

Volume of Water Purged: 20 gallon(s)

Pumping Rate Calculation

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

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

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

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: 91.01 Sample Time: 0839

See instruction

Comment

Arrived on site at 1400 Tanner and Garrin present for purge. Purge began at 1402 Purged well for a total of 2 minutes. Purged well dry. Purge ended at 1404 water was clear. Left site at 1407

Arrived on site at 0836 Tanner and Garrin present to collect samples. Depth to water was 74.70 Samples bailed at 0839 Left site at 0841

TW4-29 03-15-2017 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 1ST Quarter Chloroform 2017

Location (well name): TW4-30

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-30_03152017

Date and Time for Purging: 3/14/2017 and Sampling (if different): 3/15/2017

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: TW4-30R

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: 75.52

Casing Volume (V) 4" Well: 11.08 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Sunny

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

Time	1349	Gal. Purged	22.50
Conductance	4555	pH	5.38
Temp. °C	15.26		
Redox Potential Eh (mV)	475		
Turbidity (NTU)	72		

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

Time	0915	Gal. Purged	0
Conductance	4411	pH	5.63
Temp. °C	13.83		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Before

Time	0916	Gal. Purged	0
Conductance	4415	pH	5.60
Temp. °C	13.86		
Redox Potential Eh (mV)			
Turbidity (NTU)			

After

Volume of Water Purged: 22.50 gallon(s)

Pumping Rate Calculation

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

Time to evacuate two casing volumes (2V)
T = 2V/Q = 2.21

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

If well evacuated to dryness, number of gallons evacuated: 22.50

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: 89.88 Sample Time: 0915

See instruction

Comment

Arrived on site at 1345 Tanner and Garrin present for purge. Purge began at 1347 Purged well for a total of 2 minutes and 15 seconds. Purged well dry! Purge ended at 1349 water was a little murky. Left site at 1352.

Arrived on site at 0912 Tanner and Garrin present to collect samples. Depth to water was 75.62 samples bailed at 0915 Left site at 0917

TW4-30 03-14-2017 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 1ST Quarter Chloroform 2017

Location (well name): TW4-30R

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-30R_03142017

Date and Time for Purging: 3/14/2017 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: TW4-14

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" Weil: 0 (.367h)

Weather Cond.: Sunny

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

Time	.335 1335	Gal. Purged	.30 130
Conductance	6.5	pH	6.10
Temp. °C	17.80		
Redox Potential Eh (mV)	460		
Turbidity (NTU)	0.4		

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

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

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

Volume of Water Purged: 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: 1335

See instruction

Comment

Arrived on site at 1321 Tanner and Garrin present for rinsate. Rinsate began at 1322 Pumped 50 Gallons of soap water and 100 Gallons of DI water Samples collected at 1335, Rinsate ended at 1336.

Left site at 1337

TW4-30R 03-14-2017 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 1st Quarter Chloroform 2017

Location (well name): TW4-31

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-31_03152017

Date and Time for Purging: 3/14/2017 and Sampling (if different): 3/15/2017

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: TW4-36

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: 78.50

Casing Volume (V) 4" Well: 17.95 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Sunny

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

Time	0939	Gal. Purged	30 (30)		
Conductance	4723	pH	6.18		
Temp. °C	15.02				
Redox Potential Eh (mV)	461				
Turbidity (NTU)	168				

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

Time	0817	Gal. Purged	0		
Conductance	4710	pH	6.36		
Temp. °C	14.18				
Redox Potential Eh (mV)					
Turbidity (NTU)					

Before

Time	0818	Gal. Purged	0		
Conductance	4715	pH	6.38		
Temp. °C	14.17				
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 = 3.59

Number of casing volumes evacuated (if other than two): 1.67

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: 103.57 Sample Time: 0817

See instruction

Comment

Arrived on site at 0933 Tanner and Garrin present for purge. Purge began at 0936 Purged well for a total of 3 minutes. Purged well dry! Purge ended at 0939 water was a murky brown. Left site at 0941

Arrived on site at 0814 Tanner and Garrin present to collect samples. Depth to water was 78.53 Samples bailed at 0817 Left site at 0819

TW4-31 03-14-2017 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 1st Quarter Chloroform 2017

Location (well name): TW4-32

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-32_03142017

Date and Time for Purging: 3/13/2017 and Sampling (if different): 3/14/2017

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: 52.20

Casing Volume (V) 4" Well: 41.07 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Sunny

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

Time	1405	Gal. Purged	60		
Conductance	7185	pH	3.55		
Temp. °C	14.95				
Redox Potential Eh (mV)	574				
Turbidity (NTU)	16				

Time	1406	Gal. Purged	70		
Conductance	7107	pH	3.56		
Temp. °C	14.94				
Redox Potential Eh (mV)	574				
Turbidity (NTU)	15				

Time	1407	Gal. Purged	80		
Conductance	7100	pH	3.60		
Temp. °C	14.94				
Redox Potential Eh (mV)	570				
Turbidity (NTU)	15				

Time	1408	Gal. Purged	90		
Conductance	~~14.97~~ 6987	pH	3.63		
Temp. °C	14.93				
Redox Potential Eh (mV)	569				
Turbidity (NTU)	14				

Volume of Water Purged: 90 gallon(s)

Pumping Rate Calculation

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

Time to evacuate two casing volumes (2V)
T = 2V/Q = 8.21

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: 74.10 Sample Time: 0751

See instruction

Comment

Arrived on site at 1355. Tanner and Garrin present for purge. Purge began at 1359. Purged well for a total of 9 minutes. Purge ended at 1408. water was clear. Left site at 1411, water had white salt like particles. Hose and pump had particles on it.

Arrived on site at 0748 Tanner and Garrin present to collect samples. Depth to water was 52.20 samples bailed at 0751 Left site at 0753

TW4-32 03-13-2017 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 1st Quarter Chloroform 2017

Location (well name): TW4-33

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-33_03162017

Date and Time for Purging: 3/15/2017 and Sampling (if different): 3/16/2017

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): 87.90

Depth to Water Before Purging: 73.60

Casing Volume (V) 4" Well: 9.33 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Sunny

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

Time	1303	Gal. Purged	10		
Conductance	4430	pH	5.71		
Temp. °C	15.80				
Redox Potential Eh (mV)	512				
Turbidity (NTU)	21				

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

Time	0824	Gal. Purged	0		
Conductance	4596	pH	5.50		
Temp. °C	13.41				
Redox Potential Eh (mV)					
Turbidity (NTU)					

Before

Time	0825	Gal. Purged	0		
Conductance	4595	pH	5.52		
Temp. °C	13.44				
Redox Potential Eh (mV)					
Turbidity (NTU)					

After

Volume of Water Purged: 10 gallon(s)

Pumping Rate Calculation

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

Time to evacuate two casing volumes (2V)
T = 2V/Q = 1.86

Number of casing volumes evacuated (if other than two): 1.07

If well evacuated to dryness, number of gallons evacuated: 10

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

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

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

Final Depth: 84.01 Sample Time: 0824

See instruction

Comment

Arrived on site at 1300 Tanner and Garrin present for purge. Purge began at 1302 Purged well for a total of 1 minute. Purged well dry! Purge ended at 1303 water was clear. Left site at 1306

Arrived on site at 0821 Tanner and Garrin present to collect samples. Depth to water was 73.62 samples bailed at 0824 Left site at 0826

TW4-33 03-15-2017 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 1ST Quarter Chloroform 2017

Location (well name): TW4-34

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-34_03152017

Date and Time for Purging: 3/14/2017 and Sampling (if different): 3/15/2017

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: 72.80

Casing Volume (V) 4" Well: 15.93 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Sunny

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

Time	1010	Gal. Purged	33.33		
Conductance	4003	pH	6.20		
Temp. °C	14.95				
Redox Potential Eh (mV)	463				
Turbidity (NTU)	10				

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

Time	0823	Gal. Purged	0		
Conductance	3987	pH	6.46		
Temp. °C	13.79				
Redox Potential Eh (mV)					
Turbidity (NTU)					

Before

Time	0824	Gal. Purged	0		
Conductance	3990	pH	6.46		
Temp. °C	13.76				
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 = 3.18

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: 94.15 Sample Time: 0823

See instruction

Comment

Arrived on site at 1005 Tanner and Garrin present for purge. Purge began at 1007 Purged well for a total of 3 minutes 20 seconds. Purged well dry! Purge ended at 1010 water was clear. Left site at 1012

Arrived on site at 0820 Tanner and Garrin present to collect samples. Depth to water was 72.80 samples bailed at 0823 Left site at 0825

TW4-34 03-14-2017 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 1ST Quarter Chloroform 2017

Location (well name): TW4-35

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-35_03152017

Date and Time for Purging: 3/14/2017 and Sampling (if different): 3/15/2017

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: TW4-34

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: 74.27 Casing Volume (V) 4" Well: 8.63 (.653h) 3" Well: 0 (.367h)

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

Time	1038	Gal. Purged	13.33		
Conductance	4475	pH	6.02		
Temp. °C	15.04				
Redox Potential Eh (mV)	475				
Turbidity (NTU)	8.0				

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

Time	0840	Gal. Purged	0		
Conductance	4458	pH	6.37		
Temp. °C	13.83				
Redox Potential Eh (mV)					
Turbidity (NTU)					

Before

Time	0841	Gal. Purged	0		
Conductance	4468	pH	6.36		
Temp. °C	13.72				
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 = 1.72

Number of casing volumes evacuated (if other than two): 1.54

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: 84.27 Sample Time: 0840

See instruction

Comment

Arrived on site at 1035, Tanner and Garrin present for purge. Purge began at 1037 Purged well for a total of 1 minute 20 seconds. Purged well dry. Purge ended at 1038 water was clear. Left site at 1041

Arrived on site at 0837 Tanner and Garrin present to collect samples. Depth to water was 74.29. Samples bailed at 0840 Left site at 0842

TW4-35 03-14-2017 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 1ST Quarter Chloroform 2017

Location (well name): TW4-36

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-36_03152017

Date and Time for Purging: 3/14/2017 and Sampling (if different): 3/15/2017

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: 56.51

Casing Volume (V) 4" Well: 27.74 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Sunny

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

Time	0909	Gal. Purged	50
Conductance	~~14.47~~ 2591	pH	6.37
Temp. °C	14.91		
Redox Potential Eh (mV)	485		
Turbidity (NTU)	92		

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

Time	0811	Gal. Purged	0
Conductance	2403	pH	6.46
Temp. °C	14.16		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Before

Time	0812	Gal. Purged	0
Conductance	2428	pH	6.46
Temp. °C	14.14		
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 = 5.54

Number of casing volumes evacuated (if other than two): 1.80

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: 96.78 Sample Time: 0811

See instruction

Comment

Arrived on site at 0901 Tanner and Garrin present for purge. Purge began at 0904 Purged well for a total of 5 minutes. Purged well dry. Purge ended at 0909. water was a murky brown. Left site at 0911
Arrived on site at 0808 Tanner and Garrin present to collect samples. Depth to water was 57.25 samples bailed at 0811 Left site at 0813

TW4-36 03-14-2017 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 1st Quarter Chloroform 2017

Location (well name): TW4-37

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-37_03082017

Date and Time for Purging: 3/8/2017 and Sampling (if different): N/A

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

Well Pump (if other than Bennet): Continuous

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

Sampling Event: Quarterly Chloroform

Prev. Well Sampled in Sampling Event: TW4-22

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 1000 µMHOS/ cm

Well Depth(0.01ft): 112.00

Depth to Water Before Purging: 63.90

Casing Volume (V) 4" Well: 31.40 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Sunny

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

Time	1229	Gal. Purged	0
Conductance	4070	pH	6.55
Temp. °C	15.90		
Redox Potential Eh (mV)	404		
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 = 3.69

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: 66,98 Sample Time: 1230

See instruction

Comment

Arrived on site at 1226 Tanner and Garrin present to collect samples

Samples collected at 1230 Water was clear

Left site at 1233

TW4-37 03-08-2017 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 1ST Quarter Chloroform 2017

Location (well name): TW4-38

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-38_03152017

Date and Time for Purging: 3/14/2017 and Sampling (if different): 3/15/2017

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): 112.75

Depth to Water Before Purging: 53.80

Casing Volume (V) 4" Well: 38.49 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Sunny

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

Time	1216	Gal. Purged	60
Conductance	1306	pH	6.34
Temp. °C	14.72		
Redox Potential Eh (mV)	415		
Turbidity (NTU)	30		

Time	1217	Gal. Purged	70
Conductance	1322	pH	6.33
Temp. °C	14.72		
Redox Potential Eh (mV)	415		
Turbidity (NTU)	3		

Time	1218	Gal. Purged	80
Conductance	1335	pH	6.33
Temp. °C	14.70		
Redox Potential Eh (mV)	415		
Turbidity (NTU)	30		

Time	1219	Gal. Purged	90
Conductance	1344	pH	6.33
Temp. °C	14.71		
Redox Potential Eh (mV)	415		
Turbidity (NTU)	30		

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 = 7.69

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: 76.30 Sample Time: 0855

See instruction

Comment

Arrived on site at 1208 Tanner and Garrin present for purge. Purge began at 1210 Purged well for a total of 9 minutes. Purge ended at 1219. water was mostly clear. Left site at 1221

Arrived on site at 0853 Tanner and Garrin present to collect samples. Depth to water was 53.94 samples bailed at 0855 Left site at 0857

TW4-38 03-14-2017 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 1ST Quarter Chloroform 2017

Location (well name): TW4-39

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-39_03082017

Date and Time for Purging: 3/8/2017 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): 120.00

Depth to Water Before Purging: 62.02

Casing Volume (V) 4" Well: 37.86 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Sunny

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

Time	1248	Gal. Purged	0
Conductance	2.534	pH	6.70
Temp. °C	15.67		
Redox Potential Eh (mV)	258		
Turbidity (NTU)	0		

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

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

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

Volume of Water Purged: 0 gallon(s)

Pumping Rate Calculation

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

Time to evacuate two casing volumes (2V)
T = 2V/Q = 4.20

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: 69.46 Sample Time: 1249

See instruction

Comment

Arrived on site at 1245 Tanner and Garrin present to collect samples.
Samples collected at 1249 water was clear
Left site at 1251

TW4-39 03-08-2017 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 1ST Quarter Chloroform 2017

Location (well name): TW4-60

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-60_03082017

Date and Time for Purging: 3/8/2017 and Sampling (if different): N/A

Well Purging Equip Used: ☑ pump or ☐ bailer

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

Purging Method Used: ☑ 2 casings ☐ 3 casings

Sampling Event: Quarterly Chloroform

Prev. Well Sampled in Sampling Event: N/A

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 1000 µMHOS/ cm

Well Depth(0.01ft): 0

Depth to Water Before Purging: 0

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

Weather Cond.: Sunny

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

Time	0929	Gal. Purged	0
Conductance	1.1	pH	7.58
Temp. °C	15.54		
Redox Potential Eh (mV)	379		
Turbidity (NTU)	4.1		

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

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

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

Volume of Water Purged: 0 gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = 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: 0930

See instruction

Comment

DI Blank collected in the lab at 0930

TW4-60 03-08-2017 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 1ST Quarter Chloroform 2017

Location (well name): TW4-65

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-65_03142017

Date and Time for Purging: 3/13/2017 and Sampling (if different): 3/14/2017

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: 41.15

Casing Volume (V) 4" Well: 43.06 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Sunny

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

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 [9l] gallon(s)

Pumping Rate Calculation

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

Time to evacuate two casing volumes (2V)
T = 2V/Q = [8.60]

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 [83.29] Sample Time [0743]

See instruction

Comment

Duplicate of TW4-28

TW4-65 03-13-2017 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 1ST Quarter Chloroform 2017

Location (well name): TW4-70

Sampler Name and initials: Tanner Holliday /TH

Field Sample ID: TW4-70_03152017

Date and Time for Purging: 3/14/2017 and Sampling (if different): 3/15/2017

Well Purging Equip Used: ☑ pump or ☐ bailer

Well Pump (if other than Bennet): Grundfos

Purging Method Used: ☑ 2 casings ☐ 3 casings

Sampling Event: Quarterly Chloroform

Prev. Well Sampled in Sampling Event: TW4-35

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 1000 µMHOS/ cm

Well Depth(0.01ft): 114.00

Depth to Water Before Purging: 70.80

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

Weather Cond.: Sunny

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

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: 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 = 5.64

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

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

Name of Certified Analytical Laboratory if Other Than Energy Labs: 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: 85.40 Sample Time: 0846

See instruction

Comment

Duplicate of TW4-23

TW4-70 03-14-2017 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 1ST Quarter Chloroform 2017

Location (well name): TW4-75

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-75_03162017

Date and Time for Purging: 3/15/2017 and Sampling (if different): 3/16/2017

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): 137.50

Depth to Water Before Purging: 67.05

Casing Volume (V) 4" Well: 46.00 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Sunny

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

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: 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 = 9.20

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: 67.30 Sample Time: 0757

See instruction

Comment

Duplicate of TW4-18

TW4-75 03-15-2017 Do not touch this cell (SheetName)

Tab C

Weekly and Monthly Depth to Water Data

Weekly Inspection Form

Date 1/4/16 **Name** Garrin Palmer

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)
1245	MW-4	80.41	Flow 4.5	(Yes) No
			Meter 1239368.84	(Yes) No
1237	MW-26	65.62	Flow 11.0	(Yes) No
			Meter 134373.30	(Yes) No
1430	TW4-19	64.18	Flow 18.0	(Yes) No
			Meter 719987.70	(Yes) No
1227	TW4-20	64.67	Flow 7.5	(Yes) No
			Meter 169598.07	(Yes) No
1253	TW4-4	73.98	Flow 17.0	(Yes) No
			Meter 455759.90	(Yes) No
1213	TWN-2	32.61	Flow 18.6	(Yes) No
			Meter 751670.40	(Yes) No
1221	TW4-22	64.03	Flow 16.0	(Yes) No
			Meter 382579.40	(Yes) No
1218	TW4-24	65.43	Flow 14.8	(Yes) No
			Meter 319478.20	(Yes) No
1209	TW4-25	67.20	Flow 14.5	(Yes) No
			Meter 1849836.90	(Yes) No
1249	TW4-1	85.63	Flow 15.0	(Yes) No
			Meter 165611.20	(Yes) No
1240	TW4-2	84.88	Flow 16.0	(Yes) No
			Meter 170269.90	(Yes) No
1236	TW4-11	93.67 / 93.67	Flow 16.0	(Yes) No
			Meter 36546.30	(Yes) No
1205	TW4-21	70.48	Flow 14.5	(Yes) No
			Meter 801124.69	(Yes) No
1222	TW4-37	65.39	Flow 16.5	(Yes) No
			Meter 699078.10	(Yes) No
1232	TW4-39	64.33	Flow 16.0	(Yes) No
			Meter 4349.68	(Yes) No

Operational Problems (Please list well number): Replaced heat ~~lamps~~ bulbs in wells TW4-11, TW4-39, TW4-21.

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

* Depth is measured to the nearest 0.01 feet.

Weekly Inspection Form

Date 1/9/2017 **Name** Tanner Holliday

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)
1321	MW-4	82.11	Flow 43	Yes No
			Meter 1244072.17	Yes No
1311	MW-26	64.38	Flow 10.6	Yes No
			Meter 135764.0	Yes No
1349	TW4-19	64.51	Flow 18.0	Yes No
			Meter 726030.7	Yes No
1308	TW4-20	64.68	Flow 7.5	Yes No
			Meter 170202.47	Yes No
1328	TW4-4	74.12	Flow 17.0	Yes No
			Meter 456910.9	Yes No
1255	TWN-2	33.02	Flow 18.0	Yes No
			Meter 754067.2	Yes No
1301	TW4-22	64.20	Flow 16.0	Yes No
			Meter 383888.7	Yes No
1258	TW4-24	64.98	Flow 14.8	Yes No
			Meter 326794.54	Yes No
1251	TW4-25	67.14	Flow 14.5	Yes No
			Meter 1849738.1	Yes No
1325	TW4-1	84.99	Flow 15.0	Yes No
			Meter 166567.5	Yes No
1318	TW4-2	84.67	Flow 16.0	Yes No
			Meter 171267.0	Yes No
1315	TW4-11	92.94	Flow 16.0	Yes No
			Meter 36700.0	Yes No
1248	TW4-21	69.84	Flow 14.5	Yes No
			Meter 808138.74	Yes No
1305	TW4-37	64.53	Flow 16.5	Yes No
			Meter 704484.8	Yes No
1308	TW4-39	64.26	Flow 16.0	Yes No
			Meter 4851.94	Yes No

Operational Problems (Please list well number): _____

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

* Depth is measured to the nearest 0.01 feet.

Monthly Depth Check Form

Date 1/13/17 **Name** Garrin Palmer

Time	Well	Depth*	Time	Well	Depth*
1105	MW-4	81.96	1321	TWN-1	63.49
1107	TW4-1	86.28	1327	TWN-2	32.91
1103	TW4-2	83.88	1317	TWN-3	40.21
1020	TW4-3	58.08	1303	TWN-4	56.12
1109	TW4-4	74.10	1311	TWN-7	84.52
1026	TW4-5	66.05	1301	TWN-18	60.78
1014	TW4-6	73.37	1258	MW-27	54.73
1016	TW4-7	77.04	1040	MW-30	75.21
1018	TW4-8	81.70	1037	MW-31	68.41
1024	TW4-9	63.87			
1028	TW4-10	63.40			
1100	TW4-11	91.78			
0957	TW4-12	47.01			
1002	TW4-13	52.95	0958	TW4-28	40.95
0952	TW4-14	79.18	0950	TW4-29	74.55
1058	TW4-15	65.30	0943	TW4-30	75.51
1031	TW4-16	64.35	0941	TW4-31	78.60
1033	TW4-17	78.00	1000	TW4-32	52.05
1323	TW4-18	66.95	0937	TW4-33	73.41
1120	TW4-19	64.27	0947	TW4-34	72.59
1056	TW4-20	65.64	0945	TW4-35	74.19
1054	TW4-21	70.03	0955	TW4-36	56.41
1049	TW4-22	64.18	1341	TW4-37	64.42
1008	TW4-23	70.50	1021	TW4-38	53.45
1050	TW4-24	64.83	1058	TW4-39	64.52
1052	TW4-25	67.11			
1006	TW4-26	67.75			
0939	TW4-27	79.37			

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

* Depth is measured to the nearest 0.01 feet

Weekly Inspection Form

Date 11/16/17 **Name** Garrin Palmer, Tanner Holliday

Time	Well	Depth*	Comments		System Operational (If no note any problems/corrective actions)
1313	MW-4	81.25	Flow	4.5	(Yes) No
			Meter	1250808.24	(Yes) No
1304	MW-26	68.00	Flow	11.0	(Yes) No
			Meter	137778.40	(Yes) No
1400	TW4-19	68.01	Flow	18.0	(Yes) No
			Meter	734755.80	(Yes) No
1258	TW4-20	64.95	Flow	6.2	(Yes) No
			Meter	171294.36	(Yes) No
1326	TW4-4	73.12	Flow	17.0	(Yes) No
			Meter	458714.90	(Yes) No
1245	TWN-2	40.15	Flow	18.5	(Yes) No
			Meter	757536.60	(Yes) No
1251	TW4-22	59.47	Flow	17.3	(Yes) No
			Meter	385737.20	(Yes) No
1248	TW4-24	65.16	Flow	14.2	(Yes) No
			Meter	336729.01	(Yes) No
1238	TW4-25	60.84	Flow	14.6	(Yes) No
			Meter	1849839.60	(Yes) No
1317	TW4-1	103.28	Flow	16.0	(Yes) No
			Meter	167919.80	(Yes) No
1310	TW4-2	101.00	Flow	16.0	(Yes) No
			Meter	172849.90	(Yes) No
1307	TW4-11	92.63	Flow	16.0	(Yes) No
			Meter	36948.90	(Yes) No
1242	TW4-21	69.30	Flow	16.0	(Yes) No
			Meter	817744.81	(Yes) No
1254	TW4-37	63.06	Flow	17.0	(Yes) No
			Meter	712123.10	(Yes) No
1301	TW4-39	62.48	Flow	17.6	(Yes) No
			Meter	55270.50	(Yes) No

Operational Problems (Please list well number): _____

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

* Depth is measured to the nearest 0.01 feet.

Weekly Inspection Form

Date 1/23/17 **Name** Garcia Palmer, Tanner Holliday

Time	Well	Depth*	Comments		System Operational (If no note any problems/corrective actions)
1253	MW-4	82.66	Flow	4.5	(Yes) No
			Meter	1257589.60	(Yes) No
1243	MW-26	70.19	Flow	10.6	(Yes) No
			Meter	139133.90	(Yes) No
1344	TW4-19	64.28	Flow	18.0	(Yes) No
			Meter	743561.70	(Yes) No
1235	TW4-20	65.00	Flow	6.4	(Yes) No
			Meter	172280.66	(Yes) No
1259	TW4-4	73.29	Flow	17.0	(Yes) No
			Meter	460520.20	(Yes) No
1221	TWN-2	60.44	Flow	18.5	(Yes) No
			Meter	761017.20	(Yes) No
1228	TW4-22	59.40	Flow	17.3	(Yes) No
			Meter	387593.40	(Yes) No
1225	TW4-24	71.43	Flow	14.2	(Yes) No
			Meter	346223.76	(Yes) No
1218	TW4-25	60.49	Flow	14.5	(Yes) No
			Meter	18498.49	(Yes) No
1256	TW4-1	84.29	Flow	15.0	(Yes) No
			Meter	169262.19	(Yes) No
1250	TW4-2	115.70	Flow	16.0	(Yes) No
			Meter	174411.80	(Yes) No
1247	TW4-11	92.34	Flow	16.0	(Yes) No
			Meter	37190.60	(Yes) No
1214	TW4-21	82.61	Flow	16.0	(Yes) No
			Meter	827389.60	(Yes) No
1231	TW4-37	63.02	Flow	17.4	(Yes) No
			Meter	719837.10	(Yes) No
1239	TW4-39	62.15	Flow	17.4	(Yes) No
			Meter	62721.20	(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 1/30/17 **Name** Garrin, Tanner

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)
1320	MW-4	83.11	Flow 4.5	(Yes) No
			Meter 1264370.73	(Yes) No
1310	MW-26	68.06	Flow 10.4	(Yes) No
			Meter 141132.50	(Yes) No
1402	TW4-19	64.69	Flow 18.0	(Yes) No
			Meter 752852.40	(Yes) No
1303	TW4-20	65.26	Flow 6.4	(Yes) No
			Meter 173279.53	(Yes) No
1326	TW4-4	73.68	Flow 17.0	(Yes) No
			Meter 462445.70	(Yes) No
1247	TWN-2	38.22	Flow 18.5	(Yes) No
			Meter 764598.40	(Yes) No
1255	TW4-22	54.83	Flow 17.2	(Yes) No
			Meter 389440.90	(Yes) No
1251	TW4-24	64.30	Flow 14.0	(Yes) No
			Meter 355221.24	(Yes) No
1244	TW4-25	61.10	Flow 14.5	(Yes) No
			Meter 1849750.90	(Yes) No
1323	TW4-1	100.70	Flow 16.0	(Yes) No
			Meter 170610.66	(Yes) No
1317	TW4-2	97.25	Flow 16.5	(Yes) No
			Meter 175926.40	(Yes) No
1313	TW4-11	92.85	Flow 16.0	(Yes) No
			Meter 37410.70	(Yes) No
1240	TW4-21	69.51	Flow 16.0	(Yes) No
			Meter 835912.10	(Yes) No
1259	TW4-37	63.44	Flow 16.8	(Yes) No
			Meter 727529.40	(Yes) No
1306	TW4-39	100.66	Flow 17.5	(Yes) No
			Meter 6885.25	(Yes) No

Operational Problems (Please list well number): _____

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

* Depth is measured to the nearest 0.01 feet.

Weekly Inspection Form

Date 2/9/17 **Name** Garrin Palmer, Tanner Holliday

Time	Well	Depth*	Comments		System Operational (If no note any problems/corrective actions)
1403	MW-4	81.94	Flow	4.5	(Yes) No
			Meter	1274084.31	(Yes) No
1348	MW-26	67.02	Flow	11.0	(Yes) No
			Meter	144739.00	(Yes) No
1300	TW4-19	65.32	Flow	18.0	(Yes) No
			Meter	765148.70	(Yes) No
1342	TW4-20	66.46	Flow	6.2	(Yes) No
			Meter	174621.49	(Yes) No
1407	TW4-4	73.10	Flow	17.0	(Yes) No
			Meter	464932.90	(Yes) No
1328	TWN-2	36.50	Flow	18.5	(Yes) No
			Meter	769551.1	(Yes) No
1336	TW4-22	59.74	Flow	17.2	(Yes) No
			Meter	392099.70	(Yes) No
1333	TW4-24	76.85	Flow	13.6	(Yes) No
			Meter	367165.80	(Yes) No
1323	TW4-25	60.85	Flow	14.5	(Yes) No
			Meter	1849849.40	(Yes) No
1359	TW4-1	95.89	Flow	16.0	(Yes) No
			Meter	172507.70	(Yes) No
1356	TW4-2	87.51	Flow	18.0	(Yes) No
			Meter	178127.90	(Yes) No
1351	TW4-11	92.25	Flow	16.0	(Yes) No
			Meter	37740.90	(Yes) No
1318	TW4-21	66.52	Flow	16.0	(Yes) No
			Meter	843415.09	(Yes) No
1339	TW4-37	63.28	Flow	17.0	(Yes) No
			Meter	738228.70	(Yes) No
1345	TW4-39	63.80	Flow	17.4	(Yes) No
			Meter	7608.37	(Yes) No

Operational Problems (Please list well number): _____

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

* Depth is measured to the nearest 0.01 feet.

Monthly Depth Check Form

Date 2/10/2017 **Name** Tanner Holliday, Garrin Palmer

Time	Well	Depth*	Time	Well	Depth*
0713	MW-4	80.76	1019	TWN-1	63.53
0714	TW4-1	94.26	0659	TWN-2	35.81
0712	TW4-2	88.60	1033	TWN-3	40.30
0831	TW4-3	58.16	1028	TWN-4	56.01
0716	TW4-4	73.14	1037	TWN-7	84.54
0834	TW4-5	66.10	1025	TWN-18	60.76
0824	TW4-6	73.40	1040	MW-27	54.67
0826	TW4-7	77.15	1014	MW-30	75.13
0828	TW4-8	81.66	0844	MW-31	68.36
0835	TW4-9	63.95			
0837	TW4-10	63.50			
0711	TW4-11	92.30			
0812	TW4-12	47.11			
0811	TW4-13	52.92	0814	TW4-28	41.02
0808	TW4-14	79.06	0806	TW4-29	74.54
0710	TW4-15	66.33	0802	TW4-30	75.45
0840	TW4-16	64.55	0800	TW4-31	78.49
0841	TW4-17	78.05	0815	TW4-32	52.02
1022	TW4-18	67.02	0758	TW4-33	74.31
1050	TW4-19	64.18	0805	TW4-34	72.60
0707	TW4-20	66.23	0803	TW4-35	74.15
1023	TW4-21	65.90	0810	TW4-36	56.40
0704	TW4-22	60.40	0705	TW4-37	64.02
0822	TW4-23	70.56	0833	TW4-38	53.54
0702	TW4-24	74.18	1046	TW4-39	63.97
0701	TW4-25	61.04			
0820	TW4-26	67.75			
0759	TW4-27	79.30			

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

* Depth is measured to the nearest 0.01 feet

Weekly Inspection Form

Date 2/13/17 **Name** Garvin / Tanner

Time	Well	Depth*	Comments		System Operational (If no note any problems/corrective actions)
1337	MW-4	82.10	Flow	4.5	(Yes) No
			Meter	1277752.17	(Yes) No
1327	MW-26	66.80	Flow	11.0	(Yes) No
			Meter	145870.60	(Yes) No
1401	TW4-19	63.20	Flow	18.0	(Yes) No
			Meter	770158.10	(Yes) No
1350	TW4-20	69.20	Flow	6.4	(Yes) No
			Meter	175281.70	(Yes) No
1341	TW4-4	73.10	Flow	17.0	(Yes) No
			Meter	466075.00	(Yes) No
1311	TWN-2	36.40	Flow	18.5	(Yes) No
			Meter	771438.10	(Yes) No
1317	TW4-22	59.39	Flow	16.0	(Yes) No
			Meter	393028.20	(Yes) No
1314	TW4-24	63.70	Flow	14.0	(Yes) No
			Meter	371509.66	(Yes) No
1308	TW4-25	60.61	Flow	14.4	(Yes) No
			Meter	1849850.60	(Yes) No
1340	TW4-1	98.10	Flow	16.0	(Yes) No
			Meter	173361.10	(Yes) No
1334	TW4-2	91.53	Flow	16.0	(Yes) No
			Meter	179074.30	(Yes) No
1331	TW4-11	92.32	Flow	16.0	(Yes) No
			Meter	37869.00	(Yes) No
1305	TW4-21	65.52	Flow	16.0	(Yes) No
			Meter	843426.64	(Yes) No
1320	TW4-37	63.24	Flow	15.8	(Yes) No
			Meter	742517.60	(Yes) No
1324	TW4-39	66.20	Flow	17.4	(Yes) No
			Meter	79172.00	(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 2/21/17 **Name** Garrin Palmer, Tanner Holliday

Time	Well	Depth*	Comments		System Operational (If no note any problems/corrective actions)
1007	MW-4	72.10	Flow	4.5	(Yes) No
			Meter	1277757.18	(Yes) No
0955	MW-26	67.54	Flow	10.0	(Yes) No
			Meter	148086.20	(Yes) No
1057	TW4-19	64.69	Flow	18.0	(Yes) No
			Meter	779702.80	(Yes) No
0949	TW4-20	65.10	Flow	6.2	(Yes) No
			Meter	176316.60	(Yes) No
1001	TW4-4	73.46	Flow	17.0	(Yes) No
			Meter	468010.50	(Yes) No
0936	TWN-2	39.32	Flow	18.6	(Yes) No
			Meter	775407.40	(Yes) No
0943	TW4-22	60.07	Flow	17.0	(Yes) No
			Meter	395104.60	(Yes) No
0940	TW4-24	64.05	Flow	14.2	(Yes) No
			Meter	379997.54	(Yes) No
0933	TW4-25	60.70	Flow	14.5	(Yes) No
			Meter	1849856.20	(Yes) No
1004	TW4-1	100.28	Flow	16.0	(Yes) No
			Meter	174997.00	(Yes) No
1010	TW4-2	88.88	Flow	16.0	(Yes) No
			Meter	180711.60	(Yes) No
1014	TW4-11	92.97	Flow	16.0	(Yes) No
			Meter	38135.10	(Yes) No
0930	TW4-21	64.94	Flow	16.0	(Yes) No
			Meter	843436.15	(Yes) No
0946	TW4-37	63.70	Flow	17.0	(Yes) No
			Meter	750936.10	(Yes) No
0952	TW4-39	62.30	Flow	~~63.30~~ 17.0	(Yes) No
			Meter	850505.07	(Yes) No

Operational Problems (Please list well number): Timer on MW-4 settings were erased

Corrective Action(s) Taken (Please list well number): Restored pump settings on MW-04.

* Depth is measured to the nearest 0.01 feet.

Weekly Inspection Form

Date 3/2/17 **Name** Garrin Palmer

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)
1240	MW-4	80.14	Flow 4.4	(Yes) No
			Meter 1285815.36	(Yes) No
1220	MW-26	67.01	Flow 10.0	(Yes) No
			Meter 177692.60	(Yes) No
1321	TW4-19	64.66	Flow 18.0	(Yes) No
			Meter 742056.60	(Yes) No
1228	TW4-20	65.12	Flow 6.3	(Yes) No
			Meter 150736.05	(Yes) No
1243	TW4-4	74.87	Flow 16.8	(Yes) No
			Meter 470497.70	(Yes) No
1207	TWN-2	34.19	Flow 18.6	(Yes) No
			Meter 779927.2	(Yes) No
1213	TW4-22	61.47	Flow 17.0	(Yes) No
			Meter 397642.46	(Yes) No
1210	TW4-24	65.92	Flow 14.4	(Yes) No
			Meter 388644.12	(Yes) No
1204	TW4-25	61.83	Flow 14.5	(Yes) No
			Meter 1849851.96	(Yes) No
1237	TW4-1	98.78	Flow 16.0	(Yes) No
			Meter 176756.90	(Yes) No
1234	TW4-2	89.03	Flow 16.0	(Yes) No
			Meter 182878.80	(Yes) No
1231	TW4-11	92.48	Flow 16.0	(Yes) No
			Meter 38433.40	(Yes) No
1201	TW4-21	65.40	Flow 16.0	(Yes) No
			Meter 843445.93	(Yes) No
1217	TW4-37	63.81	Flow 17.0	(Yes) No
			Meter 760780.90	(Yes) No
1224	TW4-39	62.87	Flow 17.0	(Yes) No
			Meter 92550.20	(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 3/8/17 **Name** Garrin Palmer, Tanner Halliday

Time	Well	Depth*	Comments		System Operational (If no note any problems/corrective actions)
1319	MW-4	79.15	Flow	4.4	(Yes) No
			Meter	1291267.61	(Yes) No
1254	MW-26	68.74	Flow	11.0	(Yes) No
~~1308~~			Meter	152407.90	(Yes) No
1408	TW4-19	64.50	Flow	18.0	(Yes) No
			Meter	798504.20	(Yes) No
1234	TW4-20	65.25	Flow	6.6	(Yes) No
			Meter	178421.73	(Yes) No
1337	TW4-4	73.20	Flow	17.0.	(Yes) No
			Meter	472071.70	(Yes) No
1205	TWN-2	60.43	Flow	18.5	(Yes) No
			Meter	782902.70	(Yes) No
1215	TW4-22	60.35	Flow	17.0	(Yes) No
			Meter	394278.20	(Yes) No
1208	TW4-24	63.30	Flow	14.2	(Yes) No
			Meter	393822.08	(Yes) No
1300	TW4-25	60.50	Flow	14.5	(Yes) No
			Meter	1849854.70	(Yes) No
1324	TW4-1	99.00	Flow	16.0	(Yes) No
			Meter	177944.90	(Yes) No
1310	TW4-2	94.10	Flow	16.0	(Yes) No
			Meter	184176.90	(Yes) No
1301	TW4-11	92.34	Flow	16.0	(Yes) No
			Meter	38624.60	(Yes) No
1150	TW4-21	64.30	Flow	16.0	(Yes) No
			Meter	843546.09	(Yes) No
1226	TW4-37	63.90	Flow	17.0	(Yes) No
			Meter	767138.40	(Yes) No
1240	TW4-39	62.02	Flow	18.0	(Yes) No
			Meter	95520.00	(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 3/13/17 **Name** Garrin Palmer / Tanner Holliday

Time	Well	Depth*	Comments		System Operational (If no note any problems/corrective actions)
1027	MW-4	81.45	Flow	4.5	(Yes) No
			Meter	1295464.60	(Yes) No
1017	MW-26	70.00	Flow	12.5	(Yes) No
			Meter	153823.70	(Yes) No
1042	TW4-19	64.89	Flow	18.0	(Yes) No
			Meter	804647.70	(Yes) No
1010	TW4-20	64.90	Flow	6.6	Yes (No)
			Meter	179022.40	Yes (No)
1035	TW4-4	74.86	Flow	17.0	(Yes) No
			Meter	473366.60	(Yes) No
1001	TWN-2	36.88	Flow	18.5	(Yes) No
			Meter	785327.90	(Yes) No
1007	TW4-22	59.83	Flow	17.6	(Yes) No
			Meter	400536.60	(Yes) No
1004	TW4-24	63.20	Flow	14.0	(Yes) No
			Meter	397572.27	(Yes) No
0957	TW4-25	60.30	Flow	14.0	(Yes) No
			Meter	1849887.70	(Yes) No
1031	TW4-1	98.51	Flow	16.0	(Yes) No
			Meter	178994.46	(Yes) No
1024	TW4-2	89.25	Flow	16.5	(Yes) No
			Meter	185106.70	(Yes) No
1021	TW4-11	92.40	Flow	16.0	(Yes) No
			Meter	38778.70	(Yes) No
0953	TW4-21	63.94	Flow	15.0	(Yes) No
			Meter	843586.80	(Yes) No
1014	TW4-37	62.61	Flow	17.0	Yes (No)
			Meter	771294.70	Yes (No)
	TW4-39	72.50	Flow	17.2	(Yes) No
			Meter	98684.30	(Yes) No

Operational Problems (Please list well number): No power to TW4-20, TW4-37.

Corrective Action(s) Taken (Please list well number): Power was restored at 1120 on 3/13/17.

* Depth is measured to the nearest 0.01 feet.

Weekly Inspection Form

Date 3/23/17 **Name** Garrin Palmer, Tanner Holliday

Time	Well	Depth*	Comments		System Operational (If no note any problems/corrective actions)
1255	MW-4	77.65	Flow	4.4	(Yes) No
			Meter	1303822.65	(Yes) No
1248	MW-26	82.34	Flow	10.2	(Yes) No
			Meter	156706.40	(Yes) No
1405	TW4-19	65.21	Flow	18.0	(Yes) No
			Meter	817052.20	(Yes) No
1242	TW4-20	64.23	Flow	6.4	(Yes) No
			Meter	180419.66	(Yes) No
1301	TW4-4	72.78	Flow	17.0	(Yes) No
			Meter	475845.10	(Yes) No
1230	TWN-2	43.51	Flow	18.5	(Yes) No
			Meter	790326.60	(Yes) No
1236	TW4-22	59.46	Flow	17.4	(Yes) No
			Meter	403104.70	(Yes) No
1233	TW4-24	82.60	Flow	14.0	(Yes) No
			Meter	403250.74	(Yes) No
1227	TW4-25	59.82	Flow	14.4	(Yes) No
			Meter	1849896.80	(Yes) No
1251	TW4-1	101.60	Flow	16.0	(Yes) No
			Meter	180831.70	(Yes) No
1258	TW4-2	103.49	Flow	16.0	(Yes) No
			Meter	187216.60	(Yes) No
1304	TW4-11	93.20	Flow	16.0	(Yes) No
			Meter	39195.60	(Yes) No
1223	TW4-21	63.38	Flow	16.0	(Yes) No
			Meter	843594.14	(Yes) No
1239	TW4-37	63.20	Flow	17.5	(Yes) No
		~~63.20~~	Meter	781902.20	(Yes) No
1245	TW4-39	61.09	Flow	18.0	(Yes) No
			Meter	10332.44	(Yes) No

Operational Problems (Please list well number): _____

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

* Depth is measured to the nearest 0.01 feet.

Weekly Inspection Form

Date 3/28/17 **Name** Gerrin Palmer, Tanner Holliday

Time	Well	Depth*	Comments		System Operational (If no note any problems/corrective actions)
1516	MW-4	77.92	Flow	4.5	(Yes) No
			Meter	1308171.17	(Yes) No
1506	MW-26	65.70	Flow	10.0	(Yes) No
			Meter	158188.90	(Yes) No
1550	TW4-19	66.70	Flow	18.0	(Yes) No
			Meter	822929.50	(Yes) No
1500	TW4-20	65.13	Flow	6.5	(Yes) No
			Meter	181896.18	(Yes) No
1523	TW4-4	73.25	Flow	17.0	(Yes) No
			Meter	477135.80	(Yes) No
1447	TWN-2	38.90	Flow	18.5	(Yes) No
			Meter	792887.80	(Yes) No
1453	TW4-22	60.00	Flow	16.6	(Yes) No
			Meter	404426.60	(Yes) No
1450	TW4-24	62.31	Flow	14.2	(Yes) No
			Meter	406155.20	(Yes) No
1444	TW4-25	59.90	Flow	14.4	(Yes) No
			Meter	1849896.80	(Yes) No
1520	TW4-1	89.22	Flow	15.0	(Yes) No
			Meter	181121.29	(Yes) No
1512	TW4-2	78.25	Flow	17.0	(Yes) No
			Meter	188209.60	(Yes) No
1509	TW4-11	92.34	Flow	16.0	(Yes) No
			Meter	39261.50	(Yes) No
1140	TW4-21	105.40	Flow	16.0	(Yes) No
			Meter	843594.70	(Yes) No
1457	TW4-37	63.60	Flow	17.0	(Yes) No
			Meter	787238.00	(Yes) No
1503	TW4-39	61.25	Flow	18.0	(Yes) No
			Meter	106707.10	(Yes) No

Operational Problems (Please list well number): _____

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

* Depth is measured to the nearest 0.01 feet.

Tab D

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

NAME: Garrin Palmer, Tanner Holliday

3/30/2017

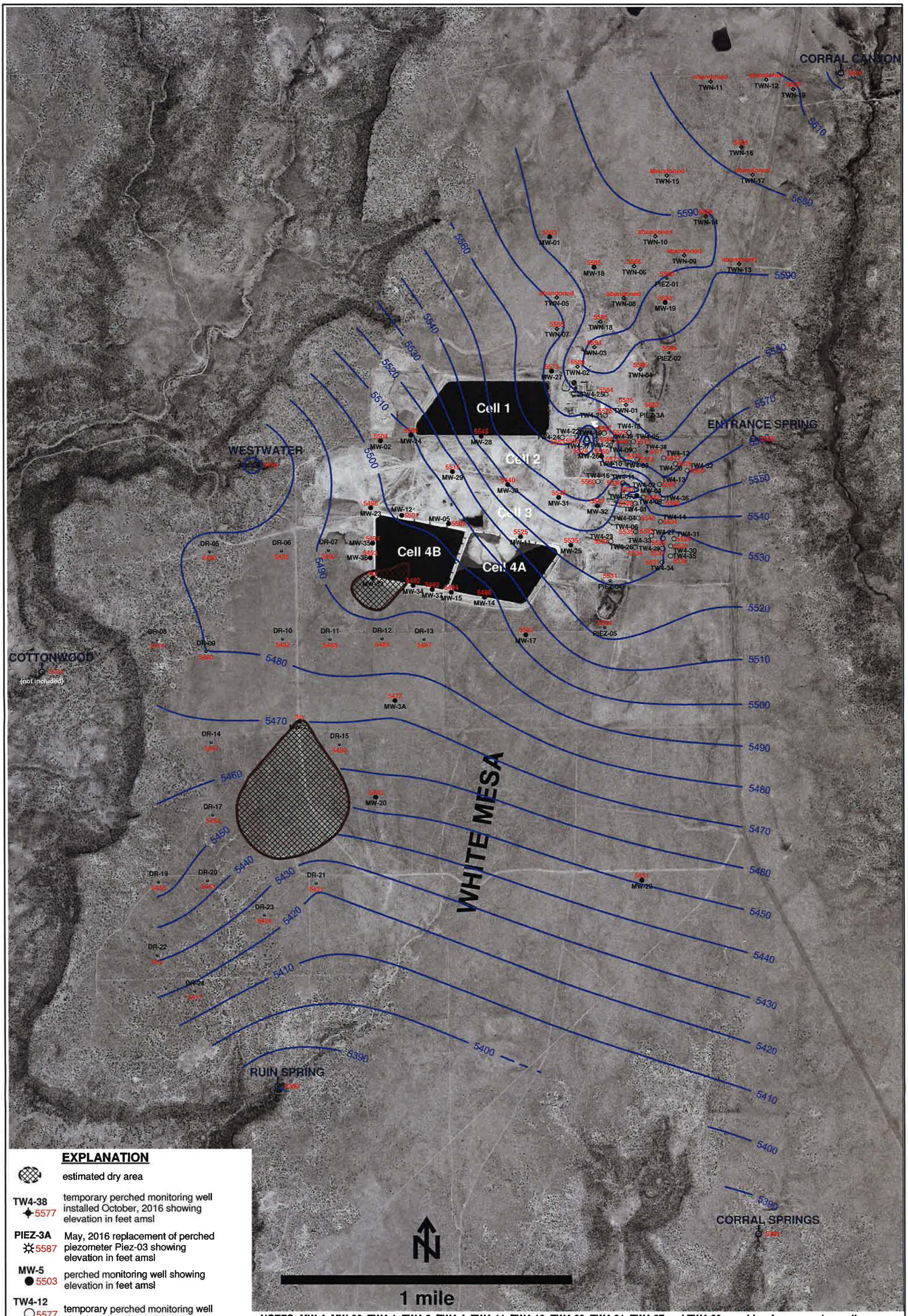
Time	Well	Depth to Water (ft.)
1345	MW-1	64.22
1400	MW-2	109.50
NA	MW-3	Abandoned
1026	MW-3A	84.30
1410	MW-5	105.80
1408	MW-11	86.01
1413	MW-12	107.81
1410	MW-14	102.43
1413	MW-15	105.60
1044	MW-17	71.64
1342	MW-18	72.07
1324	MW-19	62.51
1056	MW-20	85.38
1019	MW-22	66.42
1415	MW-23	113.93
1412	MW-24	112.80
1055	MW-25	77.63
1309	MW-26	65.60
1307	MW-27	54.20
1356	MW-28	74.61
1404	MW-29	99.95
1406	MW-30	74.69
1402	MW-31	68.10
1339	MW-32	77.90
1440	MW-33	DRY
1420	MW-34	107.46
1417	MW-35	111.96
1419	MW-36	110.14
1340	MW-37	107.02

Time	Well	Depth to Water (ft.)
1343	MW-4	80.28
1344	TW4-1	90.66
1347	TW4-2	88.11
1351	TW4-3	58.00
1345	TW4-4	73.96
1354	TW4-5	65.67
1346	TW4-6	73.30
1344	TW4-7	75.00
1348	TW4-8	79.70
1356	TW4-9	63.60
1358	TW4-10	63.15
1406	TW4-11	85.14
1319	TW4-12	47.23
1325	TW4-13	52.70
1330	TW4-14	78.80
1309	TW4-15	65.60
1341	TW4-16	64.49
1339	TW4-17	77.90
1302	TW4-18	66.55
1452	TW4-19	64.52
1440	TW4-20	65.26
1304	TW4-21	64.82
1403	TW4-22	61.01
1336	TW4-23	70.46
1402	TW4-24	62.56
1409	TW4-25	60.47
1334	TW4-26	67.71
1306	TW4-27	79.09
1321	TW4-28	41.08
1317	TW4-29	74.44
1310	TW4-30	75.16
1308	TW4-31	78.10
1323	TW4-32	51.70
1303	TW4-33	73.45
1315	TW4-34	72.55
1312	TW4-35	74.00
1328	TW4-36	56.16
1416	TW4-37	107.80
1352	TW4-38	53.37
1359	TW4-39	61.99

Time	Well	Depth to Water (ft.)
1328	PIEZ-1	65.28
1322	PIEZ-2	40.00
1317	PIEZ-3A	51.11
1051	PIEZ-4	60.60
1049	PIEZ-5	60.21
1304	TWN-1	63.35
1310	TWN-2	37.64
1312	TWN-3	40.30
1315	TWN-4	55.52
NA	TWN-5	Abandoned
1339	TWN-6	78.54
1348	TWN-7	84.30
NA	TWN-8	Abandoned
NA	TWN-9	Abandoned
NA	TWN-10	Abandoned
NA	TWN-11	Abandoned
NA	TWN-12	Abandoned
NA	TWN-13	Abandoned
1332	TWN-14	60.57
NA	TWN-15	Abandoned
1334	TWN-16	47.27
NA	TWN-17	Abandoned
1310	TWN-18	60.46
1237	TWN-19	52.92

Time	Well	Depth to Water (ft.)
NA	DR-1	Abandoned
NA	DR-2	Abandoned
1216	DR-5	82.85
1219	DR-6	94.13
1424	DR-7	91.80
1227	DR-8	51.22
1224	DR-9	86.20
1222	DR-10	78.30
1036	DR-11	98.01
1033	DR-12	91.34
1040	DR-13	69.75
1048	DR-14	76.02
1052	DR-15	92.63
NA	DR-16	Abandoned
1044	DR-17	64.62
NA	DR-18	Abandoned
1033	DR-19	62.90
1031	DR-20	55.37
1025	DR-21	100.75
1037	DR-22	DRY
1027	DR-23	70.27
1039	DR-24	44.02
NA	DR-25	Abandoned

Comments:



EXPLANATION

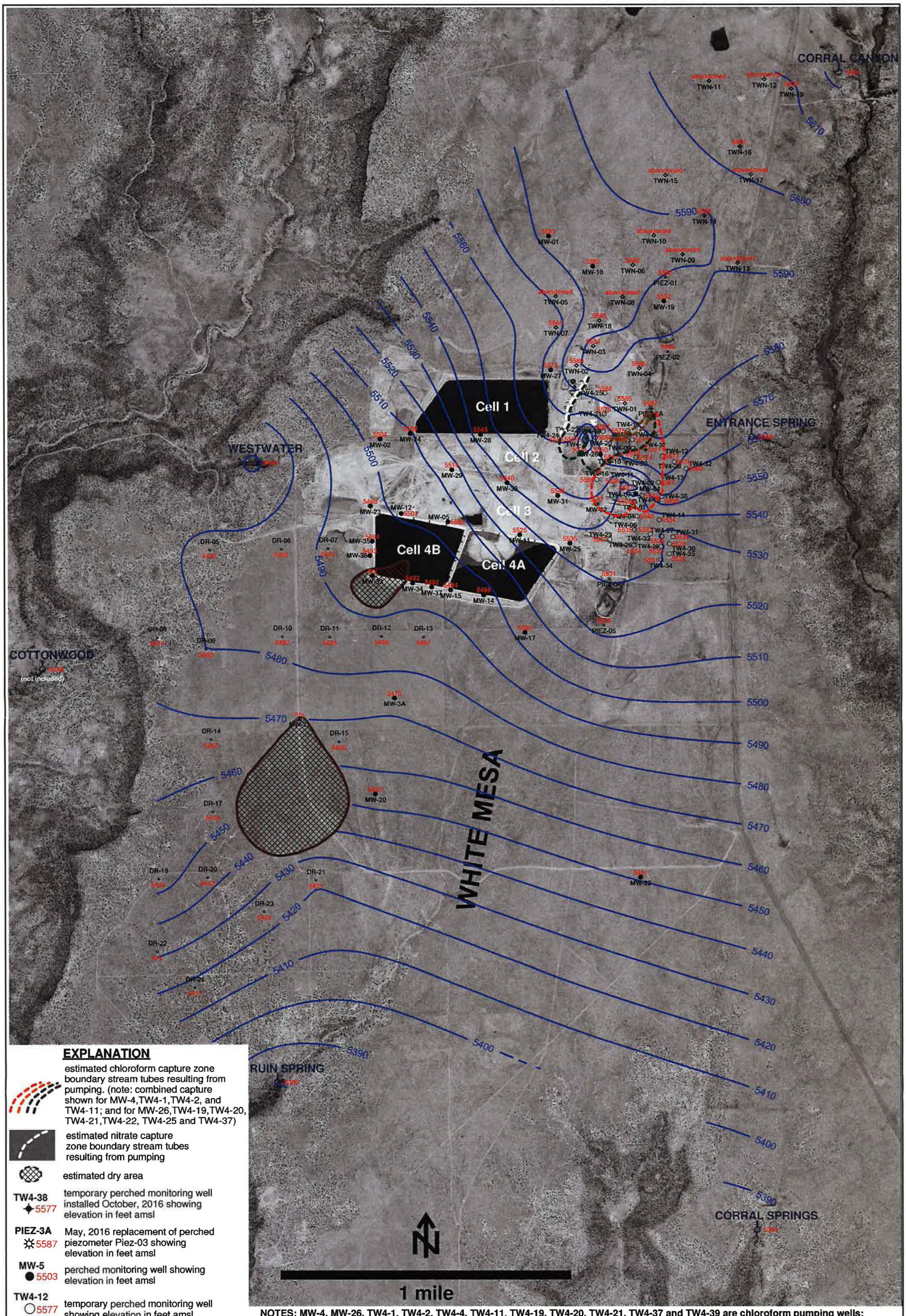
- estimated dry area
- TW4-38 ✦ 5577 — temporary perched monitoring well installed October, 2016 showing elevation in feet amsl
- PIEZ-3A ☼ 5587 — May, 2016 replacement of perched piezometer Piez-03 showing elevation in feet amsl
- MW-5 ● 5503 — perched monitoring well showing elevation in feet amsl
- TW4-12 ○ 5577 — temporary perched monitoring well showing elevation in feet amsl
- TWN-7 ◇ 5565 — 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

HYDRO GEO CHEM, INC.

KRIGED 1st QUARTER, 2017 WATER LEVELS WHITE MESA SITE

APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/may17/WL/Uwl0317.srf	D-1



EXPLANATION

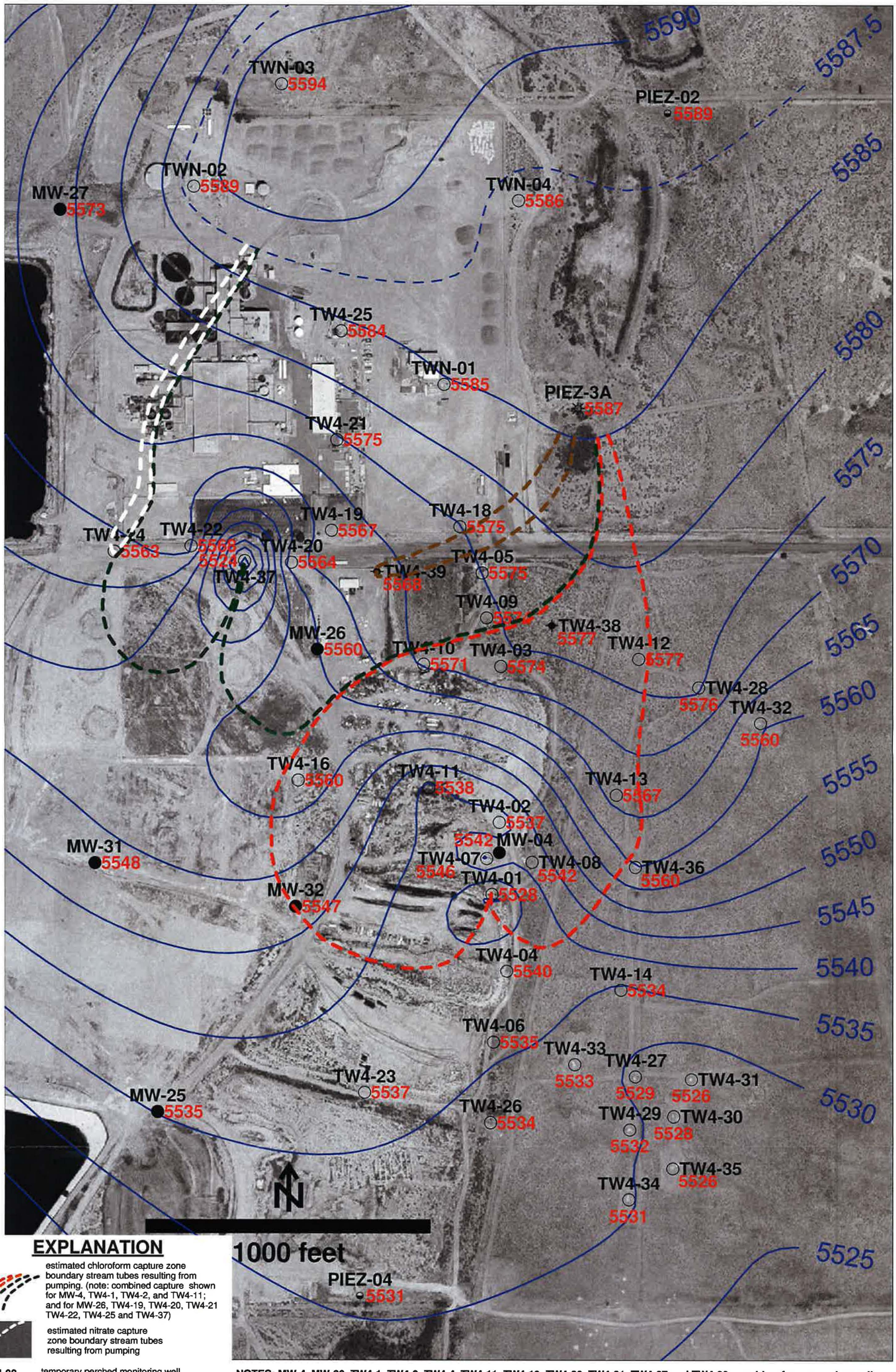
- estimated chloroform capture zone boundary stream tubes resulting from pumping. (note: combined capture shown for MW-4,TW4-1,TW4-2, and TW4-11; and for MW-26,TW4-19,TW4-20, TW4-21,TW4-22, TW4-25 and TW4-37)
- estimated nitrate capture zone boundary stream tubes resulting from pumping
- estimated dry 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** 5565 — 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

HYDRO GEO CHEM, INC.

KRIGED 1st QUARTER, 2017 WATER LEVELS AND ESTIMATED CAPTURE ZONES WHITE MESA SITE

APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/may17/WL/Uwl0317cz2.srf	D-2



EXPLANATION

estimated chloroform capture zone boundary stream tubes resulting from pumping. (note: combined capture shown for MW-4, TW4-1, TW-2, and TW4-11; and for MW-26, TW4-19, TW4-20, TW4-21 TW4-22, TW4-25 and TW4-37)

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 ○ 5546 — temporary perched monitoring well showing elevation in feet amsl

PIEZ-2 ⊖ 5589 — perched piezometer showing elevation in feet amsl

NOTES: MW-4, MW-26, TW4-1, TW4-2, TW4-4, TW4-11, TW4-19, TW4-20, TW4-21, TW4-37 and TW4-39 are chloroform pumping wells; TW4-22, TW4-24, TW4-25 and TWN-2 are nitrate pumping wells

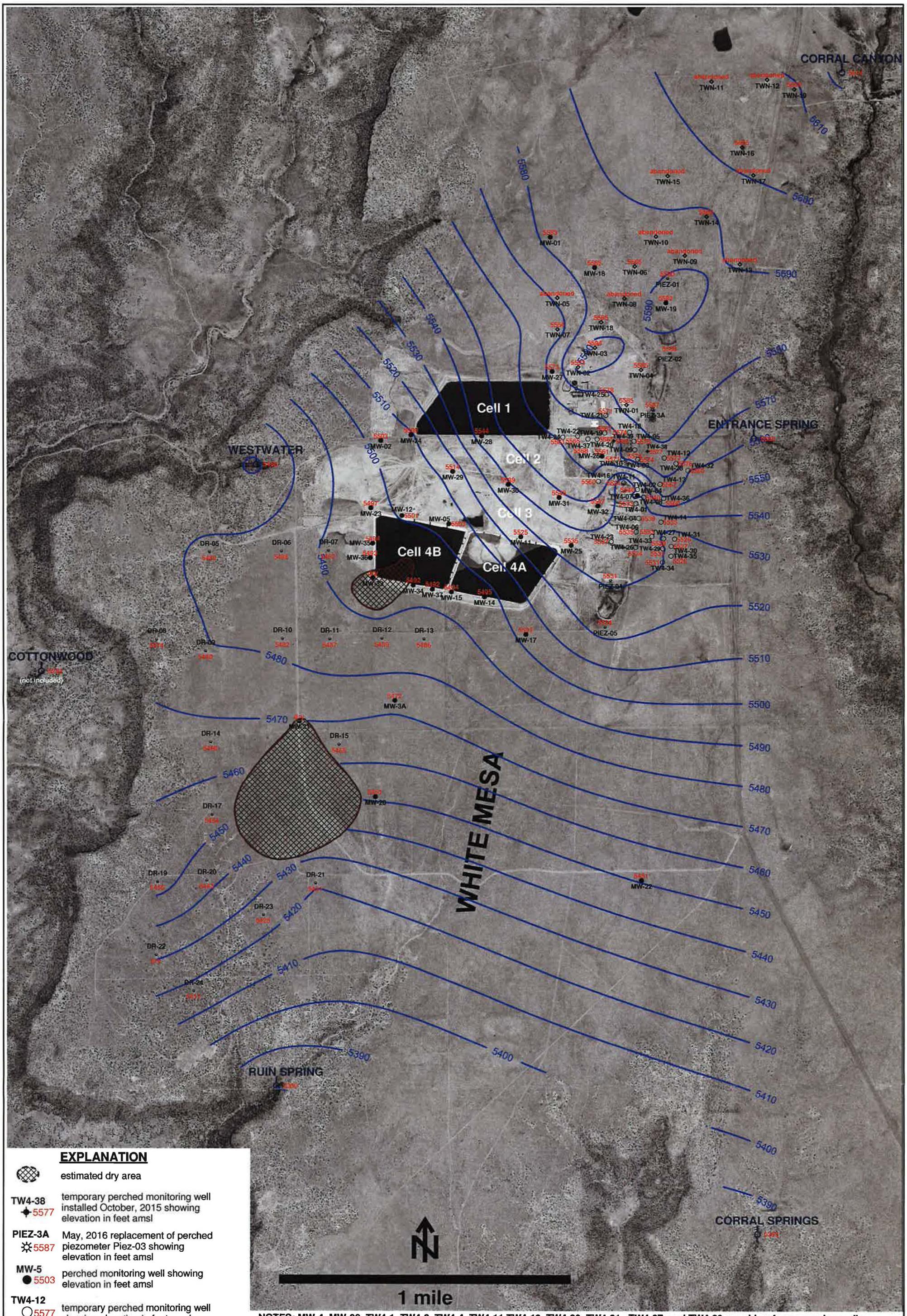
HYDRO GEO CHEM, INC.

KRIGED 1st QUARTER, 2017 WATER LEVELS AND ESTIMATED CAPTURE ZONES WHITE MESA SITE (detail map)

APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/may17/WL/Uwl0317cz.srf	D-3

Tab E

Kriged Previous Quarter Groundwater Contour Map



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	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	

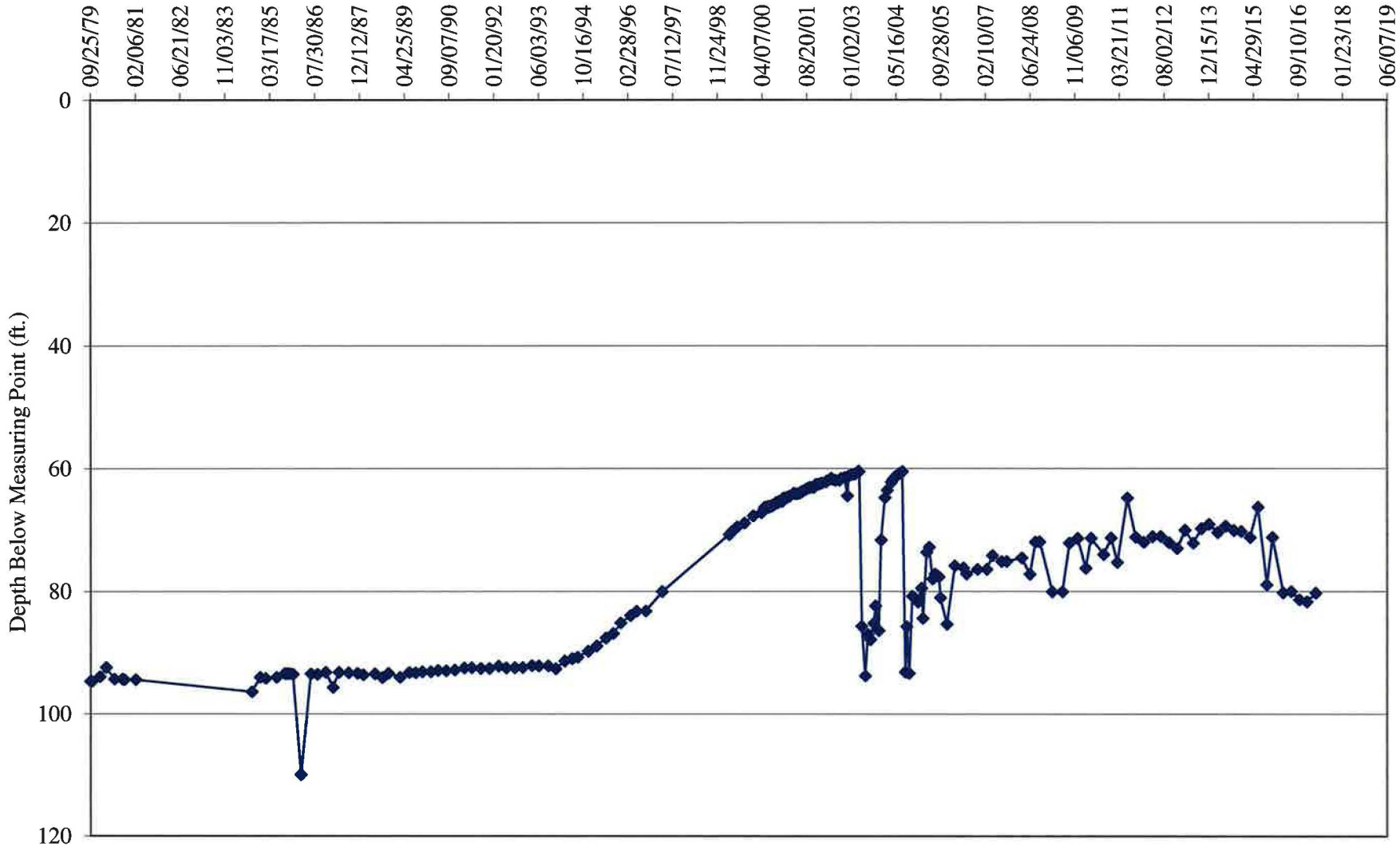
Water Levels and Data over Time
White Mesa Mill - Well MW4

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	
5,542.05				3/30/2017	80.28	78.72	

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	

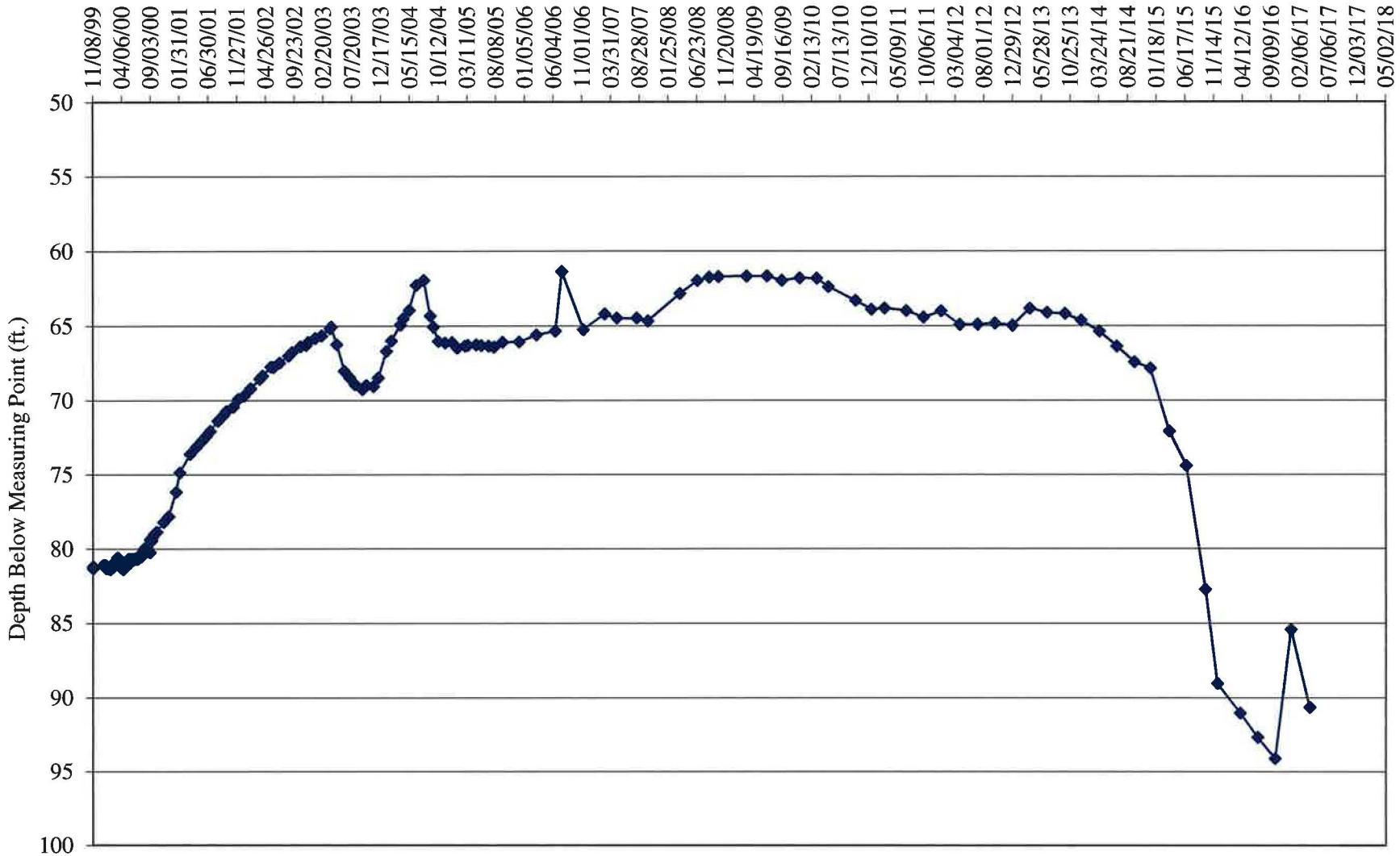
Water Levels and Data over Time
White Mesa Mill - Well TW4-1

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	
5,527.92				3/30/2017	90.66	89.64	

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	

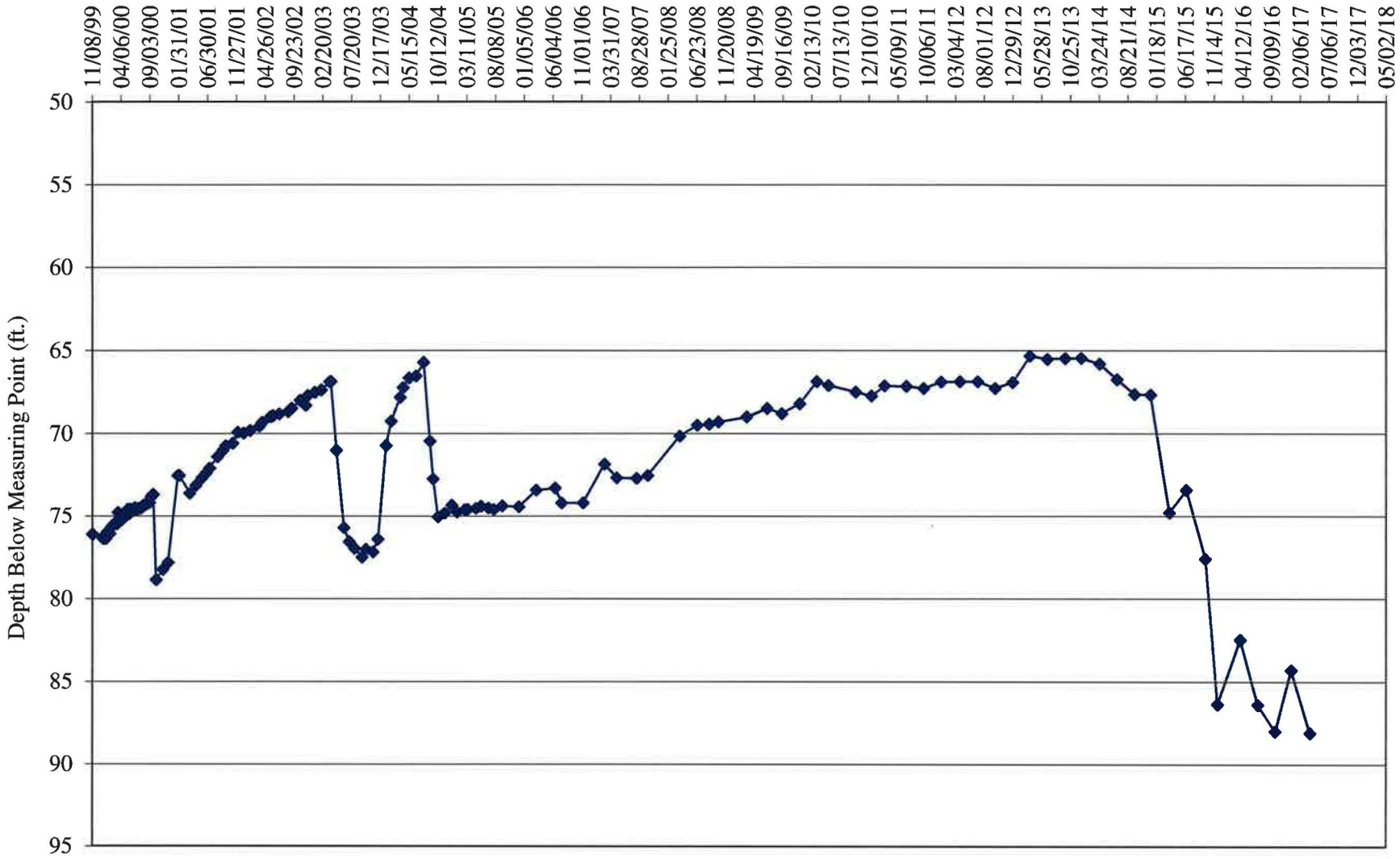
Water Levels and Data over Time
White Mesa Mill - Well TW4-2

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	
5,536.61				3/30/2017	88.11	86.49	

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	

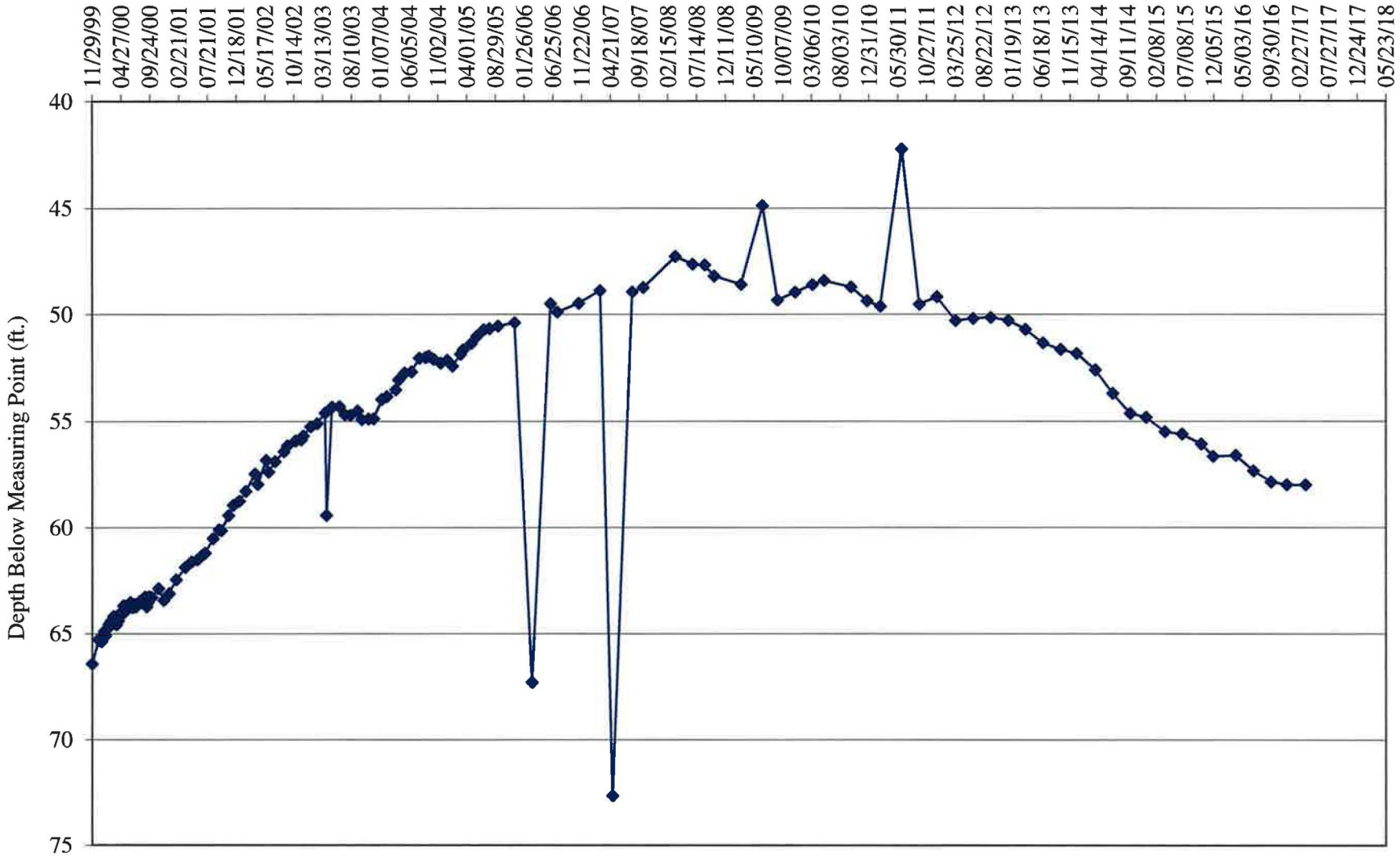
Water Levels and Data over Time
White Mesa Mill - Well TW4-3

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	
5,574.23				3/30/2017	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	

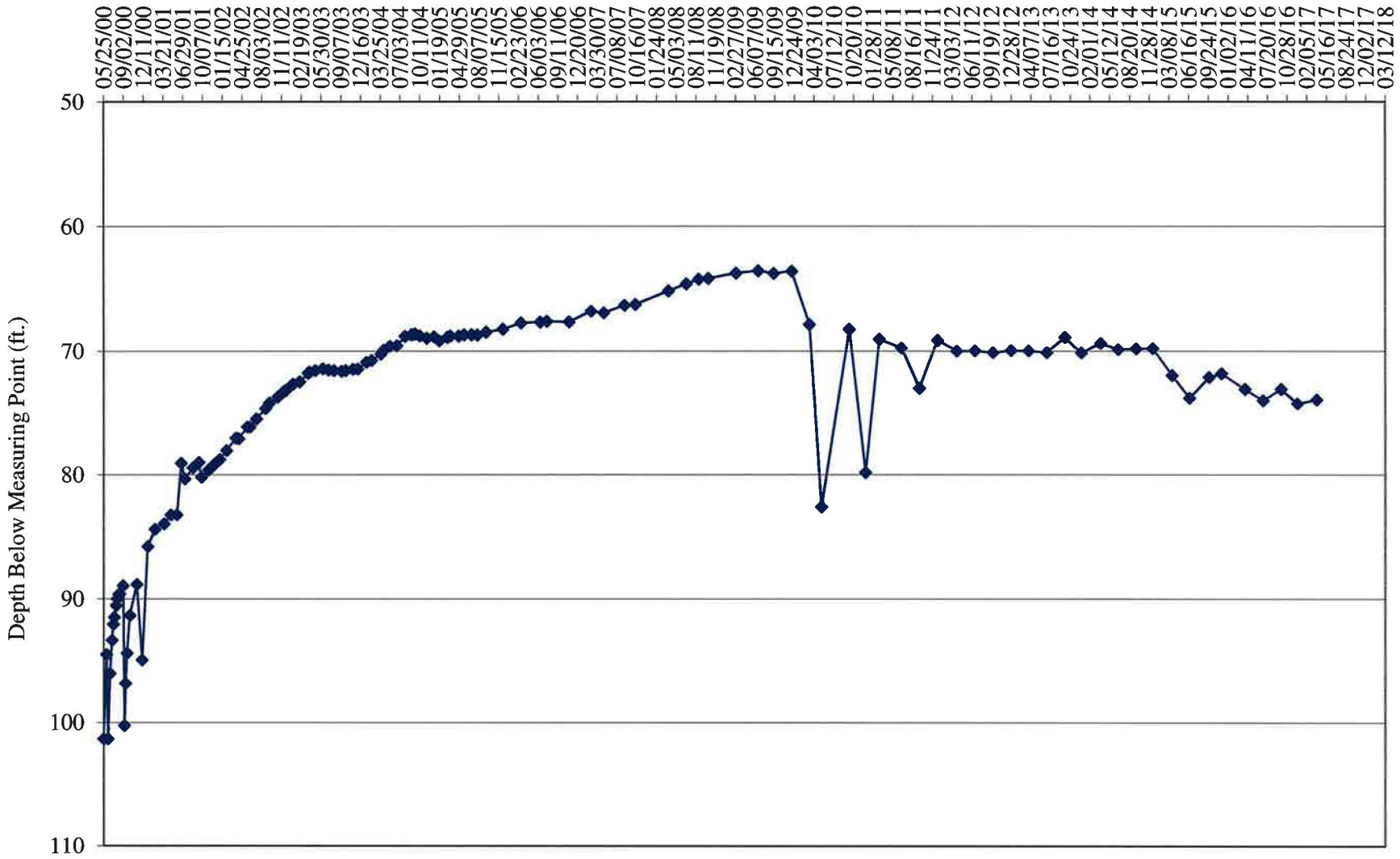
Water Levels and Data over Time
White Mesa Mill - Well TW4-4

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	
5,539.53				03/30/17	73.96	72.78	

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	

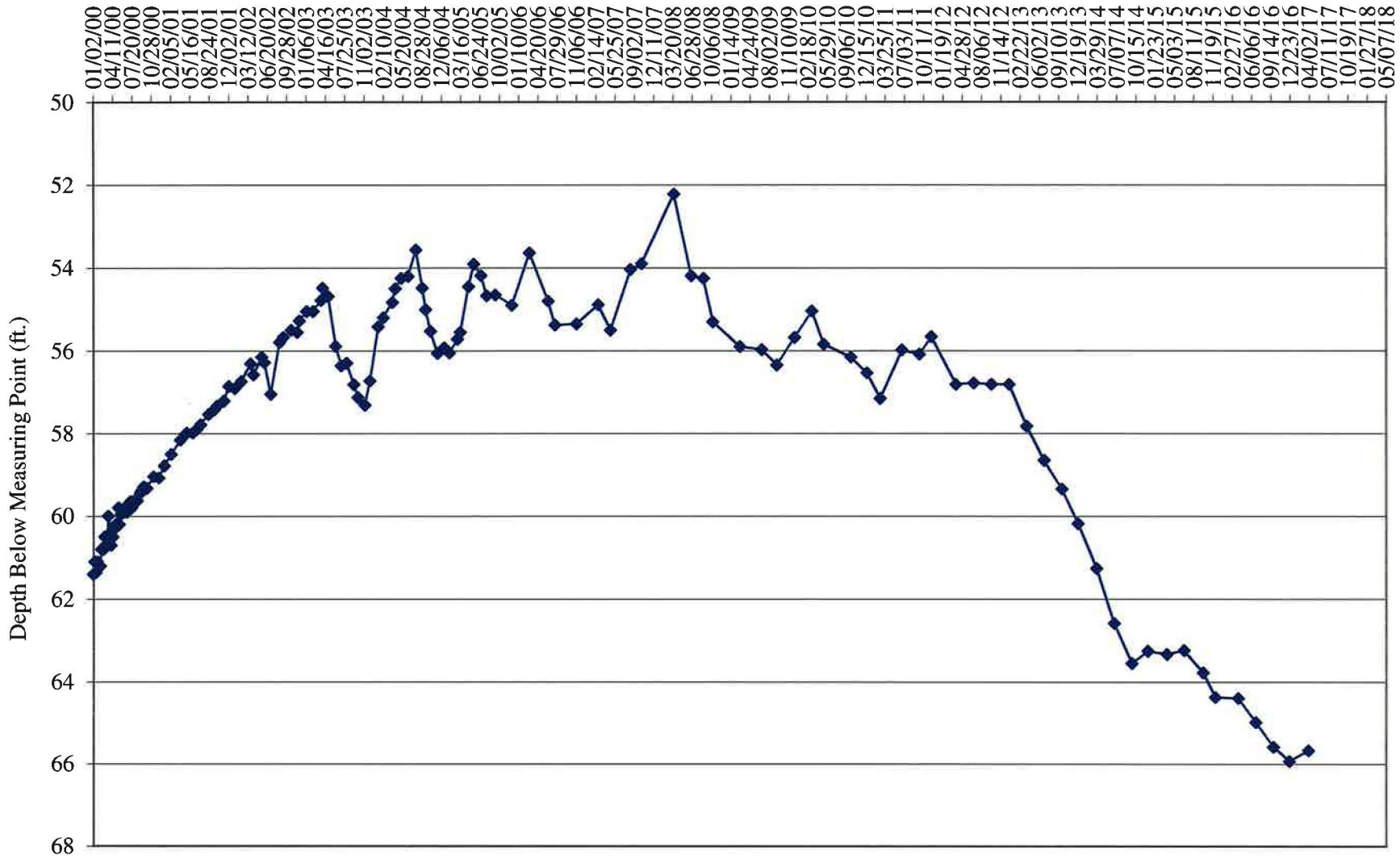
Water Levels and Data over Time
White Mesa Mill - Well TW4-5

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	
5,575.03				03/30/17	65.67	63.72	

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	

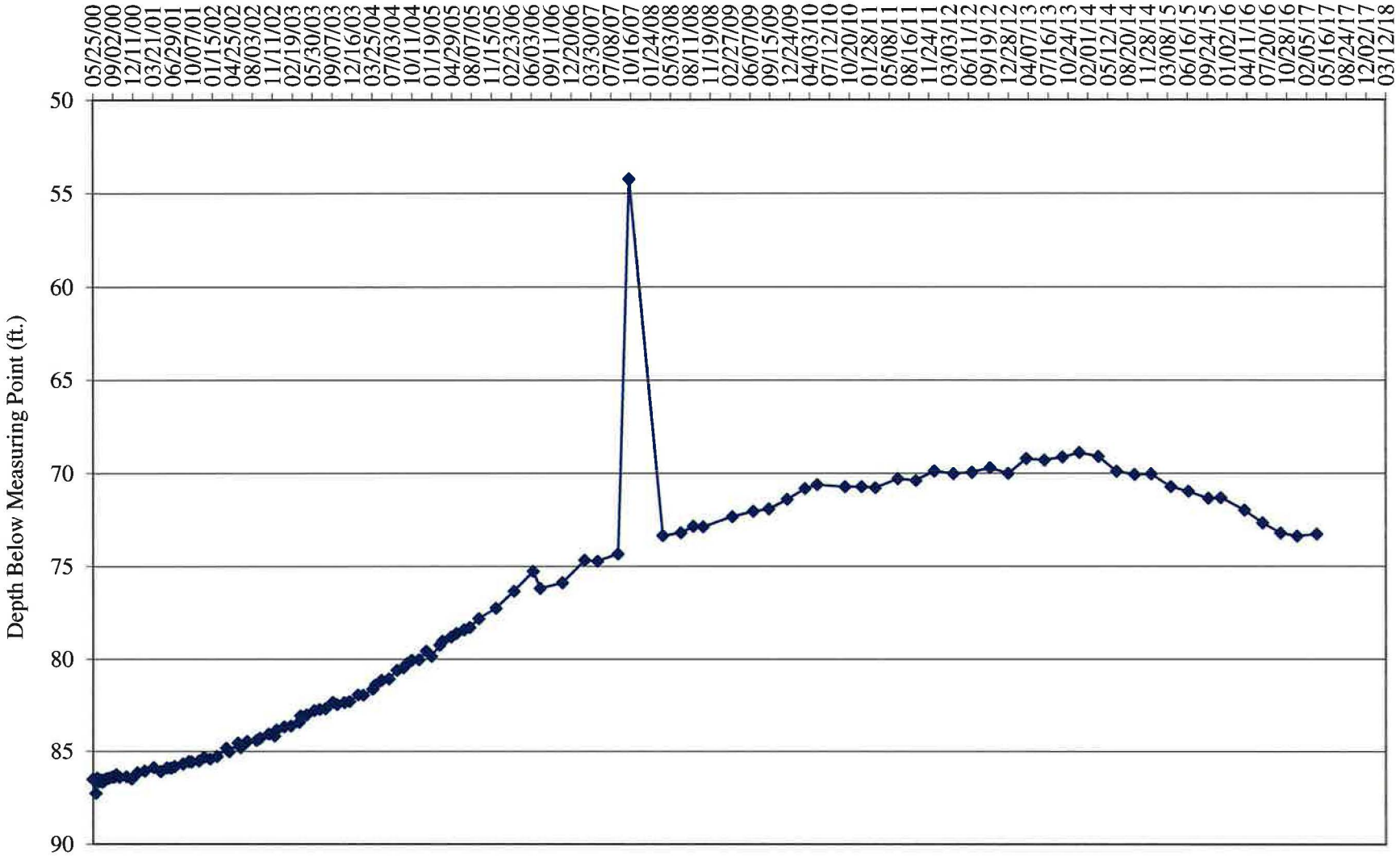
Water Levels and Data over Time
White Mesa Mill - Well TW4-6

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	
5,535.48				03/30/17	73.30	71.85	

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	

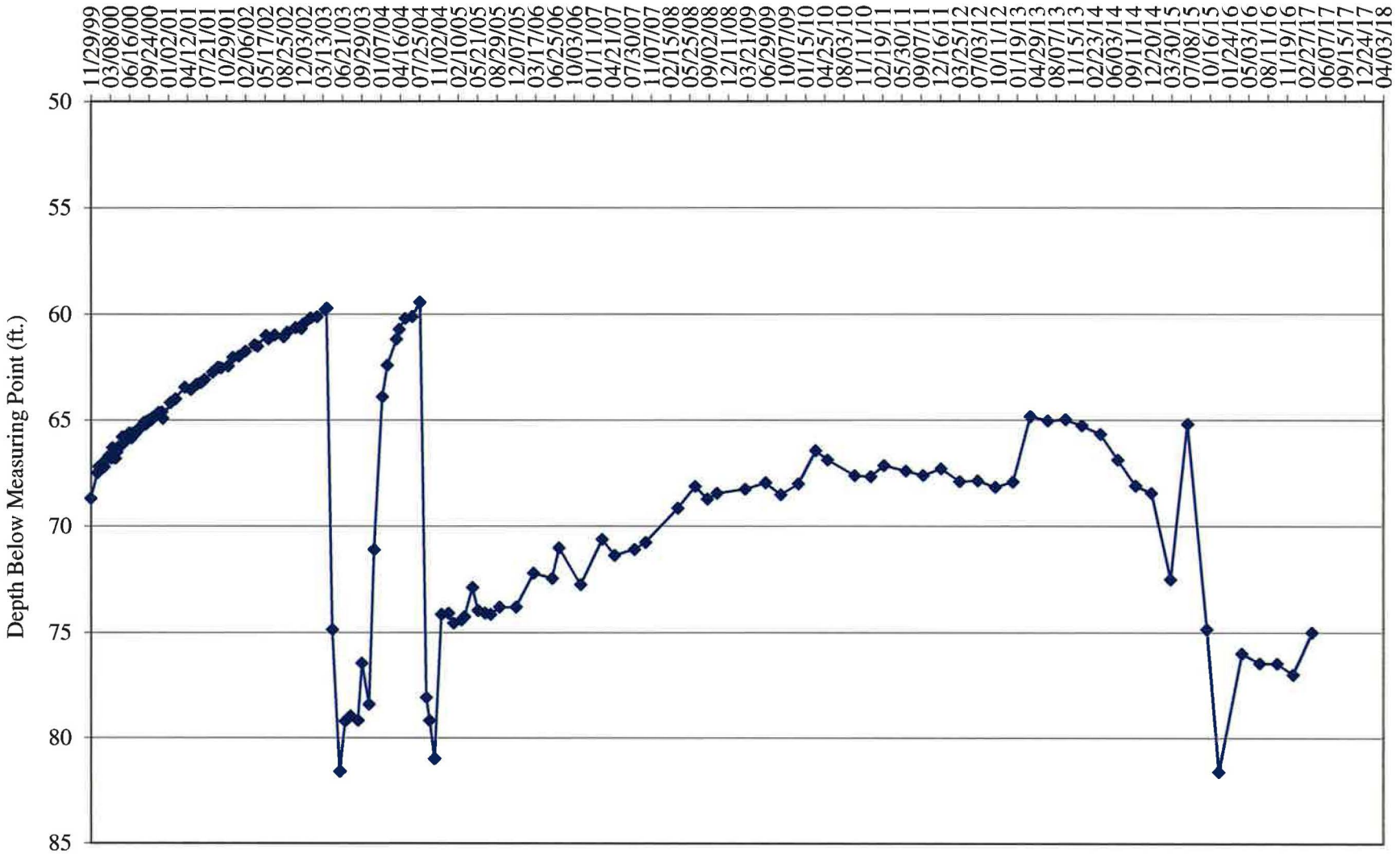
Water Levels and Data over Time
White Mesa Mill - Well TW4-7

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	
5,546.07				03/30/17	75.00	73.80	

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	

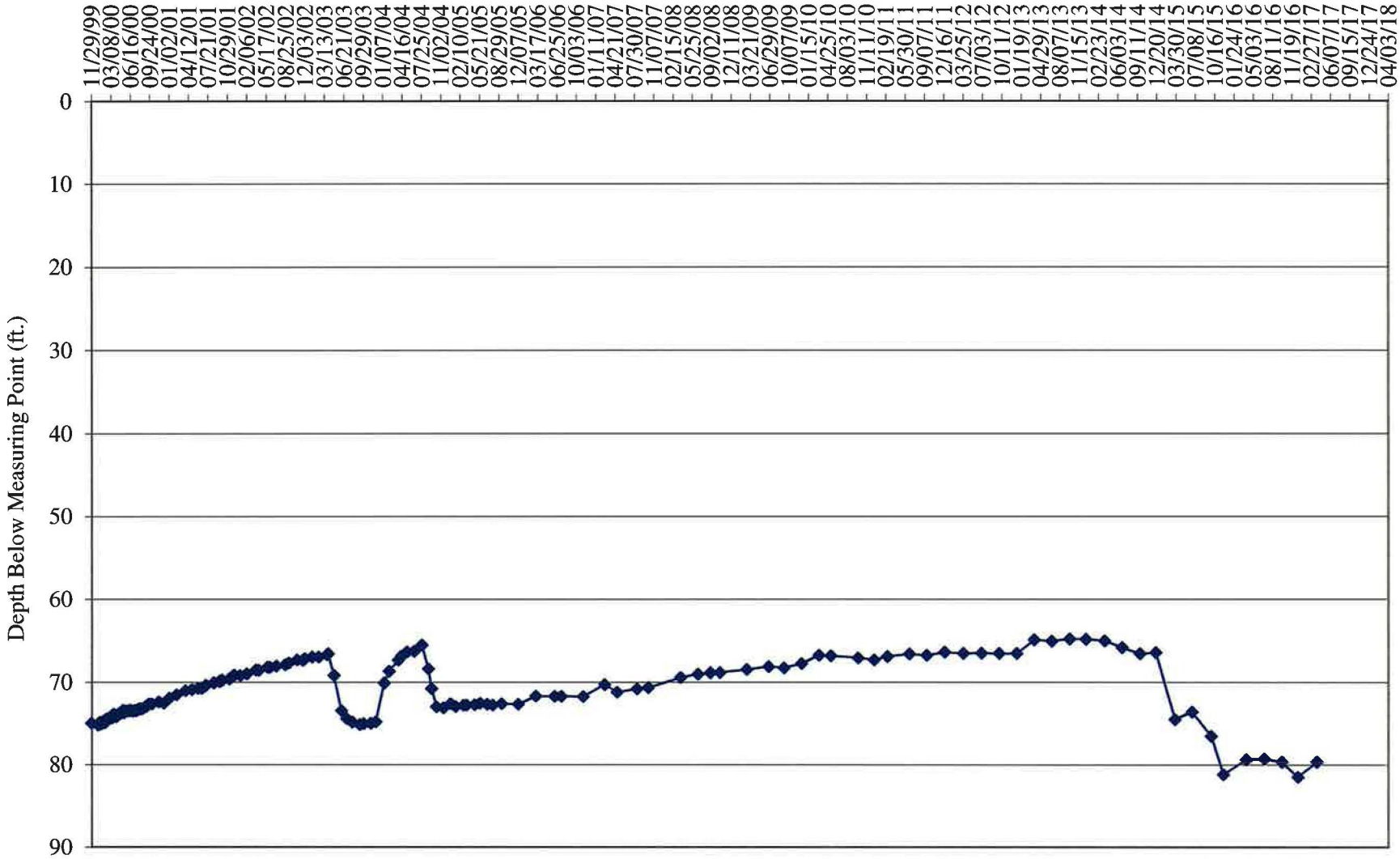
Water Levels and Data over Time
White Mesa Mill - Well TW4-8

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	
5,541.70				03/30/17	79.70	75.10	

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



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

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,636.11	5,637.59	1.48				121.33
5,577.09				12/20/99	60.50	59.02	
5,577.09				01/02/00	60.50	59.02	
5,577.29				01/10/00	60.30	58.82	
5,577.09				01/17/00	60.50	59.02	
5,577.39				01/24/00	60.20	58.72	
5,577.29				02/01/00	60.30	58.82	
5,577.19				02/07/00	60.40	58.92	
5,577.69				02/14/00	59.90	58.42	
5,577.69				02/23/00	59.90	58.42	
5,577.79				03/01/00	59.80	58.32	
5,577.79				03/08/00	59.80	58.32	
5,577.89				03/15/00	59.70	58.22	
5,568.49				03/20/00	69.10	67.62	
5,578.14				03/29/00	59.45	57.97	
5,577.84				04/04/00	59.75	58.27	
5,578.04				04/13/00	59.55	58.07	
5,578.24				04/21/00	59.35	57.87	
5,578.39				04/28/00	59.20	57.72	
5,578.39				05/01/00	59.20	57.72	
5,578.79				05/11/00	58.80	57.32	
5,578.39				05/15/00	59.20	57.72	
5,578.79				05/25/00	58.80	57.32	
5,578.81				06/09/00	58.78	57.30	
5,578.89				06/16/00	58.70	57.22	
5,578.74				06/26/00	58.85	57.37	
5,578.86				07/06/00	58.73	57.25	
5,578.87				07/13/00	58.72	57.24	
5,578.84				07/18/00	58.75	57.27	
5,579.03				07/27/00	58.56	57.08	
5,579.03				08/02/00	58.56	57.08	
5,579.05				08/09/00	58.54	57.06	
5,579.04				08/15/00	58.55	57.07	
5,579.25				08/31/00	58.34	56.86	
5,579.35				09/08/00	58.24	56.76	
5,579.40				09/13/00	58.19	56.71	
5,579.46				09/20/00	58.13	56.65	
5,579.44				10/05/00	58.15	56.67	
5,579.79				11/09/00	57.80	56.32	
5,579.73				12/06/00	57.86	56.38	
5,580.01				01/03/01	57.58	56.10	
5,580.30				02/09/01	57.29	55.81	
5,580.66				03/27/01	56.93	55.45	
5,580.75				04/30/01	56.84	55.36	

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

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,636.11	5,637.59	1.48				121.33
5,581.04				05/31/01	56.55	55.07	
5,581.12				06/21/01	56.47	54.99	
5,581.15				07/10/01	56.44	54.96	
5,581.51				08/20/01	56.08	54.60	
5,581.70				09/19/01	55.89	54.41	
5,581.61				10/02/01	55.98	54.50	
5,581.83				11/08/01	55.76	54.28	
5,582.17				12/03/01	55.42	53.94	
5,582.21				01/03/02	55.38	53.90	
5,582.57				02/06/02	55.02	53.54	
5,583.12				03/26/02	54.47	52.99	
5,582.77				04/09/02	54.82	53.34	
5,583.21				05/23/02	54.38	52.90	
5,582.94				06/05/02	54.65	53.17	
5,582.71				07/08/02	54.88	53.40	
5,583.67				08/23/02	53.92	52.44	
5,583.82				09/11/02	53.77	52.29	
5,584.01				10/23/02	53.58	52.10	
5,583.88				11/22/02	53.71	52.23	
5,583.81				12/03/02	53.78	52.30	
5,584.28				01/09/03	53.31	51.83	
5,584.41				02/12/03	53.18	51.70	
5,584.68				03/26/03	52.91	51.43	
5,584.49				04/02/03	53.10	51.62	
5,584.51				05/01/03	53.08	51.60	
5,583.59				06/09/03	54.00	52.52	
5,582.96				07/07/03	54.63	53.15	
5,582.98				08/04/03	54.61	53.13	
5,582.57				09/11/03	55.02	53.54	
5,582.25				10/02/03	55.34	53.86	
5,582.09				11/07/03	55.50	54.02	
5,582.48				12/03/03	55.11	53.63	
5,583.69				01/15/04	53.90	52.42	
5,583.89				02/10/04	53.70	52.22	
5,584.30				03/28/04	53.29	51.81	
5,584.59				04/12/04	53.00	51.52	
5,584.87				05/13/04	52.72	51.24	
5,584.96				06/18/04	52.63	51.15	
5,585.50				07/28/04	52.09	50.61	
5,584.81				08/30/04	52.78	51.30	
5,584.40				09/16/04	53.19	51.71	
5,583.91				10/11/04	53.68	52.20	
5,583.39				11/16/04	54.20	52.72	

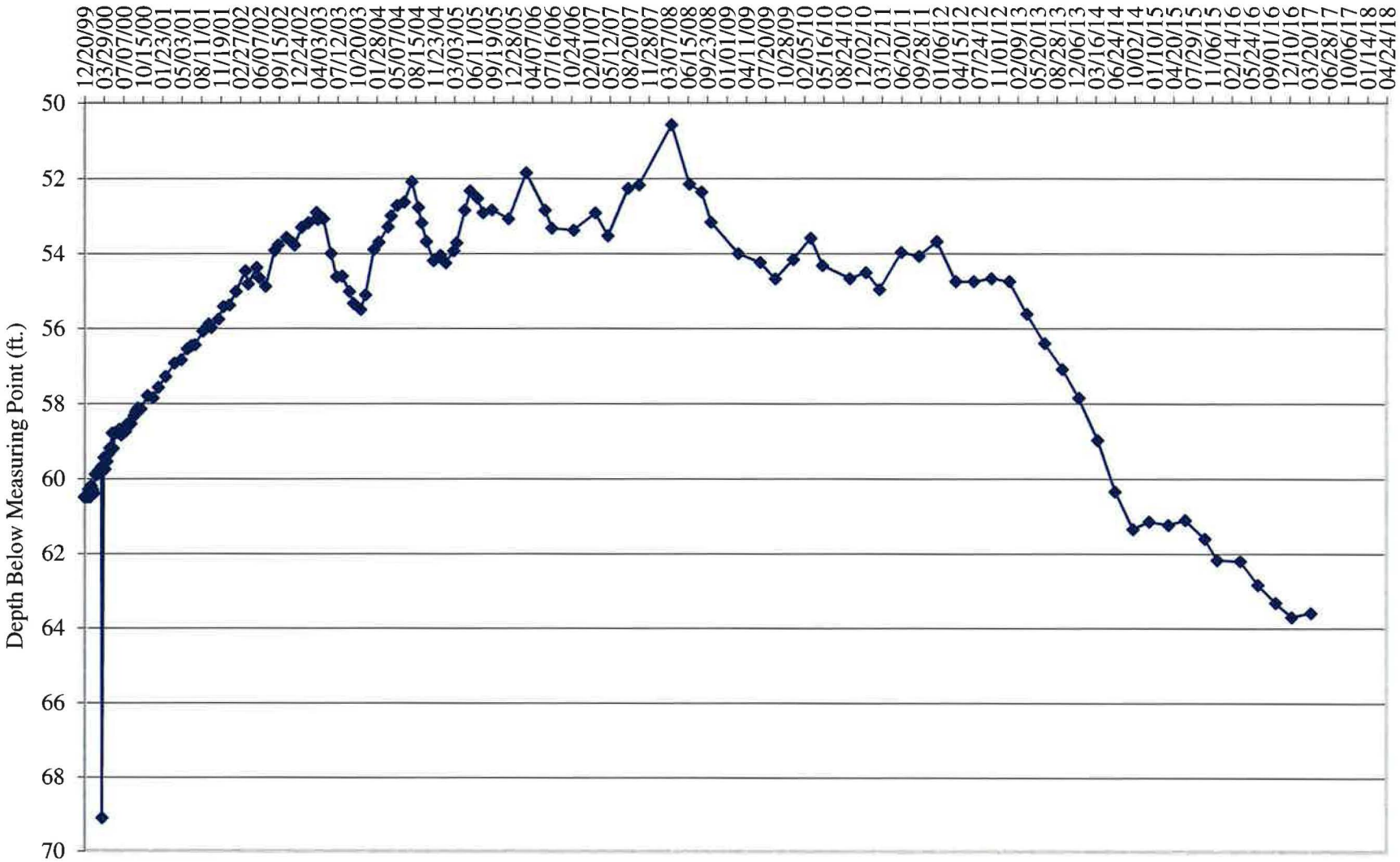
Water Levels and Data over Time
White Mesa Mill - Well TW4-9

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,636.11	5,637.59	1.48				121.33
5,583.54				12/22/04	54.05	52.57	
5,583.34				01/18/05	54.25	52.77	
5,583.66				02/28/05	53.93	52.45	
5,583.87				03/15/05	53.72	52.24	
5,584.74				04/26/05	52.85	51.37	
5,585.26				05/24/05	52.33	50.85	
5,585.06				06/30/05	52.53	51.05	
5,584.67				07/29/05	52.92	51.44	
5,584.75				09/12/05	52.84	51.36	
5,584.51				12/07/05	53.08	51.60	
5,585.74				03/08/06	51.85	50.37	
5,584.74				06/13/06	52.85	51.37	
5,584.26				07/18/06	53.33	51.85	
5,584.21				11/07/06	53.38	51.90	
5,584.67				02/27/07	52.92	51.44	
5,584.06				05/02/07	53.53	52.05	
5,585.33				08/14/07	52.26	50.78	
5,585.42				10/10/07	52.17	50.69	
5,587.01				03/26/08	50.58	49.10	
5,585.44				06/24/08	52.15	50.67	
5,585.23				08/26/08	52.36	50.88	
5,584.42				10/14/08	53.17	51.69	
5,583.59				03/03/09	54.00	52.52	
5,583.35				06/24/09	54.24	52.76	
5,582.91				09/10/09	54.68	53.20	
5,583.43				12/11/09	54.16	52.68	
5,584.00				03/11/10	53.59	52.11	
5,583.27				05/11/10	54.32	52.84	
5,582.92				09/29/10	54.67	53.19	
5,583.08				12/21/10	54.51	53.03	
5,582.63				02/28/11	54.96	53.48	
5,583.62				06/21/11	53.97	52.49	
5,583.52				09/20/11	54.07	52.59	
5,583.91				12/21/11	53.68	52.20	
5,582.84				03/27/12	54.75	53.27	
5,582.84				06/28/12	54.75	53.27	
5,582.92				09/27/12	54.67	53.19	
5,582.84				12/28/12	54.75	53.27	
5,581.97				03/28/13	55.62	54.14	
5,581.19				06/27/13	56.40	54.92	
5,580.50				09/27/13	57.09	55.61	
5,579.73				12/20/13	57.86	56.38	
5,578.61				03/27/14	58.98	57.50	

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

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,636.11	5,637.59	1.48				121.33
5,577.24				06/25/14	60.35	58.87	
5,576.24				09/25/14	61.35	59.87	
5,576.44				12/17/14	61.15	59.67	
5,576.35				03/26/15	61.24	59.76	
5,576.48				06/22/15	61.11	59.63	
5,575.98				09/30/15	61.61	60.13	
5,575.41				12/02/15	62.18	60.70	
5,575.38				03/30/16	62.21	60.73	
5,574.74				06/30/16	62.85	61.37	
5,574.26				09/29/16	63.33	61.85	
5,573.88				12/21/16	63.71	62.23	
5,573.99				03/30/17	63.60	62.12	

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	

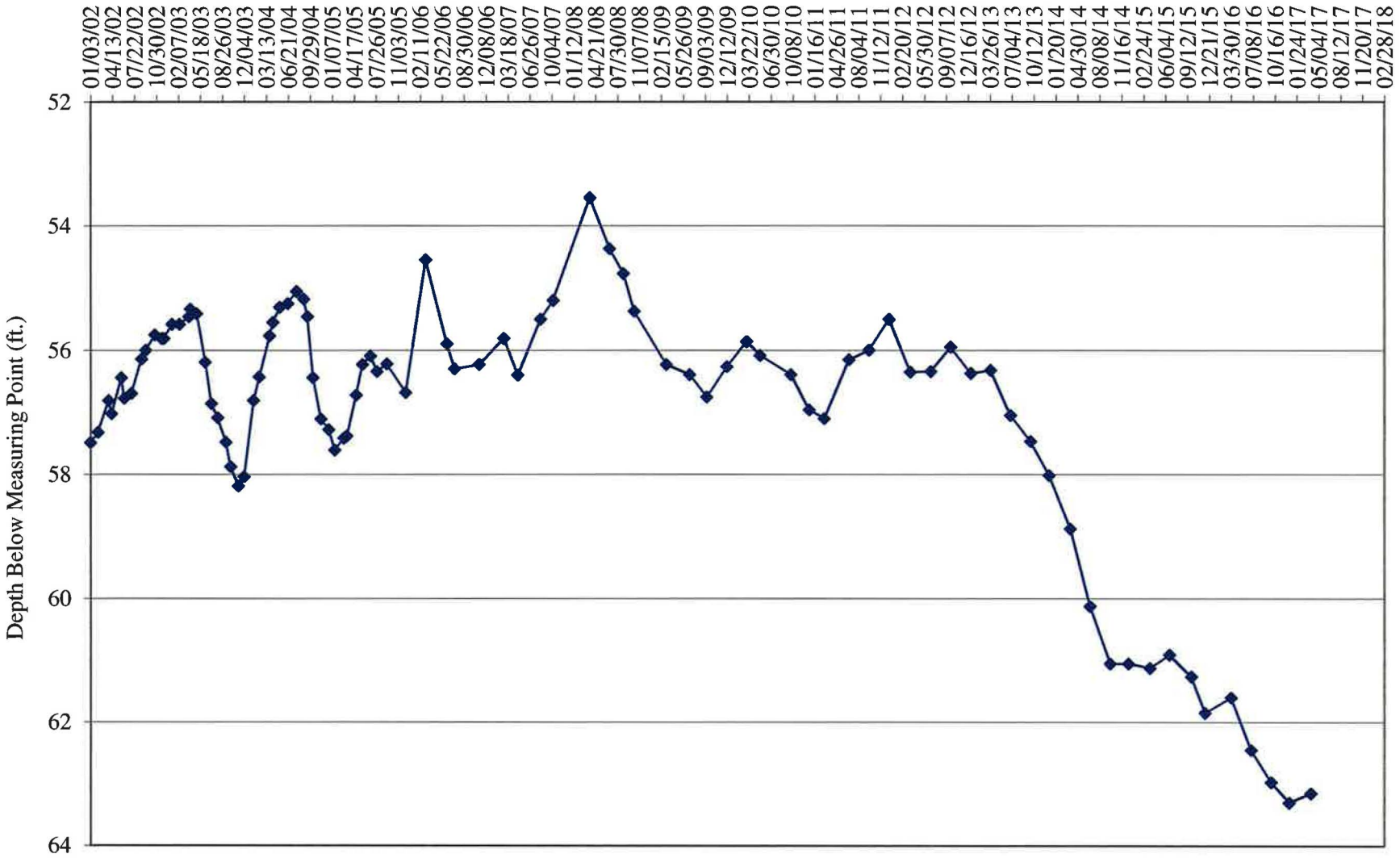
Water Levels and Data over Time
White Mesa Mill - Well TW4-10

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	
5,571.09				03/30/17	63.15	60.90	

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	

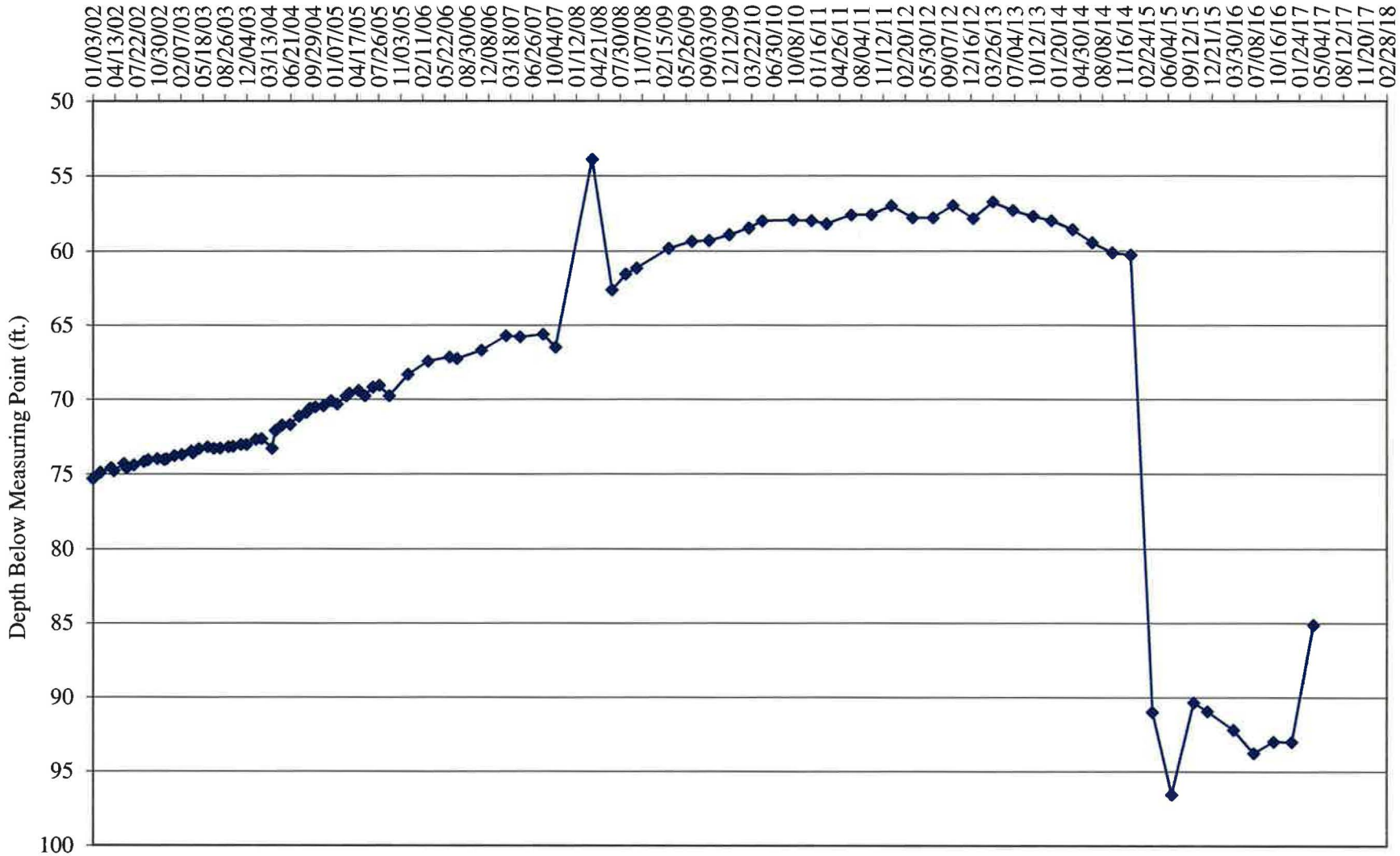
Water Levels and Data over Time
White Mesa Mill - Well TW4-11

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	
5,538.48				03/30/17	85.14	83.44	

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



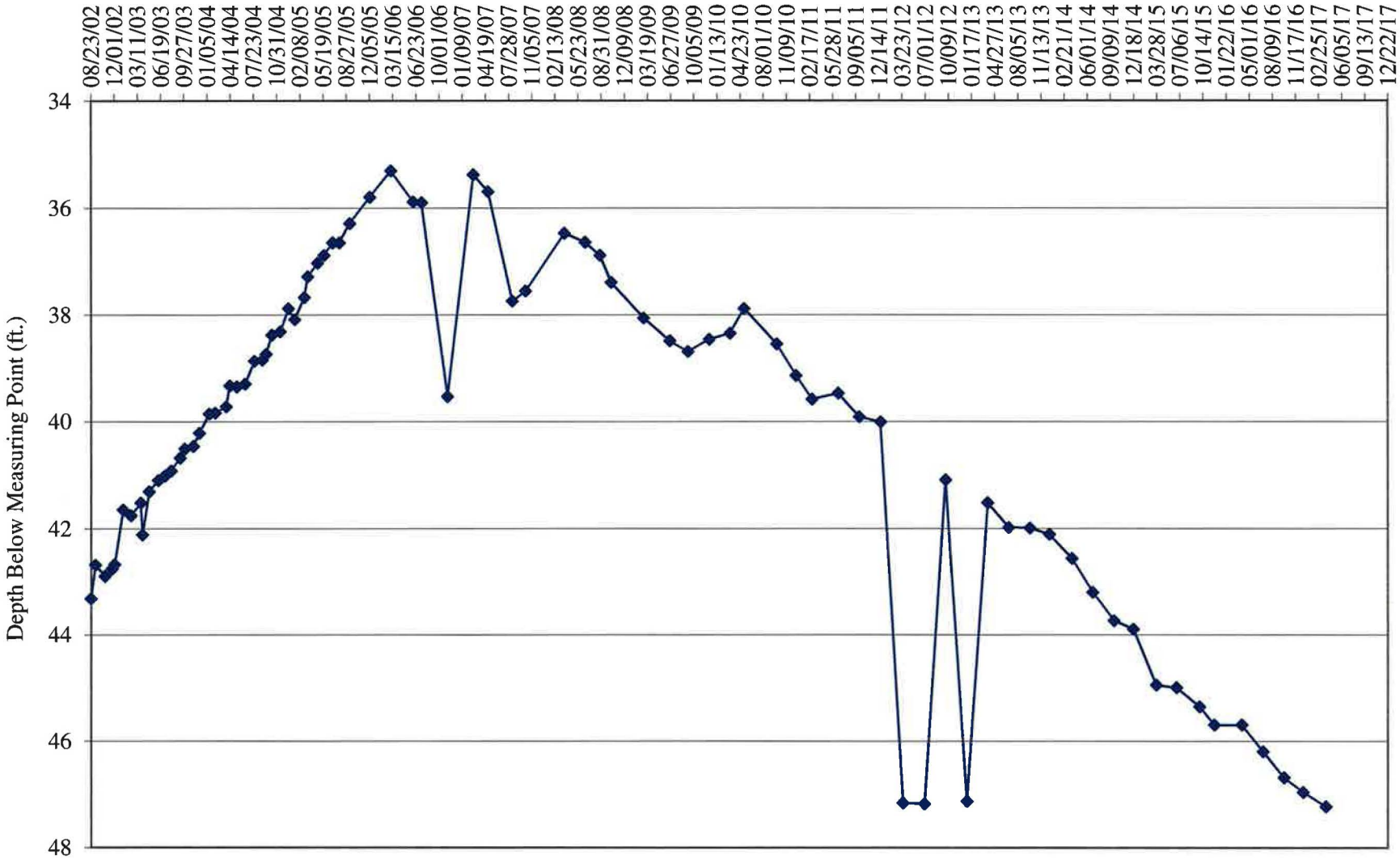
Water Levels and Data over Time
White Mesa Mill - Well TW4-12

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	
5,577.00				03/30/17	47.23	45.38	

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



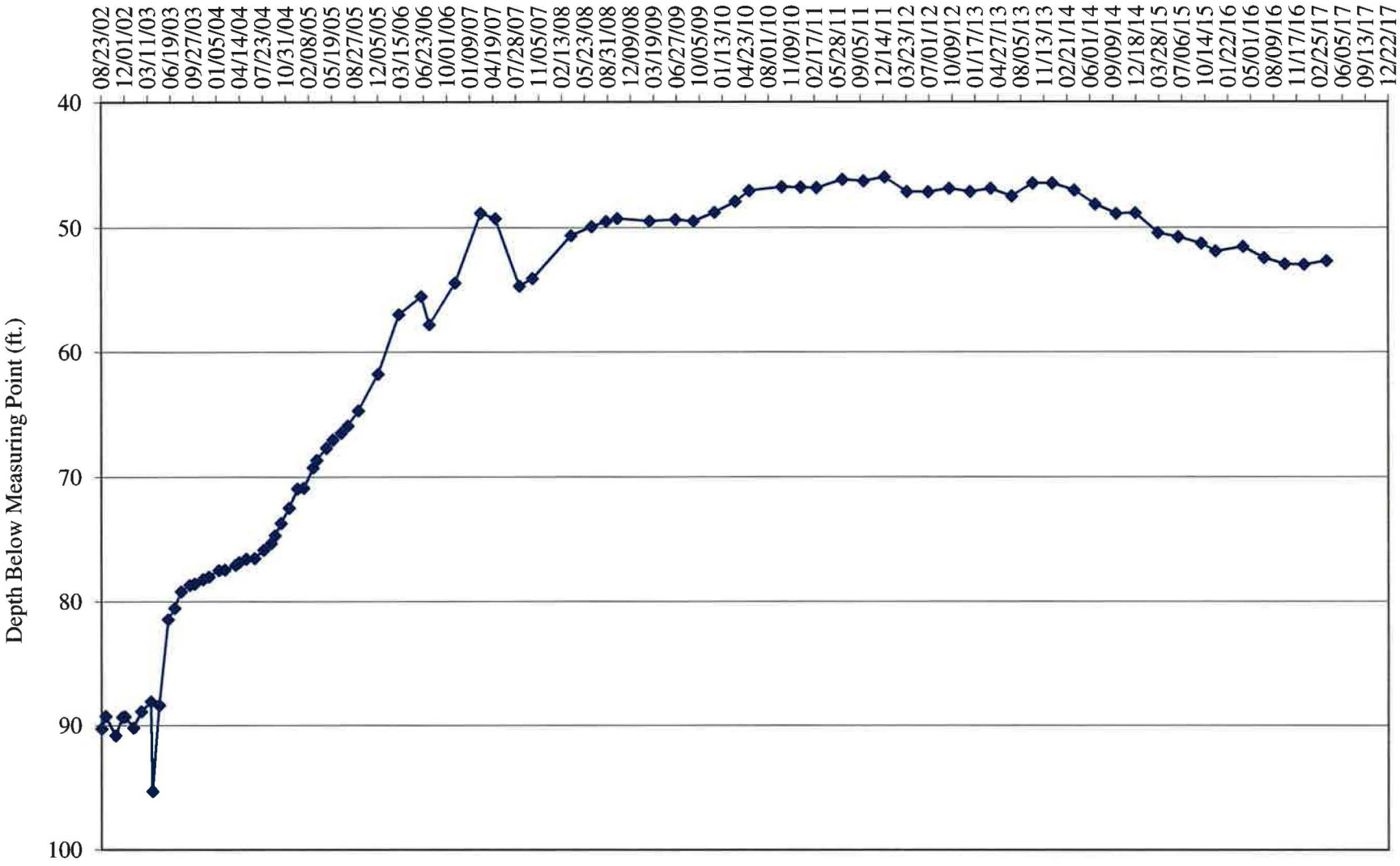
Water Levels and Data over Time
White Mesa Mill - Well TW4-13

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	
5,567.24				03/30/17	52.70	50.85	

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



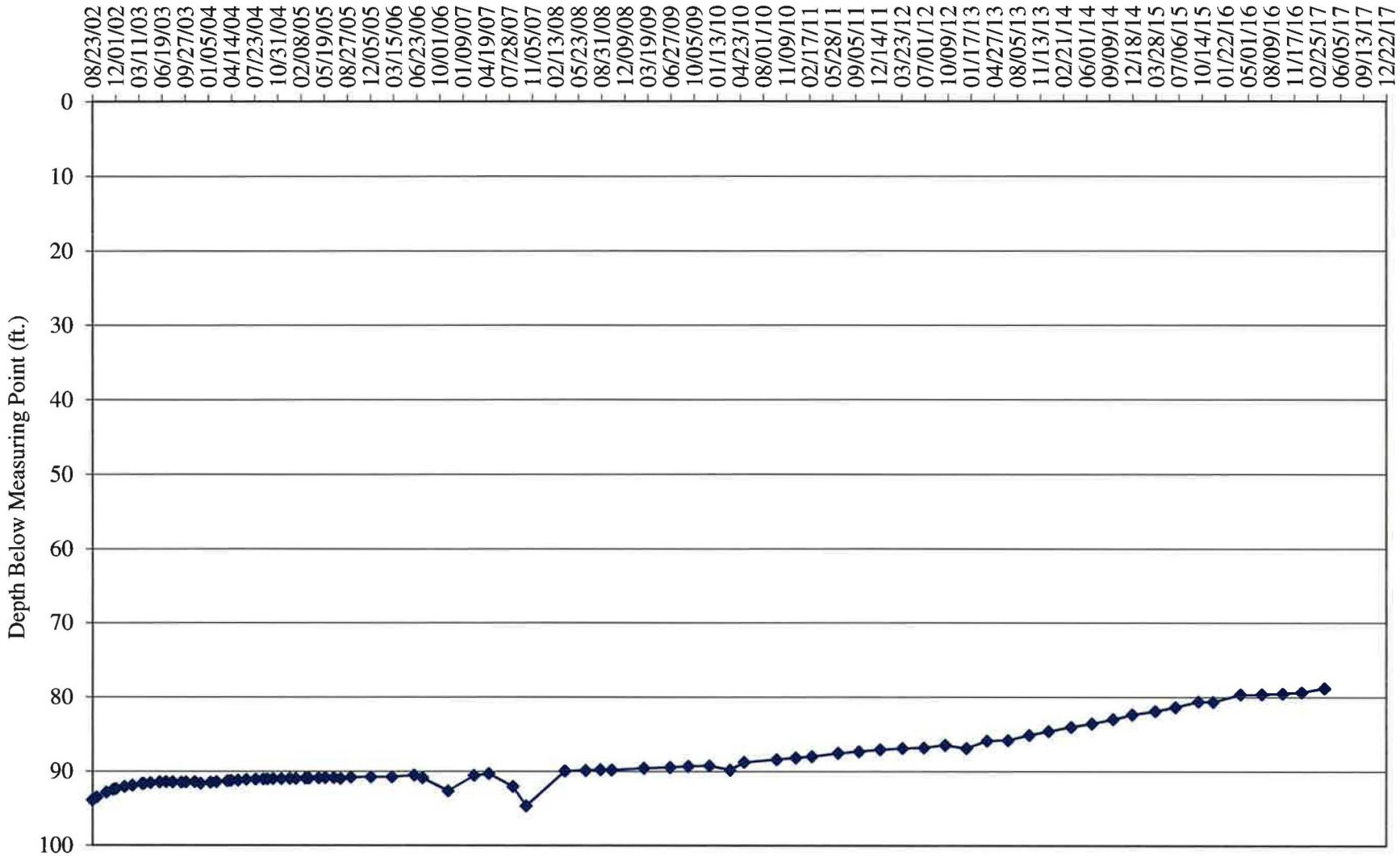
Water Levels and Data over Time
White Mesa Mill - Well TW4-14

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	
5,533.97				03/30/17	78.80	76.95	

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



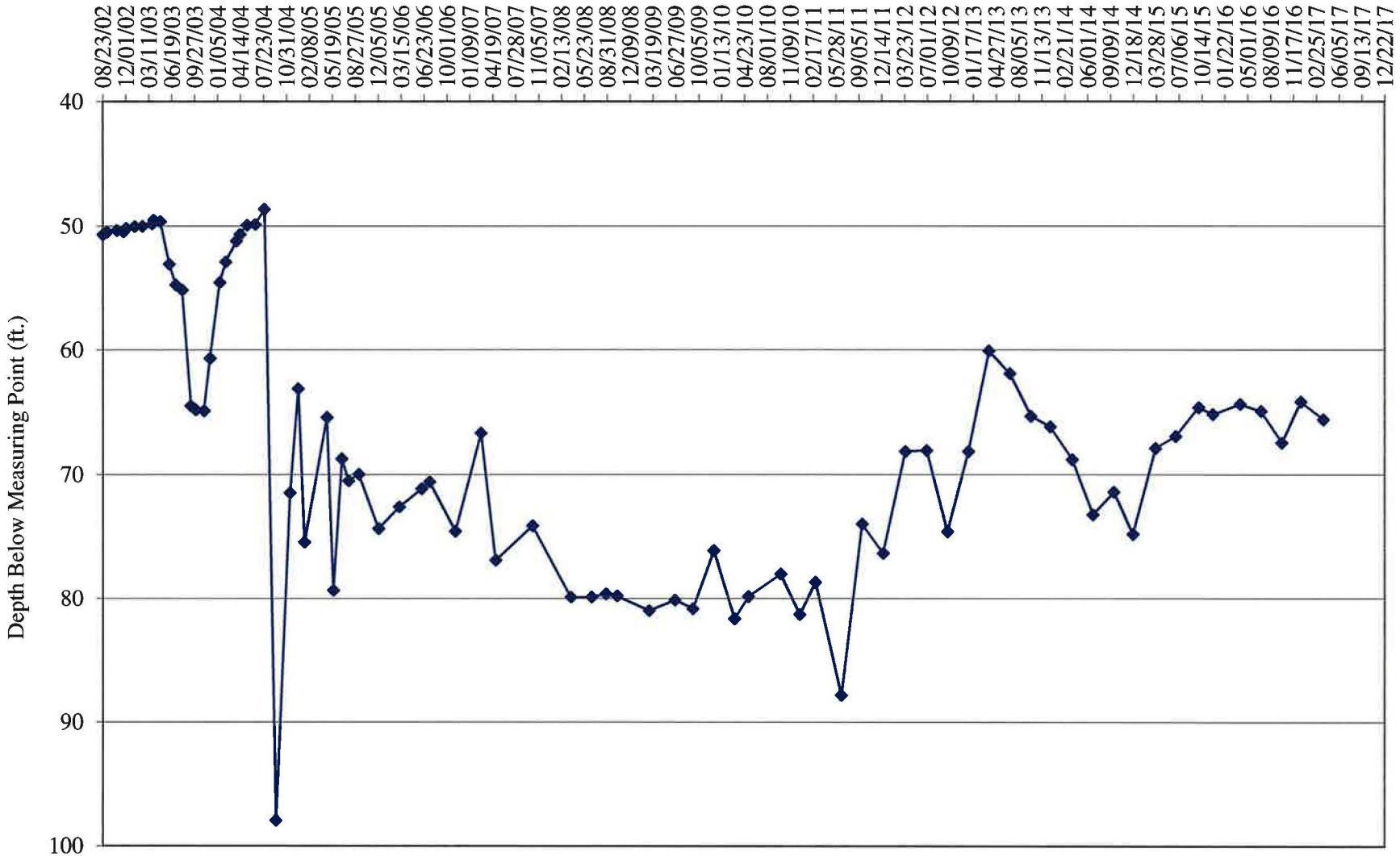
Water Levels and Data over Time
White Mesa Mill - Well MW-26

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	
5,559.85				03/30/17	65.60	64.30	

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



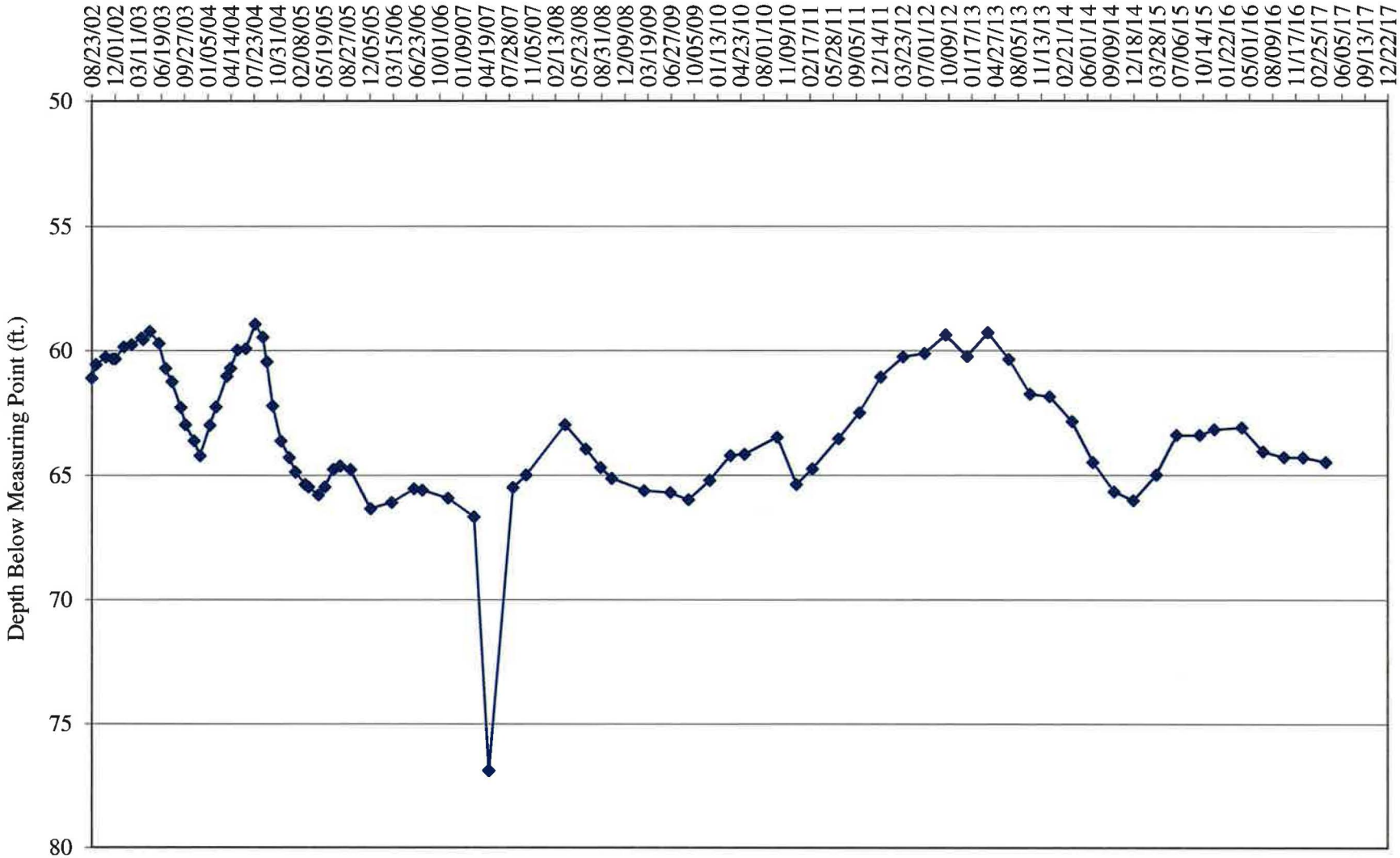
Water Levels and Data over Time
White Mesa Mill - Well TW4-16

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	
5,559.53				03/30/17	64.49	62.66	

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



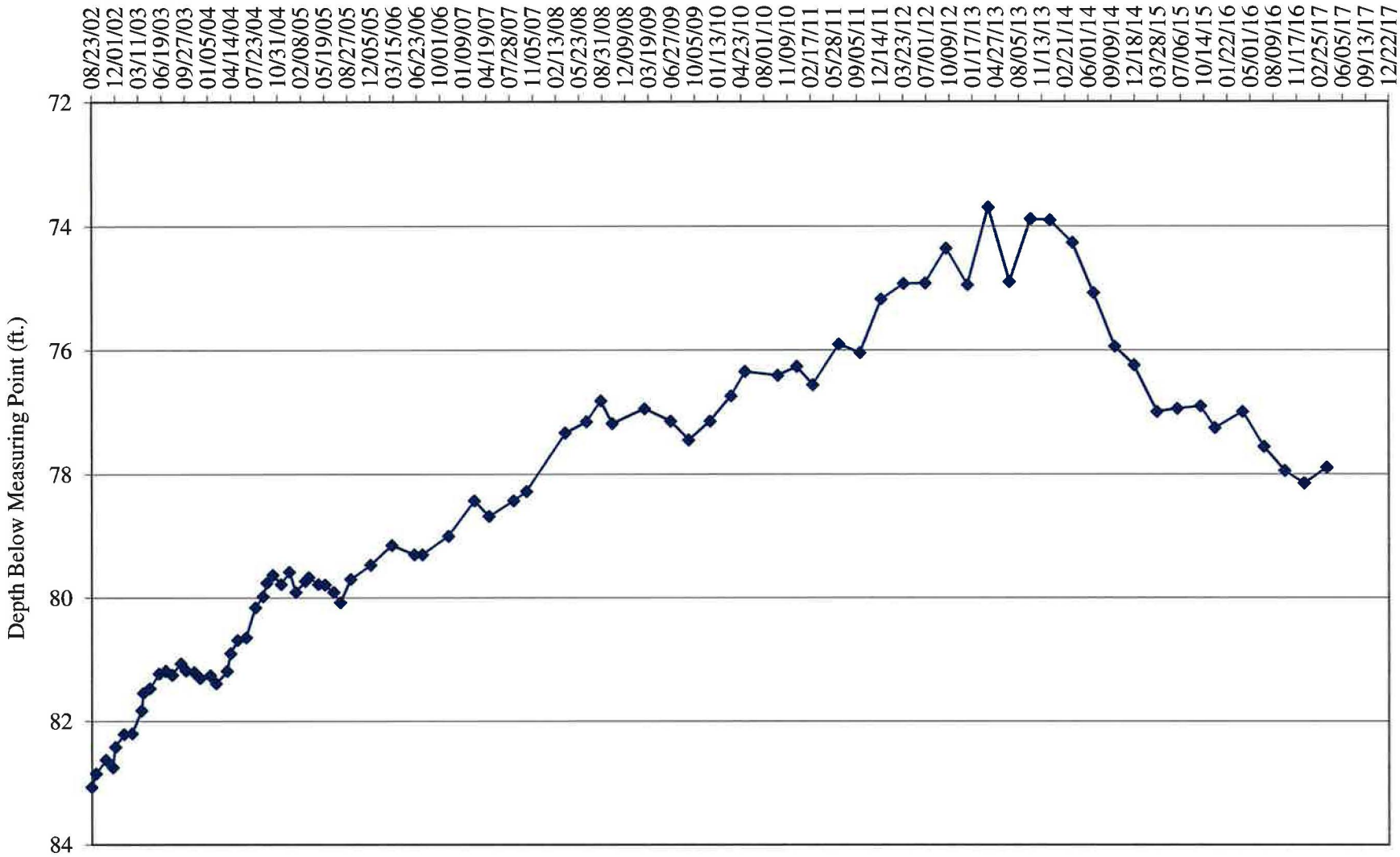
Water Levels and Data over Time
White Mesa Mill - Well MW-32

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	
5,547.34				03/30/17	77.90	76.07	

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



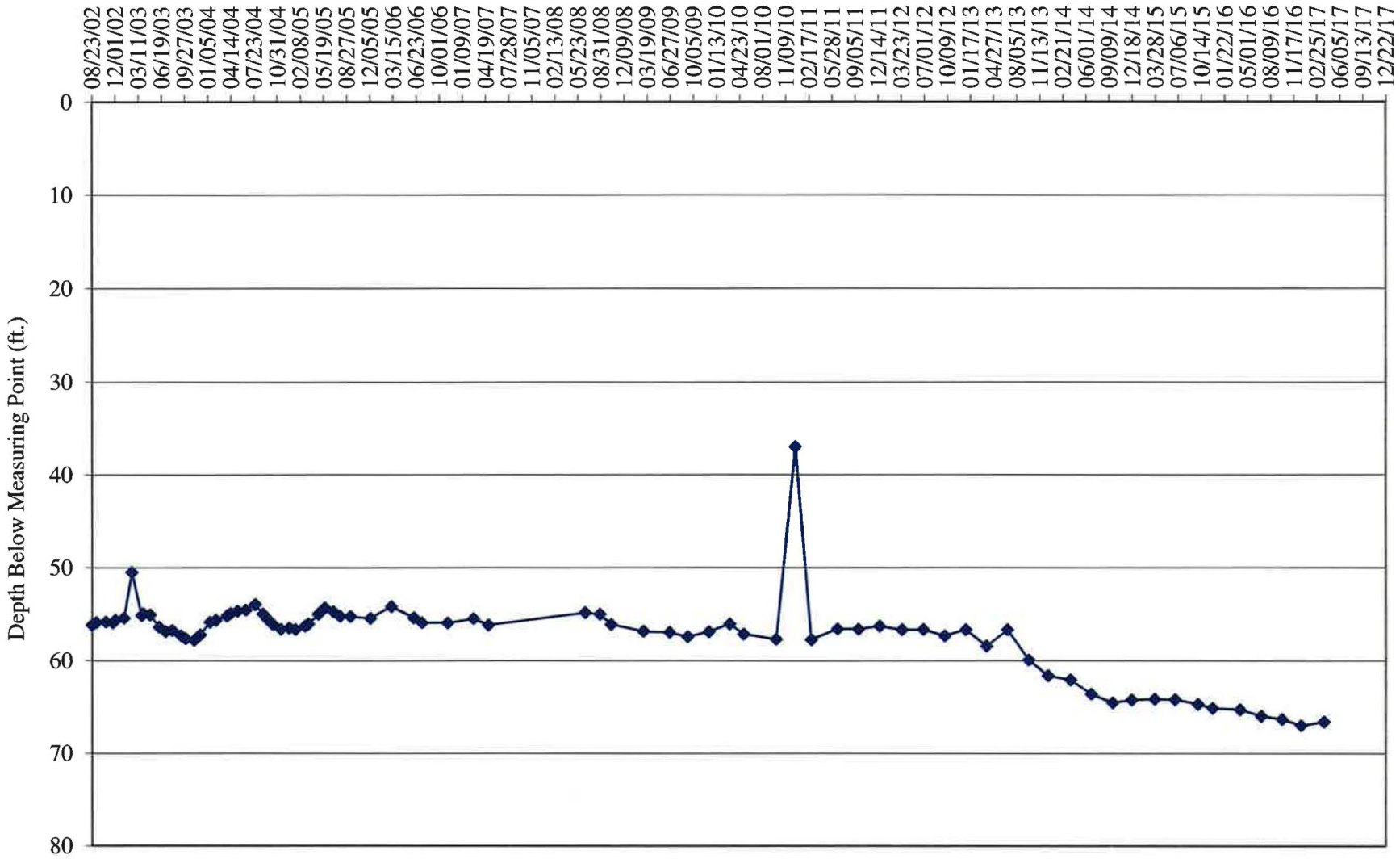
Water Levels and Data over Time
White Mesa Mill - Well TW4-18

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	
5,574.73				03/30/17	66.55	64.40	

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



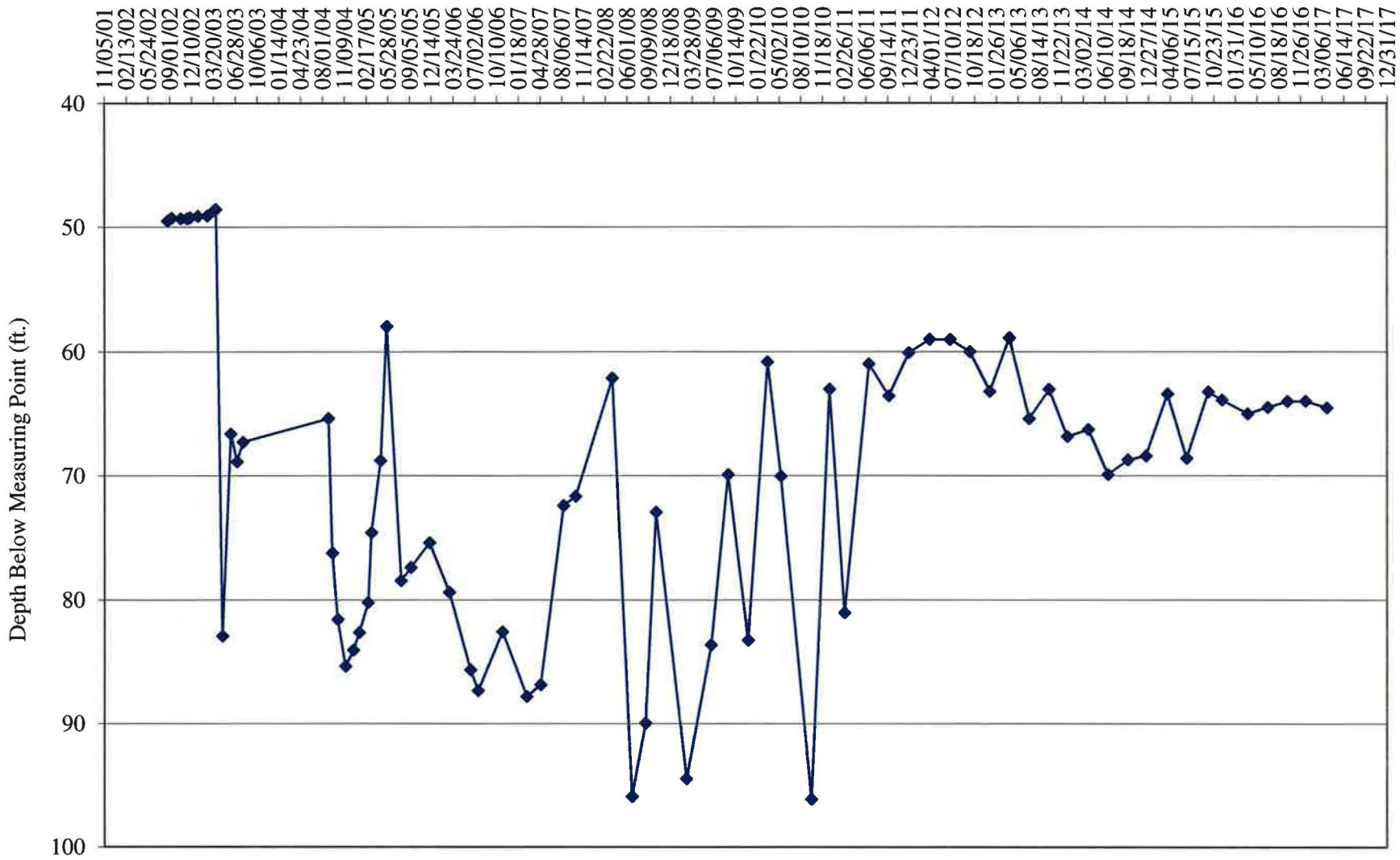
Water Levels and Data over Time
White Mesa Mill - Well TW4-19

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	
5,566.87				03/30/17	64.52	62.66	

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



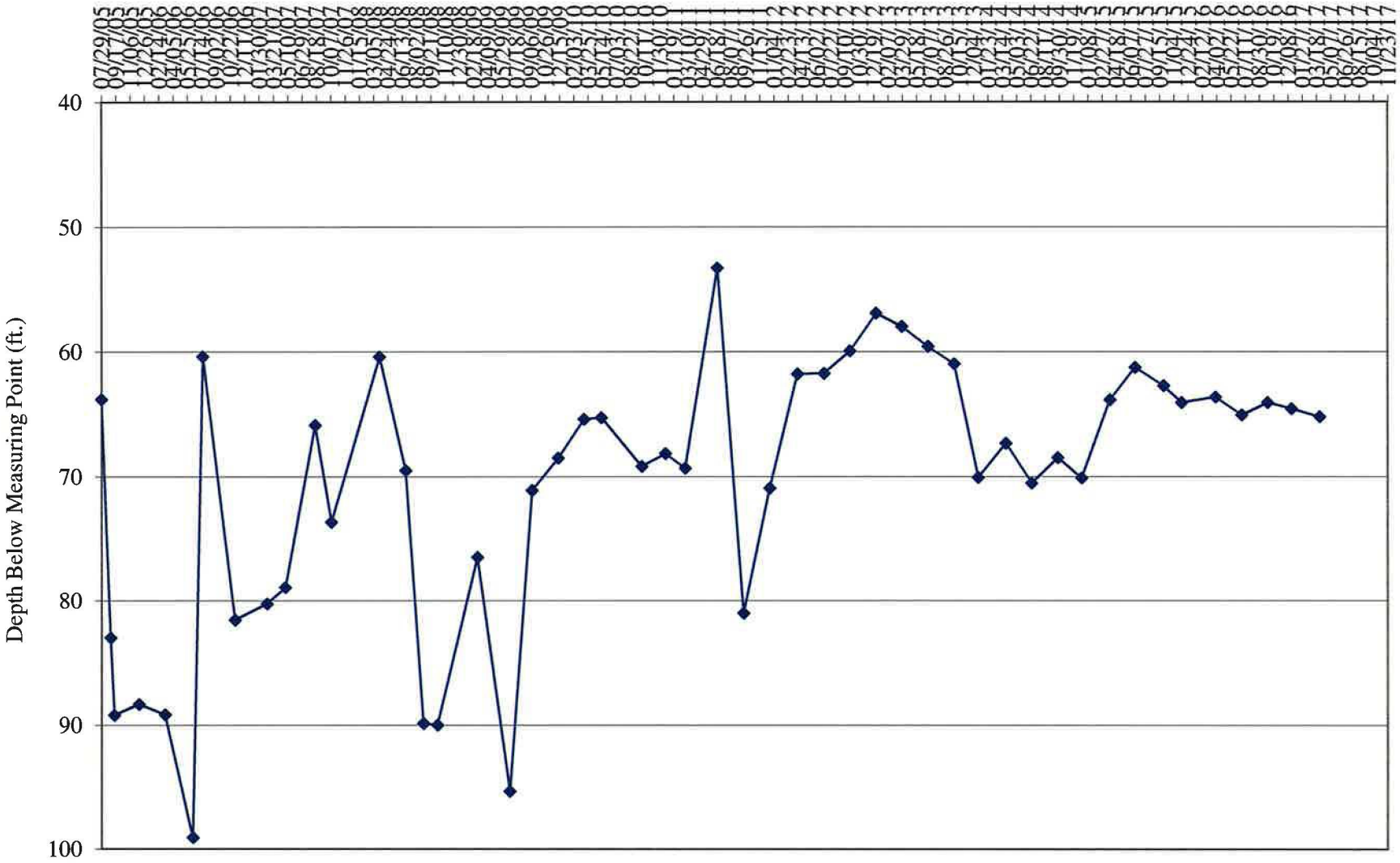
Water Levels and Data over Time
White Mesa Mill - Well TW4-20

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	
5,564.27				03/30/17	65.26	64.25	

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



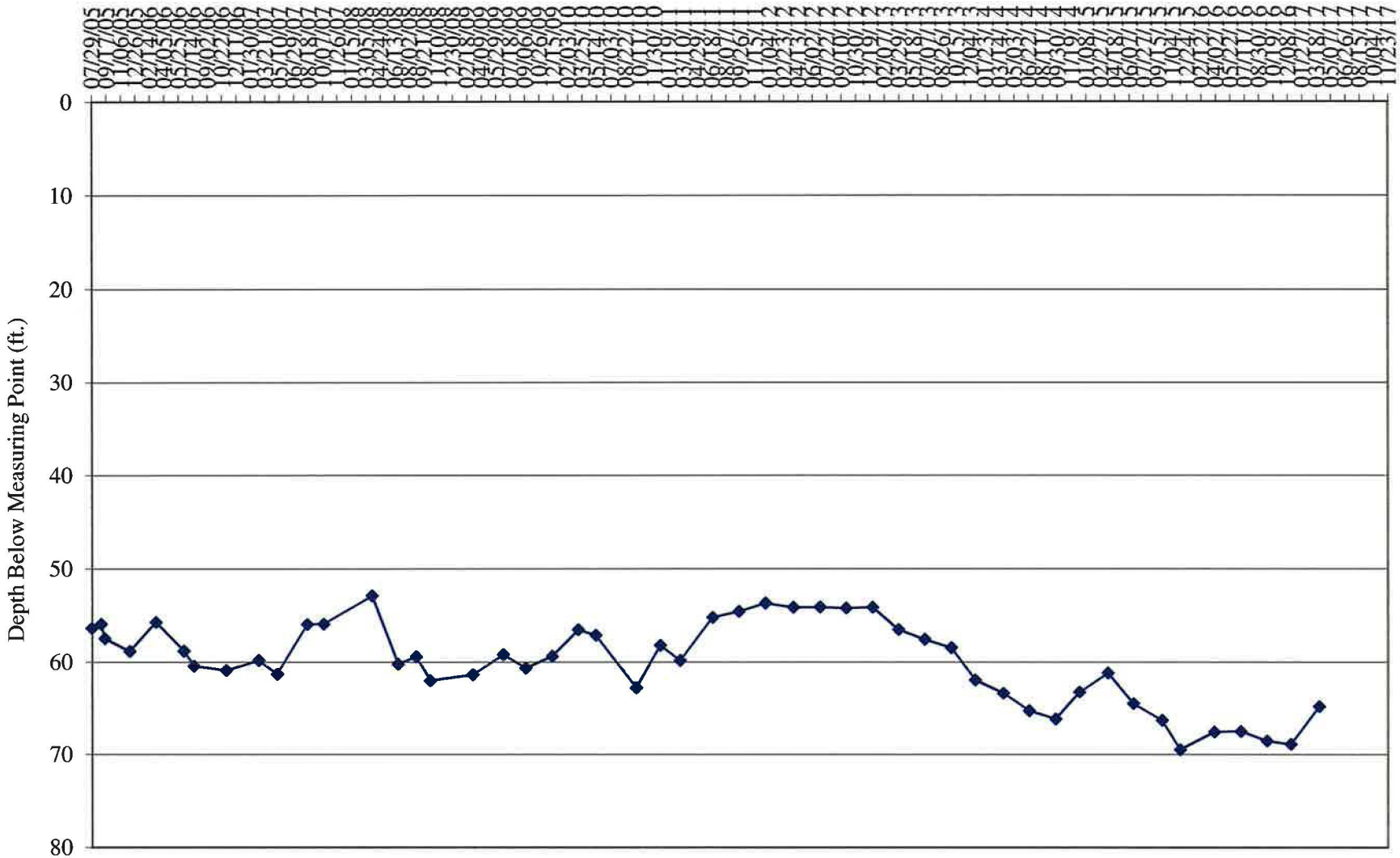
Water Levels and Data over Time
White Mesa Mill - Well TW4-21

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	
5,574.53				03/30/17	64.82	63.67	

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



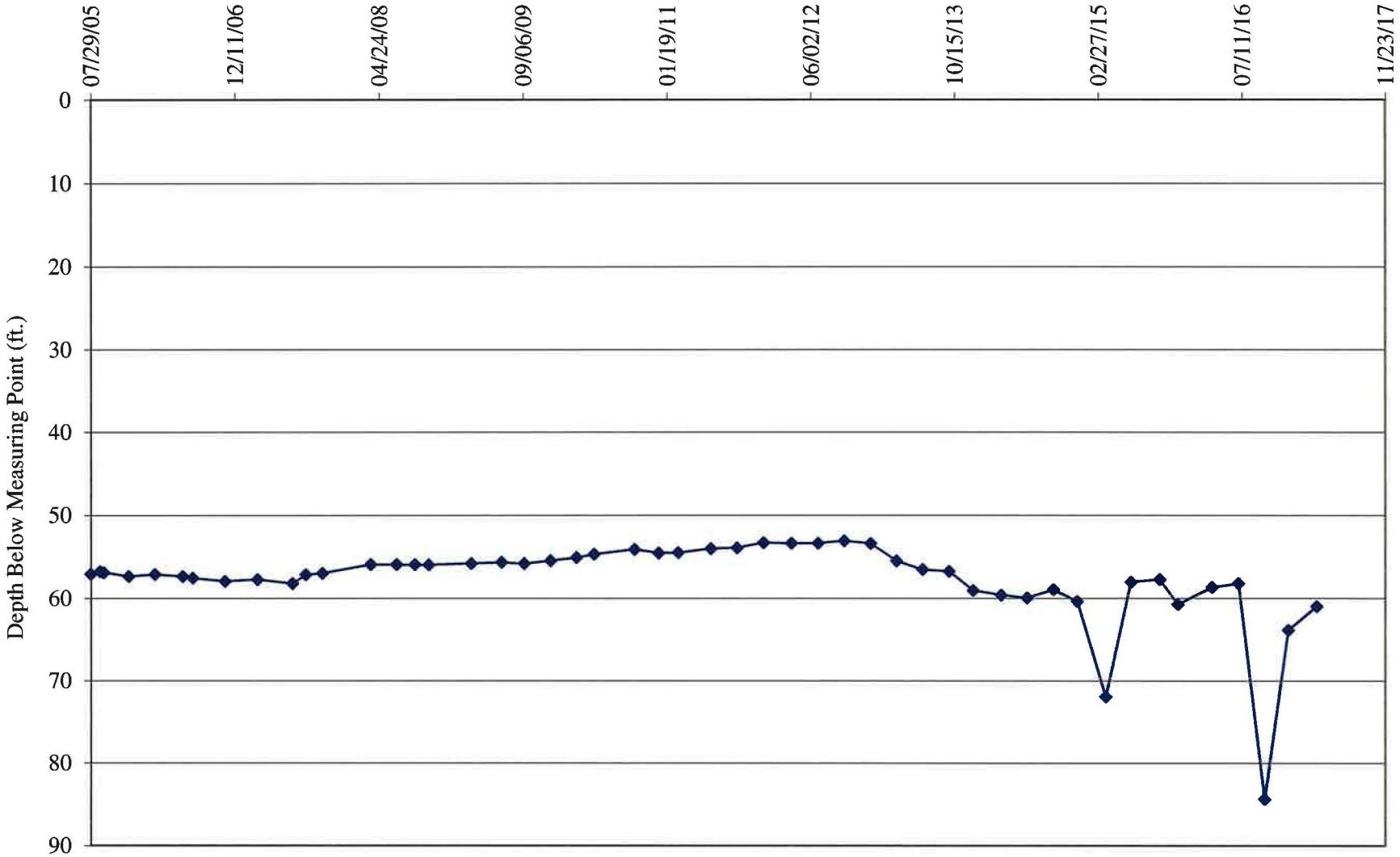
Water Levels and Data over Time
White Mesa Mill - Well TW4-22

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	
5,567.99				03/30/17	61.01	59.84	

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



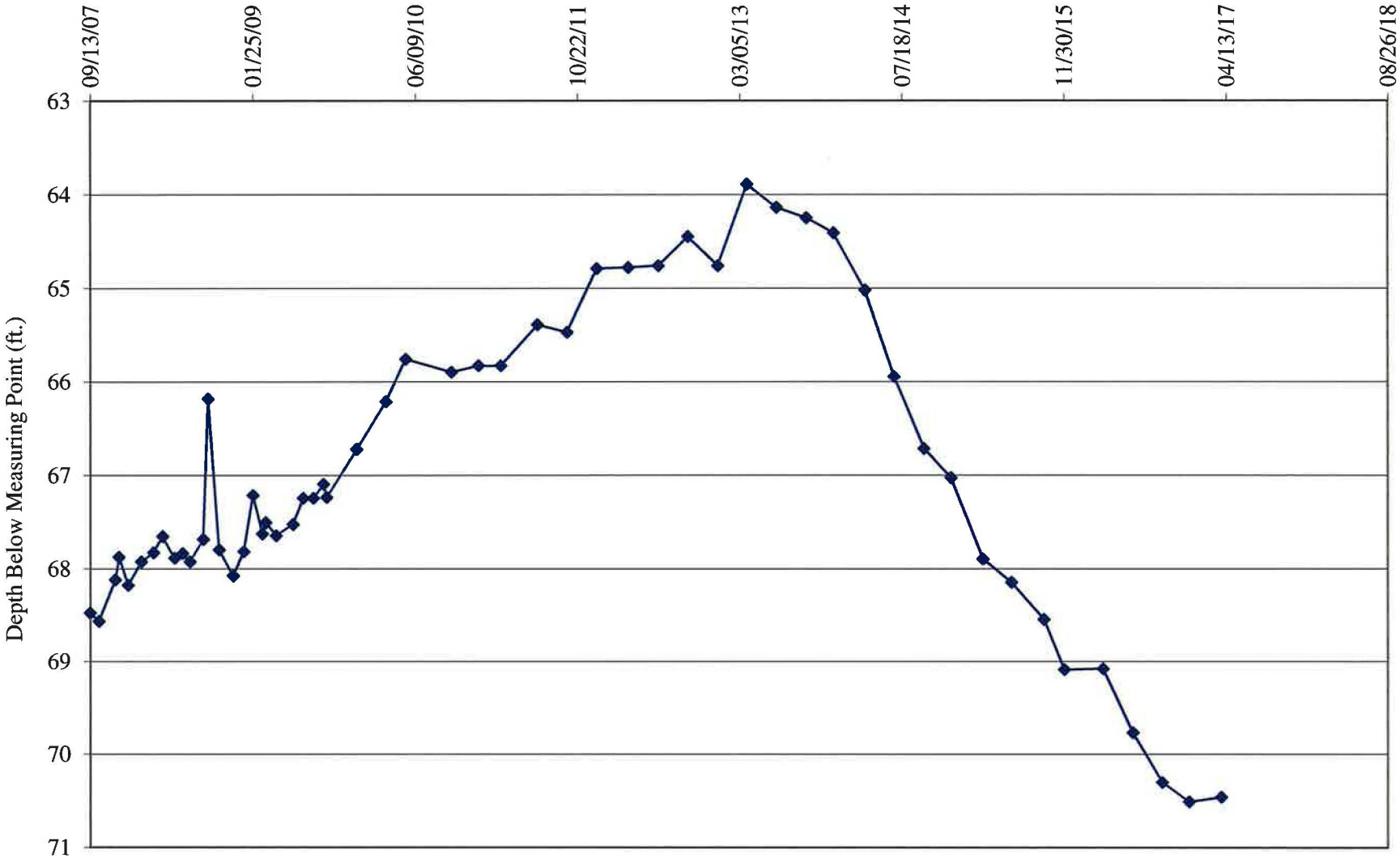
Water Levels and Data over Time
White Mesa Mill - Well TW4-23

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	
5,536.91				03/30/17	70.46	68.86	

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



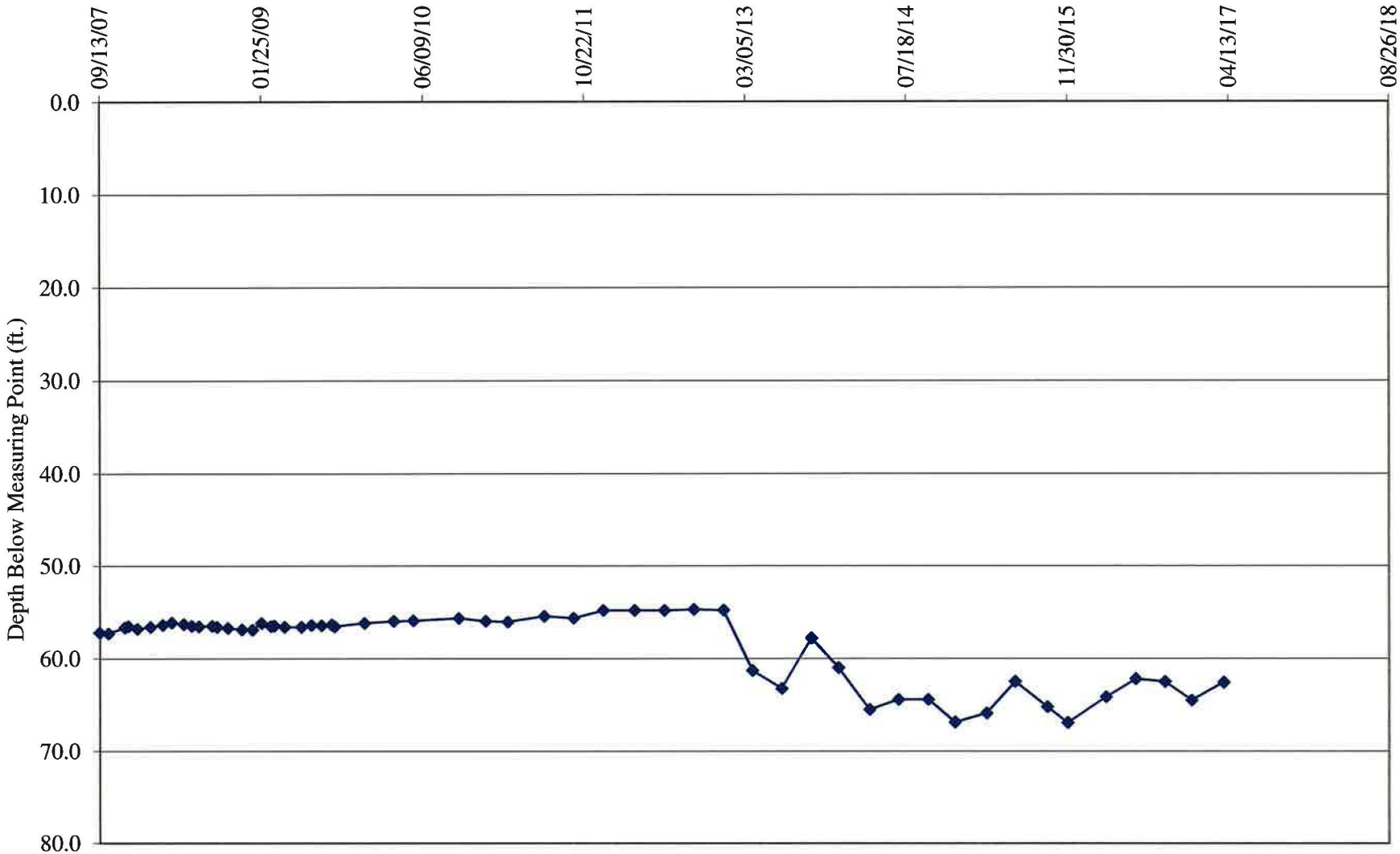
Water Levels and Data over Time
White Mesa Mill - Well TW4-24

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	
5,565.27				03/30/17	62.56	60.43	

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



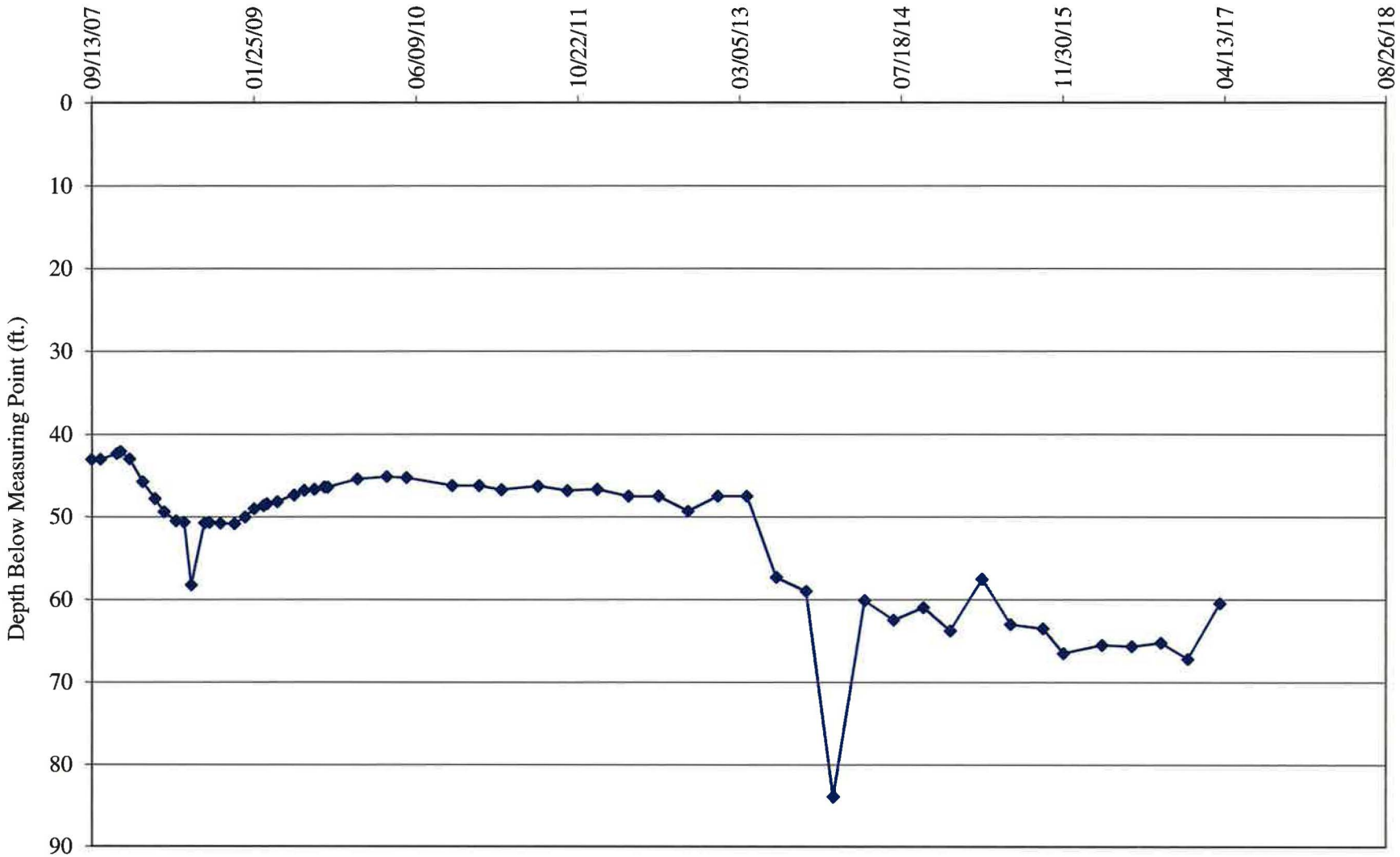
Water Levels and Data over Time
White Mesa Mill - Well TW4-25

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

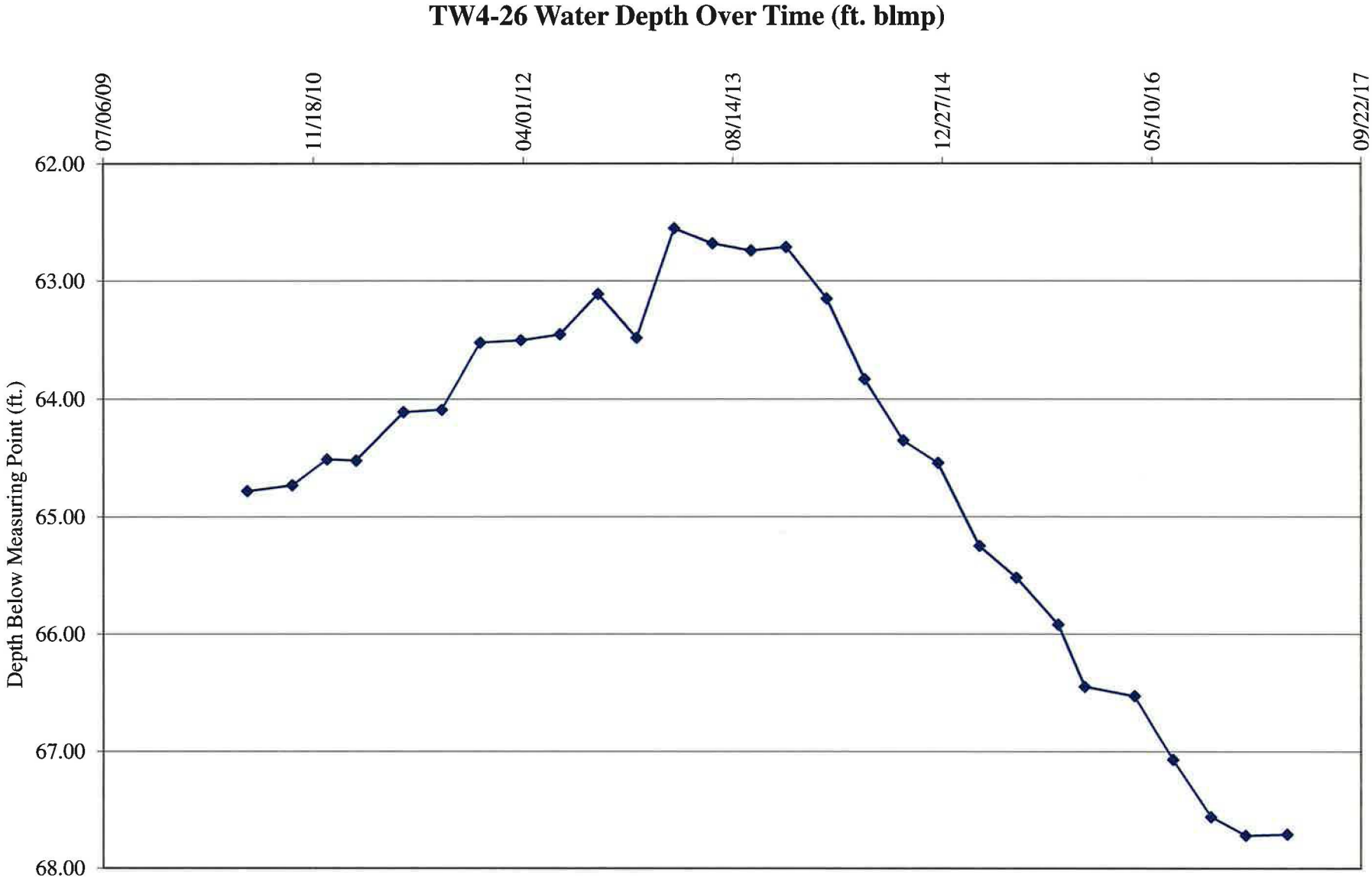
Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,627.83	5,644.91	17.08				134.8
5,584.79				03/27/14	60.12	43.04	
5,582.44				06/25/14	62.47	45.39	
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	
5,584.44				03/30/17	60.47	43.39	

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



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

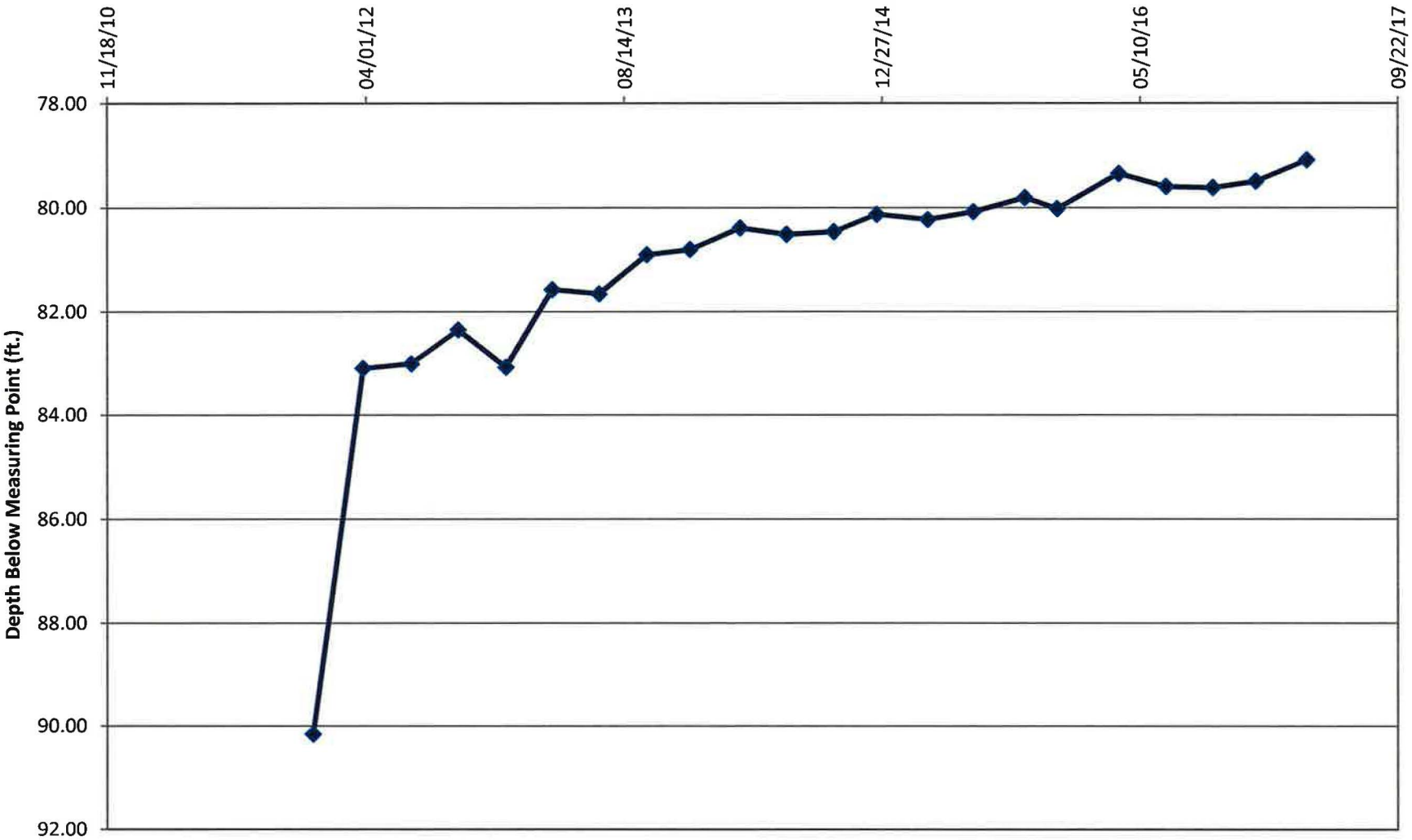
Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,599.98	5,601.68	1.70				86
5,536.90				06/14/10	64.78	63.08	
5,536.95				09/29/10	64.73	63.03	
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	
5,533.97				03/30/17	67.71	66.01	


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

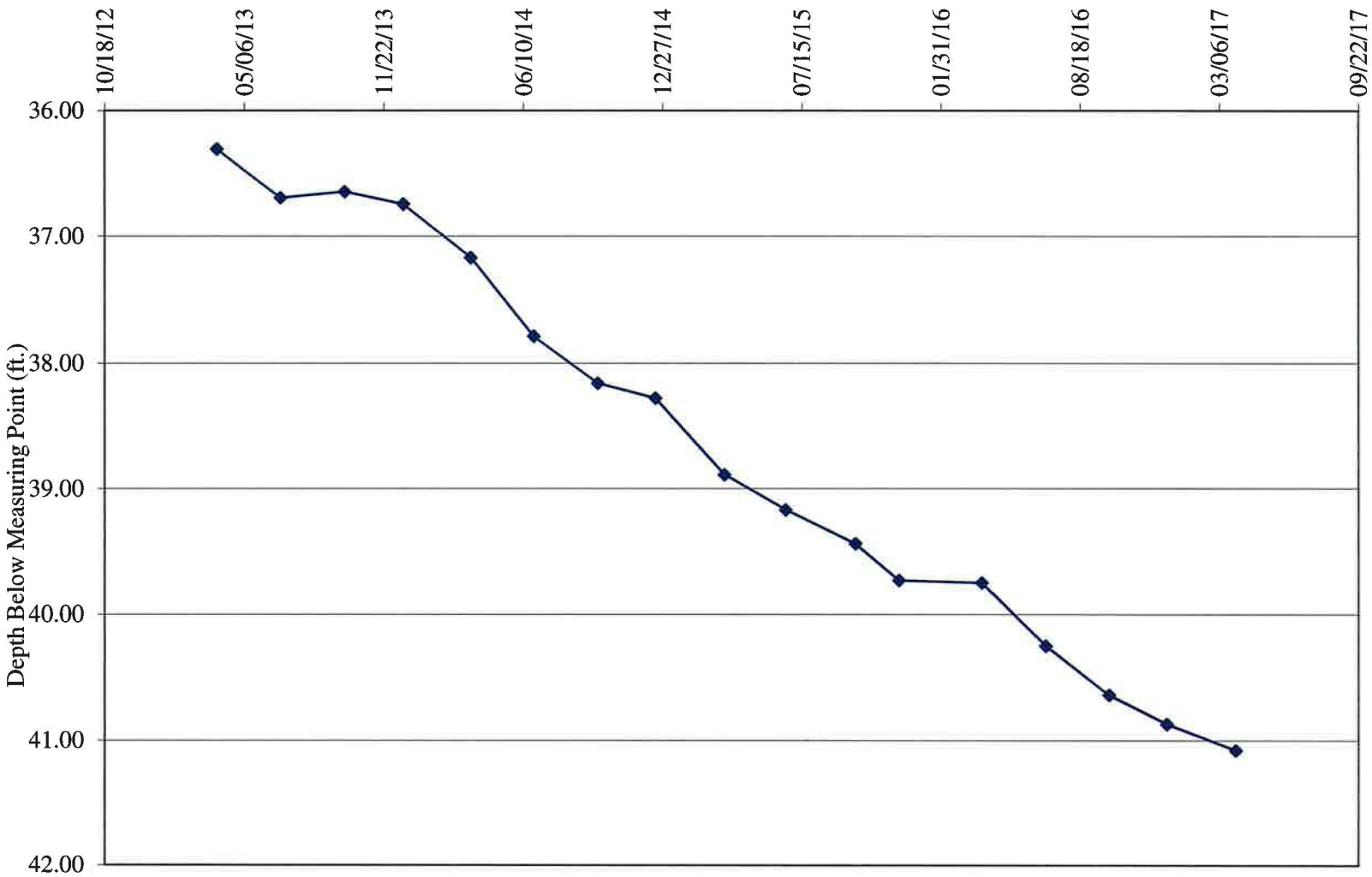
Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,606.19	5,607.94	1.75				96
5,517.78				12/21/11	90.16	88.41	
5,524.84				03/27/12	83.10	81.35	
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	
5,528.85				03/30/17	79.09	77.34	

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



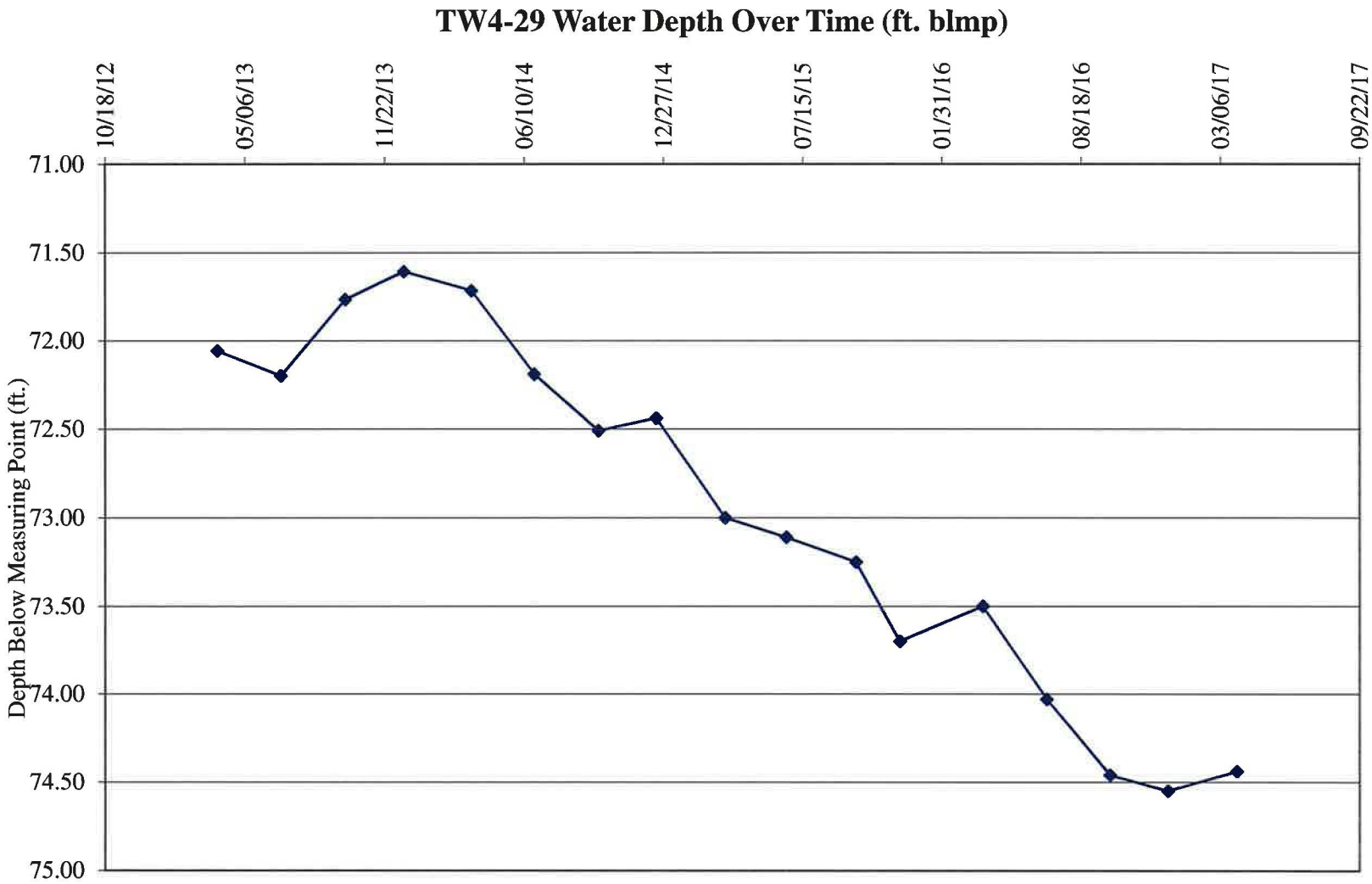
Water Levels and Data over Time
White Mesa Mill - Well TW4-28

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	
5,575.92				03/30/17	41.08	37.60	


TW4-28 Water Depth Over Time (ft. blmp)
10/18/12
05/06/13
11/22/13
06/10/14
12/27/14
07/15/15
01/31/16
08/18/16
03/06/17
09/22/17
36.00
37.00
38.00
39.00
40.00
41.00
42.00
Depth Below Measuring Point (ft.)

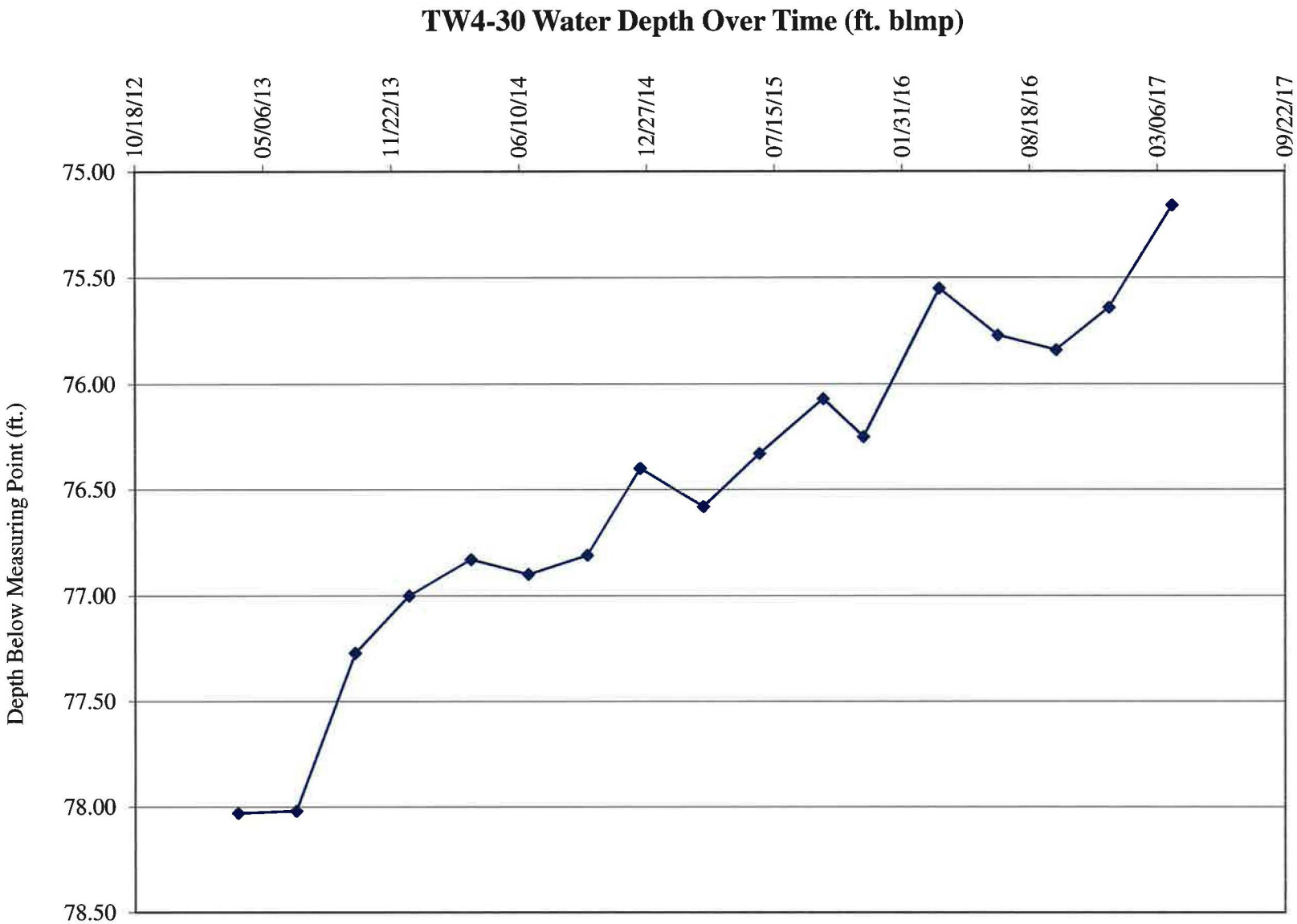
Water Levels and Data over Time
White Mesa Mill - Well TW4-29

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,602.56	5,606.04	3.48				105
5,533.98				03/28/13	72.06	68.58	
5,533.84				06/27/13	72.20	68.72	
5,534.27				09/27/13	71.77	68.29	
5,534.43				12/20/13	71.61	68.13	
5,534.32				03/27/14	71.72	68.24	
5,533.85				06/25/14	72.19	68.71	
5,533.53				09/25/14	72.51	69.03	
5,533.60				12/17/14	72.44	68.96	
5,533.04				03/26/15	73.00	69.52	
5,532.93				06/22/15	73.11	69.63	
5,532.79				09/30/15	73.25	69.77	
5,532.34				12/02/15	73.70	70.22	
5,532.54				03/30/16	73.50	70.02	
5,532.01				06/30/16	74.03	70.55	
5,531.58				09/29/16	74.46	70.98	
5,531.49				12/21/16	74.55	71.07	
5,531.60				03/30/17	74.44	70.96	


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
09/22/17
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

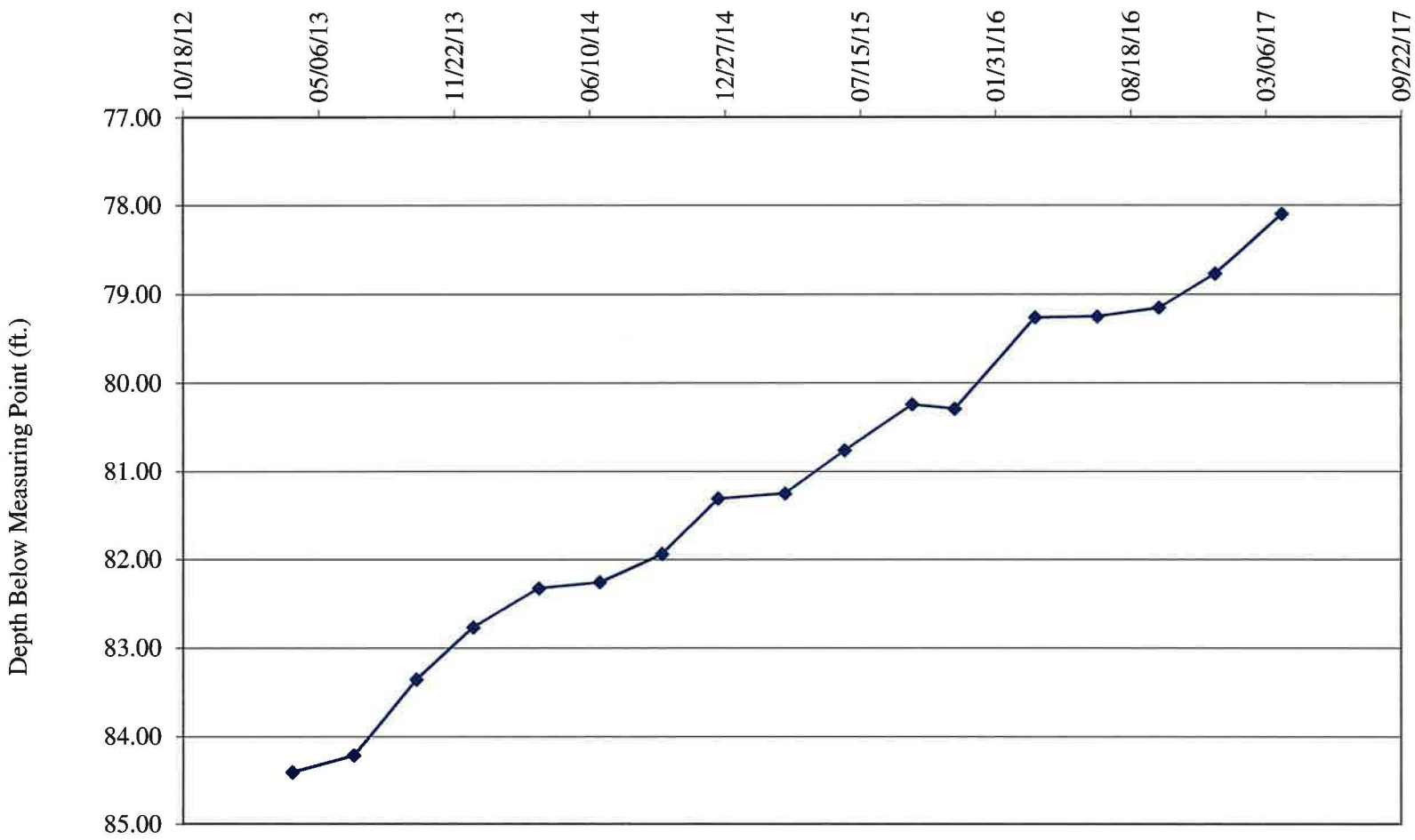
Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,599.33	5,602.81	3.48				105
5,524.78				03/28/13	78.03	74.55	
5,524.79				06/27/13	78.02	74.54	
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	
5,527.65				03/30/17	75.16	71.68	


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
09/22/17
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	
5,526.48				03/30/17	78.10	74.62	

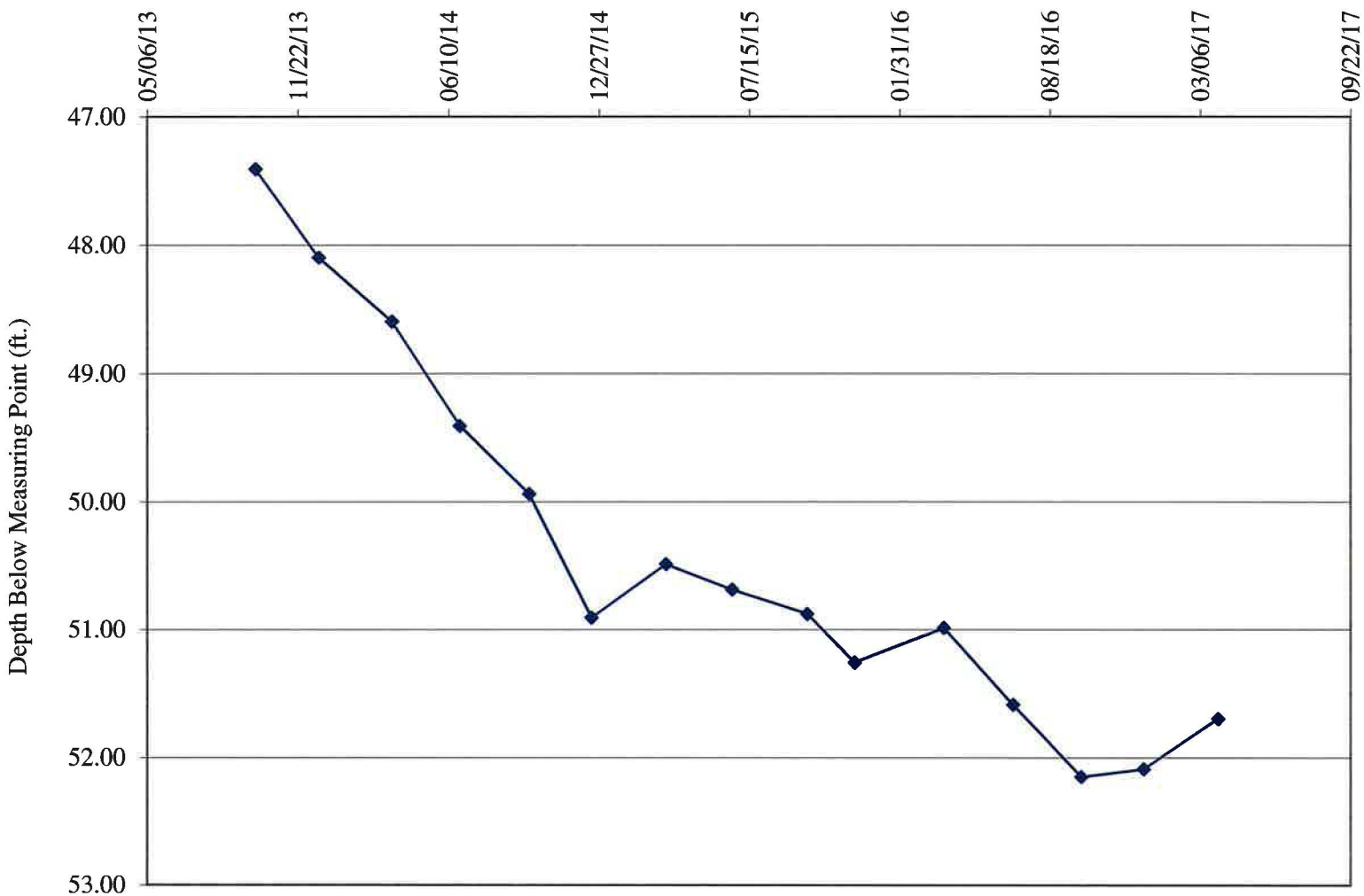
TW4-31 Water Depth Over Time (ft. blmp)



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	
5,560.14				03/30/17	51.70	50.06	

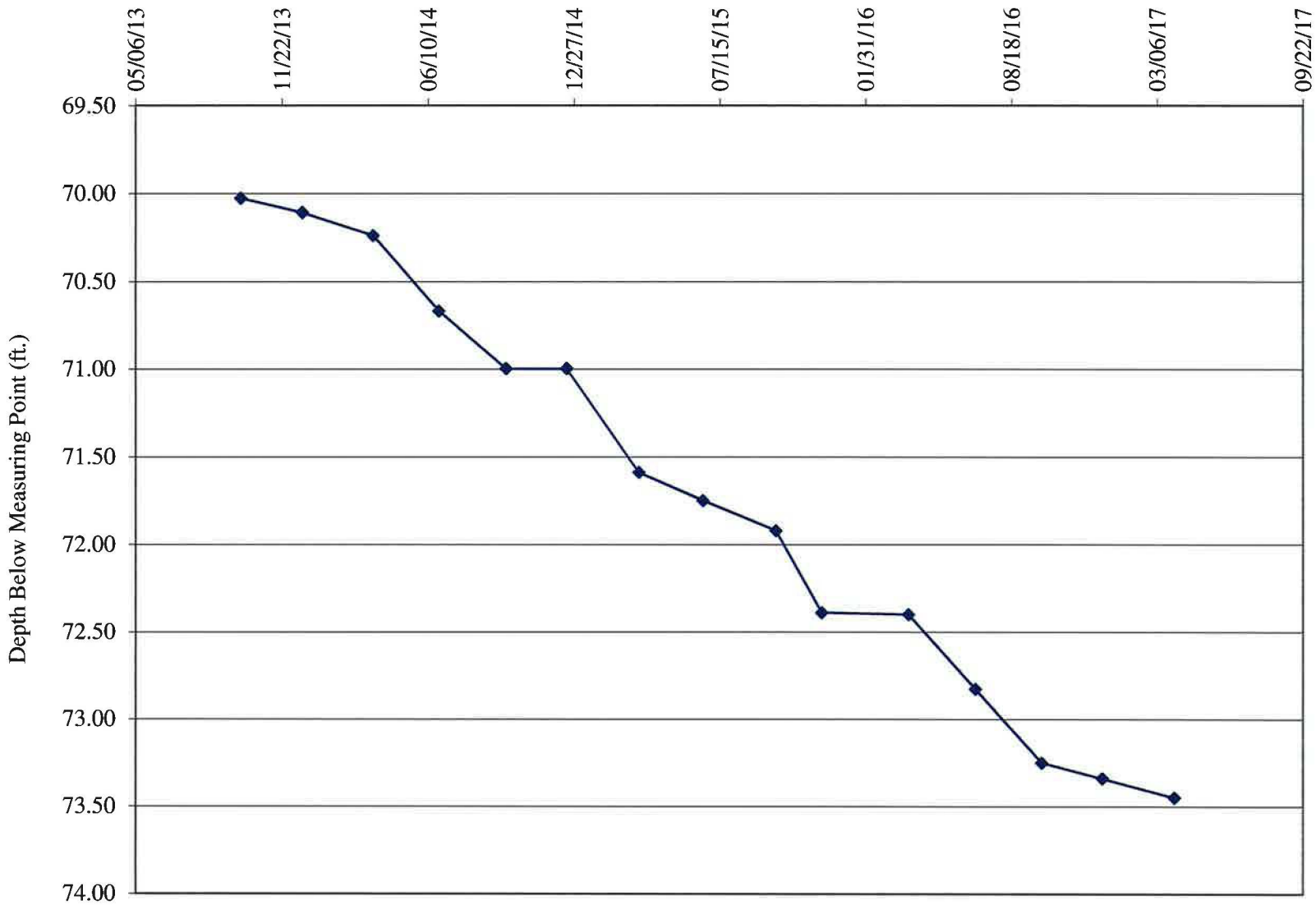
TW4-32 Water Depth Over Time (ft. blmp)



Water Levels and Data over Time
White Mesa Mill - Well TW4-33

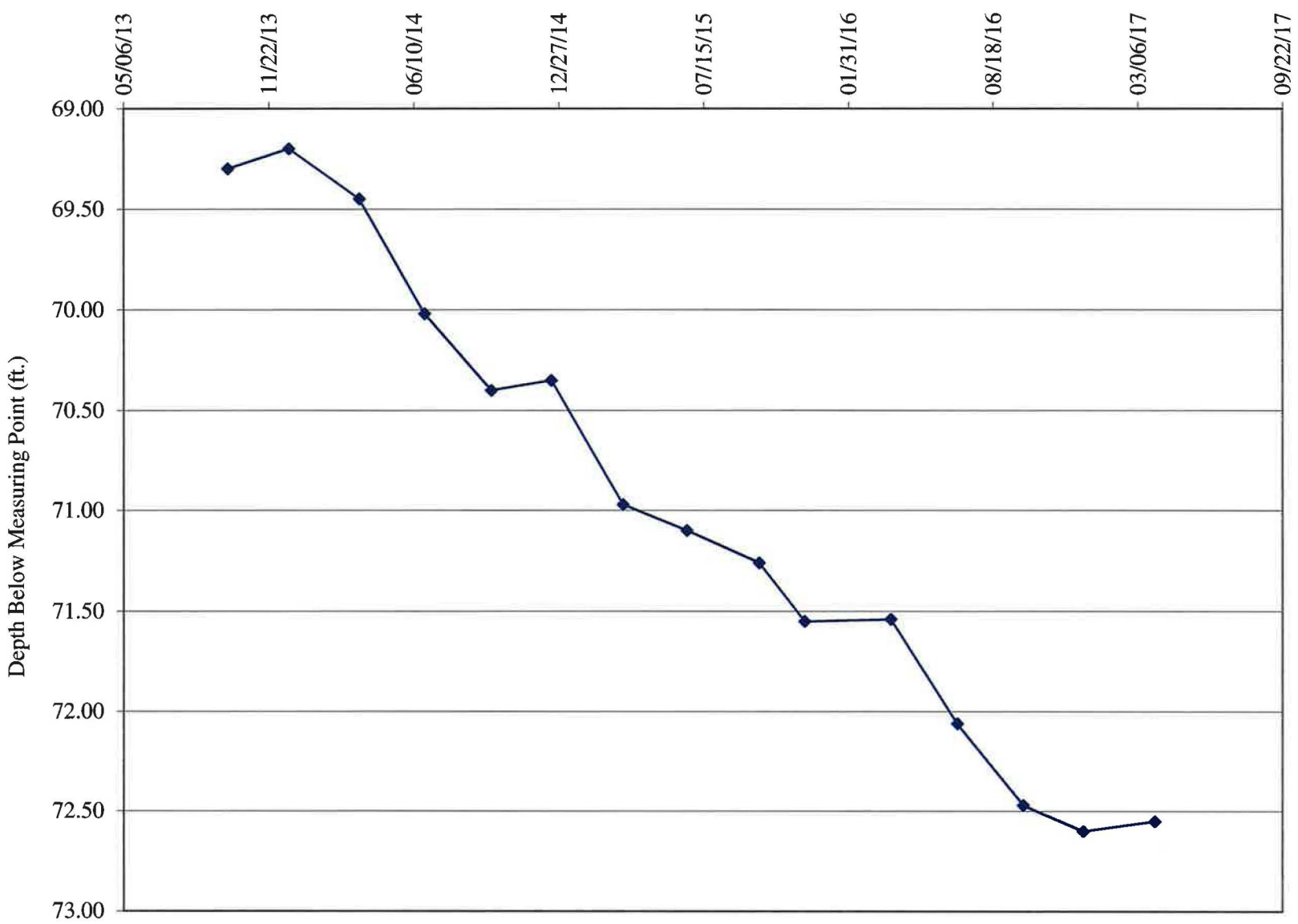
Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,605.20	5,606.73	1.53				84.7
5,536.70				09/27/13	70.03	68.50	
5,536.62				12/20/13	70.11	68.58	
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	
5,533.28				03/30/17	73.45	71.92	

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



Water Levels and Data over Time
White Mesa Mill - Well TW4-34

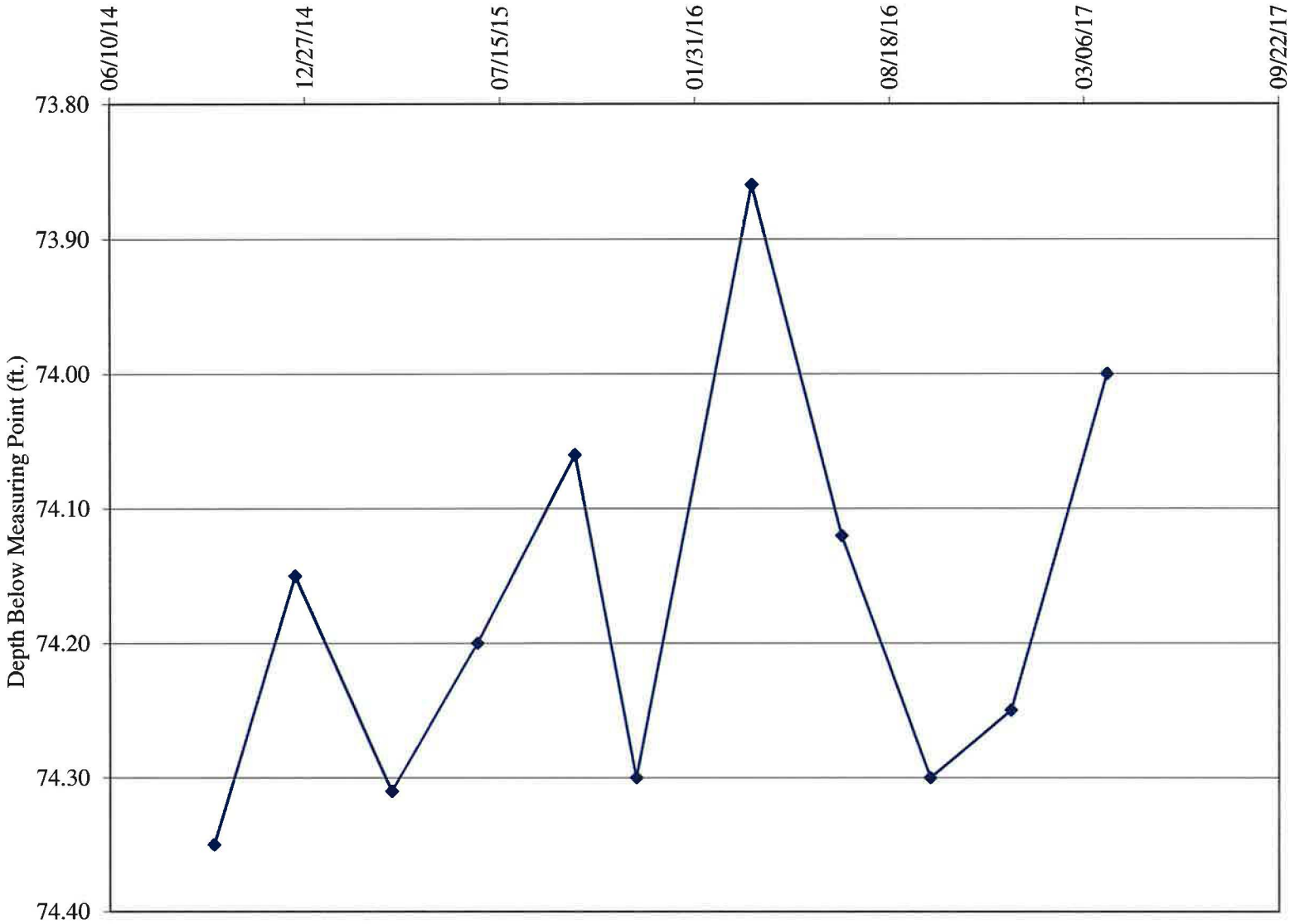
Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,601.60	5,603.34	1.74				94
5,534.04				09/27/13	69.30	67.56	
5,534.14				12/20/13	69.20	67.46	
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	
5,530.79				03/30/17	72.55	70.81	


TW4-34 Water Depth Over Time (ft. blmp)
05/06/13
11/22/13
06/10/14
12/27/14
07/15/15
01/31/16
08/18/16
03/06/17
09/22/17
69.00
69.50
70.00
70.50
71.00
71.50
72.00
72.50
73.00
Depth Below Measuring Point (ft.)

Water Levels and Data over Time
White Mesa Mill - Well TW4-35

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,598.67	5,599.87	1.20				85.3
5,525.52				09/25/14	74.35	73.15	
5,525.72				12/17/14	74.15	72.95	
5,525.56				03/26/15	74.31	73.11	
5,525.67				06/22/15	74.20	73.00	
5,525.81				09/30/15	74.06	72.86	
5,525.57				12/02/15	74.30	73.10	
5,526.01				03/30/16	73.86	72.66	
5,525.75				06/30/16	74.12	72.92	
5,525.57				09/29/16	74.30	73.10	
5,525.62				12/21/16	74.25	73.05	
5,525.87				03/30/17	74.00	72.80	

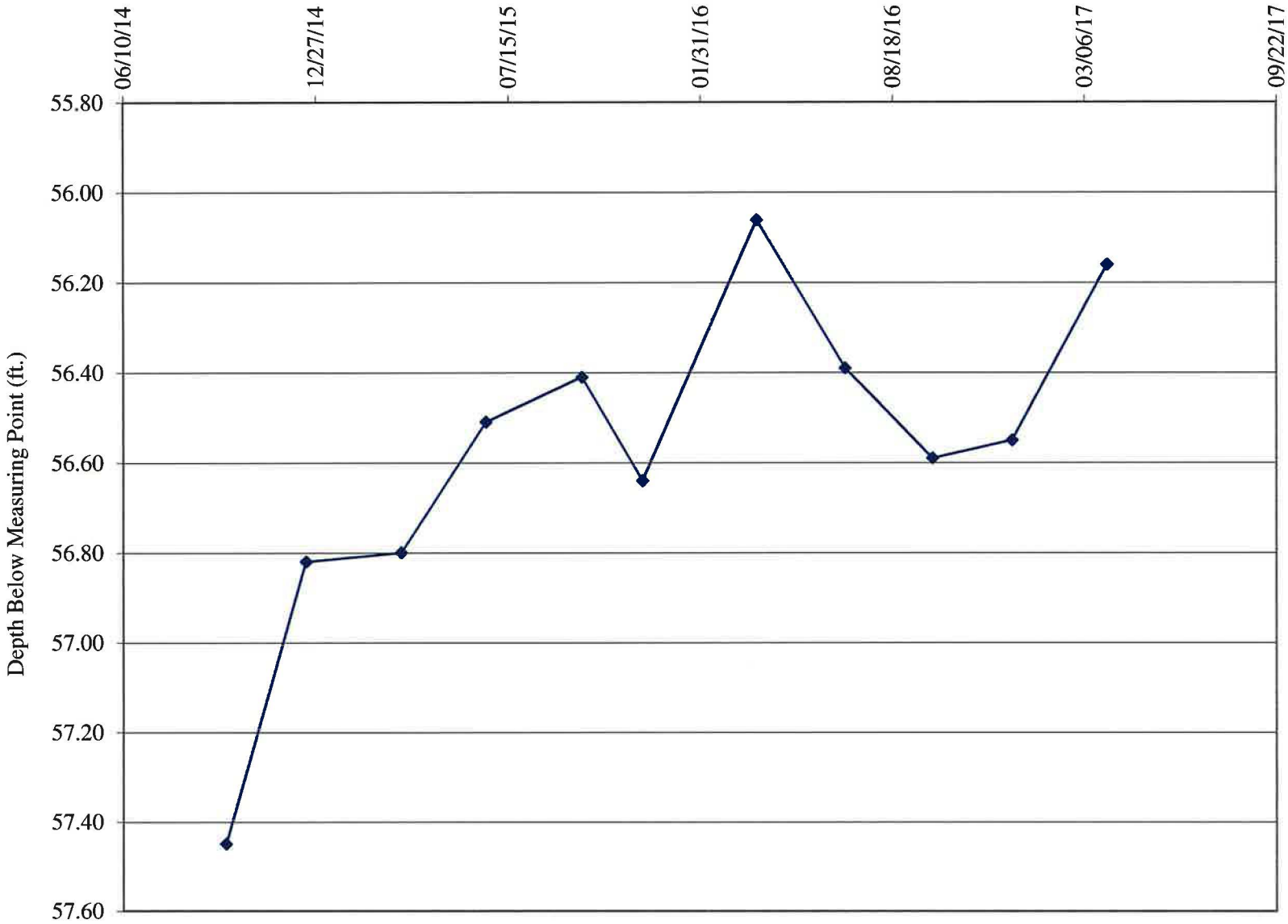
TW4-35 Water Depth Over Time (ft. blmp)



Water Levels and Data over Time
White Mesa Mill - Well TW4-36

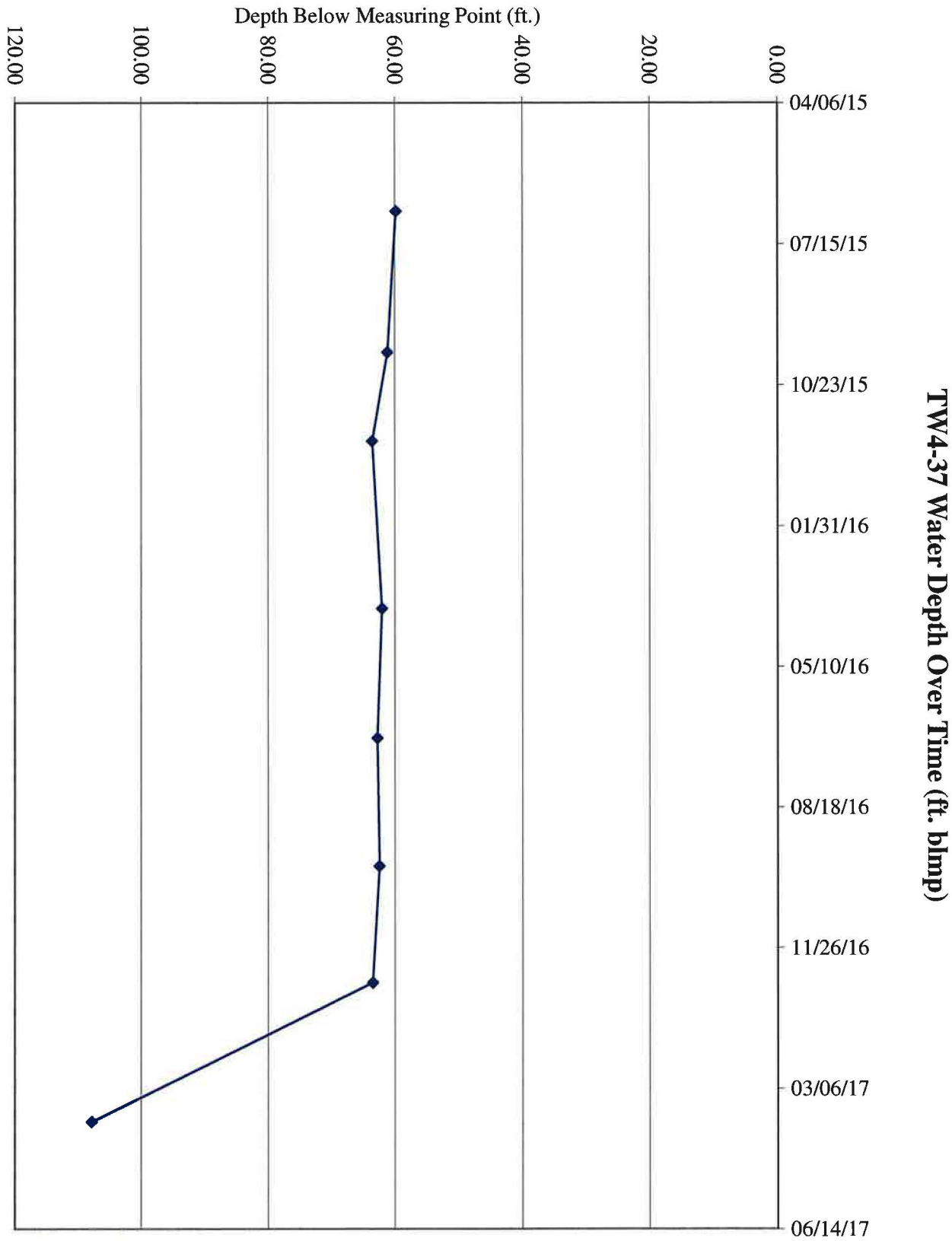
Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,615.18	5,616.59	1.41				98
5,559.14				09/25/14	57.45	56.04	
5,559.77				12/17/14	56.82	55.41	
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	
5,560.43				03/30/17	56.16	54.75	

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	
5,524.05				03/30/17	107.80	106.08	

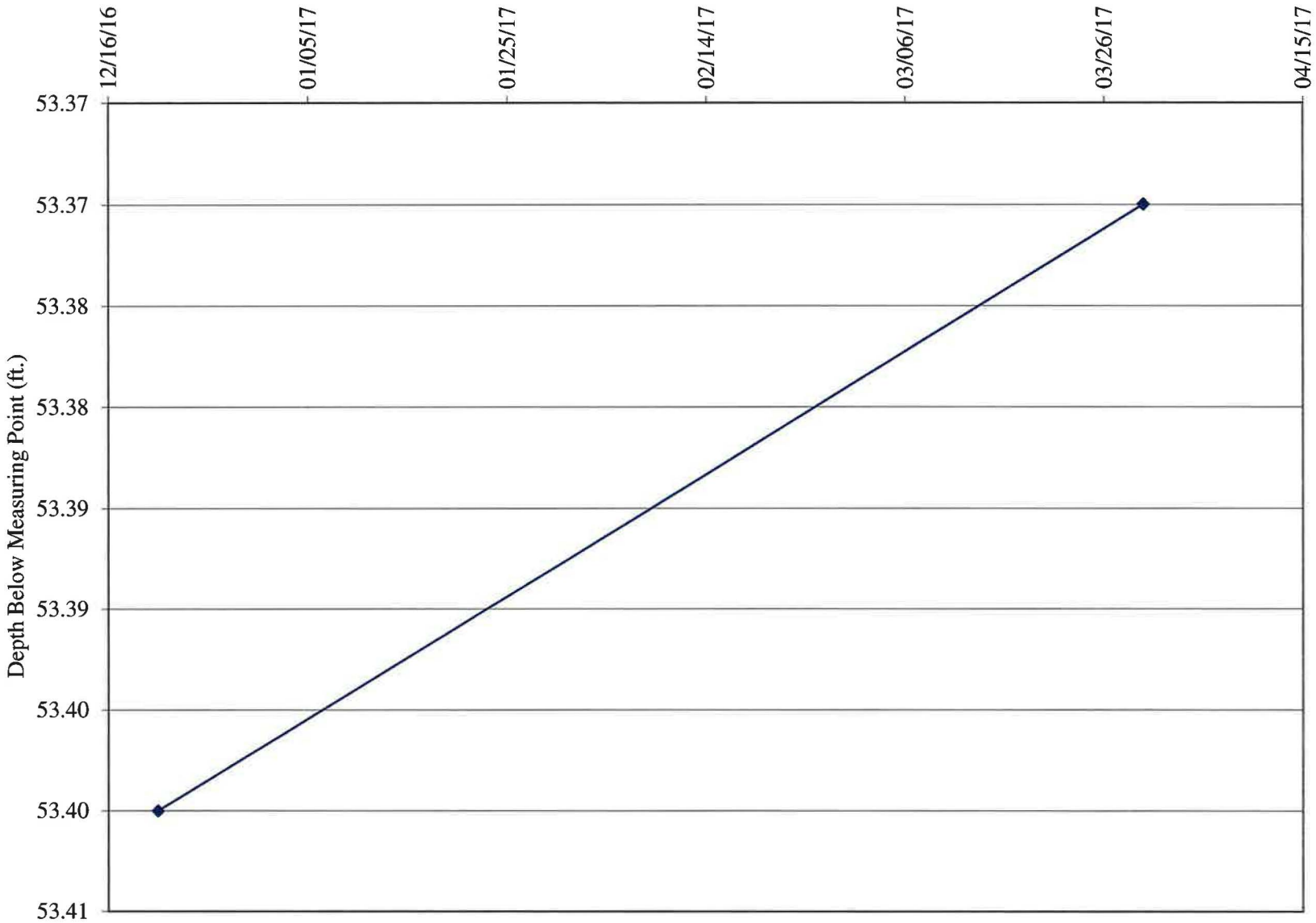


TW4-37 Water Depth Over Time (ft. blmp)

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	
5,576.62				03/30/17	53.37	52.20	

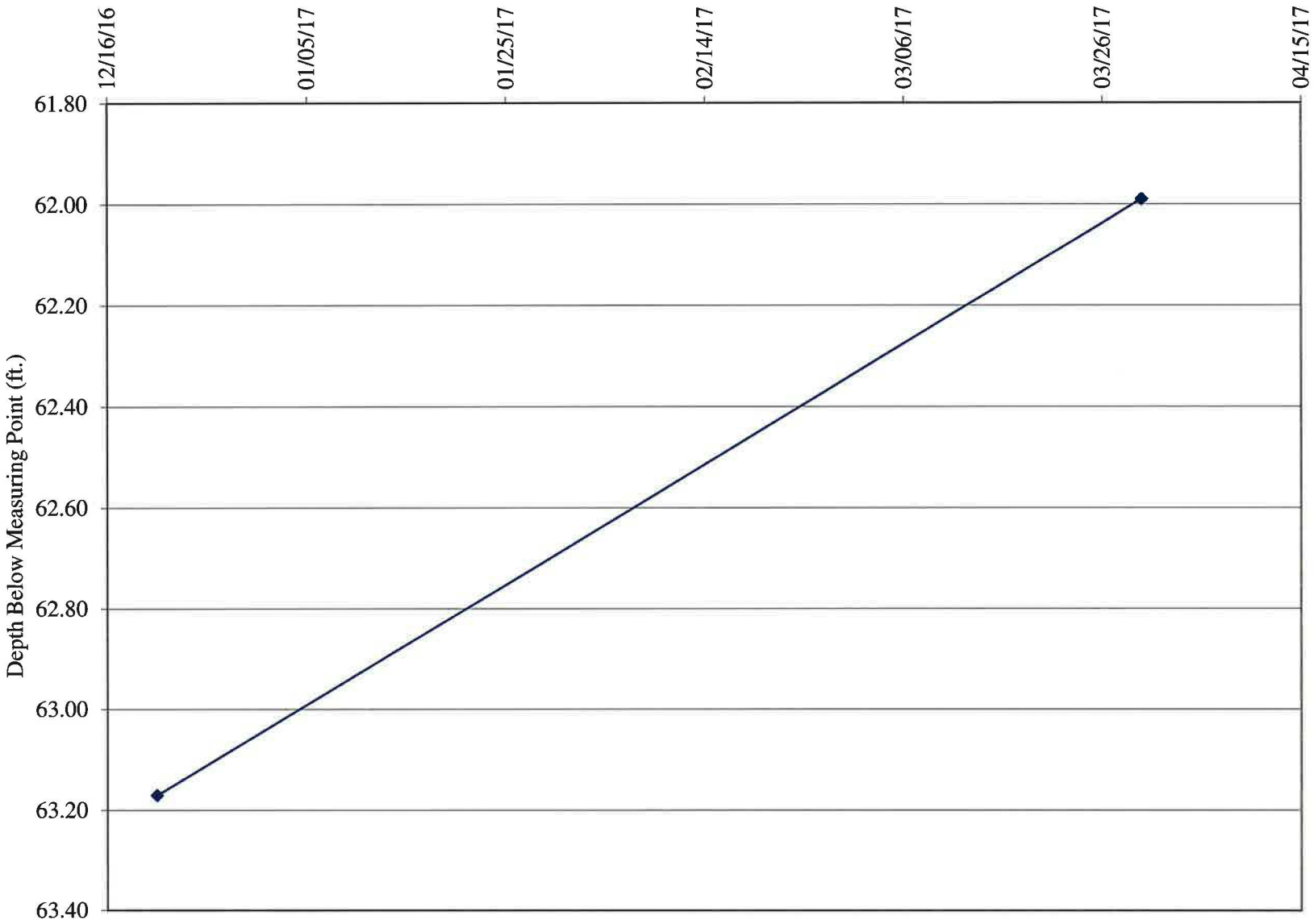
TW4-38 Water Depth Over Time (ft. blmp)



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	
5,567.57				03/30/17	61.99	61.25	

TW4-39 Water Depth Over Time (ft. blmp)



Tab G

Chloroform Mass Removed and Volume Pumped in Chloroform Pumping Wells Over Time

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

	MW-4						TW4-15 (formerly MW-26)					
Quarter	Total Pumped (gal)	Conc	Total Pumped (liters)	Total (ug)	Total (grams)	Total (pounds)	Total Pumped (gal)	Conc	Total Pumped (liters)	Total (ug)	Total (grams)	Total (pounds)
Q1 2007	1307110	3370.0	4947411.4	1.6673E+10	16673	36.8	930510	1660.0	3521980.4	5846487381	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	3066122520	3066	6.8	58050	410.0	219719.3	90084892.5	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	2196374940	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	93900172.5	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
Q1 2017	76642.3	1450.0	290091.1	420632103	421	0.9	26107.0	1290.0	98815.0	127471344	127	0.3
Totals	5176409.68					91.5	2531889.4					32.7

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	6.8151E+10	68151	150.2	642290	16240	2431067.7	3.9481E+10	39481	87.0
Q2 2007	605400	8	2291439.0	18331512	18	0.0	163520	1800	618923.2	1114061760	1114	2.5
Q3 2007	316080	1100	1196362.8	1315999080	1316	2.9	70360	5200	266312.6	1384825520	1385	3.1
Q4 2007	334350	1100	1265514.8	1392066225	1392	3.1	63630	9000	240839.6	2167555950	2168	4.8
Q1 2008	304784	1800	1153607.4	2076493392	2076	4.6	66520	13000	251778.2	3273116600	3273	7.2
Q2 2008	380310	1000	1439473.4	1439473350	1439	3.2	39360	30000	148977.6	4469328000	4469	9.9
Q3 2008	529020	3600	2002340.7	7208426520	7208	15.9	53260	21000	201589.1	4233371100	4233	9.3
Q4 2008	589620	4200	2231711.7	9373189140	9373	20.7	50230	1000	190120.6	190120550	190	0.4
Q1 2009	469100	1100	1775543.5	1953097850	1953	4.3	52050	8200	197009.3	1615475850	1615	3.6
Q2 2009	450040	990	1703401.4	1686367386	1686	3.7	49270	6800	186487.0	1268111260	1268	2.8
Q3 2009	200650	6600	759460.3	5012437650	5012	11.1	51030	13000	193148.6	2510931150	2511	5.5
Q4 2009	454205	4700	1719165.9	8080079848	8080	17.8	208790	15000	790270.2	1.1854E+10	11854	26.1
Q1 2010	348550	940	1319261.8	1240106045	1240	2.7	14490	3500	54844.7	191956275	192	0.4
Q2 2010	453340	1800	1715891.9	3088605420	3089	6.8	39014.86	18000	147671.2	2658082412	2658	5.9
Q3 2010	116899.2	2000	442463.5	884926944	885	2.0	39098.3	15000	147987.1	2219805983	2220	4.9
Q4 2010	767970.5	1200	2906768.3	3488122011	3488	7.7	36752.5	24000	139108.2	3338597100	3339	7.4
Q1 2011	454607.9	3400	1720690.9	5850349065	5850	12.9	37187.5	31000	140754.7	4363395313	4363	9.6
Q2 2011	159238.9	4000	602719.2	2410876946	2411	5.3	67907.7	8100	257030.6	2081948220	2082	4.6
Q3 2011	141542.6	970	535738.7	519666579	520	1.1	72311.2	6800	273697.9	1861145666	1861	4.1
Q4 2011	147647.2	2200	558844.7	1229458234	1229	2.7	72089.3	7900	272858.0	2155578204	2156	4.8
Q1 2012	148747	650	563007.4	365954807	366	0.8	76306	11000	288818.2	3177000310	3177	7.0
Q2 2012	172082.03	460	651330.5	299612022	300	0.7	22956.43	36000	86890.1	3128043152	3128	6.9
Q3 2012	171345	950	648540.8	616113784	616	1.4	22025	13000	83364.6	1083740125	1084	2.4
Q4 2012	156653	1500	592931.6	889397408	889	2.0	20114	19000	76131.5	1446498310	1446	3.2
Q1 2013	210908	4210	798286.8	3360787344	3361	7.4	18177	18500	68799.9	1272798983	1273	2.8
Q2 2013	226224	2070	856257.8	1772453729	1772	3.9	20252.4	26300	76655.3	2016035284	2016	4.4
Q3 2013	329460.1	8100	1247006.5	1.0101E+10	10101	22.3	19731	26800	74681.8	2001473178	2001	4.4
Q4 2013	403974	942	1529041.6	1440357178	1440	3.2	19280.2	15700	72975.6	1145716245	1146	2.5
Q1 2014	304851	586	1153861.0	676162567	676	1.5	18781.6	17800	71088.4	1265372737	1265	2.8
Q2 2014	297660.0	810	1126643.1	912580911	913	2.0	18462.4	22100	69880.2	1544352066	1544	3.4
Q3 2014	309742.0	1410	1172373.5	1653046593	1653	3.6	17237.9	12400	65245.5	809043599	809	1.8
Q4 2014	198331.0	4310	750682.8	3235443019	3235	7.1	16341.8	23300	61853.7	1441191513	1441	3.2
Q1 2015	60553.0	4660	229193.1	1068039869	1068	2.4	15744.7	19900	59593.7	1185914421	1186	2.6
Q2 2015	75102.8	1570	284264.1	446294634	446	1.0	18754.1	17600	70984.3	1249323126	1249	2.8
Q3 2015	116503.9	7860	440967.3	3466002675	3466	7.6	17657.3	17000	66832.9	1136158969	1136	2.5
Q4 2015	112762.7	7840	426806.8	3346165465	3346	7.4	15547.4	17000	58846.9	1000397453	1000	2.2
Q1 2016	116597.0	7780	441319.6	3433466838	3433	7.6	14353.5	21600	54328.0	1173484746	1173	2.6
Q2 2016	123768.0	12600	468461.9	5902619688	5903	13.0	15818.3	33700	59872.3	2017695347	2018	4.4
Q3 2016	103609.0	6040	392160.1	2368646793	2369	5.2	12186.6	23600	46126.3	1088580232	1089	2.4
Q4 2016	104919.4	6640	397119.9	2636876329	2637	5.8	12879.6	21300	48749.3	1038359792	1038	2.3
Q1 2017	110416.7	1240	417927.2	518229740	518	1.1	13552.8	23400	51297.3	1200357943	1200	2.6
Totals	17846550.93					385.7	2315321.39					273.1

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

	TW4-4						TW4-22					
Quarter	Total Pumped (gal)	Conc	Total Pumped (liters)	Total (ug)	Total (grams)	Total (pounds)	Total Pumped (gal)	Conc	Total Pumped (liters)	Total (ug)	Total (grams)	Total (pounds)
Q1 2007	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Q2 2007	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Q3 2007	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Q4 2007	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Q1 2008	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Q2 2008	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Q3 2008	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Q4 2008	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Q1 2009	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Q2 2009	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Q3 2009	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Q4 2009	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Q1 2010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Q2 2010	84513.9	2000	319885.1	6.4E+08	640	1.4	NA	NA	NA	NA	NA	NA
Q3 2010	76916.8	2100	291130.1	6.1E+08	611	1.3	NA	NA	NA	NA	NA	NA
Q4 2010	86872.1	1700	328810.9	5.6E+08	559	1.2	NA	NA	NA	NA	NA	NA
Q1 2011	73360.0	1800	277667.6	5.0E+08	500	1.1	NA	NA	NA	NA	NA	NA
Q2 2011	80334.6	1700	304066.5	5.2E+08	517	1.1	NA	NA	NA	NA	NA	NA
Q3 2011	97535.0	1500	369170.0	5.5E+08	554	1.2	NA	NA	NA	NA	NA	NA
Q4 2011	109043.5	1500	412729.6	6.2E+08	619	1.4	NA	NA	NA	NA	NA	NA
Q1 2012	101616.8	1200	384619.6	4.6E+08	462	1.0	NA	NA	NA	NA	NA	NA
Q2 2012	87759.1	1500	332168.2	5.0E+08	498	1.1	NA	NA	NA	NA	NA	NA
Q3 2012	80006.0	1600	302822.7	4.8E+08	485	1.1	NA	NA	NA	NA	NA	NA
Q4 2012	71596	1400	270990.9	3.8E+08	379	0.8	NA	NA	NA	NA	NA	NA
Q1 2013	58716.8	1460	222243.1	3.2E+08	324	0.7	16677.4	10600	63124.0	669113965.4	669.1	1.5
Q2 2013	65603.4	1330	248308.9	3.3E+08	330	0.7	25523.2	12500	96605.3	1207566400.0	1207.6	2.7
Q3 2013	63515.4	1380	240405.8	3.3E+08	332	0.7	25592.9	9640	96869.1	933818379.5	933.8	2.1
Q4 2013	60233.6	1360	227984.2	3.1E+08	310	0.7	24952.2	13300	94444.1	1256106224.1	1256.1	2.8
Q1 2014	58992.9	1260	223288.1	2.8E+08	281	0.6	24532.0	12100	92853.6	1123528802.0	1123.5	2.5
Q2 2014	60235.3	1220	227990.6	2.8E+08	278	0.6	24193.9	12400	91573.9	1135516502.6	1135.5	2.5
Q3 2014	69229.4	1320	262033.3	3.5E+08	346	0.8	24610.9	12400	93152.3	1155087980.6	1155.1	2.5
Q4 2014	64422.6	1130	243839.5	2.8E+08	276	0.6	23956.9	12400	90676.9	1124393144.6	1124.4	2.5
Q1 2015	36941.3	1350	139822.8	1.9E+08	189	0.4	22046.9	12700	83447.5	1059783459.6	1059.8	2.3
Q2 2015	68162.8	1280	257996.2	3.3E+08	330	0.7	23191.6	8050	87780.2	706630658.3	706.6	1.6
Q3 2015	64333.0	1220	243500.4	3.0E+08	297	0.7	24619.9	7810	93186.3	727785170.9	727.8	1.6
Q4 2015	59235.1	1190	224204.9	2.7E+08	267	0.6	23657.6	7530	89544.0	674266440.5	674.3	1.5
Q1 2016	57274.0	1190	216782.1	2.6E+08	258	0.6	24517.8	6070	92799.9	563295229.1	563.3	1.2
Q2 2016	61378.0	1780	232315.7	4.1E+08	414	0.9	26506.3	8570	100326.3	859796780.9	859.8	1.9
Q3 2016	50104.2	1380	189644.4	2.6E+08	262	0.6	22144.1	5840	83815.4	489482044.0	489.5	1.1
Q4 2016	31656.0	1430	119818.0	1.7E+08	171	0.4	23646.8	3370	89503.1	301625575.1	301.6	0.7
Q1 2017	23526.8	1290	89048.9	1.1E+08	115	0.3	24066.2	5320	91090.6	484601816.4	484.6	1.1
Totals	1903114.4					23.4	404436.6					31.9

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
Q1 2017	99117.4	18.30	375159.4	6865416.3	6.9	0.015	161.2	1.15	610.1	701.7	0.0	0.0
Totals	2443708.2					0.83	1849896.8					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
Q1 2017	16931.8	519	64086.9	33261081.9	33.3	0.07	19869.7	1570	75206.8	118074698.8	118.1	0.26
Totals	181121.3					1.63	188209.6					2.8

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
Q1 2017	2984.2	3310	11295.2	37387102.1	37.4	0.08	54333.5	598.0	205652.3	122980073.9	123.0	0.27
Totals	39261.5					0.88	843592.7					2.94

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	0.08	25.6	750667.4
Q1 2017	97071.7	18000	367416	6613494921.0	6613.5	14.6	103117.8	6460	390301	2521343639.6	2521.3	5.56	27.2	667899.1
Totals	787238.0					118.4	106716.1					5.6	971.3	36510750.5

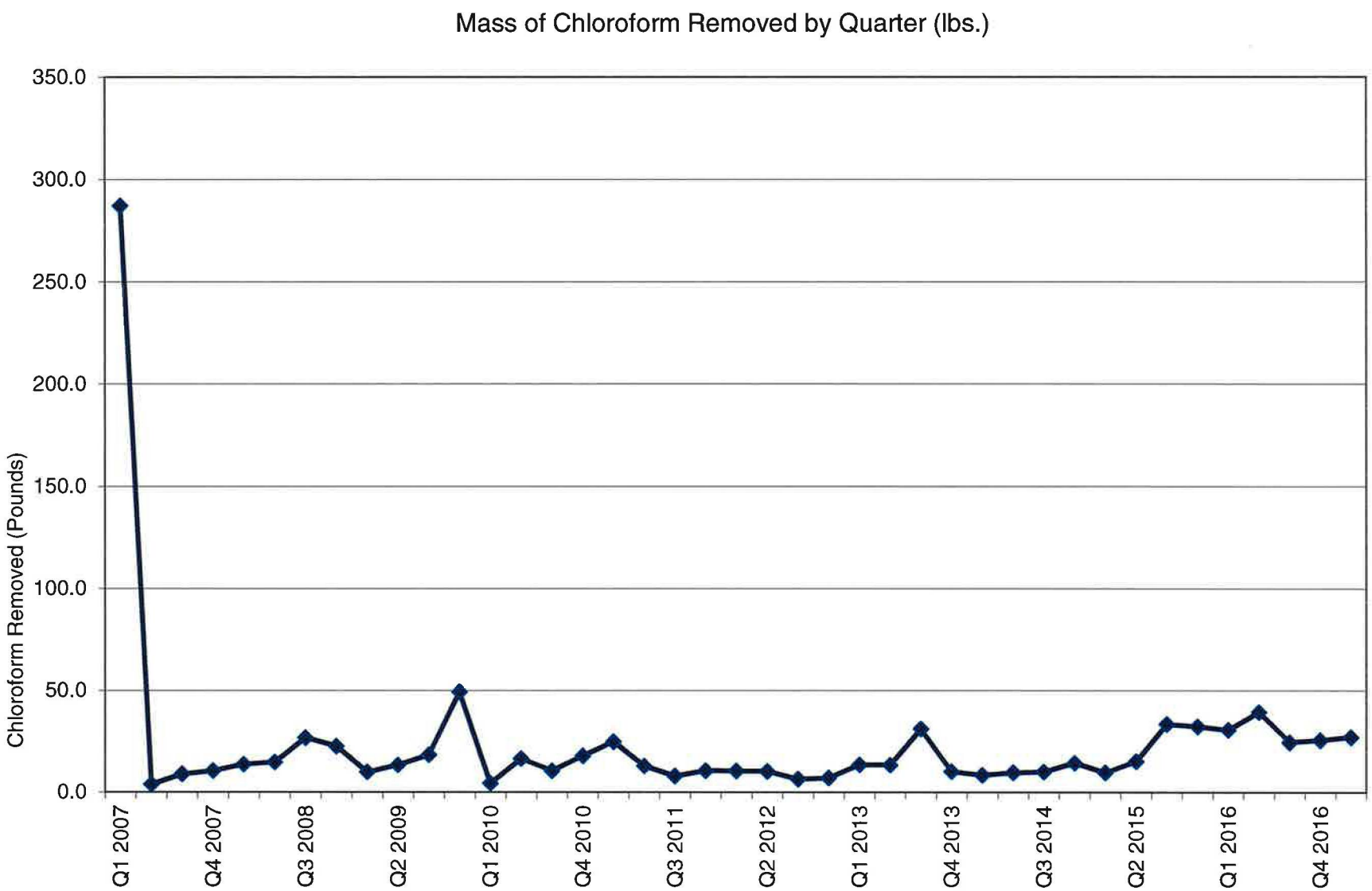
Table G-2
Chloroform Mass Removal Per Well Per Quarter

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
Q1 2017	0.9	0.3	1.1	2.6	0.3	1.1	0.015	0.0	0.07	0.26	0.08	0.27	14.6	5.6	27.2
Well Totals	91.5	32.7	385.7	273.1	23.4	31.9	0.83	0.00	1.63	2.77	0.88	2.94	118.4	5.6	**971.3**

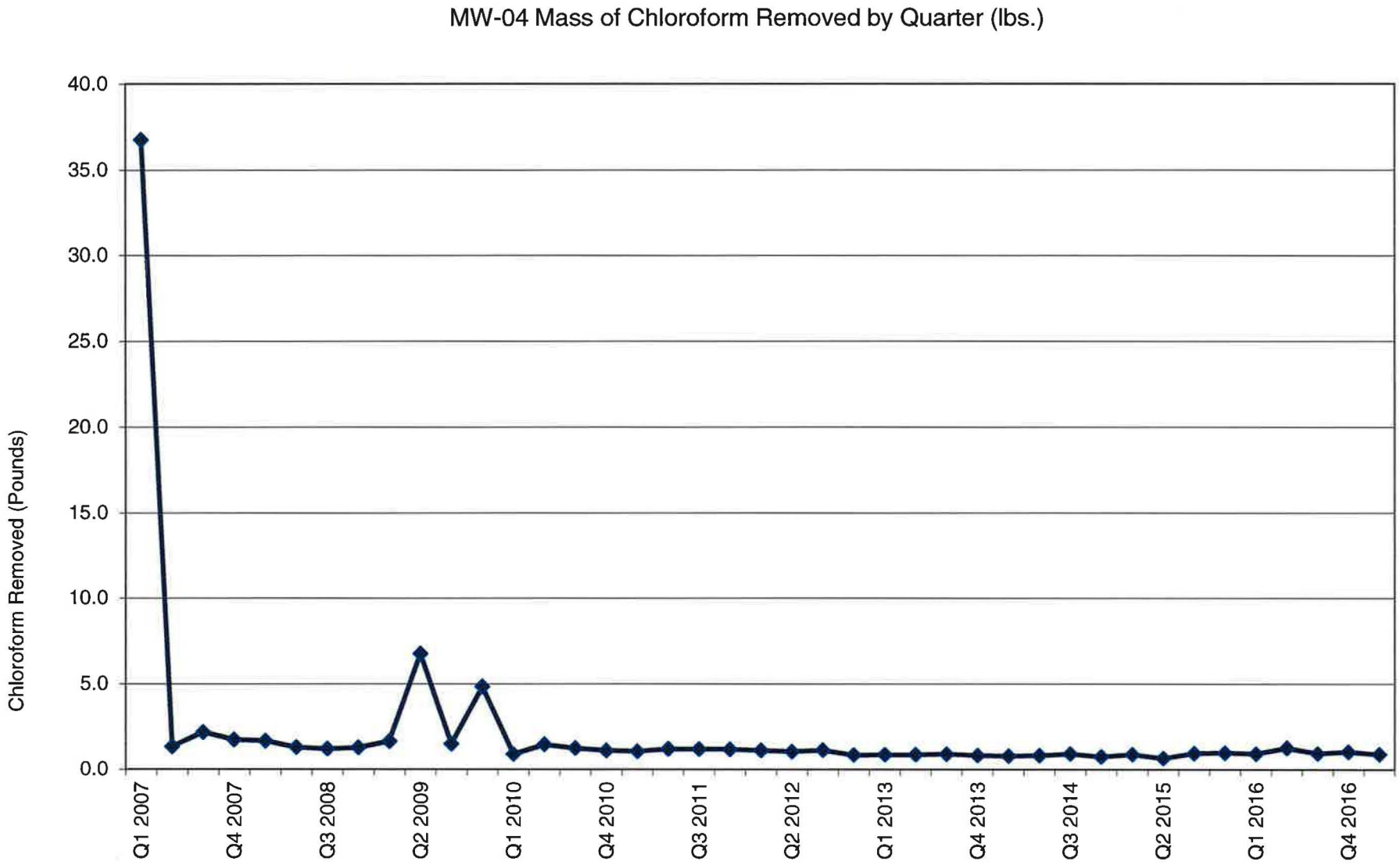
* Q1 2007 represents the cumulative total prior to and including Q1 2007.

Table G-3 Well Pumping Rates and Volumes

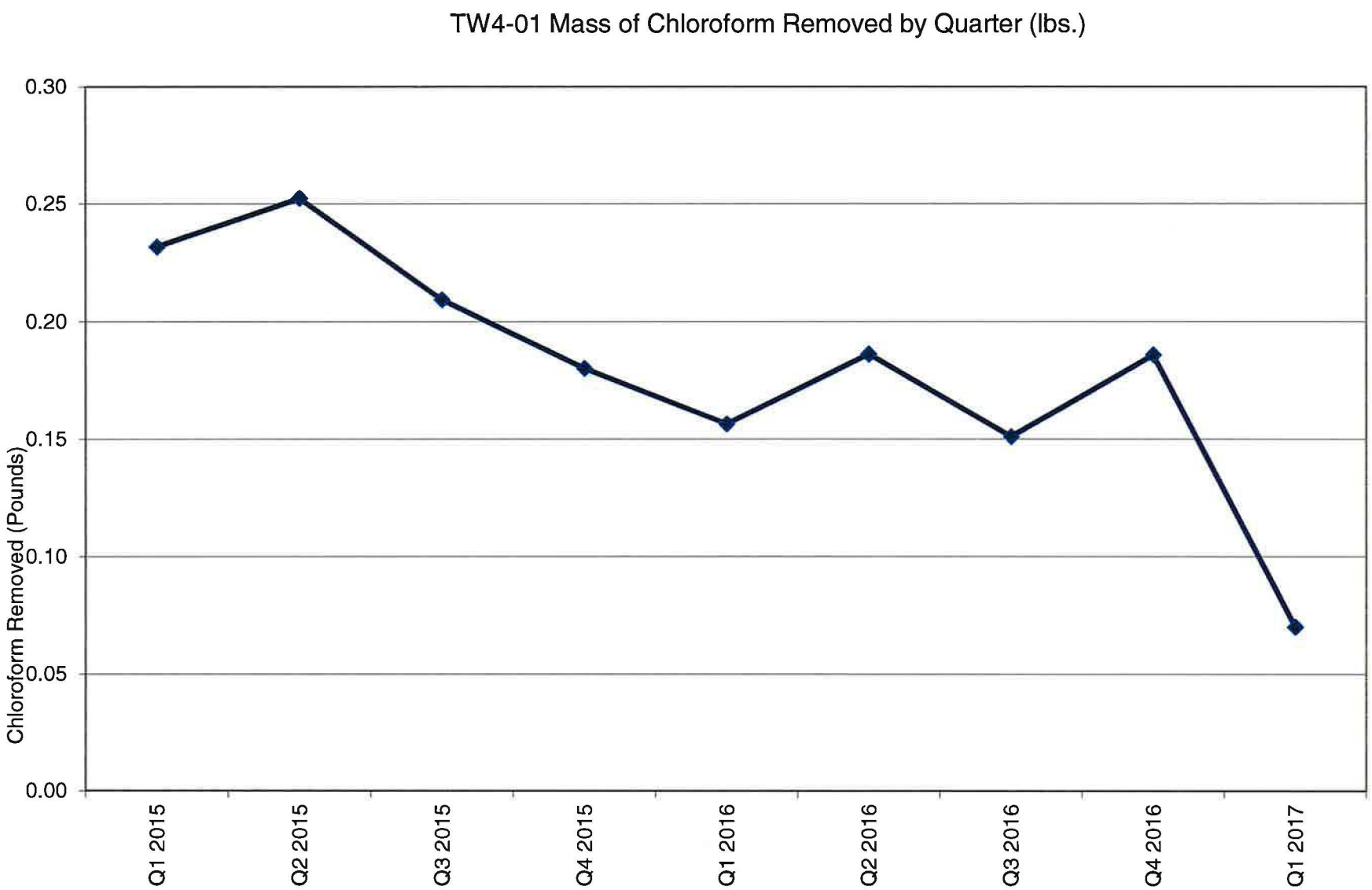
Pumping Well Name	Volume of Water Pumped During the Quarter (gals)	Average Pump Rate (gpm)
MW-4	76642.3	4.5
MW-26	26107.0	10.7
TW4-19	110416.7	18.0
TW4-20	13552.8	6.6
TW4-4	23526.8	17.0
TWN-2	45283.2	18.5
TW4-22	24066.2	16.9
TW4-24	99117.4	14.2
TW4-25	161.2	14.4
TW4-01	16931.8	15.7
TW4-02	19869.7	16.3
TW4-11	2984.2	16.0
TW4-21	54333.5	15.7
TW4-37	97071.7	16.9
TW4-39	103117.8	17.3

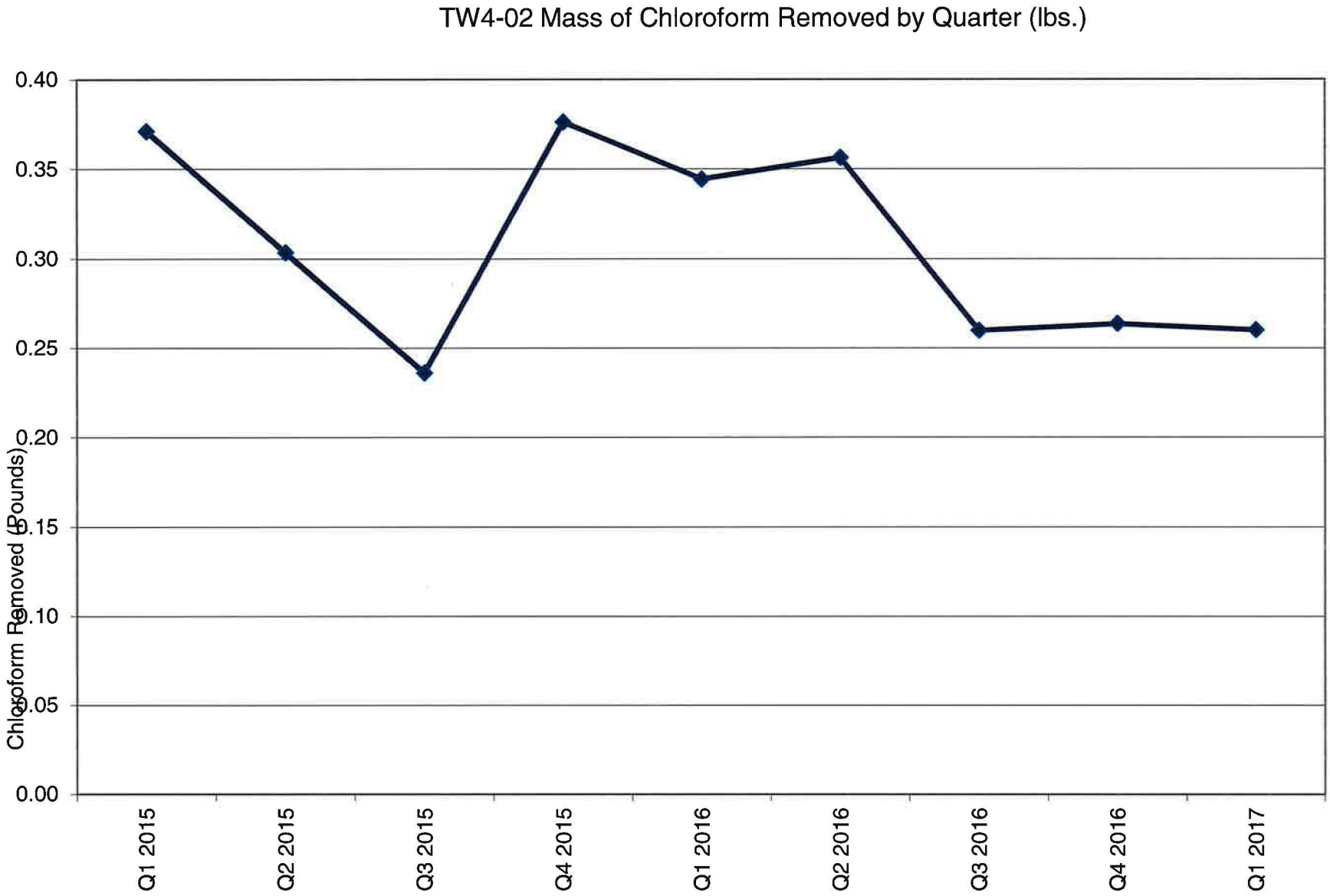


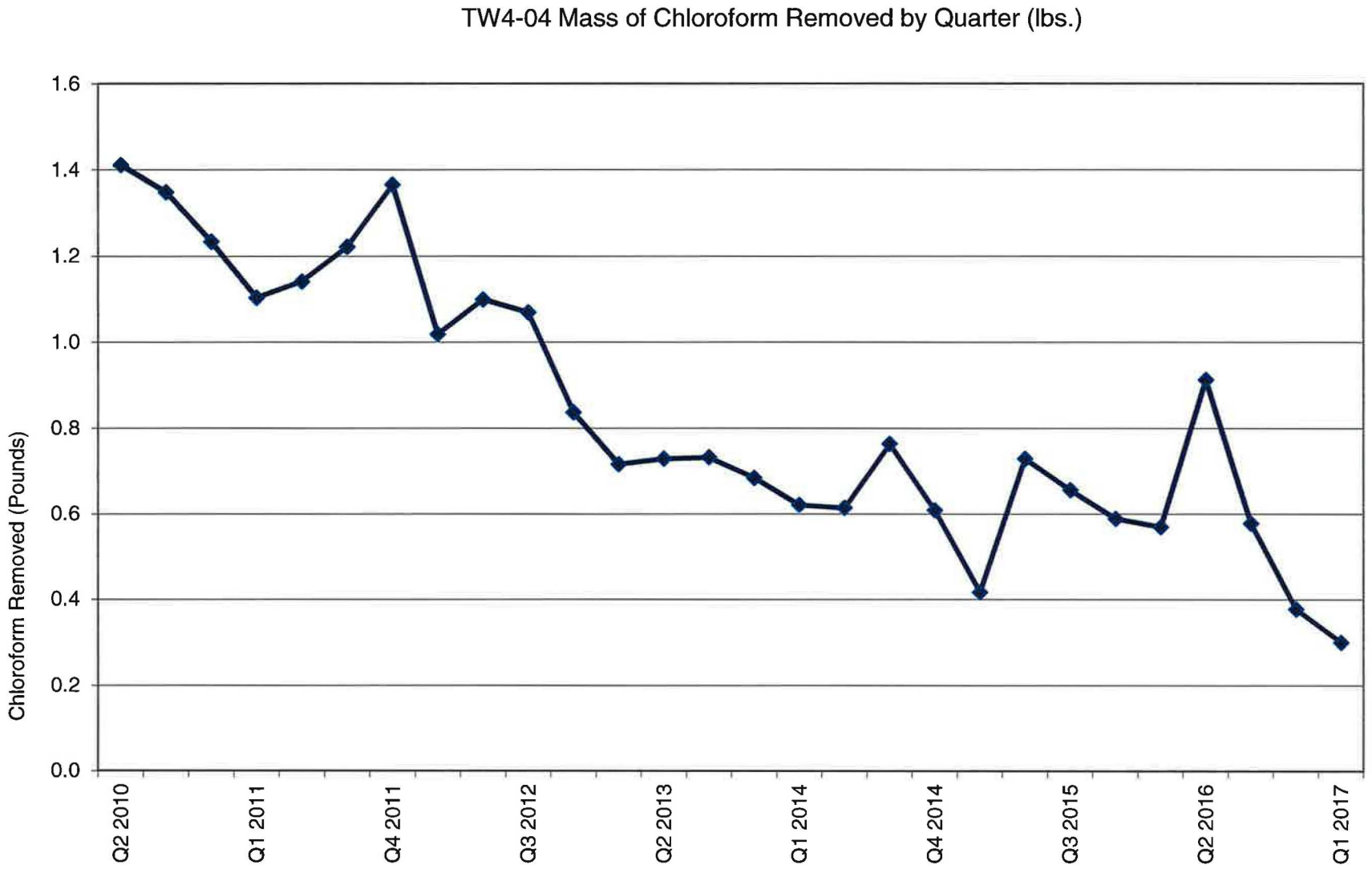
Q1 2007 represents the cumulative total prior to and including Q1 2007.

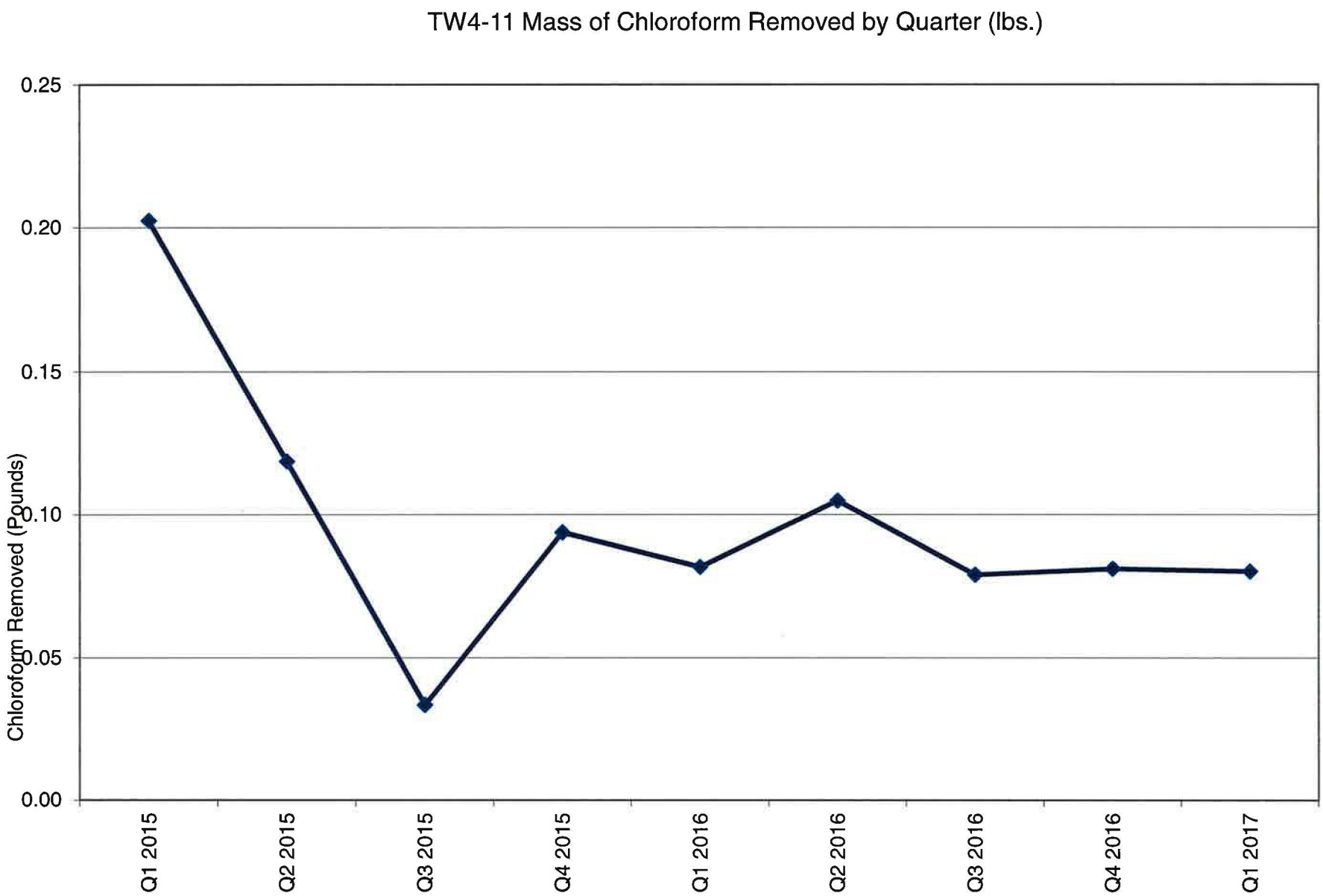


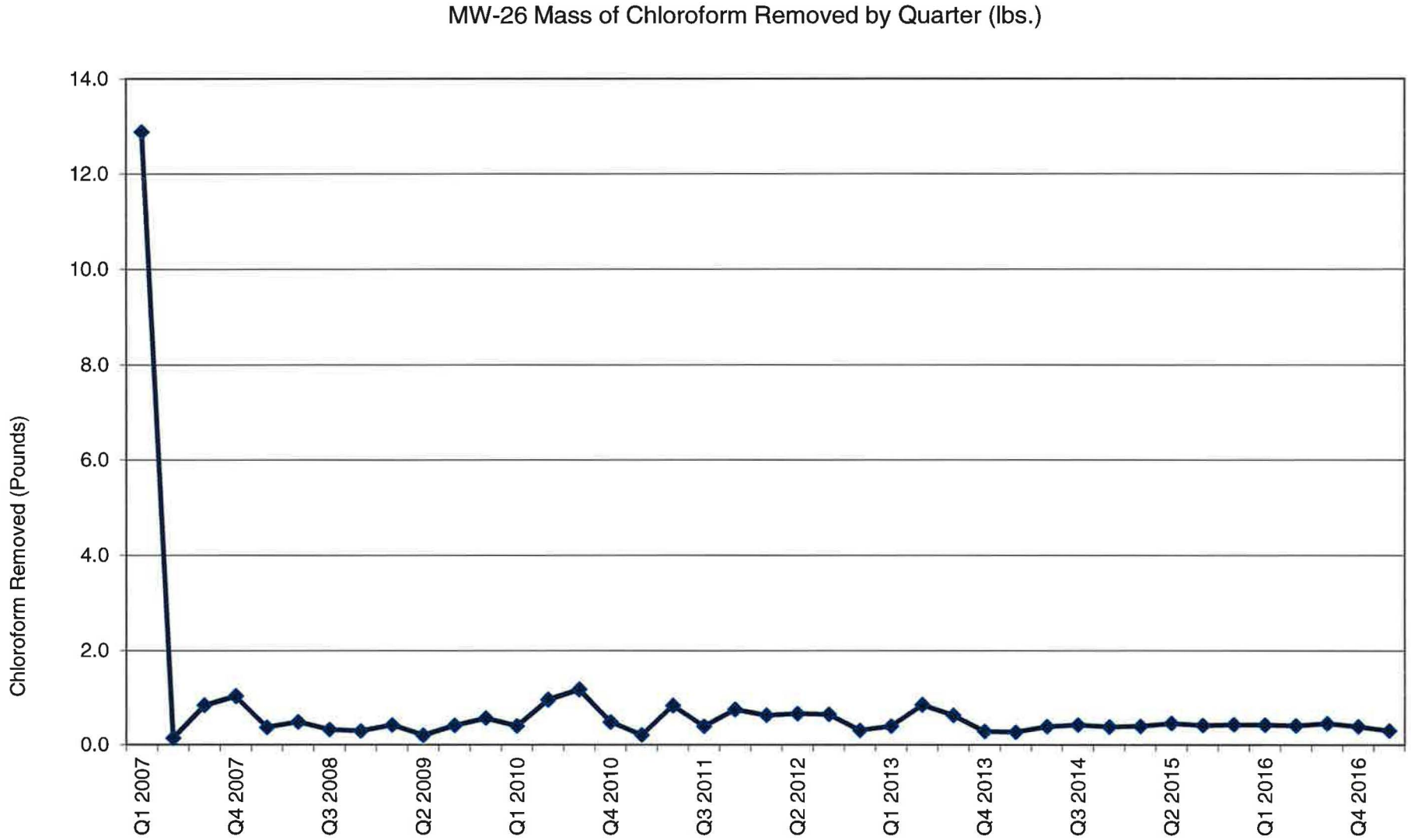
Q1 2007 represents the cumulative total prior to and including Q1 2007.


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
Q1 2017

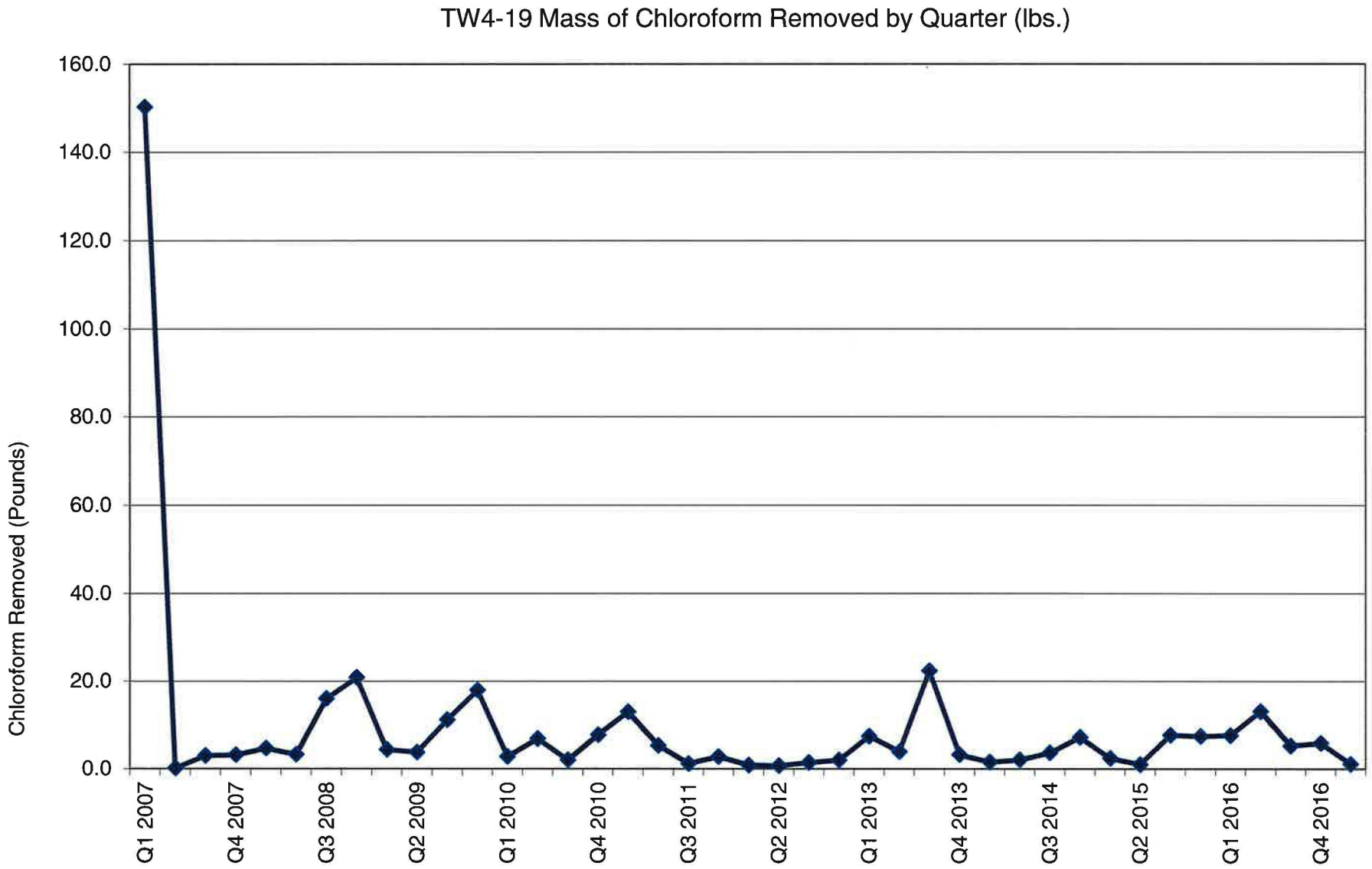

TW4-02 Mass of Chloroform Removed by Quarter (lbs.)
Chloroform Removed (Pounds)
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
Q1 2015
Q2 2015
Q3 2015
Q4 2015
Q1 2016
Q2 2016
Q3 2016
Q4 2016
Q1 2017


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
Q1 2017

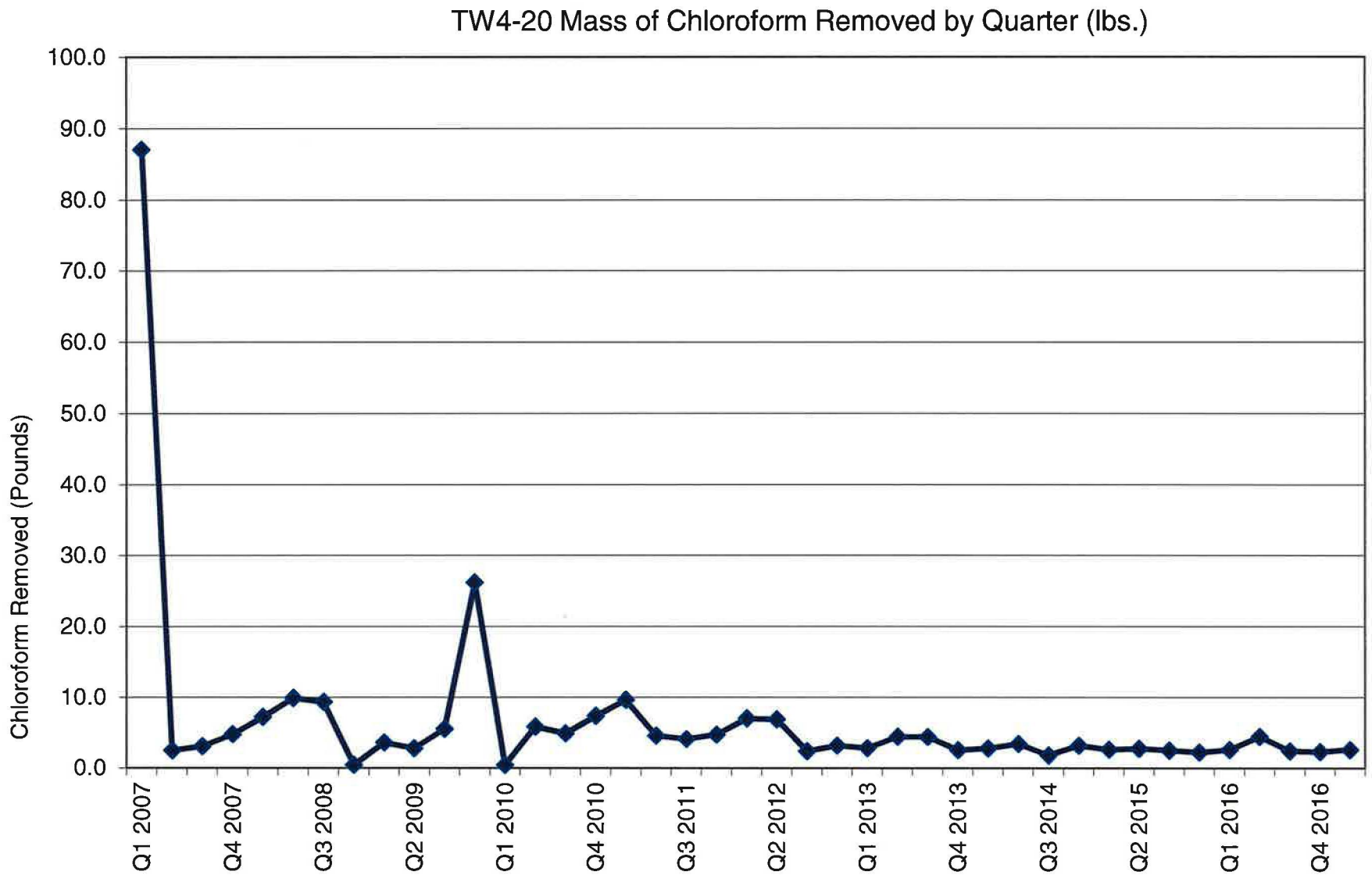

TW4-11 Mass of Chloroform Removed by Quarter (lbs.)
Chloroform Removed (Pounds)
0.25
0.20
0.15
0.10
0.05
0.00
Q1 2015
Q2 2015
Q3 2015
Q4 2015
Q1 2016
Q2 2016
Q3 2016
Q4 2016
Q1 2017



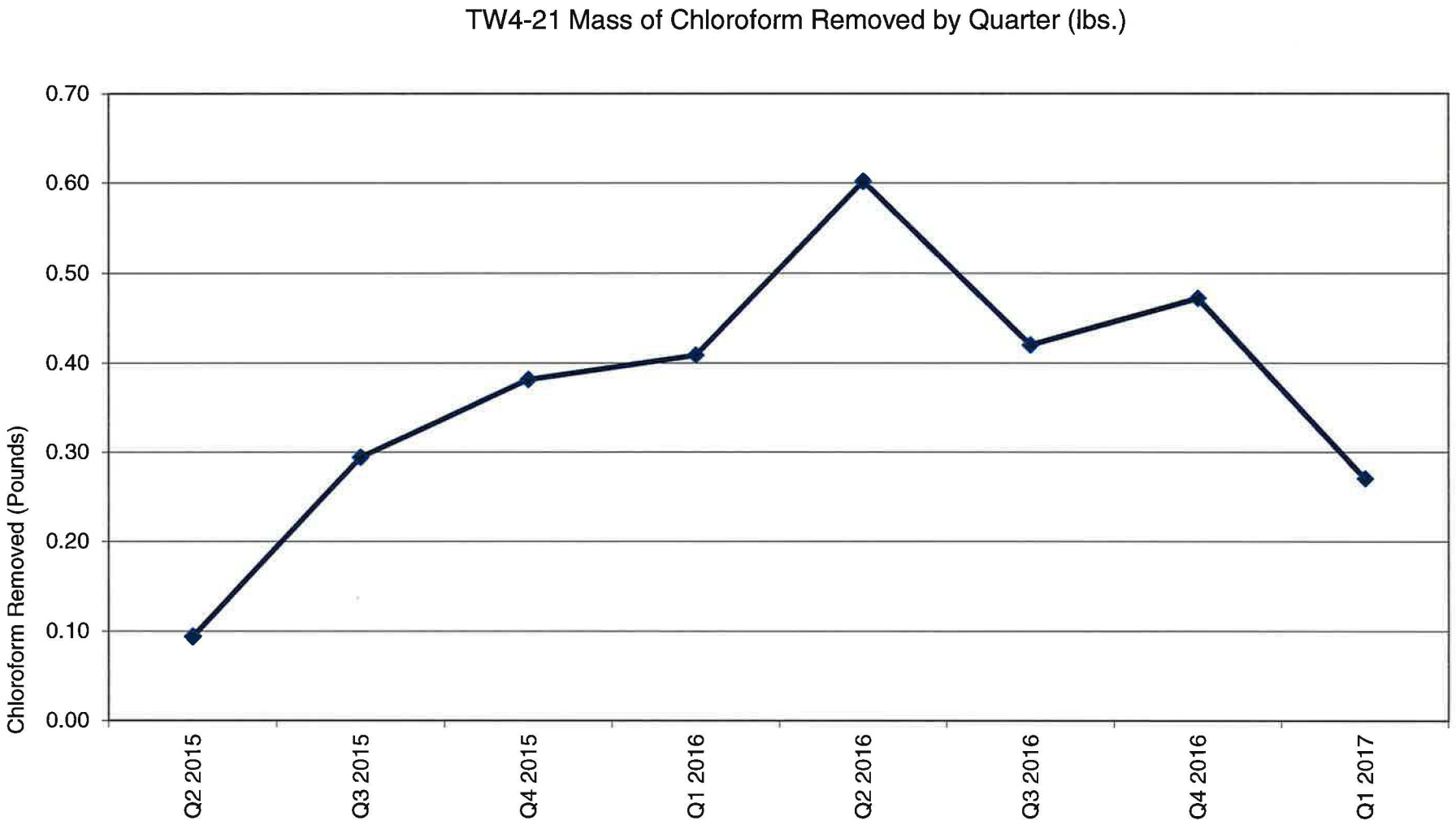
Q1 2007 represents the cumulative total prior to and including Q1 2007.

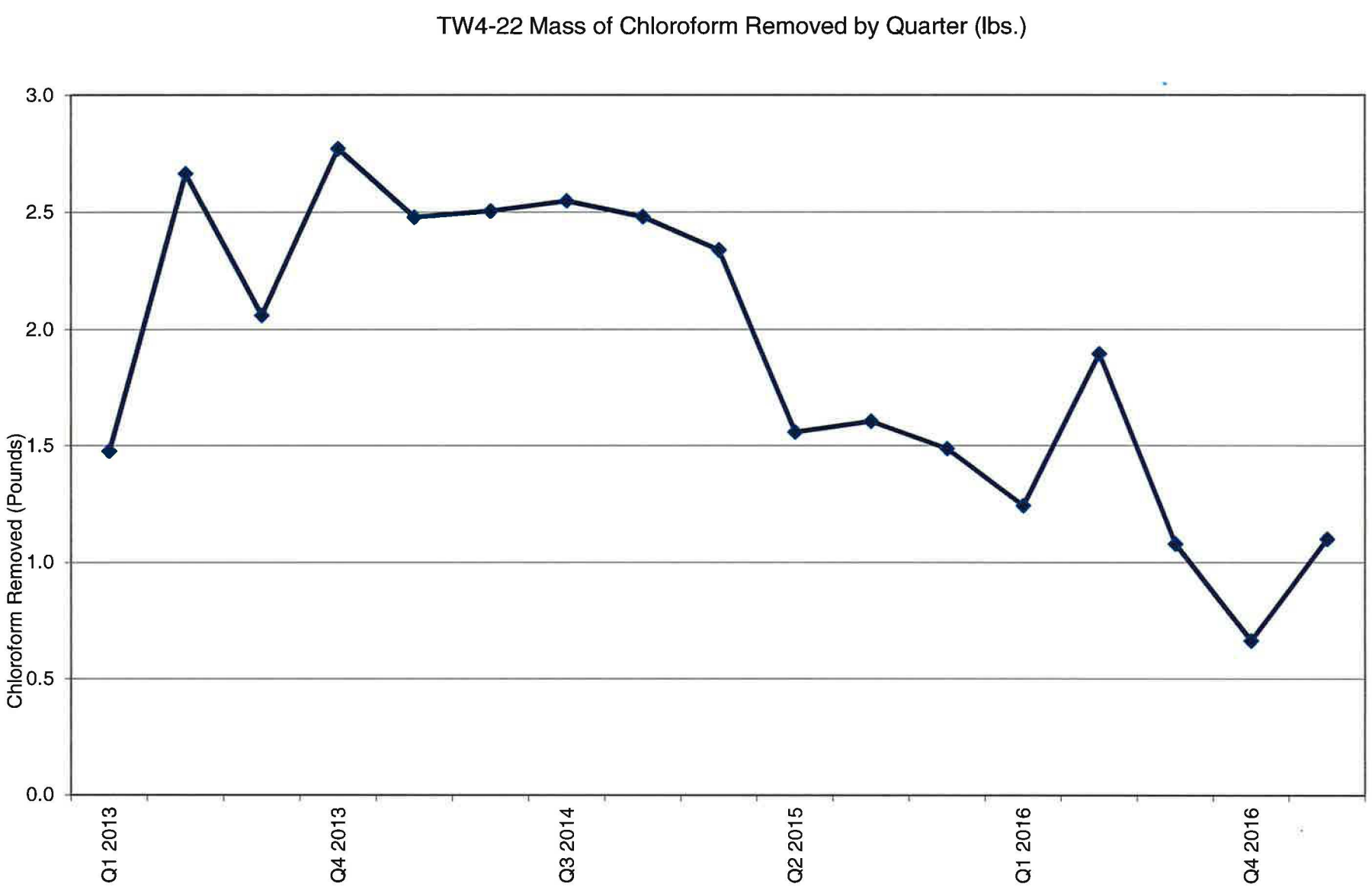


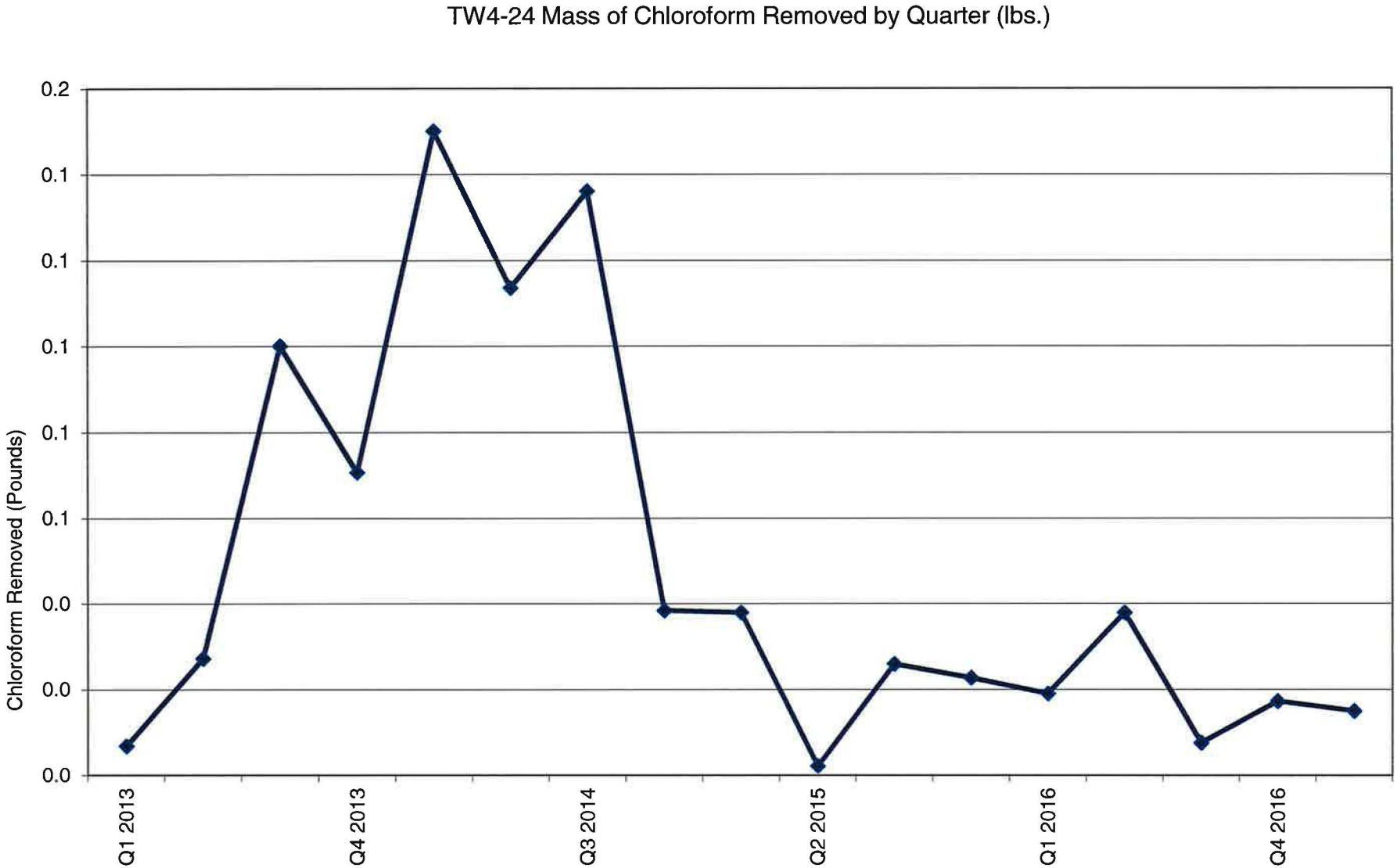
Q1 2007 represents the cumulative total prior to and including Q1 2007.

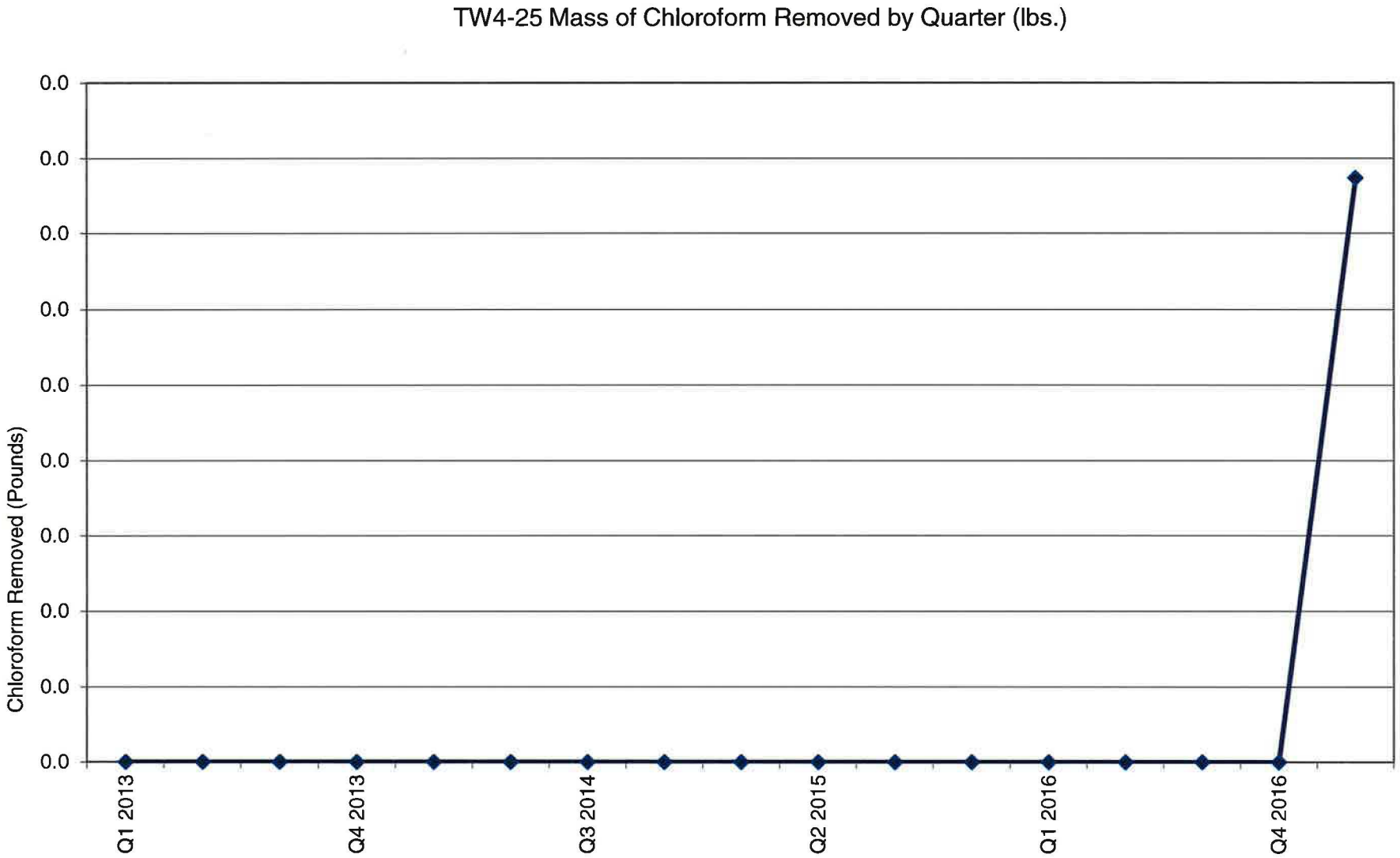


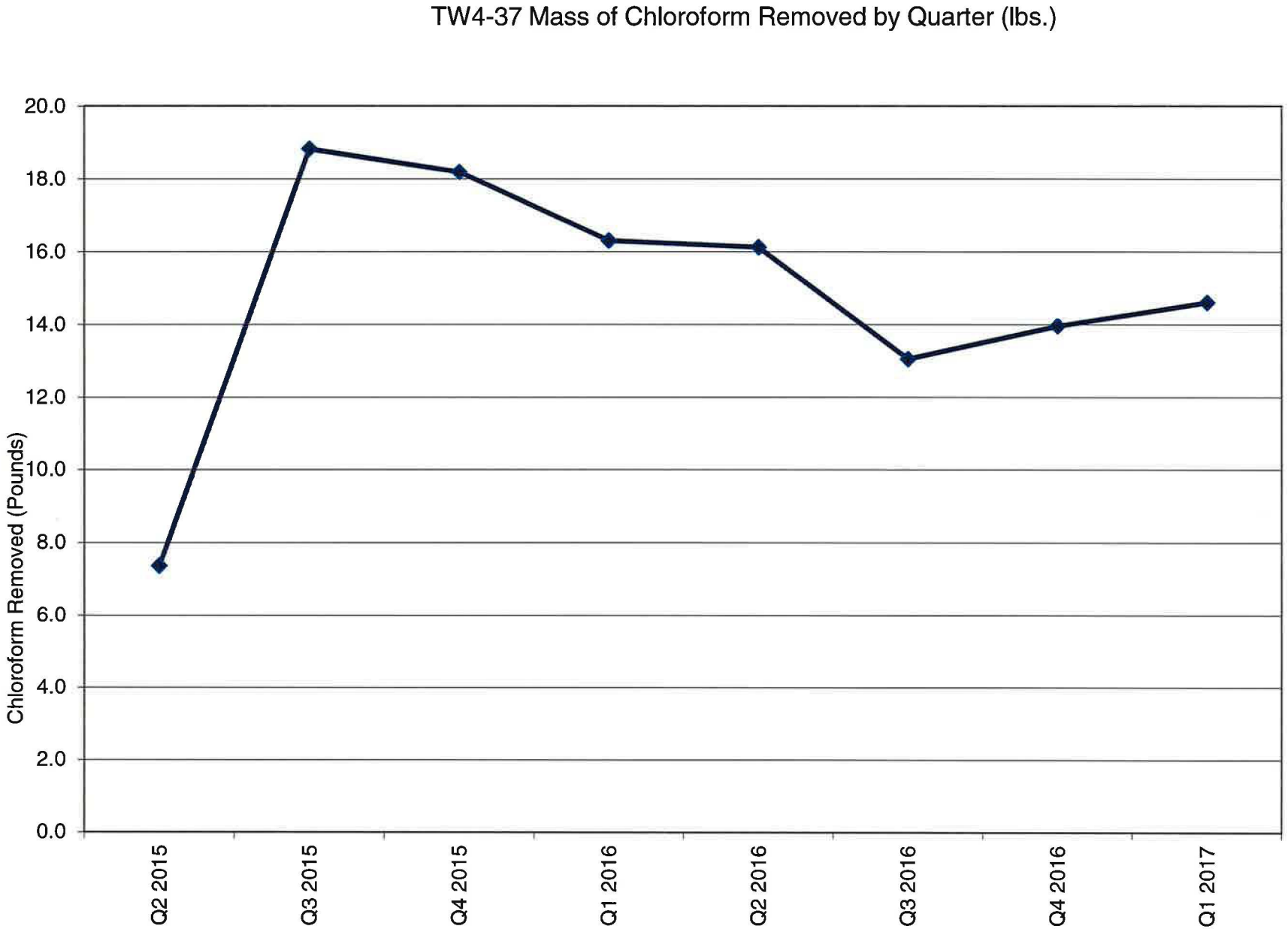
Q1 2007 represents the cumulative total prior to and including Q1 2007.

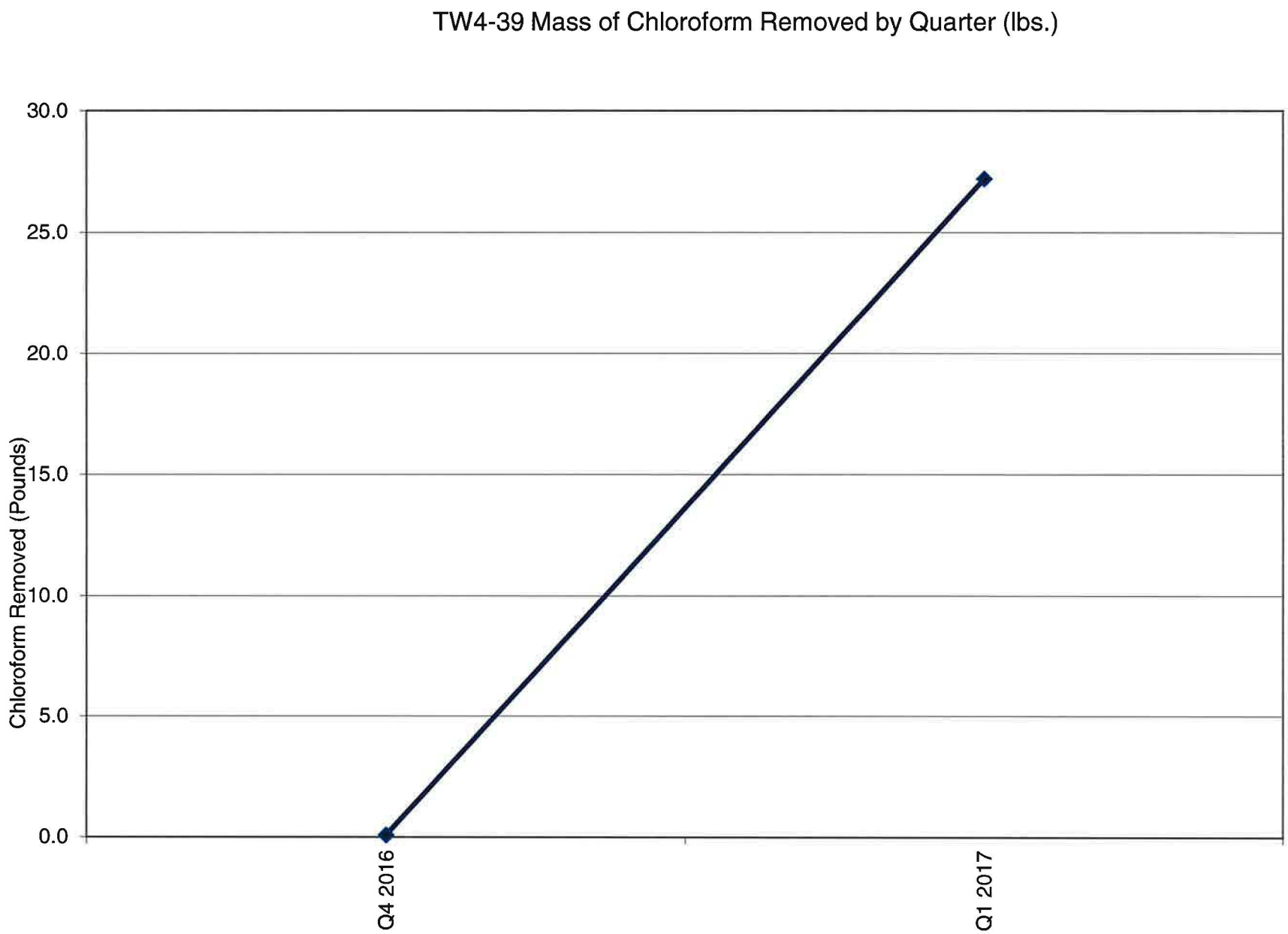

TW4-21 Mass of Chloroform Removed by Quarter (lbs.)
Chloroform Removed (Pounds)
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
Q2 2015
Q3 2015
Q4 2015
Q1 2016
Q2 2016
Q3 2016
Q4 2016
Q1 2017

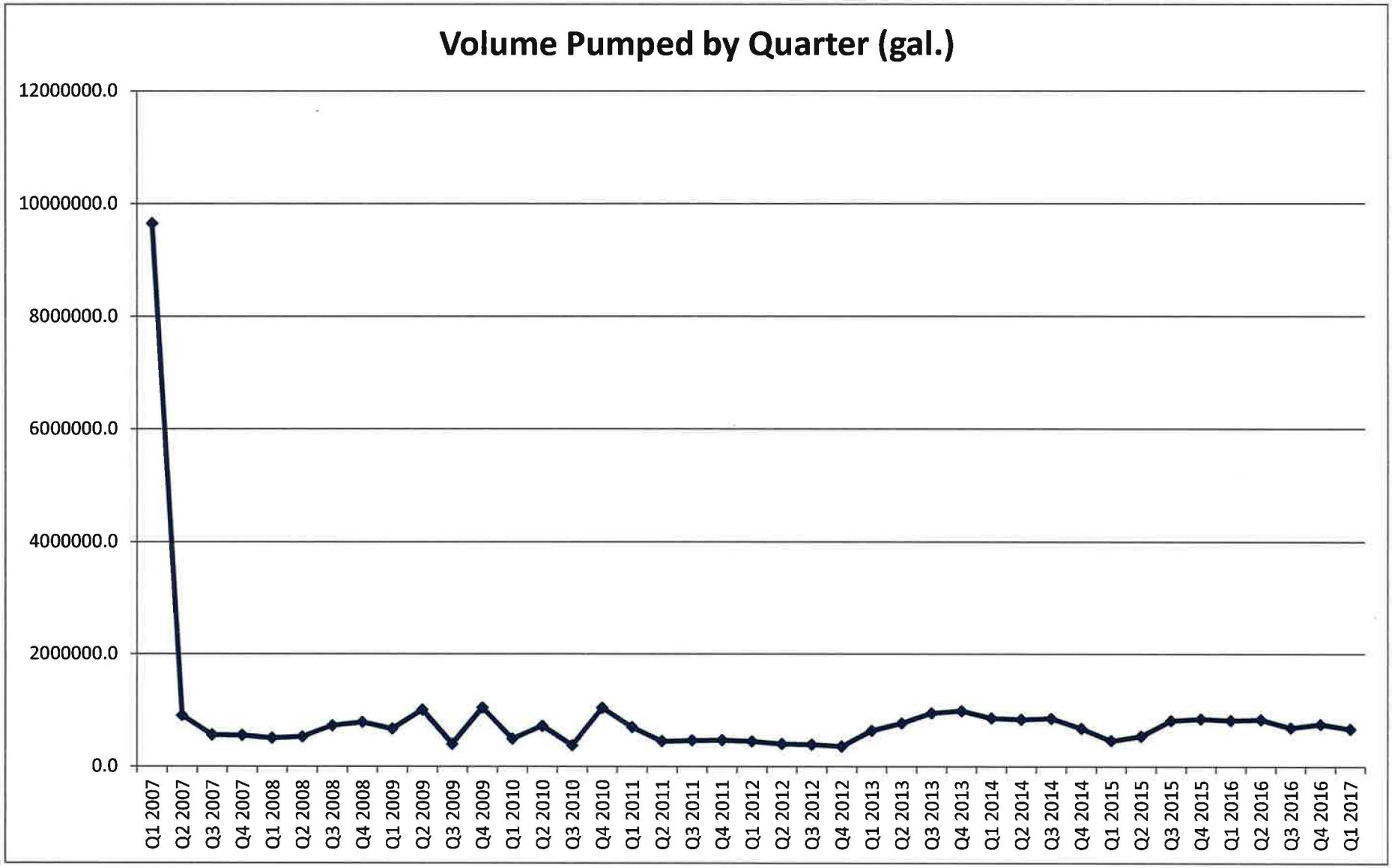

TW4-22 Mass of Chloroform Removed by Quarter (lbs.)
Chloroform Removed (Pounds)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Q1 2013
Q4 2013
Q3 2014
Q2 2015
Q1 2016
Q4 2016


TW4-24 Mass of Chloroform Removed by Quarter (lbs.)
Chloroform Removed (Pounds)
0.2
0.1
0.1
0.1
0.1
0.1
0.0
0.0
0.0
Q1 2013
Q4 2013
Q3 2014
Q2 2015
Q1 2016
Q4 2016

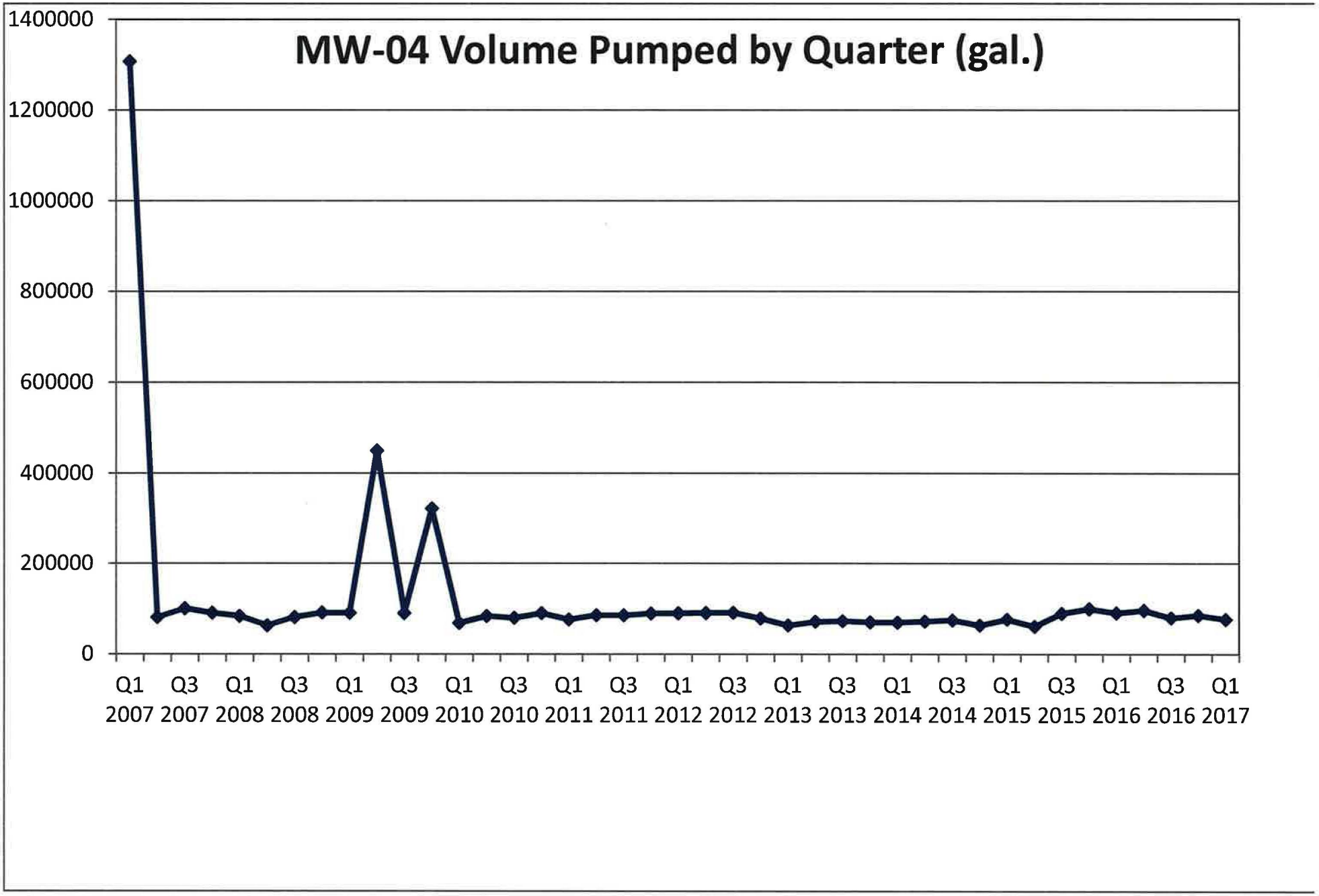

TW4-25 Mass of Chloroform Removed by Quarter (lbs.)
Chloroform Removed (Pounds)
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
Q1 2013
Q4 2013
Q3 2014
Q2 2015
Q1 2016
Q4 2016


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
Q1 2017

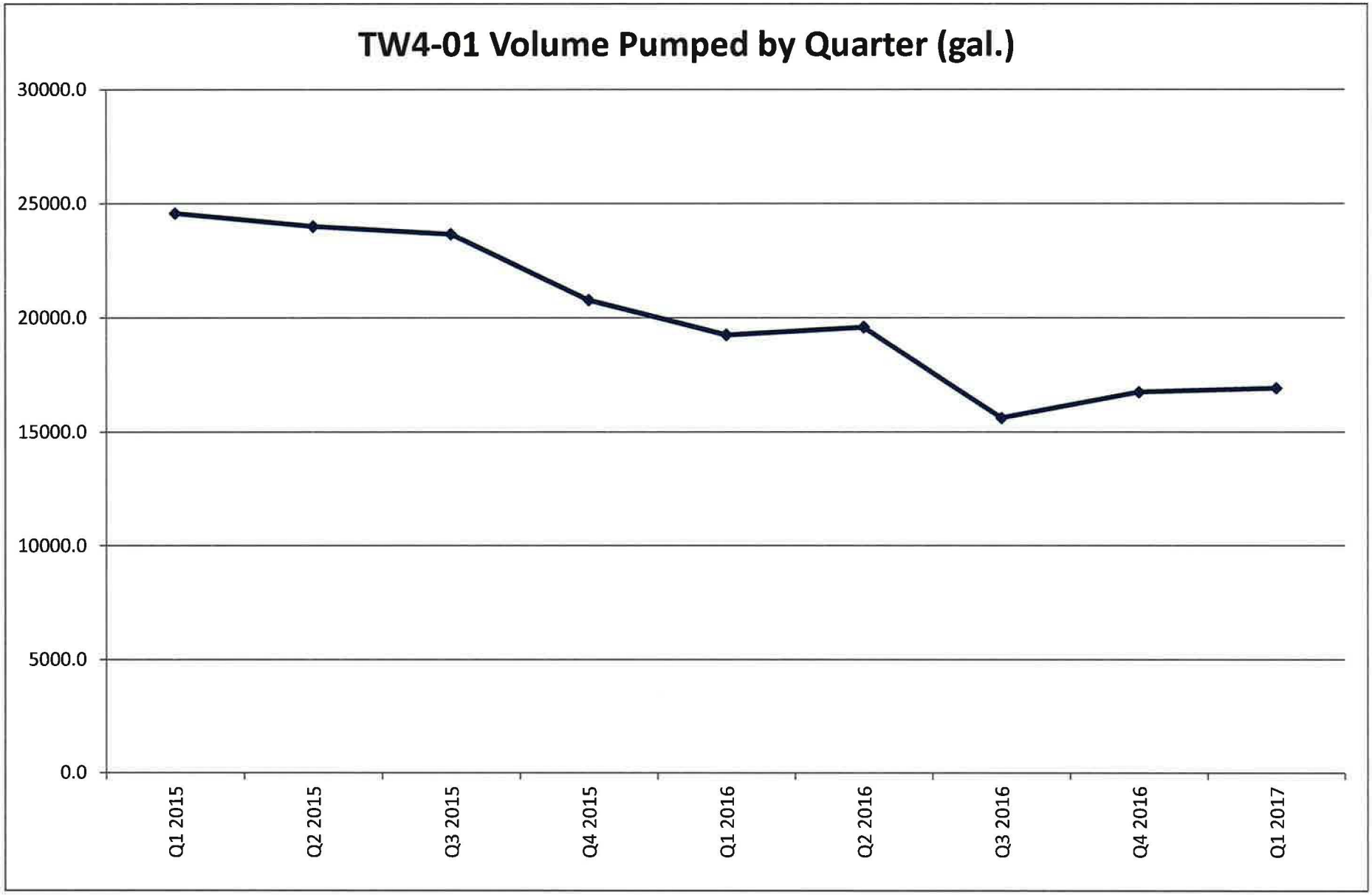

TW4-39 Mass of Chloroform Removed by Quarter (lbs.)
Chloroform Removed (Pounds)
30.0
25.0
20.0
15.0
10.0
5.0
0.0
Q4 2016
Q1 2017

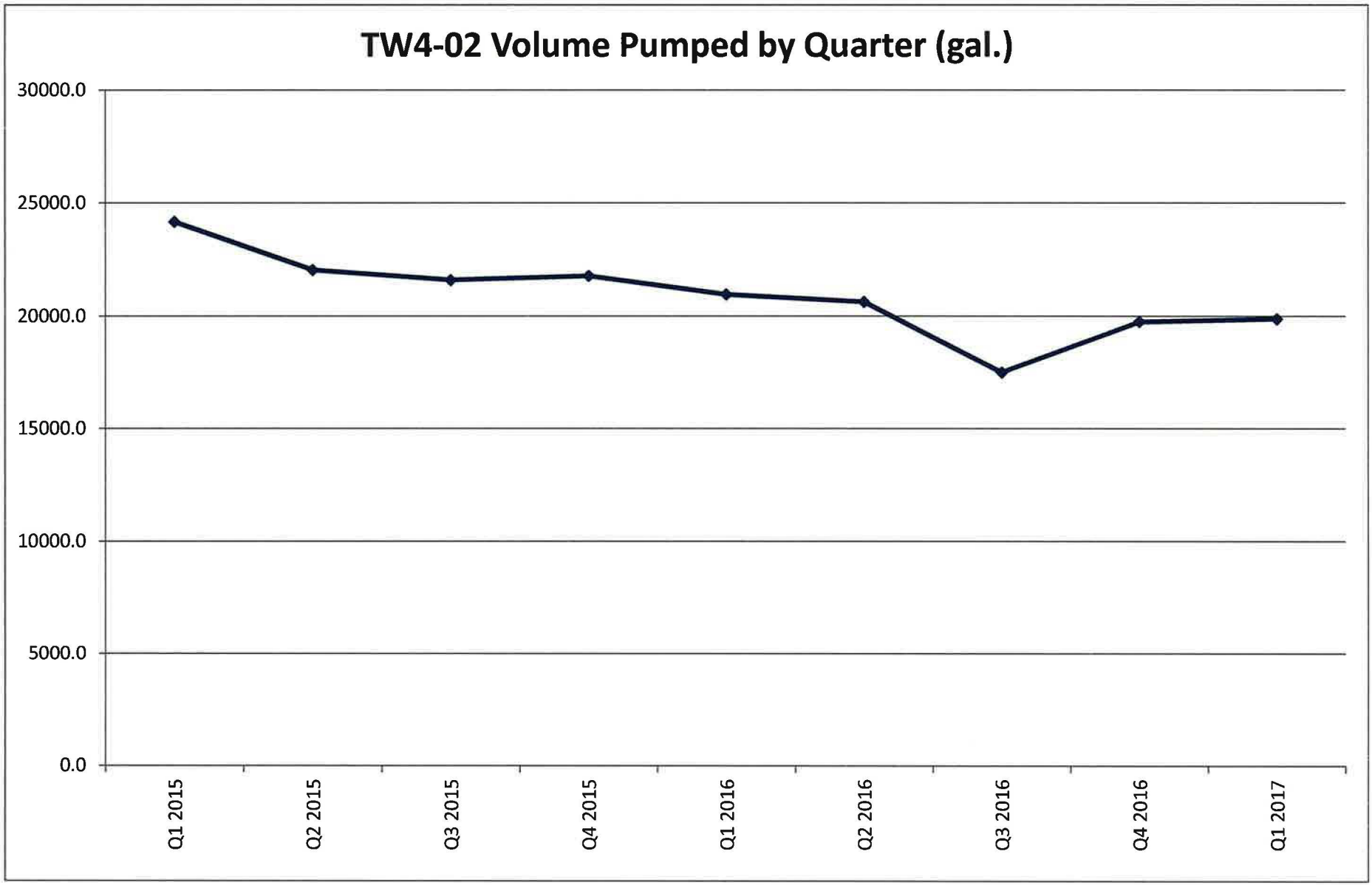


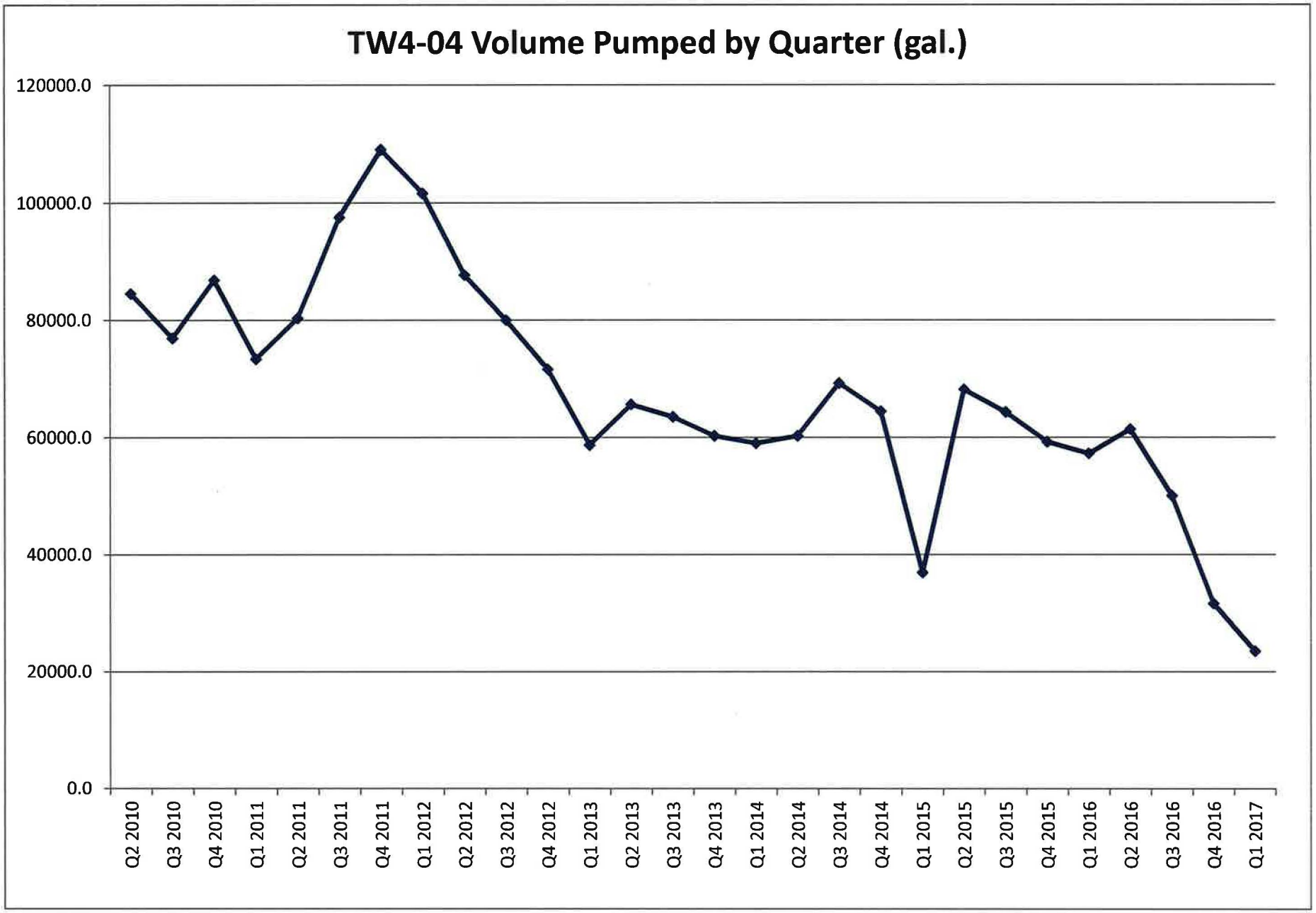
Q1 2007 represents the cumulative total prior to and including Q1 207.

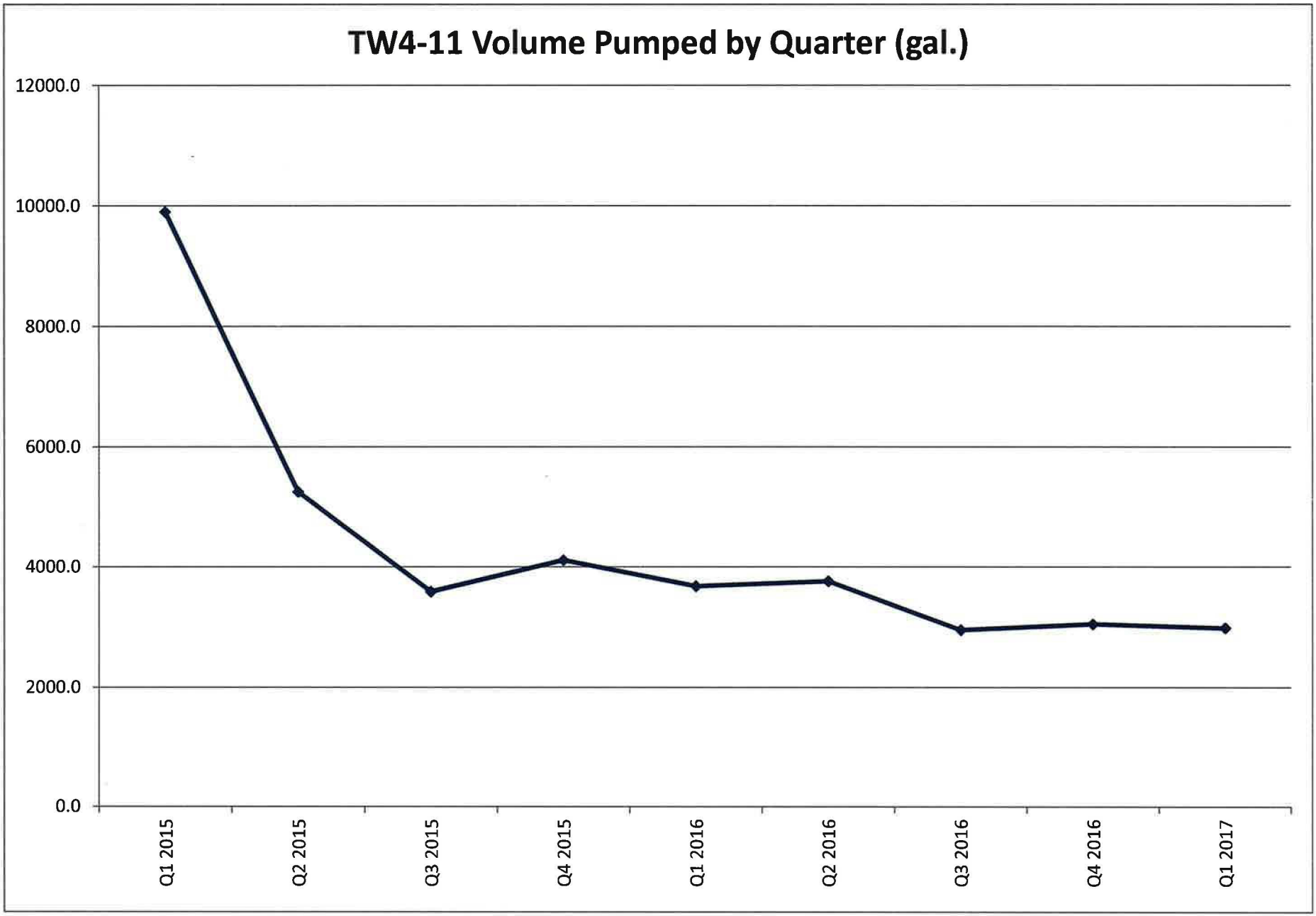


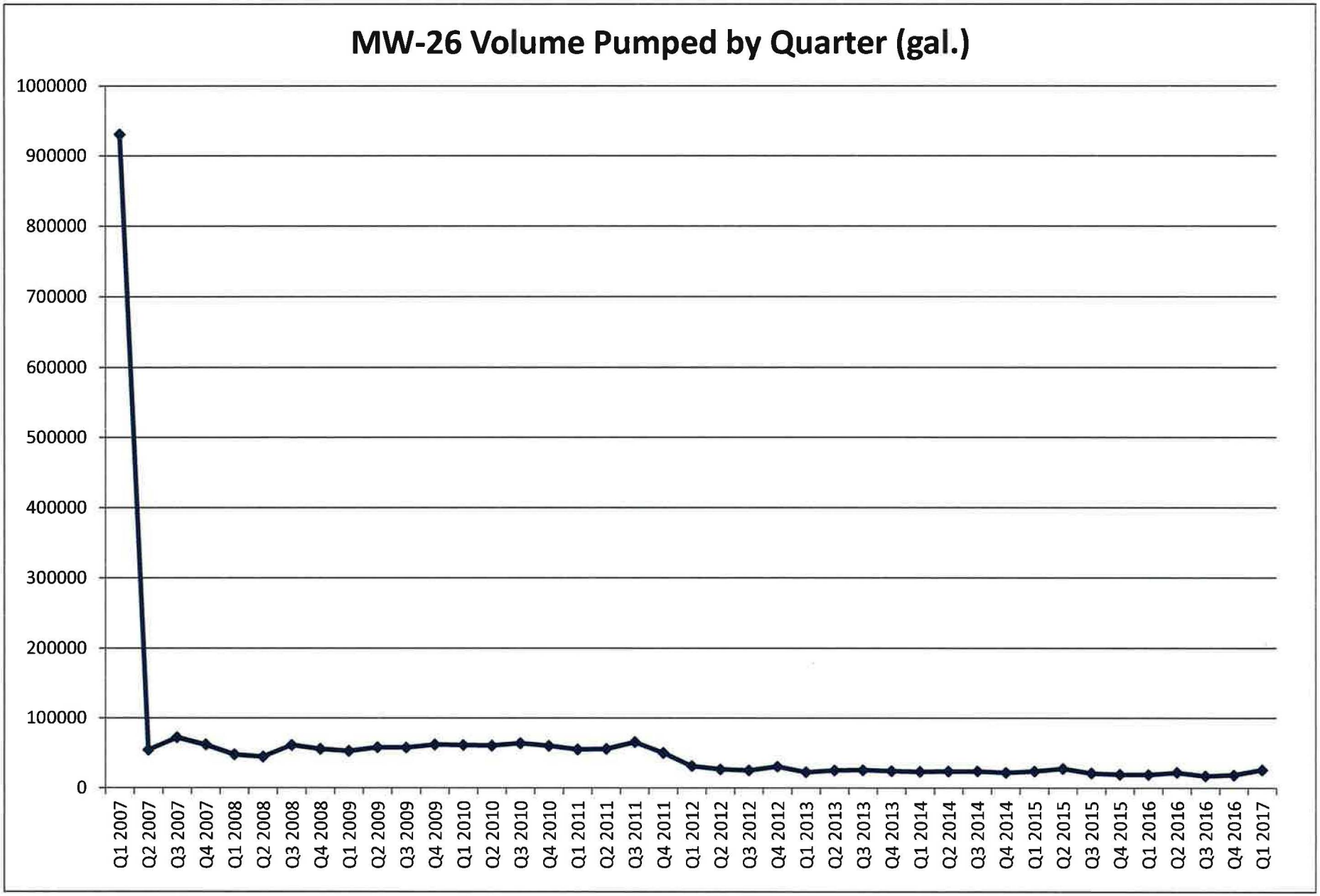
Q1 2007 represents the cumulative total prior to and including Q1 2007.


TW4-01 Volume Pumped by Quarter (gal.)
30000.0
25000.0
20000.0
15000.0
10000.0
5000.0
0.0
Q1 2015
Q2 2015
Q3 2015
Q4 2015
Q1 2016
Q2 2016
Q3 2016
Q4 2016
Q1 2017

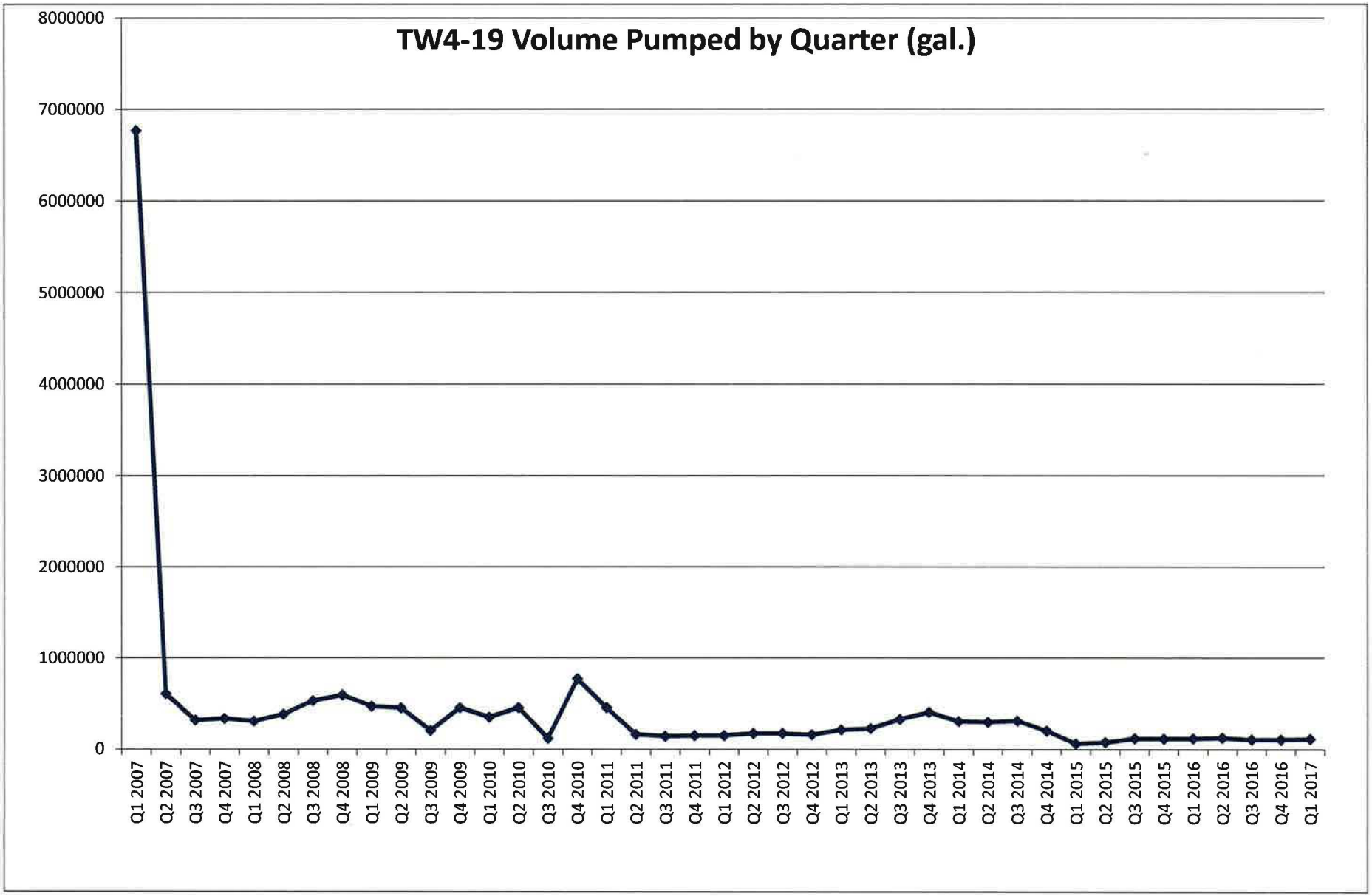

TW4-02 Volume Pumped by Quarter (gal.)
30000.0
25000.0
20000.0
15000.0
10000.0
5000.0
0.0
Q1 2015
Q2 2015
Q3 2015
Q4 2015
Q1 2016
Q2 2016
Q3 2016
Q4 2016
Q1 2017


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
Q1 2017

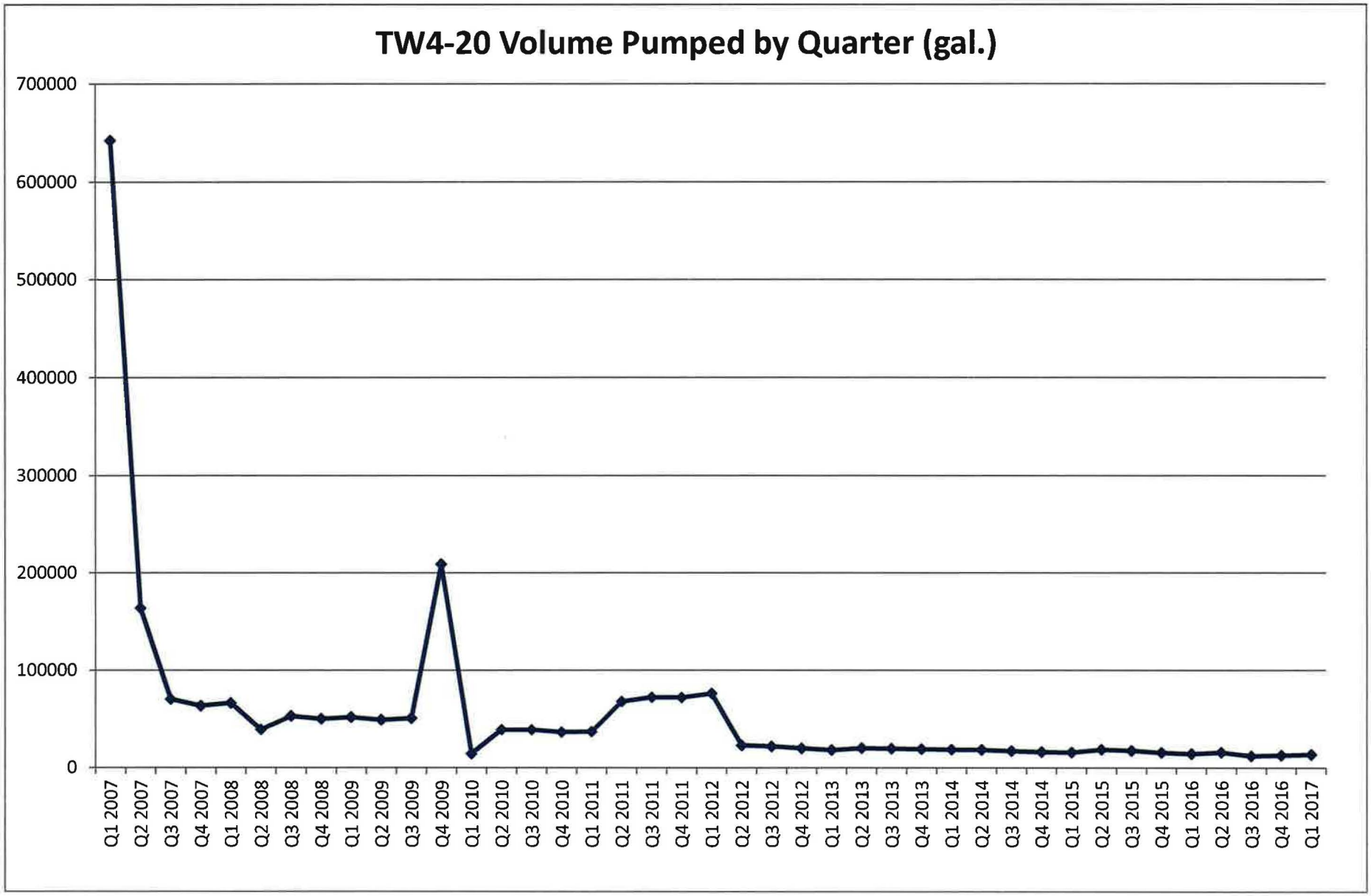

TW4-11 Volume Pumped by Quarter (gal.)
12000.0
10000.0
8000.0
6000.0
4000.0
2000.0
0.0
Q1 2015
Q2 2015
Q3 2015
Q4 2015
Q1 2016
Q2 2016
Q3 2016
Q4 2016
Q1 2017



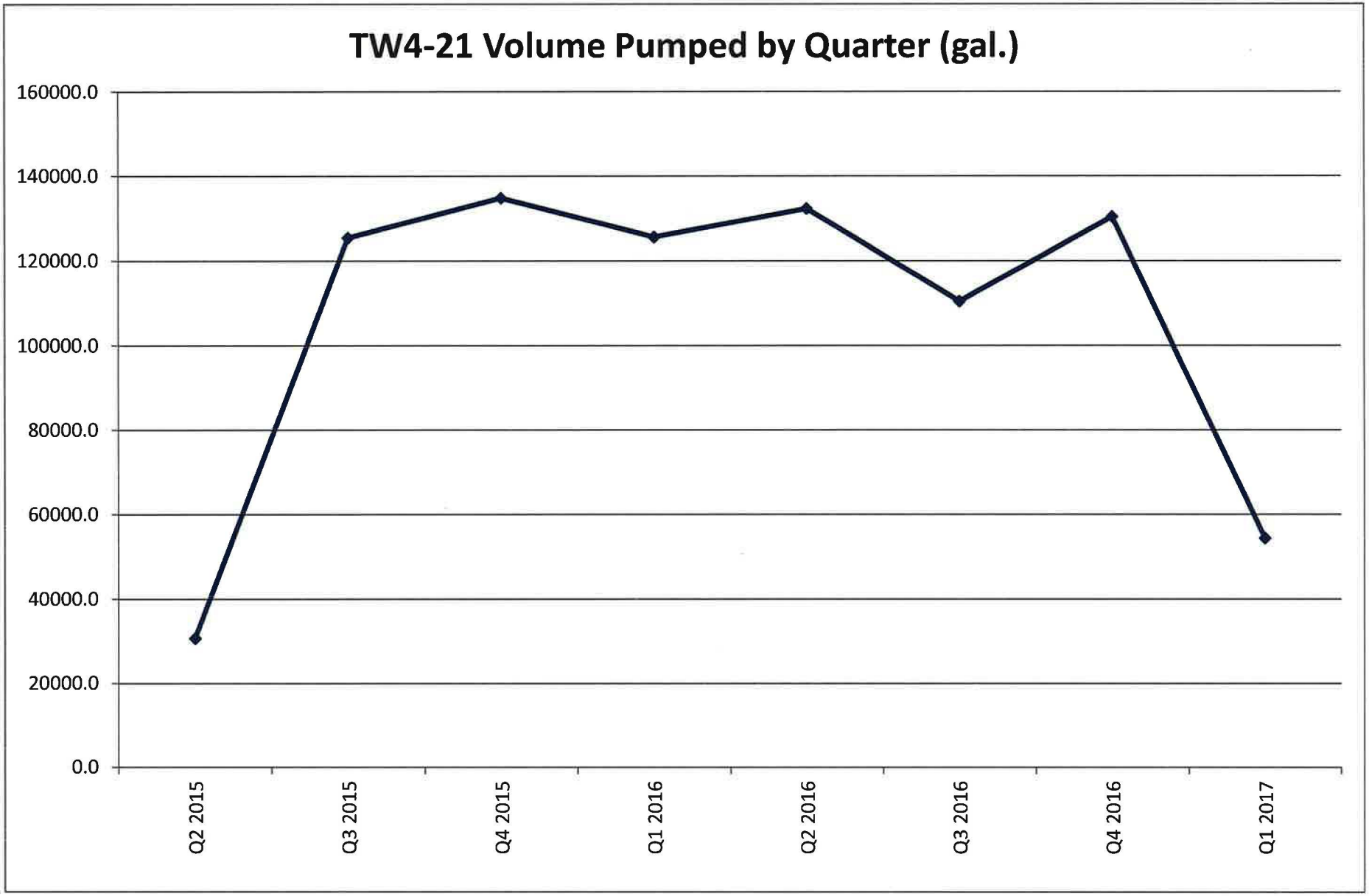
Q1 2007 represents the cumulative total prior to and including Q1 2007.

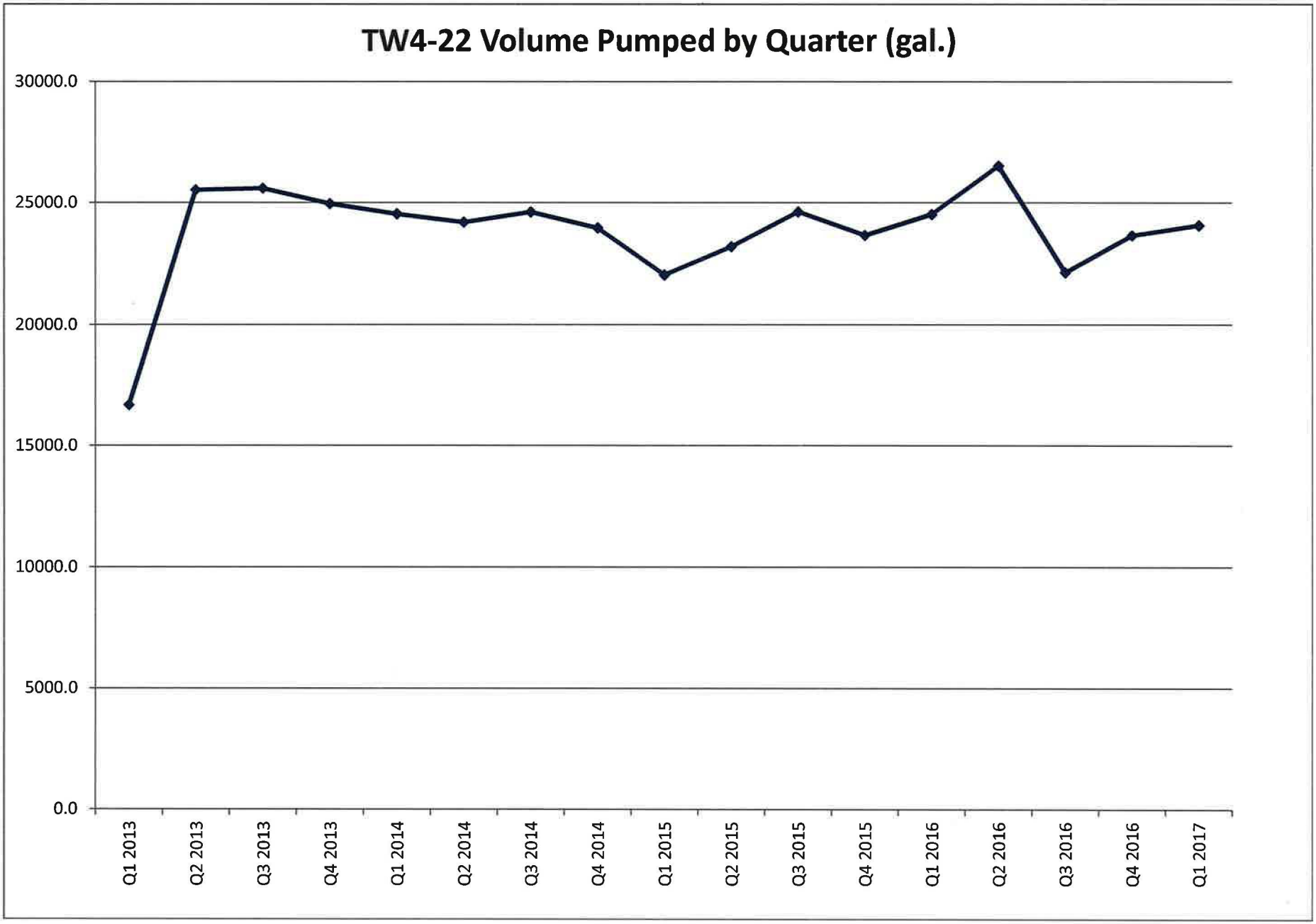


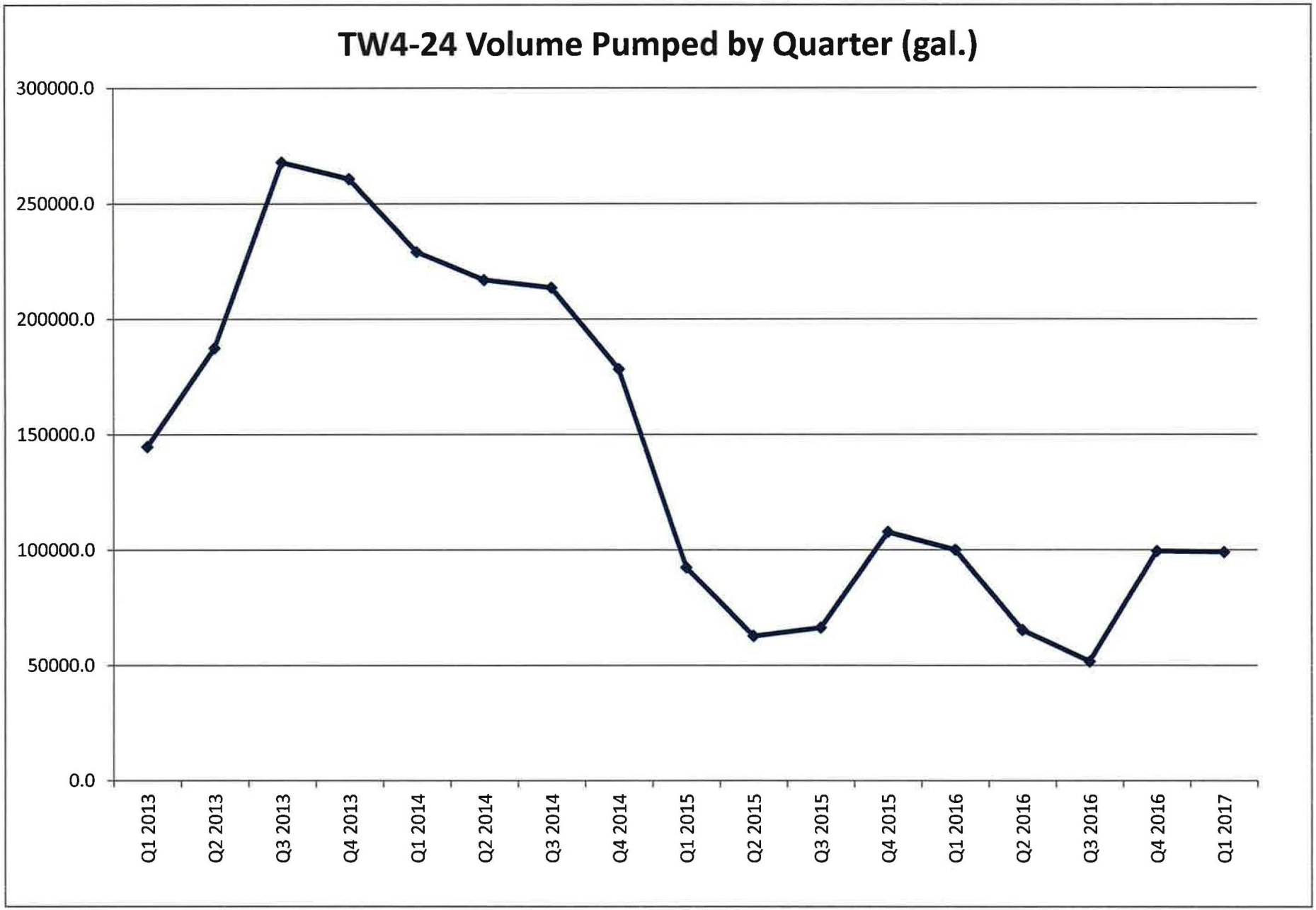
Q1 2007 represents the cumulative total prior to and including Q1 2007.

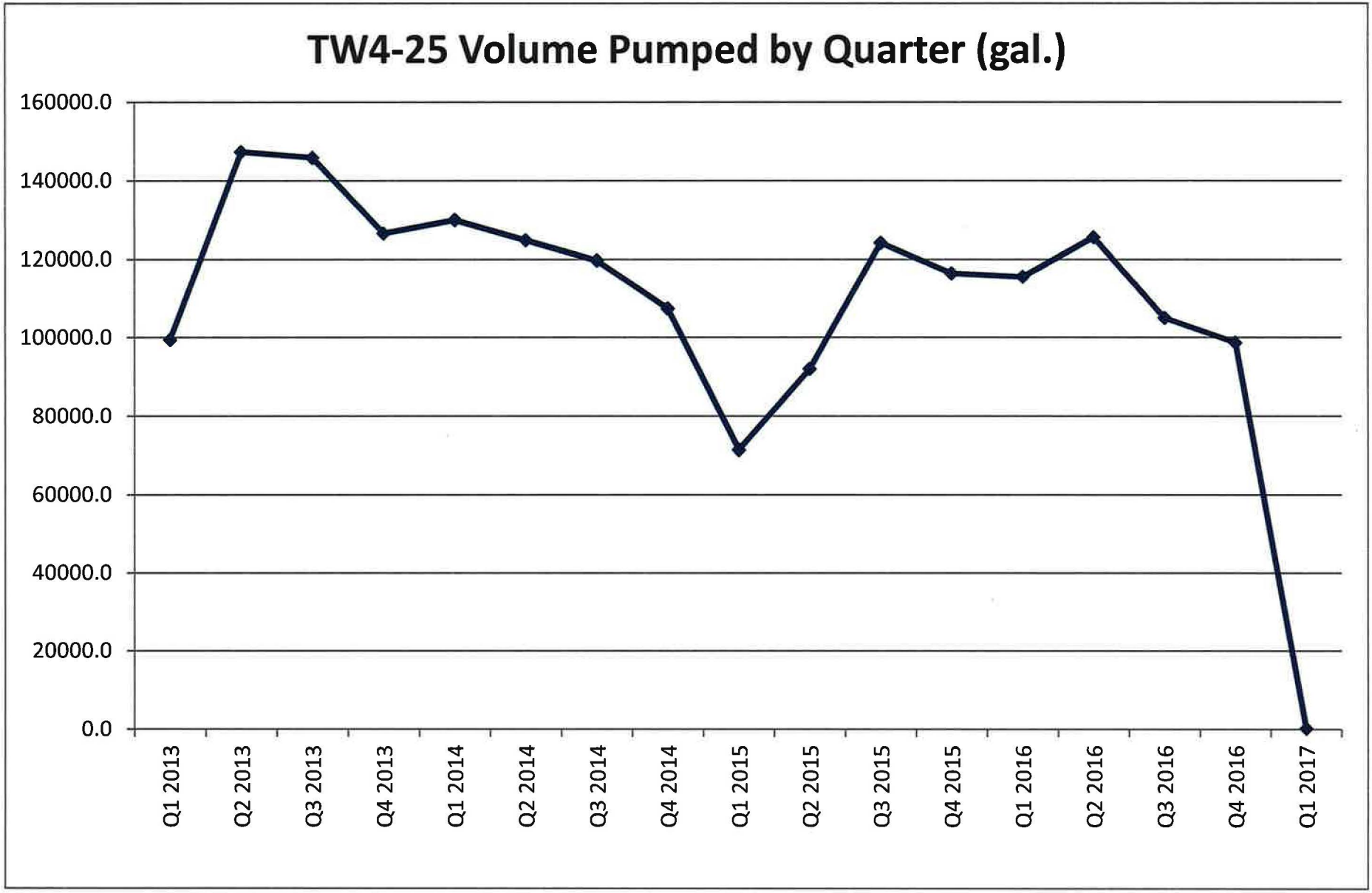


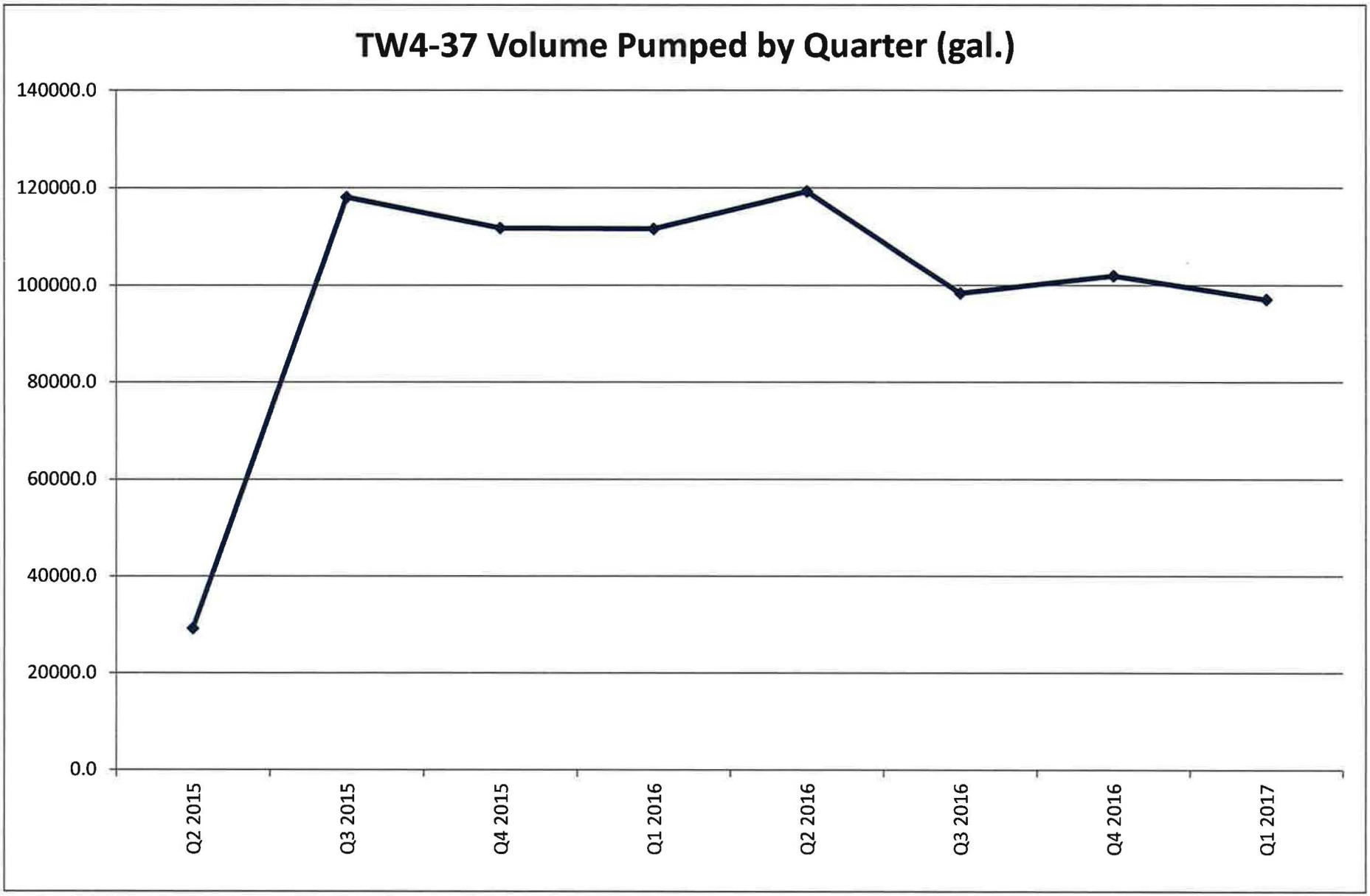
Q1 2007 represents the cumulative total prior to and including Q1 2007.

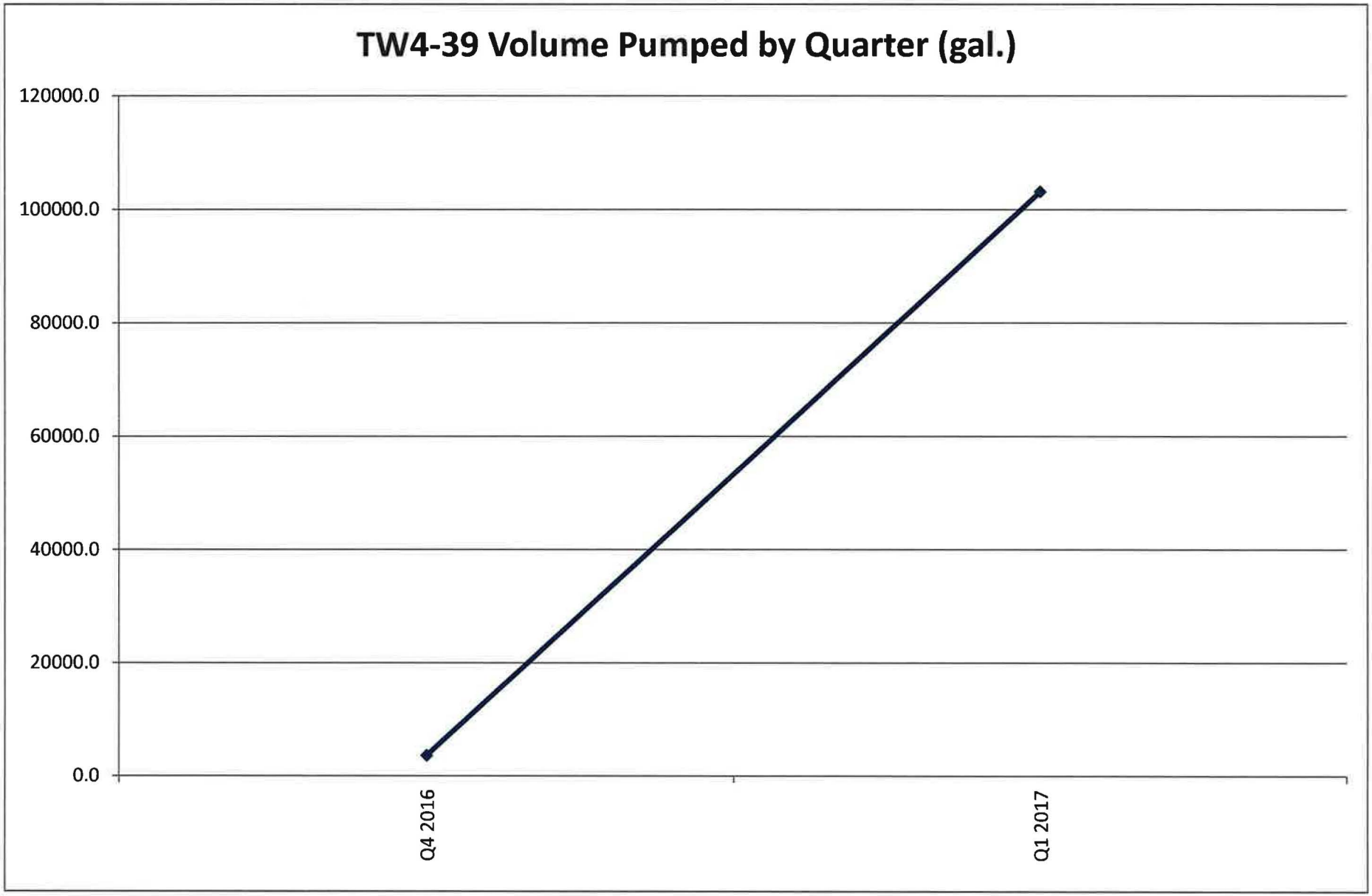

TW4-21 Volume Pumped by Quarter (gal.)
160000.0
140000.0
120000.0
100000.0
80000.0
60000.0
40000.0
20000.0
0.0
Q2 2015
Q3 2015
Q4 2015
Q1 2016
Q2 2016
Q3 2016
Q4 2016
Q1 2017


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
Q1 2017


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
Q1 2017


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
Q1 2017


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
Q1 2017


TW4-39 Volume Pumped by Quarter (gal.)
120000.0
100000.0
80000.0
60000.0
40000.0
20000.0
0.0
Q4 2016
Q1 2017

Tab H

Laboratory Analytical Reports

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Sample ID: 1703181-014C
Client Sample ID: MW-04_03082017
Collection Date: 3/8/2017 1321h
Received Date: 3/10/2017 853h

Test Code: 8260-W-DEN100

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

Analyzed: 3/14/2017 1954h
Units: µg/L **Dilution Factor:** 50 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	50.0	**1,450**	~

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	2,870	2,500	115	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	2,520	2,500	101	80-152	
Surr: Dibromofluoromethane	1868-53-7	2,540	2,500	102	70-130	
Surr: Toluene-d8	2037-26-5	2,460	2,500	98.6	60-115	

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

Analyzed: 3/10/2017 1918h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	**1.22**	
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	48.8	50.00	97.7	80-152	
Surr: Dibromofluoromethane	1868-53-7	50.6	50.00	101	70-130	
Surr: Toluene-d8	2037-26-5	48.4	50.00	96.8	60-115	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Sample ID: 1703181-014
Client Sample ID: MW-04_03082017
Collection Date: 3/8/2017 1321h
Received Date: 3/10/2017 853h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		3/14/2017 1506h	E300.0	10.0	**43.3**	
Nitrate/Nitrite (as N)	mg/L		3/10/2017 1131h	E353.2	0.100	**4.99**	

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Jose Rocha
QA Officer

ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Sample ID: 1703181-004C
Client Sample ID: TW4-01_03082017
Collection Date: 3/8/2017 1328h
Received Date: 3/10/2017 853h

Test Code: 8260-W-DEN100

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

Analyzed: 3/21/2017 1444h
Units: µg/L **Dilution Factor:** 10 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	10.0	**519**	~

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	538	500.0	108	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	534	500.0	107	80-152	
Surr: Dibromofluoromethane	1868-53-7	503	500.0	101	70-130	
Surr: Toluene-d8	2037-26-5	502	500.0	100	60-115	

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

Analyzed: 3/21/2017 1409h
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	59.7	50.00	119	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	50.8	50.00	102	80-152	
Surr: Dibromofluoromethane	1868-53-7	52.6	50.00	105	70-130	
Surr: Toluene-d8	2037-26-5	48.4	50.00	96.8	60-115	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Sample ID: 1703181-004
Client Sample ID: TW4-01_03082017
Collection Date: 3/8/2017 1328h
Received Date: 3/10/2017 853h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		3/14/2017 1614h	E300.0	10.0	**41.5**	
Nitrate/Nitrite (as N)	mg/L		3/10/2017 1120h	E353.2	0.100	**4.44**	

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Jose Rocha
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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Sample ID: 1703181-006C
Client Sample ID: TW4-02_03082017
Collection Date: 3/8/2017 1315h
Received Date: 3/10/2017 853h

Test Code: 8260-W-DEN100

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

Analyzed: 3/13/2017 1939h
Units: µg/L **Dilution Factor:** 50 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	50.0	**1,570**	~

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	2,550	2,500	102	80-152	
Surr: Dibromofluoromethane	1868-53-7	2,530	2,500	101	70-130	
Surr: Toluene-d8	2037-26-5	2,450	2,500	98.1	60-115	

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

Analyzed: 3/10/2017 1600h
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	53.5	50.00	107	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	51.5	50.00	103	80-152	
Surr: Dibromofluoromethane	1868-53-7	50.4	50.00	101	70-130	
Surr: Toluene-d8	2037-26-5	49.6	50.00	99.2	60-115	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Sample ID: 1703181-006
Client Sample ID: TW4-02_03082017
Collection Date: 3/8/2017 1315h
Received Date: 3/10/2017 853h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		3/14/2017 1540h	E300.0	10.0	**43.1**	
Nitrate/Nitrite (as N)	mg/L		3/10/2017 1122h	E353.2	0.100	**4.74**	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Sample ID: 1703339-003C
Client Sample ID: TW4-03_03142017
Collection Date: 3/14/2017 730h
Received Date: 3/17/2017 1015h

Test Code: 8260-W-DEN100

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

Analyzed: 3/17/2017 1643h
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	58.0	50.00	116	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	53.0	50.00	106	80-152	
Surr: Dibromofluoromethane	1868-53-7	51.9	50.00	104	70-130	
Surr: Toluene-d8	2037-26-5	49.4	50.00	98.8	60-115	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Sample ID: 1703339-003
Client Sample ID: TW4-03_03142017
Collection Date: 3/14/2017 730h
Received Date: 3/17/2017 1015h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		3/22/2017 1737h	E300.0	10.0	**28.1**	
Nitrate/Nitrite (as N)	mg/L		3/17/2017 1752h	E353.2	0.100	**6.18**	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Sample ID: 1703339-001C
Client Sample ID: TW4-03R_03132017
Collection Date: 3/13/2017 1128h
Received Date: 3/17/2017 1015h

Test Code: 8260-W-DEN100

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

Analyzed: 3/17/2017 1544h
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	**1.67**	
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	56.5	50.00	113	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	50.9	50.00	102	80-152	
Surr: Dibromofluoromethane	1868-53-7	50.8	50.00	102	70-130	
Surr: Toluene-d8	2037-26-5	49.0	50.00	98.0	60-115	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Sample ID: 1703339-001
Client Sample ID: TW4-03R_03132017
Collection Date: 3/13/2017 1128h
Received Date: 3/17/2017 1015h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		3/22/2017 1703h	E300.0	1.00	< 1.00	
Nitrate/Nitrite (as N)	mg/L		3/17/2017 1750h	E353.2	0.100	< 0.100	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Sample ID: 1703181-005C
Client Sample ID: TW4-04_03082017
Collection Date: 3/8/2017 1338h
Received Date: 3/10/2017 853h
Test Code: 8260-W-DEN100

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

Analyzed: 3/13/2017 1919h
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	2,760	2,500	110	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	2,510	2,500	100	80-152	
Surr: Dibromofluoromethane	1868-53-7	2,490	2,500	99.5	70-130	
Surr: Toluene-d8	2037-26-5	2,400	2,500	96.1	60-115	

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

Analyzed: 3/10/2017 1541h
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	53.8	50.00	108	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	52.0	50.00	104	80-152	
Surr: Dibromofluoromethane	1868-53-7	50.9	50.00	102	70-130	
Surr: Toluene-d8	2037-26-5	49.8	50.00	99.6	60-115	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Sample ID: 1703181-005
Client Sample ID: TW4-04_03082017
Collection Date: 3/8/2017 1338h
Received Date: 3/10/2017 853h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		3/14/2017 1557h	E300.0	10.0	**41.7**	
Nitrate/Nitrite (as N)	mg/L		3/10/2017 1121h	E353.2	0.100	**6.87**	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Sample ID: 1703339-017C
Client Sample ID: TW4-05_03152017
Collection Date: 3/15/2017 923h
Received Date: 3/17/2017 1015h

Test Code: 8260-W-DEN100

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

Analyzed: 3/17/2017 1713h
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	**12.6**	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	53.3	50.00	107	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	50.8	50.00	102	80-152	
Surr: Dibromofluoromethane	1868-53-7	50.0	50.00	99.9	70-130	
Surr: Toluene-d8	2037-26-5	49.7	50.00	99.4	60-115	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Sample ID: 1703339-017
Client Sample ID: TW4-05_03152017
Collection Date: 3/15/2017 923h
Received Date: 3/17/2017 1015h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		3/23/2017 253h	E300.0	10.0	**44.7**	
Nitrate/Nitrite (as N)	mg/L		3/17/2017 1818h	E353.2	0.100	**8.49**	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Sample ID: 1703339-023C
Client Sample ID: TW4-06_03162017
Collection Date: 3/16/2017 832h
Received Date: 3/17/2017 1015h

Test Code: 8260-W-DEN100

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

Analyzed: 3/20/2017 1341h
Units: µg/L **Dilution Factor:** 10 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	10.0	**288**	~

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	589	500.0	118	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	516	500.0	103	80-152	
Surr: Dibromofluoromethane	1868-53-7	518	500.0	104	70-130	
Surr: Toluene-d8	2037-26-5	487	500.0	97.5	60-115	

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

Analyzed: 3/17/2017 1912h
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	52.0	50.00	104	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	49.1	50.00	98.3	80-152	
Surr: Dibromofluoromethane	1868-53-7	48.6	50.00	97.1	70-130	
Surr: Toluene-d8	2037-26-5	48.3	50.00	96.6	60-115	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Sample ID: 1703339-023
Client Sample ID: TW4-06_03162017
Collection Date: 3/16/2017 832h
Received Date: 3/17/2017 1015h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		3/23/2017 511h	E300.0	10.0	**42.1**	
Nitrate/Nitrite (as N)	mg/L		3/17/2017 1830h	E353.2	0.100	**3.15**	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Sample ID: 1703458-003C
Client Sample ID: TW4-07_03212017
Collection Date: 3/21/2017 950h
Received Date: 3/23/2017 1035h

Test Code: 8260-W-DEN100

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

Analyzed: 3/23/2017 1719h
Units: µg/L **Dilution Factor:** 50 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	50.0	**986**	~

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	2,620	2,500	105	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	2,490	2,500	99.6	80-152	
Surr: Dibromofluoromethane	1868-53-7	2,450	2,500	98.2	70-130	
Surr: Toluene-d8	2037-26-5	2,460	2,500	98.5	60-115	

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

Analyzed: 3/23/2017 1442h
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	52.8	50.00	106	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	53.0	50.00	106	80-152	
Surr: Dibromofluoromethane	1868-53-7	49.2	50.00	98.4	70-130	
Surr: Toluene-d8	2037-26-5	50.2	50.00	100	60-115	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Sample ID: 1703458-003
Client Sample ID: TW4-07_03212017
Collection Date: 3/21/2017 950h
Received Date: 3/23/2017 1035h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		3/24/2017 2138h	E300.0	10.0	**40.5**	
Nitrate/Nitrite (as N)	mg/L		3/23/2017 1542h	E353.2	0.100	**3.87**	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Sample ID: 1703458-002C
Client Sample ID: TW4-08_03212017
Collection Date: 3/21/2017 943h
Received Date: 3/23/2017 1035h
Test Code: 8260-W-DEN100

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

Analyzed: 3/23/2017 1659h
Units: µg/L **Dilution Factor:** 10 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	10.0	**359**	~

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	525	500.0	105	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	537	500.0	107	80-152	
Surr: Dibromofluoromethane	1868-53-7	484	500.0	96.7	70-130	
Surr: Toluene-d8	2037-26-5	500	500.0	99.9	60-115	

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

Analyzed: 3/23/2017 1422h
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	53.0	50.00	106	80-152	
Surr: Dibromofluoromethane	1868-53-7	49.3	50.00	98.6	70-130	
Surr: Toluene-d8	2037-26-5	50.1	50.00	100	60-115	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Sample ID: 1703458-002
Client Sample ID: TW4-08_03212017
Collection Date: 3/21/2017 943h
Received Date: 3/23/2017 1035h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		3/24/2017 2121h	E300.0	10.0	**57.4**	
Nitrate/Nitrite (as N)	mg/L		3/23/2017 1541h	E353.2	0.100	**2.06**	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Sample ID: 1703458-005C
Client Sample ID: TW4-08R_03202017
Collection Date: 3/20/2017 1013h
Received Date: 3/23/2017 1035h

Test Code: 8260-W-DEN100

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

Analyzed: 3/23/2017 1521h
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	50.7	50.00	101	80-152	
Surr: Dibromofluoromethane	1868-53-7	48.6	50.00	97.3	70-130	
Surr: Toluene-d8	2037-26-5	49.7	50.00	99.3	60-115	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Sample ID: 1703458-005
Client Sample ID: TW4-08R_03202017
Collection Date: 3/20/2017 1013h
Received Date: 3/23/2017 1035h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		3/24/2017 2212h	E300.0	1.00	< 1.00	
Nitrate/Nitrite (as N)	mg/L		3/23/2017 1545h	E353.2	0.100	< 0.100	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Sample ID: 1703339-020C
Client Sample ID: TW4-09_03162017
Collection Date: 3/16/2017 808h
Received Date: 3/17/2017 1015h

Test Code: 8260-W-DEN100

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

Analyzed: 3/17/2017 1812h
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	**113**	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	53.1	50.00	106	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	51.4	50.00	103	80-152	
Surr: Dibromofluoromethane	1868-53-7	49.7	50.00	99.4	70-130	
Surr: Toluene-d8	2037-26-5	49.6	50.00	99.1	60-115	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Sample ID: 1703339-020
Client Sample ID: TW4-09_03162017
Collection Date: 3/16/2017 808h
Received Date: 3/17/2017 1015h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		3/23/2017 344h	E300.0	5.00	**34.5**	
Nitrate/Nitrite (as N)	mg/L		3/17/2017 1824h	E353.2	0.100	**2.18**	

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Kyle F. Gross
Laboratory Director

Jose Rocha
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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Sample ID: 1703458-004C
Client Sample ID: TW4-10_03212017
Collection Date: 3/21/2017 955h
Received Date: 3/23/2017 1035h

Test Code: 8260-W-DEN100

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

Analyzed: 3/23/2017 1738h
Units: µg/L **Dilution Factor:** 50 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	50.0	**1,260**	~

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	2,630	2,500	105	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	2,710	2,500	108	80-152	
Surr: Dibromofluoromethane	1868-53-7	2,450	2,500	97.9	70-130	
Surr: Toluene-d8	2037-26-5	2,530	2,500	101	60-115	

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

Analyzed: 3/23/2017 1501h
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	53.2	50.00	106	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	53.4	50.00	107	80-152	
Surr: Dibromofluoromethane	1868-53-7	49.2	50.00	98.4	70-130	
Surr: Toluene-d8	2037-26-5	50.4	50.00	101	60-115	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Sample ID: 1703458-004
Client Sample ID: TW4-10_03212017
Collection Date: 3/21/2017 955h
Received Date: 3/23/2017 1035h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		3/24/2017 2155h	E300.0	10.0	**74.6**	
Nitrate/Nitrite (as N)	mg/L		3/23/2017 1544h	E353.2	0.100	**13.0**	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Sample ID: 1703181-009C
Client Sample ID: TW4-11_03082017
Collection Date: 3/8/2017 1305h
Received Date: 3/10/2017 853h

Test Code: 8260-W-DEN100

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

Analyzed: 3/13/2017 2038h
Units: µg/L **Dilution Factor:** 100 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	100	**3,310**	~

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	5,640	5,000	113	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	5,090	5,000	102	80-152	
Surr: Dibromofluoromethane	1868-53-7	5,050	5,000	101	70-130	
Surr: Toluene-d8	2037-26-5	4,880	5,000	97.6	60-115	

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

Analyzed: 3/10/2017 1739h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	**1.71**	
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	54.7	50.00	109	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	51.3	50.00	103	80-152	
Surr: Dibromofluoromethane	1868-53-7	50.6	50.00	101	70-130	
Surr: Toluene-d8	2037-26-5	49.2	50.00	98.4	60-115	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Sample ID: 1703181-009
Client Sample ID: TW4-11_03082017
Collection Date: 3/8/2017 1305h
Received Date: 3/10/2017 853h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		3/14/2017 1523h	E300.0	10.0	**49.8**	
Nitrate/Nitrite (as N)	mg/L		3/10/2017 1126h	E353.2	0.100	**8.12**	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Sample ID: 1703339-004C
Client Sample ID: TW4-12_03142017
Collection Date: 3/14/2017 738h
Received Date: 3/17/2017 1015h

Test Code: 8260-W-DEN100

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

Analyzed: 3/17/2017 1703h
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	58.5	50.00	117	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	53.6	50.00	107	80-152	
Surr: Dibromofluoromethane	1868-53-7	52.3	50.00	105	70-130	
Surr: Toluene-d8	2037-26-5	49.6	50.00	99.2	60-115	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Sample ID: 1703339-004
Client Sample ID: TW4-12_03142017
Collection Date: 3/14/2017 738h
Received Date: 3/17/2017 1015h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		3/22/2017 2026h	E300.0	10.0	**62.6**	
Nitrate/Nitrite (as N)	mg/L		3/17/2017 1836h	E353.2	0.500	**25.9**	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Sample ID: 1703339-007C
Client Sample ID: TW4-13_03152017
Collection Date: 3/15/2017 805h
Received Date: 3/17/2017 1015h

Test Code: 8260-W-DEN100

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

Analyzed: 3/17/2017 1802h
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	56.8	50.00	114	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	51.7	50.00	103	80-152	
Surr: Dibromofluoromethane	1868-53-7	50.4	50.00	101	70-130	
Surr: Toluene-d8	2037-26-5	47.7	50.00	95.4	60-115	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Sample ID: 1703339-007
Client Sample ID: TW4-13_03152017
Collection Date: 3/15/2017 805h
Received Date: 3/17/2017 1015h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		3/22/2017 2150h	E300.0	10.0	**66.0**	
Nitrate/Nitrite (as N)	mg/L		3/17/2017 1757h	E353.2	0.100	**6.05**	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Sample ID: 1703339-015C
Client Sample ID: TW4-14_03152017
Collection Date: 3/15/2017 908h
Received Date: 3/17/2017 1015h

Test Code: 8260-W-DEN100

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

Analyzed: 3/17/2017 1633h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	**6.45**	
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	54.3	50.00	109	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	51.9	50.00	104	80-152	
Surr: Dibromofluoromethane	1868-53-7	50.2	50.00	100	70-130	
Surr: Toluene-d8	2037-26-5	49.9	50.00	99.7	60-115	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Sample ID: 1703339-015
Client Sample ID: TW4-14_03152017
Collection Date: 3/15/2017 908h
Received Date: 3/17/2017 1015h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		3/23/2017 146h	E300.0	10.0	**45.4**	
Nitrate/Nitrite (as N)	mg/L		3/17/2017 1816h	E353.2	0.100	**4.36**	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Sample ID: 1703181-007C
Client Sample ID: MW-26_03082017
Collection Date: 3/8/2017 1257h
Received Date: 3/10/2017 853h

Test Code: 8260-W-DEN100

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

Analyzed: 3/13/2017 1958h
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	2,860	2,500	114	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	2,540	2,500	102	80-152	
Surr: Dibromofluoromethane	1868-53-7	2,570	2,500	103	70-130	
Surr: Toluene-d8	2037-26-5	2,460	2,500	98.5	60-115	

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

Analyzed: 3/10/2017 1620h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	**7.65**	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	53.9	50.00	108	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	52.1	50.00	104	80-152	
Surr: Dibromofluoromethane	1868-53-7	51.0	50.00	102	70-130	
Surr: Toluene-d8	2037-26-5	49.6	50.00	99.2	60-115	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Sample ID: 1703181-007
Client Sample ID: MW-26_03082017
Collection Date: 3/8/2017 1257h
Received Date: 3/10/2017 853h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		3/14/2017 1812h	E300.0	20.0	**58.4**	
Nitrate/Nitrite (as N)	mg/L		3/10/2017 1122h	E353.2	0.100	**0.768**	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Sample ID: 1703339-021C
Client Sample ID: TW4-16_03162017
Collection Date: 3/16/2017 815h
Received Date: 3/17/2017 1015h

Test Code: 8260-W-DEN100

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

Analyzed: 3/17/2017 1832h
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	**19.1**	
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	53.9	50.00	108	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	52.2	50.00	104	80-152	
Surr: Dibromofluoromethane	1868-53-7	49.4	50.00	98.8	70-130	
Surr: Toluene-d8	2037-26-5	49.6	50.00	99.3	60-115	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Sample ID: 1703339-021
Client Sample ID: TW4-16_03162017
Collection Date: 3/16/2017 815h
Received Date: 3/17/2017 1015h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		3/23/2017 401h	E300.0	10.0	**62.2**	
Nitrate/Nitrite (as N)	mg/L		3/17/2017 1825h	E353.2	0.100	**2.75**	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Sample ID: 1703458-001C
Client Sample ID: MW-32_03212017
Collection Date: 3/21/2017 1300h
Received Date: 3/23/2017 1035h

Test Code: 8260-W-DEN100

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

Analyzed: 3/23/2017 1402h
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	53.4	50.00	107	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	53.0	50.00	106	80-152	
Surr: Dibromofluoromethane	1868-53-7	50.3	50.00	101	70-130	
Surr: Toluene-d8	2037-26-5	49.5	50.00	99.0	60-115	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Sample ID: 1703458-001
Client Sample ID: MW-32_03212017
Collection Date: 3/21/2017 1300h
Received Date: 3/23/2017 1035h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		3/24/2017 2030h	E300.0	10.0	**33.7**	
Nitrate/Nitrite (as N)	mg/L		3/23/2017 1538h	E353.2	0.100	< 0.100	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Sample ID: 1703339-019C
Client Sample ID: TW4-18_03162017
Collection Date: 3/16/2017 757h
Received Date: 3/17/2017 1015h

Test Code: 8260-W-DEN100

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

Analyzed: 3/17/2017 1753h
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	**62.0**	
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	54.5	50.00	109	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	52.4	50.00	105	80-152	
Surr: Dibromofluoromethane	1868-53-7	50.5	50.00	101	70-130	
Surr: Toluene-d8	2037-26-5	50.4	50.00	101	60-115	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Sample ID: 1703339-019
Client Sample ID: TW4-18_03162017
Collection Date: 3/16/2017 757h
Received Date: 3/17/2017 1015h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		3/23/2017 327h	E300.0	10.0	**39.4**	
Nitrate/Nitrite (as N)	mg/L		3/17/2017 1823h	E353.2	0.100	**4.47**	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Sample ID: 1703181-011C
Client Sample ID: TW4-19_03082017
Collection Date: 3/8/2017 1410h
Received Date: 3/10/2017 853h

Test Code: 8260-W-DEN100

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

Analyzed: 3/14/2017 1855h
Units: µg/L **Dilution Factor:** 50 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	50.0	**1,240**	~

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	2,740	2,500	110	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	2,510	2,500	100	80-152	
Surr: Dibromofluoromethane	1868-53-7	2,490	2,500	99.6	70-130	
Surr: Toluene-d8	2037-26-5	2,380	2,500	95.3	60-115	

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

Analyzed: 3/10/2017 1819h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	**3.06**	
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	51.1	50.00	102	80-152	
Surr: Dibromofluoromethane	1868-53-7	50.2	50.00	100	70-130	
Surr: Toluene-d8	2037-26-5	48.7	50.00	97.4	60-115	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Sample ID: 1703181-011
Client Sample ID: TW4-19_03082017
Collection Date: 3/8/2017 1410h
Received Date: 3/10/2017 853h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		3/15/2017 810h	E300.0	100	**461**	
Nitrate/Nitrite (as N)	mg/L		3/10/2017 1128h	E353.2	0.100	**11.1**	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Sample ID: 1703181-013C
Client Sample ID: TW4-20_03082017
Collection Date: 3/8/2017 1238h
Received Date: 3/10/2017 853h

Test Code: 8260-W-DEN100

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

Analyzed: 3/14/2017 1934h
Units: µg/L **Dilution Factor:** 500 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	500	**23,400**	~

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	28,100	25,000	113	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	25,200	25,000	101	80-152	
Surr: Dibromofluoromethane	1868-53-7	25,300	25,000	101	70-130	
Surr: Toluene-d8	2037-26-5	24,400	25,000	97.7	60-115	

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

Analyzed: 3/10/2017 1858h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	**23.5**	
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	50.8	50.00	102	80-152	
Surr: Dibromofluoromethane	1868-53-7	50.6	50.00	101	70-130	
Surr: Toluene-d8	2037-26-5	48.9	50.00	97.7	60-115	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Sample ID: 1703181-013
Client Sample ID: TW4-20_03082017
Collection Date: 3/8/2017 1238h
Received Date: 3/10/2017 853h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		3/14/2017 1704h	E300.0	20.0	**290**	
Nitrate/Nitrite (as N)	mg/L		3/10/2017 1130h	E353.2	0.100	**12.0**	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Sample ID: 1703181-003C
Client Sample ID: TW4-21_03082017
Collection Date: 3/8/2017 1152h
Received Date: 3/10/2017 853h
Test Code: 8260-W-DEN100

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

Analyzed: 3/13/2017 1840h
Units: µg/L **Dilution Factor:** 10 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	10.0	**598**	~

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	568	500.0	114	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	515	500.0	103	80-152	
Surr: Dibromofluoromethane	1868-53-7	514	500.0	103	70-130	
Surr: Toluene-d8	2037-26-5	494	500.0	98.9	60-115	

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

Analyzed: 3/10/2017 1402h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	**2.36**	
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	51.6	50.00	103	80-152	
Surr: Dibromofluoromethane	1868-53-7	50.2	50.00	100	70-130	
Surr: Toluene-d8	2037-26-5	49.9	50.00	99.8	60-115	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Sample ID: 1703181-003
Client Sample ID: TW4-21_03082017
Collection Date: 3/8/2017 1152h
Received Date: 3/10/2017 853h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		3/14/2017 1338h	E300.0	100	**478**	
Nitrate/Nitrite (as N)	mg/L		3/10/2017 1119h	E353.2	0.100	**17.7**	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Sample ID: 1703181-010C
Client Sample ID: TW4-22_03082017
Collection Date: 3/8/2017 1222h
Received Date: 3/10/2017 853h

Test Code: 8260-W-DEN100

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

Analyzed: 3/13/2017 2058h
Units: µg/L **Dilution Factor:** 100 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	100	**5,320**	~

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	5,760	5,000	115	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	5,290	5,000	106	80-152	
Surr: Dibromofluoromethane	1868-53-7	5,160	5,000	103	70-130	
Surr: Toluene-d8	2037-26-5	4,960	5,000	99.1	60-115	

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

Analyzed: 3/10/2017 1759h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	**1.56**	
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	51.8	50.00	104	70-130	
Surr: Toluene-d8	2037-26-5	50.2	50.00	100	60-115	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Sample ID: 1703181-010
Client Sample ID: TW4-22_03082017
Collection Date: 3/8/2017 1222h
Received Date: 3/10/2017 853h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		3/14/2017 1248h	E300.0	100	**566**	
Nitrate/Nitrite (as N)	mg/L		3/10/2017 1139h	E353.2	1.00	**69.8**	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Sample ID: 1703339-012C
Client Sample ID: TW4-23_03152017
Collection Date: 3/15/2017 846h
Received Date: 3/17/2017 1015h

Test Code: 8260-W-DEN100

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

Analyzed: 3/17/2017 1941h
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	58.7	50.00	117	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	50.9	50.00	102	80-152	
Surr: Dibromofluoromethane	1868-53-7	51.1	50.00	102	70-130	
Surr: Toluene-d8	2037-26-5	49.3	50.00	98.7	60-115	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Sample ID: 1703339-012
Client Sample ID: TW4-23_03152017
Collection Date: 3/15/2017 846h
Received Date: 3/17/2017 1015h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		3/23/2017 055h	E300.0	10.0	**47.7**	
Nitrate/Nitrite (as N)	mg/L		3/17/2017 1810h	E353.2	0.100	< 0.100	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Sample ID: 1703181-002C
Client Sample ID: TW4-24_03082017
Collection Date: 3/8/2017 1212h
Received Date: 3/10/2017 853h

Test Code: 8260-W-DEN100

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

Analyzed: 3/10/2017 1342h
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	**18.3**	
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	52.9	50.00	106	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	51.6	50.00	103	80-152	
Surr: Dibromofluoromethane	1868-53-7	50.3	50.00	101	70-130	
Surr: Toluene-d8	2037-26-5	50.7	50.00	101	60-115	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Sample ID: 1703181-002
Client Sample ID: TW4-24_03082017
Collection Date: 3/8/2017 1212h
Received Date: 3/10/2017 853h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		3/14/2017 1157h	E300.0	100	**1,090**	
Nitrate/Nitrite (as N)	mg/L		3/10/2017 1148h	E353.2	0.500	**41.3**	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Sample ID: 1703181-001C
Client Sample ID: TW4-25_03082017
Collection Date: 3/8/2017 1202h
Received Date: 3/10/2017 853h

Test Code: 8260-W-DEN100

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

Analyzed: 3/10/2017 1322h
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	**1.15**	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	51.8	50.00	104	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	52.6	50.00	105	80-152	
Surr: Dibromofluoromethane	1868-53-7	50.1	50.00	100	70-130	
Surr: Toluene-d8	2037-26-5	50.5	50.00	101	60-115	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Sample ID: 1703181-001
Client Sample ID: TW4-25_03082017
Collection Date: 3/8/2017 1202h
Received Date: 3/10/2017 853h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		3/15/2017 753h	E300.0	100	**285**	
Nitrate/Nitrite (as N)	mg/L		3/10/2017 1115h	E353.2	0.100	**17.0**	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Sample ID: 1703339-018C
Client Sample ID: TW4-26_03162017
Collection Date: 3/16/2017 745h
Received Date: 3/17/2017 1015h

Test Code: 8260-W-DEN100

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

Analyzed: 3/17/2017 1733h
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	**46.1**	
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	54.8	50.00	110	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	52.1	50.00	104	80-152	
Surr: Dibromofluoromethane	1868-53-7	50.5	50.00	101	70-130	
Surr: Toluene-d8	2037-26-5	50.3	50.00	101	60-115	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Sample ID: 1703339-018
Client Sample ID: TW4-26_03162017
Collection Date: 3/16/2017 745h
Received Date: 3/17/2017 1015h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		3/23/2017 310h	E300.0	5.00	**16.2**	
Nitrate/Nitrite (as N)	mg/L		3/17/2017 1820h	E353.2	0.100	**15.8**	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: 1st Quarter Chloroform 2017
Lab Sample ID: 1703339-014C
Client Sample ID: TW4-27_03152017
Collection Date: 3/15/2017 903h
Received Date: 3/17/2017 1015h

Test Code: 8260-W-DEN100

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

Analyzed: 3/17/2017 1534h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	**4.33**	
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	53.9	50.00	108	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	52.7	50.00	105	80-152	
Surr: Dibromofluoromethane	1868-53-7	50.1	50.00	100	70-130	
Surr: Toluene-d8	2037-26-5	50.5	50.00	101	60-115	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Sample ID: 1703339-014
Client Sample ID: TW4-27_03152017
Collection Date: 3/15/2017 903h
Received Date: 3/17/2017 1015h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		3/23/2017 129h	E300.0	5.00	**28.3**	
Nitrate/Nitrite (as N)	mg/L		3/17/2017 1839h	E353.2	0.200	**22.2**	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Sample ID: 1703339-005C
Client Sample ID: TW4-28_03142017
Collection Date: 3/14/2017 743h
Received Date: 3/17/2017 1015h

Test Code: 8260-W-DEN100

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

Analyzed: 3/17/2017 1722h
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	57.6	50.00	115	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	51.7	50.00	103	80-152	
Surr: Dibromofluoromethane	1868-53-7	51.4	50.00	103	70-130	
Surr: Toluene-d8	2037-26-5	48.5	50.00	97.0	60-115	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Sample ID: 1703339-005
Client Sample ID: TW4-28_03142017
Collection Date: 3/14/2017 743h
Received Date: 3/17/2017 1015h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		3/22/2017 2116h	E300.0	10.0	**64.2**	
Nitrate/Nitrite (as N)	mg/L		3/17/2017 1837h	E353.2	0.500	**24.4**	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Sample ID: 1703339-024C
Client Sample ID: TW4-29_03162017
Collection Date: 3/16/2017 839h
Received Date: 3/17/2017 1015h

Test Code: 8260-W-DEN100

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

Analyzed: 3/20/2017 1421h
Units: µg/L **Dilution Factor:** 10 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	10.0	**446**	~

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	601	500.0	120	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	523	500.0	105	80-152	
Surr: Dibromofluoromethane	1868-53-7	532	500.0	106	70-130	
Surr: Toluene-d8	2037-26-5	491	500.0	98.3	60-115	

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

Analyzed: 3/17/2017 1932h
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	53.2	50.00	106	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	50.6	50.00	101	80-152	
Surr: Dibromofluoromethane	1868-53-7	49.2	50.00	98.4	70-130	
Surr: Toluene-d8	2037-26-5	49.4	50.00	98.7	60-115	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Sample ID: 1703339-024
Client Sample ID: TW4-29_03162017
Collection Date: 3/16/2017 839h
Received Date: 3/17/2017 1015h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		3/23/2017 528h	E300.0	10.0	**41.5**	
Nitrate/Nitrite (as N)	mg/L		3/17/2017 1831h	E353.2	0.100	**2.24**	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Sample ID: 1703339-016C
Client Sample ID: TW4-30_03152017
Collection Date: 3/15/2017 915h
Received Date: 3/17/2017 1015h

Test Code: 8260-W-DEN100

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

Analyzed: 3/17/2017 1653h
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	**13.6**	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	54.1	50.00	108	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	51.6	50.00	103	80-152	
Surr: Dibromofluoromethane	1868-53-7	50.2	50.00	100	70-130	
Surr: Toluene-d8	2037-26-5	50.7	50.00	101	60-115	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Sample ID: 1703339-016
Client Sample ID: TW4-30_03152017
Collection Date: 3/15/2017 915h
Received Date: 3/17/2017 1015h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		3/23/2017 203h	E300.0	10.0	**37.7**	
Nitrate/Nitrite (as N)	mg/L		3/17/2017 1817h	E353.2	0.100	**2.70**	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Sample ID: 1703339-002C
Client Sample ID: TW4-30R_03142017
Collection Date: 3/14/2017 1335h
Received Date: 3/17/2017 1015h
Test Code: 8260-W-DEN100

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

Analyzed: 3/17/2017 1524h
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	56.5	50.00	113	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	50.6	50.00	101	80-152	
Surr: Dibromofluoromethane	1868-53-7	50.5	50.00	101	70-130	
Surr: Toluene-d8	2037-26-5	48.6	50.00	97.2	60-115	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Sample ID: 1703339-002
Client Sample ID: TW4-30R_03142017
Collection Date: 3/14/2017 1335h
Received Date: 3/17/2017 1015h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		3/23/2017 734h	E300.0	1.00	< 1.00	
Nitrate/Nitrite (as N)	mg/L		3/17/2017 1751h	E353.2	0.100	< 0.100	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Sample ID: 1703339-009C
Client Sample ID: TW4-31_03152017
Collection Date: 3/15/2017 817h
Received Date: 3/17/2017 1015h

Test Code: 8260-W-DEN100

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

Analyzed: 3/17/2017 1841h
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	58.3	50.00	117	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	51.2	50.00	102	80-152	
Surr: Dibromofluoromethane	1868-53-7	51.4	50.00	103	70-130	
Surr: Toluene-d8	2037-26-5	48.4	50.00	96.8	60-115	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Sample ID: 1703339-009
Client Sample ID: TW4-31_03152017
Collection Date: 3/15/2017 817h
Received Date: 3/17/2017 1015h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		3/23/2017 005h	E300.0	10.0	**31.3**	
Nitrate/Nitrite (as N)	mg/L		3/17/2017 1806h	E353.2	0.100	**1.19**	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Sample ID: 1703339-006C
Client Sample ID: TW4-32_03142017
Collection Date: 3/14/2017 751h
Received Date: 3/17/2017 1015h

Test Code: 8260-W-DEN100

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

Analyzed: 3/17/2017 1742h
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	58.9	50.00	118	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	52.2	50.00	104	80-152	
Surr: Dibromofluoromethane	1868-53-7	51.4	50.00	103	70-130	
Surr: Toluene-d8	2037-26-5	49.3	50.00	98.6	60-115	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Sample ID: 1703339-006
Client Sample ID: TW4-32_03142017
Collection Date: 3/14/2017 751h
Received Date: 3/17/2017 1015h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		3/22/2017 2133h	E300.0	10.0	**62.8**	
Nitrate/Nitrite (as N)	mg/L		3/17/2017 1756h	E353.2	0.100	**2.82**	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Sample ID: 1703339-022C
Client Sample ID: TW4-33_03162017
Collection Date: 3/16/2017 824h
Received Date: 3/17/2017 1015h

Test Code: 8260-W-DEN100

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

Analyzed: 3/17/2017 1852h
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	**90.7**	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	53.8	50.00	108	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	51.4	50.00	103	80-152	
Surr: Dibromofluoromethane	1868-53-7	49.8	50.00	99.5	70-130	
Surr: Toluene-d8	2037-26-5	49.8	50.00	99.6	60-115	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Sample ID: 1703339-022
Client Sample ID: TW4-33_03162017
Collection Date: 3/16/2017 824h
Received Date: 3/17/2017 1015h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		3/23/2017 418h	E300.0	10.0	**49.0**	
Nitrate/Nitrite (as N)	mg/L		3/17/2017 1829h	E353.2	0.100	**2.11**	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Sample ID: 1703339-010C
Client Sample ID: TW4-34_03152017
Collection Date: 3/15/2017 823h
Received Date: 3/17/2017 1015h

Test Code: 8260-W-DEN100

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

Analyzed: 3/17/2017 1901h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

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

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	57.4	50.00	115	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	50.8	50.00	102	80-152	
Surr: Dibromofluoromethane	1868-53-7	51.0	50.00	102	70-130	
Surr: Toluene-d8	2037-26-5	47.7	50.00	95.5	60-115	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Sample ID: 1703339-010
Client Sample ID: TW4-34_03152017
Collection Date: 3/15/2017 823h
Received Date: 3/17/2017 1015h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		3/22/2017 2224h	E300.0	5.00	**18.0**	
Nitrate/Nitrite (as N)	mg/L		3/17/2017 1808h	E353.2	0.100	**0.674**	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Sample ID: 1703339-011C
Client Sample ID: TW4-35_03152017
Collection Date: 3/15/2017 840h
Received Date: 3/17/2017 1015h

Test Code: 8260-W-DEN100

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

Analyzed: 3/17/2017 1921h
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	55.9	50.00	112	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	48.5	50.00	97.0	80-152	
Surr: Dibromofluoromethane	1868-53-7	48.8	50.00	97.7	70-130	
Surr: Toluene-d8	2037-26-5	46.3	50.00	92.7	60-115	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Sample ID: 1703339-011
Client Sample ID: TW4-35_03152017
Collection Date: 3/15/2017 840h
Received Date: 3/17/2017 1015h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		3/22/2017 2240h	E300.0	10.0	**33.7**	
Nitrate/Nitrite (as N)	mg/L		3/17/2017 1809h	E353.2	0.100	**0.673**	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Sample ID: 1703339-008C
Client Sample ID: TW4-36_03152017
Collection Date: 3/15/2017 811h
Received Date: 3/17/2017 1015h

Test Code: 8260-W-DEN100

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

Analyzed: 3/17/2017 1821h
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	58.4	50.00	117	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	50.8	50.00	102	80-152	
Surr: Dibromofluoromethane	1868-53-7	51.6	50.00	103	70-130	
Surr: Toluene-d8	2037-26-5	49.0	50.00	98.0	60-115	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Sample ID: 1703339-008
Client Sample ID: TW4-36_03152017
Collection Date: 3/15/2017 811h
Received Date: 3/17/2017 1015h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		3/22/2017 2207h	E300.0	10.0	**60.2**	
Nitrate/Nitrite (as N)	mg/L		3/17/2017 1803h	E353.2	0.100	< 0.100	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Sample ID: 1703181-012C
Client Sample ID: TW4-37_03082017
Collection Date: 3/8/2017 1230h
Received Date: 3/10/2017 853h
Test Code: 8260-W-DEN100

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

Analyzed: 3/14/2017 1915h
Units: µg/L **Dilution Factor:** 500 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	500	**18,000**	~

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	28,200	25,000	113	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	26,000	25,000	104	80-152	
Surr: Dibromofluoromethane	1868-53-7	25,400	25,000	102	70-130	
Surr: Toluene-d8	2037-26-5	24,500	25,000	98.1	60-115	

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

Analyzed: 3/10/2017 1838h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	**15.4**	
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	55.2	50.00	110	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	51.3	50.00	103	80-152	
Surr: Dibromofluoromethane	1868-53-7	50.6	50.00	101	70-130	
Surr: Toluene-d8	2037-26-5	49.3	50.00	98.6	60-115	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Sample ID: 1703181-012
Client Sample ID: TW4-37_03082017
Collection Date: 3/8/2017 1230h
Received Date: 3/10/2017 853h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		3/14/2017 1355h	E300.0	100	**305**	
Nitrate/Nitrite (as N)	mg/L		3/10/2017 1129h	E353.2	0.200	**32.3**	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Sample ID: 1703339-013C
Client Sample ID: TW4-38_03152017
Collection Date: 3/15/2017 855h
Received Date: 3/17/2017 1015h

Test Code: 8260-W-DEN100

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

Analyzed: 3/17/2017 1514h
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	54.1	50.00	108	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	51.9	50.00	104	80-152	
Surr: Dibromofluoromethane	1868-53-7	50.4	50.00	101	70-130	
Surr: Toluene-d8	2037-26-5	50.7	50.00	101	60-115	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Sample ID: 1703339-013
Client Sample ID: TW4-38_03152017
Collection Date: 3/15/2017 855h
Received Date: 3/17/2017 1015h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		3/23/2017 112h	E300.0	10.0	**35.7**	
Nitrate/Nitrite (as N)	mg/L		3/17/2017 1811h	E353.2	0.100	**10.6**	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Sample ID: 1703181-008C
Client Sample ID: TW4-39_03082017
Collection Date: 3/8/2017 1249h
Received Date: 3/10/2017 853h
Test Code: 8260-W-DEN100

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

Analyzed: 3/13/2017 2018h
Units: µg/L **Dilution Factor:** 100 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	100	**6,460**	~

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	5,640	5,000	113	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	5,210	5,000	104	80-152	
Surr: Dibromofluoromethane	1868-53-7	5,110	5,000	102	70-130	
Surr: Toluene-d8	2037-26-5	4,910	5,000	98.3	60-115	

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

Analyzed: 3/10/2017 1640h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	**8.15**	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	**1.35**	

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	52.3	50.00	105	80-152	
Surr: Dibromofluoromethane	1868-53-7	50.9	50.00	102	70-130	
Surr: Toluene-d8	2037-26-5	49.4	50.00	98.9	60-115	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Sample ID: 1703181-008
Client Sample ID: TW4-39_03082017
Collection Date: 3/8/2017 1249h
Received Date: 3/10/2017 853h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		3/14/2017 1721h	E300.0	20.0	**130**	
Nitrate/Nitrite (as N)	mg/L		3/10/2017 1123h	E353.2	0.200	**6.44**	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Sample ID: 1703181-015C
Client Sample ID: TW4-60_03082017
Collection Date: 3/8/2017 930h
Received Date: 3/10/2017 853h

Test Code: 8260-W-DEN100

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

Analyzed: 3/13/2017 1800h
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	49.1	50.00	98.2	80-152	
Surr: Dibromofluoromethane	1868-53-7	50.9	50.00	102	70-130	
Surr: Toluene-d8	2037-26-5	48.8	50.00	97.6	60-115	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Sample ID: 1703181-015
Client Sample ID: TW4-60_03082017
Collection Date: 3/8/2017 930h
Received Date: 3/10/2017 853h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		3/14/2017 1450h	E300.0	1.00	< 1.00	
Nitrate/Nitrite (as N)	mg/L		3/10/2017 1132h	E353.2	0.100	< 0.100	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Sample ID: 1703339-025C
Client Sample ID: TW4-65_03142017
Collection Date: 3/14/2017 743h
Received Date: 3/17/2017 1015h
Test Code: 8260-W-DEN100

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

Analyzed: 3/17/2017 1951h
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	49.5	50.00	99.0	80-152	
Surr: Dibromofluoromethane	1868-53-7	49.0	50.00	98.1	70-130	
Surr: Toluene-d8	2037-26-5	49.2	50.00	98.5	60-115	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Sample ID: 1703339-025
Client Sample ID: TW4-65_03142017
Collection Date: 3/14/2017 743h
Received Date: 3/17/2017 1015h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		3/23/2017 620h	E300.0	10.0	**66.4**	
Nitrate/Nitrite (as N)	mg/L		3/17/2017 1845h	E353.2	0.200	**27.9**	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Sample ID: 1703339-026C
Client Sample ID: TW4-70_03152017
Collection Date: 3/15/2017 846h
Received Date: 3/17/2017 1015h

Test Code: 8260-W-DEN100

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

Analyzed: 3/17/2017 2011h
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	53.7	50.00	107	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	50.9	50.00	102	80-152	
Surr: Dibromofluoromethane	1868-53-7	49.1	50.00	98.2	70-130	
Surr: Toluene-d8	2037-26-5	49.5	50.00	99.0	60-115	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Sample ID: 1703339-026
Client Sample ID: TW4-70_03152017
Collection Date: 3/15/2017 846h
Received Date: 3/17/2017 1015h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		3/23/2017 637h	E300.0	10.0	**49.8**	
Nitrate/Nitrite (as N)	mg/L		3/17/2017 1834h	E353.2	0.100	< 0.100	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Sample ID: 1703339-027C
Client Sample ID: TW4-75_03162017
Collection Date: 3/16/2017 757h
Received Date: 3/17/2017 1015h

Test Code: 8260-W-DEN100

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

Analyzed: 3/17/2017 2031h
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	**61.5**	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	53.0	50.00	106	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	51.4	50.00	103	80-152	
Surr: Dibromofluoromethane	1868-53-7	49.0	50.00	98.0	70-130	
Surr: Toluene-d8	2037-26-5	49.1	50.00	98.3	60-115	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Sample ID: 1703339-027
Client Sample ID: TW4-75_03162017
Collection Date: 3/16/2017 757h
Received Date: 3/17/2017 1015h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		3/23/2017 654h	E300.0	10.0	**41.1**	
Nitrate/Nitrite (as N)	mg/L		3/17/2017 1835h	E353.2	0.100	**4.41**	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Sample ID: 1703181-016A
Client Sample ID: Trip Blank
Collection Date: 3/8/2017
Received Date: 3/10/2017 853h

Test Code: 8260-W-DEN100

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

Analyzed: 3/13/2017 1820h
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	57.3	50.00	115	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	52.7	50.00	105	80-152	
Surr: Dibromofluoromethane	1868-53-7	51.7	50.00	103	70-130	
Surr: Toluene-d8	2037-26-5	50.2	50.00	101	60-115	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Sample ID: 1703339-028A
Client Sample ID: Trip Blank
Collection Date: 3/13/2017
Received Date: 3/17/2017 1015h

Test Code: 8260-W-DEN100

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

Analyzed: 3/17/2017 2051h
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	52.7	50.00	105	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	51.2	50.00	103	80-152	
Surr: Dibromofluoromethane	1868-53-7	47.2	50.00	94.5	70-130	
Surr: Toluene-d8	2037-26-5	49.6	50.00	99.1	60-115	

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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: 1st Quarter Chloroform 2017
Lab Sample ID: 1703458-006A
Client Sample ID: Trip Blank
Collection Date: 3/20/2017
Received Date: 3/23/2017 1035h

Test Code: 8260-W-DEN100

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

Analyzed: 3/23/2017 1343h
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	52.6	50.00	105	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	54.2	50.00	108	80-152	
Surr: Dibromofluoromethane	1868-53-7	50.4	50.00	101	70-130	
Surr: Toluene-d8	2037-26-5	50.3	50.00	101	60-115	

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Garrin Palmer
Energy Fuels Resources, Inc.
6425 S. Hwy 191
Blanding, UT 84511
TEL: (303) 389-4134

RE: 1st Quarter Chloroform 2017

Dear Garrin Palmer: Lab Set ID: 1703181

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Salt Lake City, UT 84119

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

American West Analytical Laboratories received sample(s) on 3/10/2017 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: 2017.03.24 13:42:17 -06'00'

Laboratory Director or designee

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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:	March Ground Water 2017
Lab Set ID:	1703180

Sample Receipt Information:

Date of Receipt:	3/10/2017
Dates of Collection:	3/8/2017
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
1703180-003B	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

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Laboratory Director

Jose Rocha
QA Officer

Volatile Case Narrative

Client:	Energy Fuels Resources, Inc.
Contact:	Garrin Palmer
Project:	March Ground Water 2017
Lab Set ID:	1703180

Sample Receipt Information:

Date of Receipt:	3/10/2017
Dates of Collection:	3/8/2017
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

SAMPLE SUMMARY

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Set ID: 1703181
Date Received: 3/10/2017 853h

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID	Client Sample ID	Date Collected		Matrix	Analysis
1703181-001A	TW4-25_03082017	3/8/2017	1202h	Aqueous	Anions, E300.0
1703181-001B	TW4-25_03082017	3/8/2017	1202h	Aqueous	Nitrite/Nitrate (as N), E353.2
1703181-001C	TW4-25_03082017	3/8/2017	1202h	Aqueous	VOA by GC/MS Method 8260C/5030C
1703181-002A	TW4-24_03082017	3/8/2017	1212h	Aqueous	Anions, E300.0
1703181-002B	TW4-24_03082017	3/8/2017	1212h	Aqueous	Nitrite/Nitrate (as N), E353.2
1703181-002C	TW4-24_03082017	3/8/2017	1212h	Aqueous	VOA by GC/MS Method 8260C/5030C
1703181-003A	TW4-21_03082017	3/8/2017	1152h	Aqueous	Anions, E300.0
1703181-003B	TW4-21_03082017	3/8/2017	1152h	Aqueous	Nitrite/Nitrate (as N), E353.2
1703181-003C	TW4-21_03082017	3/8/2017	1152h	Aqueous	VOA by GC/MS Method 8260C/5030C
1703181-004A	TW4-01_03082017	3/8/2017	1328h	Aqueous	Anions, E300.0
1703181-004B	TW4-01_03082017	3/8/2017	1328h	Aqueous	Nitrite/Nitrate (as N), E353.2
1703181-004C	TW4-01_03082017	3/8/2017	1328h	Aqueous	VOA by GC/MS Method 8260C/5030C
1703181-005A	TW4-04_03082017	3/8/2017	1338h	Aqueous	Anions, E300.0
1703181-005B	TW4-04_03082017	3/8/2017	1338h	Aqueous	Nitrite/Nitrate (as N), E353.2
1703181-005C	TW4-04_03082017	3/8/2017	1338h	Aqueous	VOA by GC/MS Method 8260C/5030C
1703181-006A	TW4-02_03082017	3/8/2017	1315h	Aqueous	Anions, E300.0
1703181-006B	TW4-02_03082017	3/8/2017	1315h	Aqueous	Nitrite/Nitrate (as N), E353.2
1703181-006C	TW4-02_03082017	3/8/2017	1315h	Aqueous	VOA by GC/MS Method 8260C/5030C
1703181-007A	MW-26_03082017	3/8/2017	1257h	Aqueous	Anions, E300.0
1703181-007B	MW-26_03082017	3/8/2017	1257h	Aqueous	Nitrite/Nitrate (as N), E353.2
1703181-007C	MW-26_03082017	3/8/2017	1257h	Aqueous	VOA by GC/MS Method 8260C/5030C
1703181-008A	TW4-39_03082017	3/8/2017	1249h	Aqueous	Anions, E300.0
1703181-008B	TW4-39_03082017	3/8/2017	1249h	Aqueous	Nitrite/Nitrate (as N), E353.2
1703181-008C	TW4-39_03082017	3/8/2017	1249h	Aqueous	VOA by GC/MS Method 8260C/5030C
1703181-009A	TW4-11_03082017	3/8/2017	1305h	Aqueous	Anions, E300.0
1703181-009B	TW4-11_03082017	3/8/2017	1305h	Aqueous	Nitrite/Nitrate (as N), E353.2
1703181-009C	TW4-11_03082017	3/8/2017	1305h	Aqueous	VOA by GC/MS Method 8260C/5030C
1703181-010A	TW4-22_03082017	3/8/2017	1222h	Aqueous	Anions, E300.0
1703181-010B	TW4-22_03082017	3/8/2017	1222h	Aqueous	Nitrite/Nitrate (as N), E353.2

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Set ID: 1703181
Date Received: 3/10/2017 853h

Lab Sample ID	Client Sample ID	Date Collected		Matrix	Analysis
1703181-010C	TW4-22_03082017	3/8/2017	1222h	Aqueous	VOA by GC/MS Method 8260C/5030C
1703181-011A	TW4-19_03082017	3/8/2017	1410h	Aqueous	Anions, E300.0
1703181-011B	TW4-19_03082017	3/8/2017	1410h	Aqueous	Nitrite/Nitrate (as N), E353.2
1703181-011C	TW4-19_03082017	3/8/2017	1410h	Aqueous	VOA by GC/MS Method 8260C/5030C
1703181-012A	TW4-37_03082017	3/8/2017	1230h	Aqueous	Anions, E300.0
1703181-012B	TW4-37_03082017	3/8/2017	1230h	Aqueous	Nitrite/Nitrate (as N), E353.2
1703181-012C	TW4-37_03082017	3/8/2017	1230h	Aqueous	VOA by GC/MS Method 8260C/5030C
1703181-013A	TW4-20_03082017	3/8/2017	1238h	Aqueous	Anions, E300.0
1703181-013B	TW4-20_03082017	3/8/2017	1238h	Aqueous	Nitrite/Nitrate (as N), E353.2
1703181-013C	TW4-20_03082017	3/8/2017	1238h	Aqueous	VOA by GC/MS Method 8260C/5030C
1703181-014A	MW-04_03082017	3/8/2017	1321h	Aqueous	Anions, E300.0
1703181-014B	MW-04_03082017	3/8/2017	1321h	Aqueous	Nitrite/Nitrate (as N), E353.2
1703181-014C	MW-04_03082017	3/8/2017	1321h	Aqueous	VOA by GC/MS Method 8260C/5030C
1703181-015A	TW4-60_03082017	3/8/2017	930h	Aqueous	Anions, E300.0
1703181-015B	TW4-60_03082017	3/8/2017	930h	Aqueous	Nitrite/Nitrate (as N), E353.2
1703181-015C	TW4-60_03082017	3/8/2017	930h	Aqueous	VOA by GC/MS Method 8260C/5030C
1703181-016A	Trip Blank	3/8/2017		Aqueous	VOA by GC/MS Method 8260C/5030C

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1703181
Project: 1st Quarter Chloroform 2017

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-R99469 Date Analyzed: 03/14/2017 1140h													
Test Code: 300.0-W													
Chloride	5.02	mg/L	E300.0	0.0127	0.100	5.000	0	100	90 - 110				
Lab Sample ID: LCS-R99261 Date Analyzed: 03/10/2017 1027h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.05	mg/L	E353.2	0.00833	0.0100	1.000	0	105	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: 1703181
Project: 1st Quarter Chloroform 2017

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-R99469 Date Analyzed: 03/14/2017 1124h													
Test Code: 300.0-W													
Chloride	< 0.100	mg/L	E300.0	0.0127	0.100								
Lab Sample ID: MB-R99261 Date Analyzed: 03/10/2017 1026h													
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
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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1703181
Project: 1st Quarter Chloroform 2017

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: 1703181-002AMS Date Analyzed: 03/14/2017 1214h Test Code: 300.0-W													
Chloride	2,050	mg/L	E300.0	2.54	20.0	1,000	1090	96.6	90 - 110				
Lab Sample ID: 1703181-010AMS Date Analyzed: 03/14/2017 1305h Test Code: 300.0-W													
Chloride	1,530	mg/L	E300.0	2.54	20.0	1,000	566	96.1	90 - 110				
Lab Sample ID: 1703180-003BMS Date Analyzed: 03/10/2017 1029h Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	13.2	mg/L	E353.2	0.0833	0.100	10.00	1.72	115	90 - 110				1
Lab Sample ID: 1703182-002CMS Date Analyzed: 03/10/2017 1035h Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	11.0	mg/L	E353.2	0.0833	0.100	10.00	0.18	109	90 - 110				
Lab Sample ID: 1703181-001BMS Date Analyzed: 03/10/2017 1133h Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	125	mg/L	E353.2	0.833	1.00	100.0	17	108	90 - 110				

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
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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1703181
Project: 1st Quarter Chloroform 2017

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: 1703181-002AMSD Date Analyzed: 03/14/2017 1231h Test Code: 300.0-W													
Chloride	2,120	mg/L	E300.0	2.54	20.0	1,000	1090	104	90 - 110	2050	3.37	20	
Lab Sample ID: 1703181-010AMSD Date Analyzed: 03/14/2017 1322h Test Code: 300.0-W													
Chloride	1,620	mg/L	E300.0	2.54	20.0	1,000	566	105	90 - 110	1530	5.80	20	
Lab Sample ID: 1703180-003BMSD Date Analyzed: 03/10/2017 1030h Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	12.9	mg/L	E353.2	0.0833	0.100	10.00	1.72	112	90 - 110	13.2	2.30	10	1
Lab Sample ID: 1703182-002CMSD Date Analyzed: 03/10/2017 1038h Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	11.2	mg/L	E353.2	0.0833	0.100	10.00	0.18	110	90 - 110	11	1.08	10	
Lab Sample ID: 1703181-001BMSD Date Analyzed: 03/10/2017 1134h Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	125	mg/L	E353.2	0.833	1.00	100.0	17	108	90 - 110	125	0.160	10	

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: 1703181
Project: 1st Quarter Chloroform 2017

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 031017A Date Analyzed: 03/10/2017 1125h													
Test Code: 8260-W-DEN100													
Chloroform	19.9	µg/L	SW8260C	0.320	1.00	20.00	0	99.4	85 - 124				
Methylene chloride	20.0	µg/L	SW8260C	0.372	1.00	20.00	0	99.8	71 - 135				
Surr: 1,2-Dichloroethane-d4	50.9	µg/L	SW8260C			50.00		102	80 - 125				
Surr: 4-Bromofluorobenzene	50.2	µg/L	SW8260C			50.00		100	85 - 121				
Surr: Dibromofluoromethane	50.1	µg/L	SW8260C			50.00		100	77 - 118				
Surr: Toluene-d8	49.9	µg/L	SW8260C			50.00		99.9	81 - 123				
Lab Sample ID: LCS VOC-1 031317A Date Analyzed: 03/13/2017 1222h													
Test Code: 8260-W-DEN100													
Chloroform	22.0	µg/L	SW8260C	0.320	1.00	20.00	0	110	85 - 124				
Methylene chloride	19.1	µg/L	SW8260C	0.372	1.00	20.00	0	95.7	71 - 135				
Surr: 1,2-Dichloroethane-d4	55.4	µg/L	SW8260C			50.00		111	80 - 125				
Surr: 4-Bromofluorobenzene	50.3	µg/L	SW8260C			50.00		101	85 - 121				
Surr: Dibromofluoromethane	50.6	µg/L	SW8260C			50.00		101	77 - 118				
Surr: Toluene-d8	48.4	µg/L	SW8260C			50.00		96.9	81 - 123				
Lab Sample ID: LCS VOC-1 031417A Date Analyzed: 03/14/2017 1119h													
Test Code: 8260-W-DEN100													
Chloroform	22.6	µg/L	SW8260C	0.320	1.00	20.00	0	113	85 - 124				
Surr: 1,2-Dichloroethane-d4	56.8	µg/L	SW8260C			50.00		114	80 - 125				
Surr: 4-Bromofluorobenzene	49.8	µg/L	SW8260C			50.00		99.5	85 - 121				
Surr: Dibromofluoromethane	52.6	µg/L	SW8260C			50.00		105	77 - 118				
Surr: Toluene-d8	49.6	µg/L	SW8260C			50.00		99.2	81 - 123				
Lab Sample ID: LCS VOC-032117A Date Analyzed: 03/21/2017 1206h													
Test Code: 8260-W-DEN100													
Chloroform	21.4	µg/L	SW8260C	0.320	1.00	20.00	0	107	85 - 124				
Surr: 1,2-Dichloroethane-d4	53.2	µg/L	SW8260C			50.00		106	80 - 125				
Surr: 4-Bromofluorobenzene	48.5	µg/L	SW8260C			50.00		97.0	85 - 121				

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1703181
Project: 1st Quarter Chloroform 2017

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-032117A Date Analyzed: 03/21/2017 1206h													
Test Code: 8260-W-DEN100													
Surr: Dibromofluoromethane	50.3	µg/L	SW8260C			50.00		101	77 - 118				
Surr: Toluene-d8	49.5	µg/L	SW8260C			50.00		99.0	81 - 123				
Lab Sample ID: LCS VOC-1 032117A Date Analyzed: 03/21/2017 1211h													
Test Code: 8260-W-DEN100													
Methylene chloride	19.8	µg/L	SW8260C	0.372	1.00	20.00	0	98.8	71 - 135				
Surr: 1,2-Dichloroethane-d4	59.0	µg/L	SW8260C			50.00		118	80 - 125				
Surr: 4-Bromofluorobenzene	49.8	µg/L	SW8260C			50.00		99.6	85 - 121				
Surr: Dibromofluoromethane	53.0	µg/L	SW8260C			50.00		106	77 - 118				
Surr: Toluene-d8	49.4	µg/L	SW8260C			50.00		98.8	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: 1703181
Project: 1st Quarter Chloroform 2017

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 031017A Date Analyzed: 03/10/2017 1204h													
Test Code: 8260-W-DEN100													
Carbon tetrachloride	< 1.00	µg/L	SW8260C	0.217	1.00								
Chloroform	< 1.00	µg/L	SW8260C	0.320	1.00								
Chloromethane	< 1.00	µg/L	SW8260C	0.681	1.00								
Methylene chloride	< 1.00	µg/L	SW8260C	0.372	1.00								
Surr: 1,2-Dichloroethane-d4	51.2	µg/L	SW8260C			50.00		103	80 - 125				
Surr: 4-Bromofluorobenzene	51.7	µg/L	SW8260C			50.00		103	85 - 121				
Surr: Dibromofluoromethane	49.1	µg/L	SW8260C			50.00		98.2	77 - 118				
Surr: Toluene-d8	49.2	µg/L	SW8260C			50.00		98.4	81 - 123				
Lab Sample ID: MB VOC-1 031317A Date Analyzed: 03/13/2017 1302h													
Test Code: 8260-W-DEN100													
Carbon tetrachloride	< 1.00	µg/L	SW8260C	0.217	1.00								
Chloroform	< 1.00	µg/L	SW8260C	0.320	1.00								
Chloromethane	< 1.00	µg/L	SW8260C	0.681	1.00								
Methylene chloride	< 1.00	µg/L	SW8260C	0.372	1.00								
Surr: 1,2-Dichloroethane-d4	56.6	µg/L	SW8260C			50.00		113	80 - 125				
Surr: 4-Bromofluorobenzene	52.6	µg/L	SW8260C			50.00		105	85 - 121				
Surr: Dibromofluoromethane	51.3	µg/L	SW8260C			50.00		103	77 - 118				
Surr: Toluene-d8	49.7	µg/L	SW8260C			50.00		99.3	81 - 123				
Lab Sample ID: MB VOC-1 031417A Date Analyzed: 03/14/2017 1158h													
Test Code: 8260-W-DEN100													
Chloroform	< 1.00	µg/L	SW8260C	0.320	1.00								
Surr: 1,2-Dichloroethane-d4	56.5	µg/L	SW8260C			50.00		113	80 - 125				
Surr: 4-Bromofluorobenzene	51.2	µg/L	SW8260C			50.00		102	85 - 121				
Surr: Dibromofluoromethane	51.0	µg/L	SW8260C			50.00		102	77 - 118				
Surr: Toluene-d8	49.0	µg/L	SW8260C			50.00		97.9	81 - 123				

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1703181
Project: 1st Quarter Chloroform 2017

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-032117A Date Analyzed: 03/21/2017 1246h													
Test Code: 8260-W-DEN100													
Chloroform	< 1.00	µg/L	SW8260C	0.320	1.00								
Surr: 1,2-Dichloroethane-d4	54.4	µg/L	SW8260C			50.00		109	80 - 125				
Surr: 4-Bromofluorobenzene	50.3	µg/L	SW8260C			50.00		101	85 - 121				
Surr: Dibromofluoromethane	51.0	µg/L	SW8260C			50.00		102	77 - 118				
Surr: Toluene-d8	50.4	µg/L	SW8260C			50.00		101	81 - 123				
Lab Sample ID: MB VOC-1 032117A Date Analyzed: 03/21/2017 1251h													
Test Code: 8260-W-DEN100													
Carbon tetrachloride	< 1.00	µg/L	SW8260C	0.217	1.00								
Chloromethane	< 1.00	µg/L	SW8260C	0.681	1.00								
Methylene chloride	< 1.00	µg/L	SW8260C	0.372	1.00								
Surr: 1,2-Dichloroethane-d4	59.1	µg/L	SW8260C			50.00		118	80 - 125				
Surr: 4-Bromofluorobenzene	51.4	µg/L	SW8260C			50.00		103	85 - 121				
Surr: Dibromofluoromethane	51.9	µg/L	SW8260C			50.00		104	77 - 118				
Surr: Toluene-d8	48.5	µg/L	SW8260C			50.00		97.1	81 - 123				

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Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1703181
Project: 1st Quarter Chloroform 2017

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: 1703181-001CMS Date Analyzed: 03/10/2017 1501h													
Test Code: 8260-W-DEN100													
Chloroform	20.9	µg/L	SW8260C	0.320	1.00	20.00	1.15	98.9	50 - 146				
Methylene chloride	18.4	µg/L	SW8260C	0.372	1.00	20.00	0	91.9	30 - 192				
Surr: 1,2-Dichloroethane-d4	52.6	µg/L	SW8260C			50.00		105	72 - 151				
Surr: 4-Bromofluorobenzene	50.5	µg/L	SW8260C			50.00		101	80 - 152				
Surr: Dibromofluoromethane	50.6	µg/L	SW8260C			50.00		101	70 - 130				
Surr: Toluene-d8	48.6	µg/L	SW8260C			50.00		97.2	60 - 115				
Lab Sample ID: 1703180-003DMS Date Analyzed: 03/13/2017 1614h													
Test Code: 8260-W-DEN100													
Chloroform	3,170	µg/L	SW8260C	16.0	50.0	1,000	2030	114	50 - 146				
Methylene chloride	950	µg/L	SW8260C	18.6	50.0	1,000	0	95.0	30 - 192				
Surr: 1,2-Dichloroethane-d4	2,820	µg/L	SW8260C			2,500		113	72 - 151				
Surr: 4-Bromofluorobenzene	2,470	µg/L	SW8260C			2,500		98.7	80 - 152				
Surr: Dibromofluoromethane	2,560	µg/L	SW8260C			2,500		103	70 - 130				
Surr: Toluene-d8	2,410	µg/L	SW8260C			2,500		96.3	60 - 115				
Lab Sample ID: 1703182-002EMS Date Analyzed: 03/13/2017 1654h													
Test Code: 8260-W-DEN100													
Chloroform	20.3	µg/L	SW8260C	0.320	1.00	20.00	0	101	50 - 146				
Methylene chloride	20.4	µg/L	SW8260C	0.372	1.00	20.00	0	102	30 - 192				
Surr: 1,2-Dichloroethane-d4	56.0	µg/L	SW8260C			50.00		112	72 - 151				
Surr: 4-Bromofluorobenzene	49.3	µg/L	SW8260C			50.00		98.5	80 - 152				
Surr: Dibromofluoromethane	50.8	µg/L	SW8260C			50.00		102	70 - 130				
Surr: Toluene-d8	48.9	µg/L	SW8260C			50.00		97.9	60 - 115				
Lab Sample ID: 1703216-011AMS Date Analyzed: 03/14/2017 1438h													
Test Code: 8260-W-DEN100													
Chloroform	215	µg/L	SW8260C	3.20	10.0	200.0	0	107	50 - 146				
Surr: 1,2-Dichloroethane-d4	548	µg/L	SW8260C			500.0		110	72 - 151				

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1703181
Project: 1st Quarter Chloroform 2017

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: 1703216-011AMS Date Analyzed: 03/14/2017 1438h													
Test Code: 8260-W-DEN100													
Surr: 4-Bromofluorobenzene	499	µg/L	SW8260C			500.0		99.7	80 - 152				
Surr: Dibromofluoromethane	509	µg/L	SW8260C			500.0		102	70 - 130				
Surr: Toluene-d8	490	µg/L	SW8260C			500.0		98.0	60 - 115				
Lab Sample ID: 1703405-002AMS Date Analyzed: 03/21/2017 1543h													
Test Code: 8260-W-DEN100													
Chloroform	19.3	µg/L	SW8260C	0.320	1.00	20.00	0	96.4	50 - 146				
Surr: 1,2-Dichloroethane-d4	53.6	µg/L	SW8260C			50.00		107	72 - 151				
Surr: 4-Bromofluorobenzene	50.9	µg/L	SW8260C			50.00		102	80 - 152				
Surr: Dibromofluoromethane	49.6	µg/L	SW8260C			50.00		99.1	70 - 130				
Surr: Toluene-d8	48.9	µg/L	SW8260C			50.00		97.7	60 - 115				
Lab Sample ID: 1703380-001AMS Date Analyzed: 03/21/2017 1707h													
Test Code: 8260-W-DEN100													
Methylene chloride	22.7	µg/L	SW8260C	0.372	1.00	20.00	0	113	30 - 192				
Surr: 1,2-Dichloroethane-d4	59.9	µg/L	SW8260C			50.00		120	72 - 151				
Surr: 4-Bromofluorobenzene	49.5	µg/L	SW8260C			50.00		99.0	80 - 152				
Surr: Dibromofluoromethane	52.6	µg/L	SW8260C			50.00		105	70 - 130				
Surr: Toluene-d8	48.7	µg/L	SW8260C			50.00		97.3	60 - 115				

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1703181
Project: 1st Quarter Chloroform 2017

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: 1703181-001CMSD Date Analyzed: 03/10/2017 1521h													
Test Code: 8260-W-DEN100													
Chloroform	23.5	µg/L	SW8260C	0.320	1.00	20.00	1.15	112	50 - 146	20.9	11.5	25	
Methylene chloride	23.4	µg/L	SW8260C	0.372	1.00	20.00	0	117	30 - 192	18.4	23.9	25	
Surr: 1,2-Dichloroethane-d4	53.2	µg/L	SW8260C			50.00		106	72 - 151				
Surr: 4-Bromofluorobenzene	50.2	µg/L	SW8260C			50.00		100	80 - 152				
Surr: Dibromofluoromethane	51.3	µg/L	SW8260C			50.00		103	70 - 130				
Surr: Toluene-d8	49.7	µg/L	SW8260C			50.00		99.5	60 - 115				
Lab Sample ID: 1703180-003DMSD Date Analyzed: 03/13/2017 1634h													
Test Code: 8260-W-DEN100													
Chloroform	3,120	µg/L	SW8260C	16.0	50.0	1,000	2030	109	50 - 146	3170	1.53	25	
Methylene chloride	926	µg/L	SW8260C	18.6	50.0	1,000	0	92.6	30 - 192	950	2.51	25	
Surr: 1,2-Dichloroethane-d4	2,850	µg/L	SW8260C			2,500		114	72 - 151				
Surr: 4-Bromofluorobenzene	2,480	µg/L	SW8260C			2,500		99.2	80 - 152				
Surr: Dibromofluoromethane	2,600	µg/L	SW8260C			2,500		104	70 - 130				
Surr: Toluene-d8	2,410	µg/L	SW8260C			2,500		96.5	60 - 115				
Lab Sample ID: 1703182-002EMSD Date Analyzed: 03/13/2017 1714h													
Test Code: 8260-W-DEN100													
Chloroform	21.2	µg/L	SW8260C	0.320	1.00	20.00	0	106	50 - 146	20.3	4.34	25	
Methylene chloride	18.0	µg/L	SW8260C	0.372	1.00	20.00	0	90.3	30 - 192	20.4	12.1	25	
Surr: 1,2-Dichloroethane-d4	56.5	µg/L	SW8260C			50.00		113	72 - 151				
Surr: 4-Bromofluorobenzene	51.2	µg/L	SW8260C			50.00		102	80 - 152				
Surr: Dibromofluoromethane	51.3	µg/L	SW8260C			50.00		103	70 - 130				
Surr: Toluene-d8	49.6	µg/L	SW8260C			50.00		99.3	60 - 115				
Lab Sample ID: 1703216-011AMSD Date Analyzed: 03/14/2017 1458h													
Test Code: 8260-W-DEN100													
Chloroform	203	µg/L	SW8260C	3.20	10.0	200.0	0	101	50 - 146	215	5.74	25	
Surr: 1,2-Dichloroethane-d4	543	µg/L	SW8260C			500.0		109	72 - 151				

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1703181
Project: 1st Quarter Chloroform 2017

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: 1703216-011AMSD Date Analyzed: 03/14/2017 1458h													
Test Code: 8260-W-DEN100													
Surr: 4-Bromofluorobenzene	487	µg/L	SW8260C			500.0		97.3	80 - 152				
Surr: Dibromofluoromethane	504	µg/L	SW8260C			500.0		101	70 - 130				
Surr: Toluene-d8	486	µg/L	SW8260C			500.0		97.1	60 - 115				
Lab Sample ID: 1703405-002AMSD Date Analyzed: 03/21/2017 1603h													
Test Code: 8260-W-DEN100													
Chloroform	18.3	µg/L	SW8260C	0.320	1.00	20.00	0	91.6	50 - 146	19.3	5.11	25	
Surr: 1,2-Dichloroethane-d4	52.0	µg/L	SW8260C			50.00		104	72 - 151				
Surr: 4-Bromofluorobenzene	48.2	µg/L	SW8260C			50.00		96.3	80 - 152				
Surr: Dibromofluoromethane	47.8	µg/L	SW8260C			50.00		95.5	70 - 130				
Surr: Toluene-d8	46.8	µg/L	SW8260C			50.00		93.7	60 - 115				
Lab Sample ID: 1703380-001AMSD Date Analyzed: 03/21/2017 1727h													
Test Code: 8260-W-DEN100													
Methylene chloride	22.9	µg/L	SW8260C	0.372	1.00	20.00	0	114	30 - 192	22.7	0.966	25	
Surr: 1,2-Dichloroethane-d4	59.5	µg/L	SW8260C			50.00		119	72 - 151				
Surr: 4-Bromofluorobenzene	50.0	µg/L	SW8260C			50.00		100	80 - 152				
Surr: Dibromofluoromethane	52.0	µg/L	SW8260C			50.00		104	70 - 130				
Surr: Toluene-d8	48.9	µg/L	SW8260C			50.00		97.7	60 - 115				

analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. Confidential Business Information: This report is provided for the exclusive use of the addressee. Privileges of subsequent use of th
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American West Analytical Laboratories

Rpt Emailed: UL Denison

WORK ORDER Summary

Work Order: **1703181**

Client: Energy Fuels Resources, Inc. Due Date: 3/21/2017

Client ID: DEN100 **Contact:** Garrin Palmer

Project: **1st Quarter Chloroform 2017** **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	
1703181-001A	**TW4-25_03082017**	3/8/2017 1202h	3/10/2017 0853h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1703181-001B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1703181-001C				**8260-W-DEN100**			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1703181-002A	**TW4-24_03082017**	3/8/2017 1212h	3/10/2017 0853h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1703181-002B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1703181-002C				**8260-W-DEN100**			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1703181-003A	**TW4-21_03082017**	3/8/2017 1152h	3/10/2017 0853h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1703181-003B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1703181-003C				**8260-W-DEN100**			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1703181-004A	**TW4-01_03082017**	3/8/2017 1328h	3/10/2017 0853h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1703181-004B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1703181-004C				**8260-W-DEN100**			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1703181-005A	**TW4-04_03082017**	3/8/2017 1338h	3/10/2017 0853h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1703181-005B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1703181-005C				**8260-W-DEN100**			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				

Printed: 3/10/2017 FOR LABORATORY USE ONLY [fill out on page 1]: %M ☐ RT ☐ CN ☐ TAT ☐ QC ☐ HOK_____ HOK_____ HOK_____ COC Emailed_____

WORK ORDER Summary

Work Order: **1703181**

Client: Energy Fuels Resources, Inc. Due Date: 3/21/2017

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1703181-006A	**TW4-02_03082017**	3/8/2017 1315h	3/10/2017 0853h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1703181-006B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1703181-006C				**8260-W-DEN100**			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1703181-007A	**MW-26_03082017**	3/8/2017 1257h	3/10/2017 0853h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1703181-007B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1703181-007C				**8260-W-DEN100**			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1703181-008A	**TW4-39_03082017**	3/8/2017 1249h	3/10/2017 0853h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1703181-008B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1703181-008C				**8260-W-DEN100**			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1703181-009A	**TW4-11_03082017**	3/8/2017 1305h	3/10/2017 0853h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1703181-009B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1703181-009C				**8260-W-DEN100**			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1703181-010A	**TW4-22_03082017**	3/8/2017 1222h	3/10/2017 0853h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1703181-010B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1703181-010C				**8260-W-DEN100**			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1703181-011A	**TW4-19_03082017**	3/8/2017 1410h	3/10/2017 0853h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1703181-011B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				

WORK ORDER Summary

Work Order: **1703181**

Client: Energy Fuels Resources, Inc. Due Date: 3/21/2017

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1703181-011C	**TW4-19_03082017**	3/8/2017 1410h	3/10/2017 0853h	**8260-W-DEN100**	Aqueous		VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1703181-012A	**TW4-37_03082017**	3/8/2017 1230h	3/10/2017 0853h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1703181-012B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1703181-012C				**8260-W-DEN100**			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1703181-013A	**TW4-20_03082017**	3/8/2017 1238h	3/10/2017 0853h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1703181-013B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1703181-013C				**8260-W-DEN100**			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1703181-014A	**MW-04_03082017**	3/8/2017 1321h	3/10/2017 0853h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1703181-014B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1703181-014C				**8260-W-DEN100**			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1703181-015A	**TW4-60_03082017**	3/8/2017 0930h	3/10/2017 0853h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1703181-015B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1703181-015C				**8260-W-DEN100**			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1703181-016A	**Trip Blank**	3/8/2017	3/10/2017 0853h	**8260-W-DEN100**	Aqueous		VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				

CHAIN OF CUSTODY

1703181
1703182

AWAL Lab Sample Set #

Page 1 of 1

American West Analytical Laboratories
463 W. 3600 S. Salt Lake City, UT 84115
Phone # (801) 263-8686 Toll Free # (888) 263-8686
Fax # (801) 263-8687 Email awal@awal-labs.com
www.awal-labs.com

All analysis will be conducted using NELAP accredited methods and all data will be reported using AWAL's standard analyte lists and reporting limits (PQL) unless specifically requested otherwise on this Chain of Custody and/or attached documentation.

QC Level:	Turn Around Time:	Unless other arrangements have been made, signed reports will be emailed by 5:00 pm on the day they are due.	Due Date:
3	Standard		

Client: **Energy Fuels Resources, Inc.**
Address: **6425 S. Hwy. 191**
Blanding, UT 84511
Contact: **Garrin Palmer**
Phone #: **(435) 678-2221** Cell #: 435-459-9463
Email: **gpalmer@energyfuels.com; KWeinel@energyfuels.com; dturk@energyfuels.com**
Project Name: **1st Quarter Chloroform 2017**
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)
1	TW4-25_03082017	3/8/2017	1202	5	W	X	X	X
2	TW4-24_03082017	3/8/2017	1212	5	W	X	X	X
3	TW4-21_03082017	3/8/2017	1152	5	W	X	X	X
4	TW4-01_03082017	3/8/2017	1328	5	W	X	X	X
5	TW4-04_03082017	3/8/2017	1338	5	W	X	X	X
6	TW4-02_03082017	3/8/2017	1315	5	W	X	X	X
7	MW-26_03082017	3/8/2017	1257	5	W	X	X	X
8	TW4-39_03082017	3/8/2017	1249	5	W	X	X	X
9	TW4-11_03082017	3/8/2017	1305	5	W	X	X	X
10	TW4-22_03082017	3/8/2017	1222	5	W	X	X	X
	TW4-19_03082017	3/8/2017	1410	5	W	X	X	X
11	TW4-37_03082017	3/8/2017	1230	5	W	X	X	X
12	TW4-20_03082017	3/8/2017	1238	5	W	X	X	X

Laboratory Use Only

Samples Were:
1 Shipped or hand delivered
2 Ambient or Chilled
3 Temperature 2.4 °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:	Time:	Received by: Signature	Date:	Time:
Print Name: Garrin Palmer	3/10/17	0853	Print Name: Elma Hafen	3/10/17	0853
Relinquished by: Signature	Date:	Time:	Received by: Signature	Date:	Time:
Print Name:			Print Name:		
Relinquished by: Signature	Date:	Time:	Received by: Signature	Date:	Time:
Print Name:			Print Name:		
Relinquished by: Signature	Date:	Time:	Received by: Signature	Date:	Time:
Print Name:			Print Name:		

Special Instructions:

See the Analytical Scope of Work for Reporting Limits and VOC analyte list.

1705181

CHAIN OF CUSTODY

AWAL Lab Sample Set # 1705181

Page 1 of 2

American West Analytical Laboratories
463 W. 3600 S. Salt Lake City, UT 84115
Phone # (801) 263-8686 Toll Free # (888) 263-8686
Fax # (801) 263-8687 Email awal@awal-labs.com
www.awal-labs.com

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QC Level:	Turn Around Time:	Unless other arrangements have been made, signed reports will be emailed by 5:00 pm on the day they are due.	Due Date:
3	Standard		

Client: **Energy Fuels Resources, Inc.**
Address: **6425 S. Hwy. 191**
Blanding, UT 84511
Contact: **Garrin Palmer**
Phone #: **(435) 678-2221** Cell #: 435-459-9463
Email: **gpalmer@energyfuels.com; KWeinel@energyfuels.com; dturk@energyfuels.com**
Project Name: **1st Quarter GW 2017**
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
2 Ambient or Chilled
3 Temperature 2.4 °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	MW-04_03082017	3/8/2017	1321	5	W	X	X	X	
2	TW4-60_03082017	3/8/2017	930	5	W	X	X	X	
3	Trip Blank	3/8/2017		3	W			X	
4	Temp Blank			1	W				
5									
6									
7									
8									
9									
10									
11									
12									

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	Garrin Palmer	Date: 3/10/17	Received by: Signature	Date: 3/10/17
Print Name:	Garrin Palmer	Time: 0853	Print Name: Emma Hayward	Time: 0853
Relinquished by: Signature		Date:	Received by: Signature	Date:
Print Name:		Time:	Print Name:	Time:
Relinquished by: Signature		Date:	Received by: Signature	Date:
Print Name:		Time:	Print Name:	Time:
Relinquished by: Signature		Date:	Received by: Signature	Date:
Print Name:		Time:	Print Name:	Time:

Special Instructions:

See the Analytical Scope of Work for Reporting Limits and VOC analyte list.

Lab Set ID: 1703181

pH Lot #: 5000

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			
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			
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: 1st Quarter Chloroform 2017

Dear Garrin Palmer: Lab Set ID: 1703339

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 3/17/2017 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: 2017.03.30 14:26:33 -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

Inorganic Case Narrative

Client:	Energy Fuels Resources, Inc.
Contact:	Garrin Palmer
Project:	1st Quarter Chloroform 2017
Lab Set ID:	1703339

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

Sample Receipt Information:

Date of Receipt:	3/23/2017
Dates of Collection:	3/13-3/16/2017
Sample Condition:	See C-O-C
C-O-C Discrepancies:	See C-O-C

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
1703339-018B	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

American West
ANALYTICAL LABORATORIES

3440 South 700 West
Salt Lake City, UT 84119

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e-mail: awal@awal-labs.com

web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Volatile Case Narrative

Client:	Energy Fuels Resources, Inc.
Contact:	Garrin Palmer
Project:	1st Quarter Chloroform 2017
Lab Set ID:	1703339

Sample Receipt Information:

Date of Receipt:	3/23/2017
Dates of Collection:	3/13-3/16/2017
Sample Condition:	See C-O-C
C-O-C Discrepancies:	See C-O-C
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

SAMPLE SUMMARY

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Set ID: 1703339
Date Received: 3/17/2017 1015h

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

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
1703339-001A	TW4-03R_03132017	3/13/2017 1128h	Aqueous	Anions, E300.0
1703339-001B	TW4-03R_03132017	3/13/2017 1128h	Aqueous	Nitrite/Nitrate (as N), E353.2
1703339-001C	TW4-03R_03132017	3/13/2017 1128h	Aqueous	VOA by GC/MS Method 8260C/5030C
1703339-002A	TW4-30R_03142017	3/14/2017 1335h	Aqueous	Anions, E300.0
1703339-002B	TW4-30R_03142017	3/14/2017 1335h	Aqueous	Nitrite/Nitrate (as N), E353.2
1703339-002C	TW4-30R_03142017	3/14/2017 1335h	Aqueous	VOA by GC/MS Method 8260C/5030C
1703339-003A	TW4-03_03142017	3/14/2017 730h	Aqueous	Anions, E300.0
1703339-003B	TW4-03_03142017	3/14/2017 730h	Aqueous	Nitrite/Nitrate (as N), E353.2
1703339-003C	TW4-03_03142017	3/14/2017 730h	Aqueous	VOA by GC/MS Method 8260C/5030C
1703339-004A	TW4-12_03142017	3/14/2017 738h	Aqueous	Anions, E300.0
1703339-004B	TW4-12_03142017	3/14/2017 738h	Aqueous	Nitrite/Nitrate (as N), E353.2
1703339-004C	TW4-12_03142017	3/14/2017 738h	Aqueous	VOA by GC/MS Method 8260C/5030C
1703339-005A	TW4-28_03142017	3/14/2017 743h	Aqueous	Anions, E300.0
1703339-005B	TW4-28_03142017	3/14/2017 743h	Aqueous	Nitrite/Nitrate (as N), E353.2
1703339-005C	TW4-28_03142017	3/14/2017 743h	Aqueous	VOA by GC/MS Method 8260C/5030C
1703339-006A	TW4-32_03142017	3/14/2017 751h	Aqueous	Anions, E300.0
1703339-006B	TW4-32_03142017	3/14/2017 751h	Aqueous	Nitrite/Nitrate (as N), E353.2
1703339-006C	TW4-32_03142017	3/14/2017 751h	Aqueous	VOA by GC/MS Method 8260C/5030C
1703339-007A	TW4-13_03152017	3/15/2017 805h	Aqueous	Anions, E300.0
1703339-007B	TW4-13_03152017	3/15/2017 805h	Aqueous	Nitrite/Nitrate (as N), E353.2
1703339-007C	TW4-13_03152017	3/15/2017 805h	Aqueous	VOA by GC/MS Method 8260C/5030C
1703339-008A	TW4-36_03152017	3/15/2017 811h	Aqueous	Anions, E300.0
1703339-008B	TW4-36_03152017	3/15/2017 811h	Aqueous	Nitrite/Nitrate (as N), E353.2
1703339-008C	TW4-36_03152017	3/15/2017 811h	Aqueous	VOA by GC/MS Method 8260C/5030C
1703339-009A	TW4-31_03152017	3/15/2017 817h	Aqueous	Anions, E300.0
1703339-009B	TW4-31_03152017	3/15/2017 817h	Aqueous	Nitrite/Nitrate (as N), E353.2
1703339-009C	TW4-31_03152017	3/15/2017 817h	Aqueous	VOA by GC/MS Method 8260C/5030C
1703339-010A	TW4-34_03152017	3/15/2017 823h	Aqueous	Anions, E300.0
1703339-010B	TW4-34_03152017	3/15/2017 823h	Aqueous	Nitrite/Nitrate (as N), E353.2

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Set ID: 1703339
Date Received: 3/17/2017 1015h

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
1703339-010C	TW4-34_03152017	3/15/2017 823h	Aqueous	VOA by GC/MS Method 8260C/5030C
1703339-011A	TW4-35_03152017	3/15/2017 840h	Aqueous	Anions, E300.0
1703339-011B	TW4-35_03152017	3/15/2017 840h	Aqueous	Nitrite/Nitrate (as N), E353.2
1703339-011C	TW4-35_03152017	3/15/2017 840h	Aqueous	VOA by GC/MS Method 8260C/5030C
1703339-012A	TW4-23_03152017	3/15/2017 846h	Aqueous	Anions, E300.0
1703339-012B	TW4-23_03152017	3/15/2017 846h	Aqueous	Nitrite/Nitrate (as N), E353.2
1703339-012C	TW4-23_03152017	3/15/2017 846h	Aqueous	VOA by GC/MS Method 8260C/5030C
1703339-013A	TW4-38_03152017	3/15/2017 855h	Aqueous	Anions, E300.0
1703339-013B	TW4-38_03152017	3/15/2017 855h	Aqueous	Nitrite/Nitrate (as N), E353.2
1703339-013C	TW4-38_03152017	3/15/2017 855h	Aqueous	VOA by GC/MS Method 8260C/5030C
1703339-014A	TW4-27_03152017	3/15/2017 903h	Aqueous	Anions, E300.0
1703339-014B	TW4-27_03152017	3/15/2017 903h	Aqueous	Nitrite/Nitrate (as N), E353.2
1703339-014C	TW4-27_03152017	3/15/2017 903h	Aqueous	VOA by GC/MS Method 8260C/5030C
1703339-015A	TW4-14_03152017	3/15/2017 908h	Aqueous	Anions, E300.0
1703339-015B	TW4-14_03152017	3/15/2017 908h	Aqueous	Nitrite/Nitrate (as N), E353.2
1703339-015C	TW4-14_03152017	3/15/2017 908h	Aqueous	VOA by GC/MS Method 8260C/5030C
1703339-016A	TW4-30_03152017	3/15/2017 915h	Aqueous	Anions, E300.0
1703339-016B	TW4-30_03152017	3/15/2017 915h	Aqueous	Nitrite/Nitrate (as N), E353.2
1703339-016C	TW4-30_03152017	3/15/2017 915h	Aqueous	VOA by GC/MS Method 8260C/5030C
1703339-017A	TW4-05_03152017	3/15/2017 923h	Aqueous	Anions, E300.0
1703339-017B	TW4-05_03152017	3/15/2017 923h	Aqueous	Nitrite/Nitrate (as N), E353.2
1703339-017C	TW4-05_03152017	3/15/2017 923h	Aqueous	VOA by GC/MS Method 8260C/5030C
1703339-018A	TW4-26_03162017	3/16/2017 745h	Aqueous	Anions, E300.0
1703339-018B	TW4-26_03162017	3/16/2017 745h	Aqueous	Nitrite/Nitrate (as N), E353.2
1703339-018C	TW4-26_03162017	3/16/2017 745h	Aqueous	VOA by GC/MS Method 8260C/5030C
1703339-019A	TW4-18_03162017	3/16/2017 757h	Aqueous	Anions, E300.0
1703339-019B	TW4-18_03162017	3/16/2017 757h	Aqueous	Nitrite/Nitrate (as N), E353.2
1703339-019C	TW4-18_03162017	3/16/2017 757h	Aqueous	VOA by GC/MS Method 8260C/5030C
1703339-020A	TW4-09_03162017	3/16/2017 808h	Aqueous	Anions, E300.0
1703339-020B	TW4-09_03162017	3/16/2017 808h	Aqueous	Nitrite/Nitrate (as N), E353.2

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Set ID: 1703339
Date Received: 3/17/2017 1015h

Lab Sample ID	Client Sample ID	Date Collected		Matrix	Analysis
1703339-020C	TW4-09_03162017	3/16/2017	808h	Aqueous	VOA by GC/MS Method 8260C/5030C
1703339-021A	TW4-16_03162017	3/16/2017	815h	Aqueous	Anions, E300.0
1703339-021B	TW4-16_03162017	3/16/2017	815h	Aqueous	Nitrite/Nitrate (as N), E353.2
1703339-021C	TW4-16_03162017	3/16/2017	815h	Aqueous	VOA by GC/MS Method 8260C/5030C
1703339-022A	TW4-33_03162017	3/16/2017	824h	Aqueous	Anions, E300.0
1703339-022B	TW4-33_03162017	3/16/2017	824h	Aqueous	Nitrite/Nitrate (as N), E353.2
1703339-022C	TW4-33_03162017	3/16/2017	824h	Aqueous	VOA by GC/MS Method 8260C/5030C
1703339-023A	TW4-06_03162017	3/16/2017	832h	Aqueous	Anions, E300.0
1703339-023B	TW4-06_03162017	3/16/2017	832h	Aqueous	Nitrite/Nitrate (as N), E353.2
1703339-023C	TW4-06_03162017	3/16/2017	832h	Aqueous	VOA by GC/MS Method 8260C/5030C
1703339-024A	TW4-29_03162017	3/16/2017	839h	Aqueous	Anions, E300.0
1703339-024B	TW4-29_03162017	3/16/2017	839h	Aqueous	Nitrite/Nitrate (as N), E353.2
1703339-024C	TW4-29_03162017	3/16/2017	839h	Aqueous	VOA by GC/MS Method 8260C/5030C
1703339-025A	TW4-65_03142017	3/14/2017	743h	Aqueous	Anions, E300.0
1703339-025B	TW4-65_03142017	3/14/2017	743h	Aqueous	Nitrite/Nitrate (as N), E353.2
1703339-025C	TW4-65_03142017	3/14/2017	743h	Aqueous	VOA by GC/MS Method 8260C/5030C
1703339-026A	TW4-70_03152017	3/15/2017	846h	Aqueous	Anions, E300.0
1703339-026B	TW4-70_03152017	3/15/2017	846h	Aqueous	Nitrite/Nitrate (as N), E353.2
1703339-026C	TW4-70_03152017	3/15/2017	846h	Aqueous	VOA by GC/MS Method 8260C/5030C
1703339-027A	TW4-75_03162017	3/16/2017	757h	Aqueous	Anions, E300.0
1703339-027B	TW4-75_03162017	3/16/2017	757h	Aqueous	Nitrite/Nitrate (as N), E353.2
1703339-027C	TW4-75_03162017	3/16/2017	757h	Aqueous	VOA by GC/MS Method 8260C/5030C
1703339-028A	Trip Blank	3/13/2017		Aqueous	VOA by GC/MS Method 8260C/5030C

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1703339
Project: 1st Quarter Chloroform 2017

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-R99586 Date Analyzed: 03/22/2017 959h Test Code: 300.0-W													
Chloride	4.91	mg/L	E300.0	0.0127	0.100	5.000	0	98.2	90 - 110				
Lab Sample ID: LCS-R99644 Date Analyzed: 03/22/2017 2348h Test Code: 300.0-W													
Chloride	5.01	mg/L	E300.0	0.0127	0.100	5.000	0	100	90 - 110				
Lab Sample ID: LCS-R99470 Date Analyzed: 03/17/2017 1727h Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.01	mg/L	E353.2	0.00833	0.0100	1.000	0	101	90 - 110				
Lab Sample ID: LCS-R99472 Date Analyzed: 03/17/2017 1802h Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.01	mg/L	E353.2	0.00833	0.0100	1.000	0	101	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: 1703339
Project: 1st Quarter Chloroform 2017

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-R99586 Date Analyzed: 03/22/2017 943h Test Code: 300.0-W													
Chloride	< 0.100	mg/L	E300.0	0.0127	0.100								
Lab Sample ID: MB-R99644 Date Analyzed: 03/22/2017 2331h Test Code: 300.0-W													
Chloride	< 0.100	mg/L	E300.0	0.0127	0.100								
Lab Sample ID: MB-R99470 Date Analyzed: 03/17/2017 1725h 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-R99472 Date Analyzed: 03/17/2017 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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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1703339
Project: 1st Quarter Chloroform 2017

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: 1703182-001BMS Date Analyzed: 03/22/2017 1033h													
Test Code: 300.0-W													
Chloride	9,580	mg/L	E300.0	25.4	200	10,000	44.9	95.3	90 - 110				
Lab Sample ID: 1703340-001CMS Date Analyzed: 03/22/2017 1811h													
Test Code: 300.0-W													
Chloride	1,100	mg/L	E300.0	2.54	20.0	1,000	136	96.6	90 - 110				
Lab Sample ID: 1703339-004AMS Date Analyzed: 03/22/2017 2043h													
Test Code: 300.0-W													
Chloride	159	mg/L	E300.0	0.254	2.00	100.0	62.6	96.8	90 - 110				
Lab Sample ID: 1703339-009AMS Date Analyzed: 03/23/2017 022h													
Test Code: 300.0-W													
Chloride	133	mg/L	E300.0	0.254	2.00	100.0	31.3	101	90 - 110				
Lab Sample ID: 1703339-022AMS Date Analyzed: 03/23/2017 436h													
Test Code: 300.0-W													
Chloride	149	mg/L	E300.0	0.254	2.00	100.0	49	99.8	90 - 110				
Lab Sample ID: 1703316-003AMS Date Analyzed: 03/17/2017 1747h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	16.1	mg/L	E353.2	0.0833	0.100	10.00	5.26	108	90 - 110				
Lab Sample ID: 1703339-008BMS Date Analyzed: 03/17/2017 1804h													
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				
Lab Sample ID: 1703339-018BMS Date Analyzed: 03/17/2017 1840h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	70.9	mg/L	E353.2	0.417	0.500	50.00	15.9	110	90 - 110				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: 1703339
Project: 1st Quarter Chloroform 2017

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: 1703182-001BMSD Date Analyzed: 03/22/2017 1050h													
Test Code: 300.0-W													
Chloride	9,650	mg/L	E300.0	25.4	200	10,000	44.9	96.0	90 - 110	9580	0.700	20	
Lab Sample ID: 1703340-001CMSD Date Analyzed: 03/22/2017 1828h													
Test Code: 300.0-W													
Chloride	1,110	mg/L	E300.0	2.54	20.0	1,000	136	97.3	90 - 110	1100	0.700	20	
Lab Sample ID: 1703339-004AMSD Date Analyzed: 03/22/2017 2059h													
Test Code: 300.0-W													
Chloride	164	mg/L	E300.0	0.254	2.00	100.0	62.6	102	90 - 110	159	2.99	20	
Lab Sample ID: 1703339-009AMSD Date Analyzed: 03/23/2017 038h													
Test Code: 300.0-W													
Chloride	128	mg/L	E300.0	0.254	2.00	100.0	31.3	96.3	90 - 110	133	3.88	20	
Lab Sample ID: 1703339-022AMSD Date Analyzed: 03/23/2017 453h													
Test Code: 300.0-W													
Chloride	149	mg/L	E300.0	0.254	2.00	100.0	49	99.7	90 - 110	149	0.0660	20	
Lab Sample ID: 1703316-003AMSD Date Analyzed: 03/17/2017 1748h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	15.7	mg/L	E353.2	0.0833	0.100	10.00	5.26	105	90 - 110	16.1	2.14	10	
Lab Sample ID: 1703339-008BMSD Date Analyzed: 03/17/2017 1805h													
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	10.4	1.15	10	
Lab Sample ID: 1703339-018BMSD Date Analyzed: 03/17/2017 1843h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	72.5	mg/L	E353.2	0.417	0.500	50.00	15.9	113	90 - 110	70.9	2.23	10	1

[1] - Matrix spike recovery indicates matrix interference. The method is in control as indicated by the LCS.

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Laboratory Director

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QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1703339
Project: 1st Quarter Chloroform 2017

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 031717A Date Analyzed: 03/17/2017 1058h													
Test Code: 8260-W-DEN100													
Chloroform	23.8	µg/L	SW8260C	0.320	1.00	20.00	0	119	85 - 124				
Methylene chloride	21.2	µg/L	SW8260C	0.372	1.00	20.00	0	106	71 - 135				
Surr: 1,2-Dichloroethane-d4	57.0	µg/L	SW8260C			50.00		114	80 - 125				
Surr: 4-Bromofluorobenzene	47.0	µg/L	SW8260C			50.00		93.9	85 - 121				
Surr: Dibromofluoromethane	51.6	µg/L	SW8260C			50.00		103	77 - 118				
Surr: Toluene-d8	48.0	µg/L	SW8260C			50.00		95.9	81 - 123				
Lab Sample ID: LCS VOC-031717A Date Analyzed: 03/17/2017 1228h													
Test Code: 8260-W-DEN100													
Chloroform	21.0	µg/L	SW8260C	0.320	1.00	20.00	0	105	85 - 124				
Methylene chloride	22.0	µg/L	SW8260C	0.372	1.00	20.00	0	110	71 - 135				
Surr: 1,2-Dichloroethane-d4	52.2	µg/L	SW8260C			50.00		104	80 - 125				
Surr: 4-Bromofluorobenzene	50.5	µg/L	SW8260C			50.00		101	85 - 121				
Surr: Dibromofluoromethane	50.4	µg/L	SW8260C			50.00		101	77 - 118				
Surr: Toluene-d8	50.6	µg/L	SW8260C			50.00		101	81 - 123				
Lab Sample ID: LCS VOC-1 032017A Date Analyzed: 03/20/2017 1101h													
Test Code: 8260-W-DEN100													
Chloroform	23.8	µg/L	SW8260C	0.320	1.00	20.00	0	119	85 - 124				
Surr: 1,2-Dichloroethane-d4	58.6	µg/L	SW8260C			50.00		117	80 - 125				
Surr: 4-Bromofluorobenzene	49.9	µg/L	SW8260C			50.00		99.8	85 - 121				
Surr: Dibromofluoromethane	53.4	µg/L	SW8260C			50.00		107	77 - 118				
Surr: Toluene-d8	49.9	µg/L	SW8260C			50.00		99.9	81 - 123				

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1703339
Project: 1st Quarter Chloroform 2017

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 031717A Date Analyzed: 03/17/2017 1137h													
Test Code: 8260-W-DEN100													
Carbon tetrachloride	< 1.00	µg/L	SW8260C	0.217	1.00								
Chloroform	< 1.00	µg/L	SW8260C	0.320	1.00								
Chloromethane	< 1.00	µg/L	SW8260C	0.681	1.00								
Methylene chloride	< 1.00	µg/L	SW8260C	0.372	1.00								
Surr: 1,2-Dichloroethane-d4	57.7	µg/L	SW8260C			50.00		115	80 - 125				
Surr: 4-Bromofluorobenzene	48.0	µg/L	SW8260C			50.00		96.0	85 - 121				
Surr: Dibromofluoromethane	51.7	µg/L	SW8260C			50.00		103	77 - 118				
Surr: Toluene-d8	48.9	µg/L	SW8260C			50.00		97.8	81 - 123				
Lab Sample ID: MB VOC-031717A Date Analyzed: 03/17/2017 1308h													
Test Code: 8260-W-DEN100													
Carbon tetrachloride	< 1.00	µg/L	SW8260C	0.217	1.00								
Chloroform	< 1.00	µg/L	SW8260C	0.320	1.00								
Chloromethane	< 1.00	µg/L	SW8260C	0.681	1.00								
Methylene chloride	< 1.00	µg/L	SW8260C	0.372	1.00								
Surr: 1,2-Dichloroethane-d4	53.6	µg/L	SW8260C			50.00		107	80 - 125				
Surr: 4-Bromofluorobenzene	54.4	µg/L	SW8260C			50.00		109	85 - 121				
Surr: Dibromofluoromethane	50.4	µg/L	SW8260C			50.00		101	77 - 118				
Surr: Toluene-d8	51.3	µg/L	SW8260C			50.00		103	81 - 123				
Lab Sample ID: MB VOC-1 032017A Date Analyzed: 03/20/2017 1141h													
Test Code: 8260-W-DEN100													
Chloroform	< 1.00	µg/L	SW8260C	0.320	1.00								
Surr: 1,2-Dichloroethane-d4	58.6	µg/L	SW8260C			50.00		117	80 - 125				
Surr: 4-Bromofluorobenzene	51.7	µg/L	SW8260C			50.00		103	85 - 121				
Surr: Dibromofluoromethane	51.9	µg/L	SW8260C			50.00		104	77 - 118				
Surr: Toluene-d8	48.9	µg/L	SW8260C			50.00		97.8	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: 1703339
Project: 1st Quarter Chloroform 2017

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: 1703339-002CMS Date Analyzed: 03/17/2017 1603h													
Test Code: 8260-W-DEN100													
Chloroform	23.5	µg/L	SW8260C	0.320	1.00	20.00	0	118	50 - 146				
Methylene chloride	20.0	µg/L	SW8260C	0.372	1.00	20.00	0	100	30 - 192				
Surr: 1,2-Dichloroethane-d4	57.4	µg/L	SW8260C			50.00		115	72 - 151				
Surr: 4-Bromofluorobenzene	49.7	µg/L	SW8260C			50.00		99.4	80 - 152				
Surr: Dibromofluoromethane	51.1	µg/L	SW8260C			50.00		102	70 - 130				
Surr: Toluene-d8	48.8	µg/L	SW8260C			50.00		97.7	60 - 115				
Lab Sample ID: 1703339-013CMS Date Analyzed: 03/17/2017 1554h													
Test Code: 8260-W-DEN100													
Chloroform	20.5	µg/L	SW8260C	0.320	1.00	20.00	0	103	50 - 146				
Methylene chloride	22.5	µg/L	SW8260C	0.372	1.00	20.00	0	113	30 - 192				
Surr: 1,2-Dichloroethane-d4	51.4	µg/L	SW8260C			50.00		103	72 - 151				
Surr: 4-Bromofluorobenzene	47.4	µg/L	SW8260C			50.00		94.9	80 - 152				
Surr: Dibromofluoromethane	48.2	µg/L	SW8260C			50.00		96.4	70 - 130				
Surr: Toluene-d8	46.6	µg/L	SW8260C			50.00		93.3	60 - 115				
Lab Sample ID: 1703351-008AMS Date Analyzed: 03/20/2017 1302h													
Test Code: 8260-W-DEN100													
Chloroform	23.1	µg/L	SW8260C	0.320	1.00	20.00	0	116	50 - 146				
Surr: 1,2-Dichloroethane-d4	59.0	µg/L	SW8260C			50.00		118	72 - 151				
Surr: 4-Bromofluorobenzene	49.4	µg/L	SW8260C			50.00		98.9	80 - 152				
Surr: Dibromofluoromethane	52.9	µg/L	SW8260C			50.00		106	70 - 130				
Surr: Toluene-d8	48.3	µg/L	SW8260C			50.00		96.6	60 - 115				

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1703339
Project: 1st Quarter Chloroform 2017

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: 1703339-002CMSD Date Analyzed: 03/17/2017 1623h													
Test Code: 8260-W-DEN100													
Chloroform	23.6	µg/L	SW8260C	0.320	1.00	20.00	0	118	50 - 146	23.5	0.255	25	
Methylene chloride	20.1	µg/L	SW8260C	0.372	1.00	20.00	0	101	30 - 192	20.1	0.249	25	
Surr: 1,2-Dichloroethane-d4	57.4	µg/L	SW8260C			50.00		115	72 - 151				
Surr: 4-Bromofluorobenzene	48.1	µg/L	SW8260C			50.00		96.2	80 - 152				
Surr: Dibromofluoromethane	51.7	µg/L	SW8260C			50.00		103	70 - 130				
Surr: Toluene-d8	48.2	µg/L	SW8260C			50.00		96.5	60 - 115				
Lab Sample ID: 1703339-013CMSD Date Analyzed: 03/17/2017 1613h													
Test Code: 8260-W-DEN100													
Chloroform	20.3	µg/L	SW8260C	0.320	1.00	20.00	0	101	50 - 146	20.5	1.23	25	
Methylene chloride	22.2	µg/L	SW8260C	0.372	1.00	20.00	0	111	30 - 192	22.5	1.21	25	
Surr: 1,2-Dichloroethane-d4	52.8	µg/L	SW8260C			50.00		106	72 - 151				
Surr: 4-Bromofluorobenzene	49.2	µg/L	SW8260C			50.00		98.3	80 - 152				
Surr: Dibromofluoromethane	49.8	µg/L	SW8260C			50.00		99.5	70 - 130				
Surr: Toluene-d8	48.7	µg/L	SW8260C			50.00		97.3	60 - 115				
Lab Sample ID: 1703351-008AMSD Date Analyzed: 03/20/2017 1322h													
Test Code: 8260-W-DEN100													
Chloroform	22.6	µg/L	SW8260C	0.320	1.00	20.00	0	113	50 - 146	23.1	2.45	25	
Surr: 1,2-Dichloroethane-d4	58.7	µg/L	SW8260C			50.00		117	72 - 151				
Surr: 4-Bromofluorobenzene	49.4	µg/L	SW8260C			50.00		98.8	80 - 152				
Surr: Dibromofluoromethane	51.9	µg/L	SW8260C			50.00		104	70 - 130				
Surr: Toluene-d8	48.2	µg/L	SW8260C			50.00		96.4	60 - 115				

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Rpt Emailed: UL Denison

WORK ORDER Summary

Work Order: **1703339**

Client: Energy Fuels Resources, Inc. Due Date: 3/28/2017

Client ID: DEN100 **Contact:** Garrin Palmer

Project: **1st Quarter Chloroform 2017** **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 #14 1 vial rec. broken);

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1703339-001A	**TW4-03R_03132017**	3/13/2017 1128h	3/17/2017 1015h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1703339-001B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1703339-001C				**8260-W-DEN100**			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1703339-002A	**TW4-30R_03142017**	3/14/2017 1335h	3/17/2017 1015h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1703339-002B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1703339-002C				**8260-W-DEN100**			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1703339-003A	**TW4-03_03142017**	3/14/2017 0730h	3/17/2017 1015h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1703339-003B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1703339-003C				**8260-W-DEN100**			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1703339-004A	**TW4-12_03142017**	3/14/2017 0738h	3/17/2017 1015h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1703339-004B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1703339-004C				**8260-W-DEN100**			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1703339-005A	**TW4-28_03142017**	3/14/2017 0743h	3/17/2017 1015h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1703339-005B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1703339-005C				**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: **1703339**

Client: Energy Fuels Resources, Inc. Due Date: 3/28/2017

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1703339-006A	**TW4-32_03142017**	3/14/2017 0751h	3/17/2017 1015h	**300.0-W** *1 SEL Analytes: CL*	Aqueous		df - wc	1
1703339-006B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*			df - no2/no3	
1703339-006C				**8260-W-DEN100** *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4*			VOCFridge	3
1703339-007A	**TW4-13_03152017**	3/15/2017 0805h	3/17/2017 1015h	**300.0-W** *1 SEL Analytes: CL*	Aqueous		df - wc	1
1703339-007B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*			df - no2/no3	
1703339-007C				**8260-W-DEN100** *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4*			VOCFridge	3
1703339-008A	**TW4-36_03152017**	3/15/2017 0811h	3/17/2017 1015h	**300.0-W** *1 SEL Analytes: CL*	Aqueous		df - wc	1
1703339-008B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*			df - no2/no3	
1703339-008C				**8260-W-DEN100** *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4*			VOCFridge	3
1703339-009A	**TW4-31_03152017**	3/15/2017 0817h	3/17/2017 1015h	**300.0-W** *1 SEL Analytes: CL*	Aqueous		df - wc	1
1703339-009B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*			df - no2/no3	
1703339-009C				**8260-W-DEN100** *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4*			VOCFridge	3
1703339-010A	**TW4-34_03152017**	3/15/2017 0823h	3/17/2017 1015h	**300.0-W** *1 SEL Analytes: CL*	Aqueous		df - wc	1
1703339-010B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*			df - no2/no3	
1703339-010C				**8260-W-DEN100** *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4*			VOCFridge	3
1703339-011A	**TW4-35_03152017**	3/15/2017 0840h	3/17/2017 1015h	**300.0-W** *1 SEL Analytes: CL*	Aqueous		df - wc	1
1703339-011B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*			df - no2/no3	

WORK ORDER Summary

Work Order: **1703339**

Client: Energy Fuels Resources, Inc. Due Date: 3/28/2017

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1703339-011C	**TW4-35_03152017**	3/15/2017 0840h	3/17/2017 1015h	**8260-W-DEN100**	Aqueous		VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1703339-012A	**TW4-23_03152017**	3/15/2017 0846h	3/17/2017 1015h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1703339-012B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1703339-012C				**8260-W-DEN100**			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1703339-013A	**TW4-38_03152017**	3/15/2017 0855h	3/17/2017 1015h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1703339-013B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1703339-013C				**8260-W-DEN100**			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1703339-014A	**TW4-27_03152017**	3/15/2017 0903h	3/17/2017 1015h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1703339-014B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1703339-014C				**8260-W-DEN100**			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1703339-015A	**TW4-14_03152017**	3/15/2017 0908h	3/17/2017 1015h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1703339-015B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1703339-015C				**8260-W-DEN100**			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1703339-016A	**TW4-30_03152017**	3/15/2017 0915h	3/17/2017 1015h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1703339-016B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1703339-016C				**8260-W-DEN100**			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1703339-017A	**TW4-05_03152017**	3/15/2017 0923h	3/17/2017 1015h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				

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WORK ORDER Summary

Work Order: **1703339**

Client: Energy Fuels Resources, Inc. Due Date: 3/28/2017

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1703339-017B	**TW4-05_03152017**	3/15/2017 0923h	3/17/2017 1015h	**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*	Aqueous		df - no2/no3	1
1703339-017C				**8260-W-DEN100** *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4*			VOCFridge	3
1703339-018A	**TW4-26_03162017**	3/16/2017 0745h	3/17/2017 1015h	**300.0-W** *1 SEL Analytes: CL*	Aqueous		df - wc	1
1703339-018B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*			df - no2/no3	
1703339-018C				**8260-W-DEN100** *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4*			VOCFridge	3
1703339-019A	**TW4-18_03162017**	3/16/2017 0757h	3/17/2017 1015h	**300.0-W** *1 SEL Analytes: CL*	Aqueous		df - wc	1
1703339-019B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*			df - no2/no3	
1703339-019C				**8260-W-DEN100** *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4*			VOCFridge	3
1703339-020A	**TW4-09_03162017**	3/16/2017 0808h	3/17/2017 1015h	**300.0-W** *1 SEL Analytes: CL*	Aqueous		df - wc	1
1703339-020B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*			df - no2/no3	
1703339-020C				**8260-W-DEN100** *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4*			VOCFridge	3
1703339-021A	**TW4-16_03162017**	3/16/2017 0815h	3/17/2017 1015h	**300.0-W** *1 SEL Analytes: CL*	Aqueous		df - wc	1
1703339-021B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*			df - no2/no3	
1703339-021C				**8260-W-DEN100** *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4*			VOCFridge	3
1703339-022A	**TW4-33_03162017**	3/16/2017 0824h	3/17/2017 1015h	**300.0-W** *1 SEL Analytes: CL*	Aqueous		df - wc	1
1703339-022B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*			df - no2/no3	
1703339-022C				**8260-W-DEN100** *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4*			VOCFridge	3

Printed: 3/17/2017 FOR LABORATORY USE ONLY [fill out on page 1]: %M ☐ RT ☐ CN ☐ TAT ☐ QC ☐ HOK_____ HOK_____ HOK_____ COC Emailed_____

WORK ORDER Summary

Work Order: **1703339**

Client: Energy Fuels Resources, Inc. Due Date: 3/28/2017

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1703339-023A	**TW4-06_03162017**	3/16/2017 0832h	3/17/2017 1015h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1703339-023B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1703339-023C				**8260-W-DEN100**			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1703339-024A	**TW4-29_03162017**	3/16/2017 0839h	3/17/2017 1015h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1703339-024B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1703339-024C				**8260-W-DEN100**			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1703339-025A	**TW4-65_03142017**	3/14/2017 0743h	3/17/2017 1015h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1703339-025B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1703339-025C				**8260-W-DEN100**			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1703339-026A	**TW4-70_03152017**	3/15/2017 0846h	3/17/2017 1015h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1703339-026B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1703339-026C				**8260-W-DEN100**			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1703339-027A	**TW4-75_03162017**	3/16/2017 0757h	3/17/2017 1015h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1703339-027B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1703339-027C				**8260-W-DEN100**			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1703339-028A	**Trip Blank**	3/13/2017	3/17/2017 1015h	**8260-W-DEN100**	Aqueous		VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				

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CHAIN OF CUSTODY

1703339
AWAL Lab Sample Set #

Page 1 of 3

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: **1ST Quarter Chloroform 2017**
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	TW4-03R_03132017	3/13/2017	1128	5	w	x	x	x	
2	TW4-30R_03142017	3/14/2017	1335	5	w	x	x	x	
3	TW4-03_03142017	3/14/2017	730	5	w	x	x	x	
4	TW4-12_03142017	3/14/2017	738	5	w	x	x	x	
5	TW4-28_03142017	3/14/2017	743	5	w	x	x	x	
6	TW4-32_03142017	3/14/2017	751	5	w	x	x	x	
7	TW4-13_03152017	3/15/2017	805	5	w	x	x	x	
8	TW4-36_03152017	3/15/2017	811	5	w	x	x	x	
9	TW4-31_03152017	3/15/2017	817	5	w	x	x	x	
10	TW4-34_03152017	3/15/2017	823	5	w	x	x	x	
11	TW4-35_03152017	3/15/2017	840	5	w	x	x	x	
12	TW4-23_03152017	3/15/2017	846	5	w	x	x	x	
13	TW4-38_03152017	3/15/2017	855	5	w	x	x	x	

Laboratory Use Only

Samples Were: UPS
1 Shipped or hand delivered
2 Ambient or Chilled
3 Temperature 1.8 10.5 °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	Date:	Received by: Signature	Date:
Print Name: TANNER HOLLIDAY	Time: 1230	Print Name:	Time:
Relinquished by: Signature	Date:	Received by: Signature Elena Hay	Date: 3-17-17
Print Name:	Time:	Print Name: Elena Hayward	Time: 1015
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.

* 1 vial received broken for #14

American West Analytical Laboratories

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CHAIN OF CUSTODY

1703339
AWAL Lab Sample Set #
Page 2 of 3

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: **1ST Quarter Chloroform 2017**
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
14	TW4-27_03152017	3/15/2017	903	5	w	x	x	x	
15	TW4-14_03152017	3/15/2017	908	5	w	x	x	x	
16	TW4-30_03152017	3/15/2017	915	5	w	x	x	x	
17	TW4-05_03152017	3/15/2017	923	5	w	x	x	x	
18	TW4-26_03162017	3/16/2017	745	5	w	x	x	x	
19	TW4-18_03162017	3/16/2017	757	5	w	x	x	x	
20	TW4-09_03162017	3/16/2017	808	5	w	x	x	x	
21	TW4-16_03162017	3/16/2017	815	5	w	x	x	x	
22	TW4-33_03162017	3/16/2017	824	5	w	x	x	x	
23	TW4-06_03162017	3/16/2017	832	5	w	x	x	x	
24	TW4-29_03162017	3/16/2017	839	5	w	x	x	x	
25	TW4-65_03142017	3/14/2017	743	5	w	x	x	x	
26	TW4-70_03152017	3/15/2017	846	5	w	x	x	x	

Laboratory Use Only

Samples Were: UPS
1 Shipped or hand delivered
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

Relinquished by: Signature	Date:	Received by: Signature	Date:
Print Name: TANNER HOLLIDAY	Time: 1230	Print Name:	Time:
Relinquished by: Signature	Date:	Received by: Signature Elma Hayes	Date: 3/17/17
Print Name:	Time:	Print Name:	Time: 1015
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.

* 1 vial rec. broken for #14

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CHAIN OF CUSTODY

1703339
AWAL Lab Sample Set #
Page 3 of 3

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: **1ST Quarter Chloroform 2017**
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
17	TW4-75_03162017	3/16/2017	757	5	w	x	x	x	
18	TRIP BLANK	3/13/2017		3	w			x	
3	TEMP BLANK	3/16/2017		1	w				
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									

Laboratory Use Only

Samples Were: UPS
1 Shipped or hand delivered
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

Relinquished by: Signature	Date:	Time:	Received by: Signature	Date:	Time:
Tanner Holliday	3/16/2017	1230			
Print Name: TANNER HOLLIDAY			Print Name:		
Relinquished by: Signature	Date:	Time:	Received by: Signature	Date: 3-17-17	Time: 1015
Print Name:			Print Name: Elma Hayward		
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.

* 1 vial rec. broken for #14

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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: 1st Quarter Chloroform 2017

Dear Garrin Palmer: Lab Set ID: 1703458

American West Analytical Laboratories received sample(s) on 3/23/2017 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: 2017.03.30 14:30:52 -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

Inorganic Case Narrative

Client:	Energy Fuels Resources, Inc.
Contact:	Garrin Palmer
Project:	1st Quarter Chloroform 2017
Lab Set ID:	1703458

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Salt Lake City, UT 84119

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web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Sample Receipt Information:

Date of Receipt:	3/23/2017
Dates of Collection:	3/20-3/21/2017
Sample Condition:	See C-O-C
C-O-C Discrepancies:	See C-O-C

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:	1st Quarter Chloroform 2017
Lab Set ID:	1703458

3440 South 700 West
Salt Lake City, UT 84119

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e-mail: awal@awal-labs.com

web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Sample Receipt Information:

Date of Receipt:	3/23/2017
Dates of Collection:	3/20-3/21/2017
Sample Condition:	See C-O-C
C-O-C Discrepancies:	See C-O-C
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

SAMPLE SUMMARY

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 1st Quarter Chloroform 2017
Lab Set ID: 1703458
Date Received: 3/23/2017 1035h

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
1703458-001A	MW-32_03212017	3/21/2017 1300h	Aqueous	Anions, E300.0
1703458-001B	MW-32_03212017	3/21/2017 1300h	Aqueous	Nitrite/Nitrate (as N), E353.2
1703458-001C	MW-32_03212017	3/21/2017 1300h	Aqueous	VOA by GC/MS Method 8260C/5030C
1703458-002A	TW4-08_03212017	3/21/2017 943h	Aqueous	Anions, E300.0
1703458-002B	TW4-08_03212017	3/21/2017 943h	Aqueous	Nitrite/Nitrate (as N), E353.2
1703458-002C	TW4-08_03212017	3/21/2017 943h	Aqueous	VOA by GC/MS Method 8260C/5030C
1703458-003A	TW4-07_03212017	3/21/2017 950h	Aqueous	Anions, E300.0
1703458-003B	TW4-07_03212017	3/21/2017 950h	Aqueous	Nitrite/Nitrate (as N), E353.2
1703458-003C	TW4-07_03212017	3/21/2017 950h	Aqueous	VOA by GC/MS Method 8260C/5030C
1703458-004A	TW4-10_03212017	3/21/2017 955h	Aqueous	Anions, E300.0
1703458-004B	TW4-10_03212017	3/21/2017 955h	Aqueous	Nitrite/Nitrate (as N), E353.2
1703458-004C	TW4-10_03212017	3/21/2017 955h	Aqueous	VOA by GC/MS Method 8260C/5030C
1703458-005A	TW4-08R_03202017	3/20/2017 1013h	Aqueous	Anions, E300.0
1703458-005B	TW4-08R_03202017	3/20/2017 1013h	Aqueous	Nitrite/Nitrate (as N), E353.2
1703458-005C	TW4-08R_03202017	3/20/2017 1013h	Aqueous	VOA by GC/MS Method 8260C/5030C
1703458-006A	Trip Blank	3/20/2017	Aqueous	VOA by GC/MS Method 8260C/5030C

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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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: 1703458
Project: 1st Quarter Chloroform 2017

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-R99696 Date Analyzed: 03/24/2017 1725h Test Code: 300.0-W													
Chloride	5.02	mg/L	E300.0	0.0127	0.100	5.000	0	100	90 - 110				
Lab Sample ID: LCS-R99622 Date Analyzed: 03/23/2017 1536h Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	0.982	mg/L	E353.2	0.00833	0.0100	1.000	0	98.2	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: 1703458
Project: 1st Quarter Chloroform 2017

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-R99696 Date Analyzed: 03/24/2017 1708h													
Test Code: 300.0-W													
Chloride	< 0.100	mg/L	E300.0	0.0127	0.100								
Lab Sample ID: MB-R99622 Date Analyzed: 03/23/2017 1534h													
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: 1703458
Project: 1st Quarter Chloroform 2017

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:	**1703458-001AMS**	Date Analyzed:	03/24/2017 2047h											
Test Code:	300.0-W													
Chloride		133	mg/L	E300.0	0.254	2.00	100.0	33.7	99.0	90 - 110				
Lab Sample ID:	**1703458-001BMS**	Date Analyzed:	03/23/2017 1539h											
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				

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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1703458
Project: 1st Quarter Chloroform 2017

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: 1703458-001AMSD Date Analyzed: 03/24/2017 2104h Test Code: 300.0-W													
Chloride	134	mg/L	E300.0	0.254	2.00	100.0	33.7	100	90 - 110	133	0.825	20	
Lab Sample ID: 1703458-001BMSD Date Analyzed: 03/23/2017 1540h Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	9.83	mg/L	E353.2	0.0833	0.100	10.00	0	98.3	90 - 110	10.4	5.94	10	

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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1703458
Project: 1st Quarter Chloroform 2017

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-032317A Date Analyzed: 03/23/2017 1122h													
Test Code: 8260-W-DEN100													
Chloroform	19.9	µg/L	SW8260C	0.320	1.00	20.00	0	99.5	85 - 124				
Methylene chloride	20.4	µg/L	SW8260C	0.372	1.00	20.00	0	102	71 - 135				
Surr: 1,2-Dichloroethane-d4	51.3	µg/L	SW8260C			50.00		103	80 - 125				
Surr: 4-Bromofluorobenzene	48.9	µg/L	SW8260C			50.00		97.8	85 - 121				
Surr: Dibromofluoromethane	49.0	µg/L	SW8260C			50.00		98.0	77 - 118				
Surr: Toluene-d8	48.7	µg/L	SW8260C			50.00		97.3	81 - 123				

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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1703458
Project: 1st Quarter Chloroform 2017

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-032317A	Date Analyzed:	03/23/2017 1201h											
Test Code: 8260-W-DEN100													
Carbon tetrachloride	< 1.00	µg/L	SW8260C	0.217	1.00								
Chloroform	< 1.00	µg/L	SW8260C	0.320	1.00								
Chloromethane	< 1.00	µg/L	SW8260C	0.681	1.00								
Methylene chloride	< 1.00	µg/L	SW8260C	0.372	1.00								
Surr: 1,2-Dichloroethane-d4	52.6	µg/L	SW8260C			50.00		105	80 - 125				
Surr: 4-Bromofluorobenzene	52.6	µg/L	SW8260C			50.00		105	85 - 121				
Surr: Dibromofluoromethane	48.2	µg/L	SW8260C			50.00		96.5	77 - 118				
Surr: Toluene-d8	50.1	µg/L	SW8260C			50.00		100	81 - 123				

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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1703458
Project: 1st Quarter Chloroform 2017

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: 1703458-001CMS Date Analyzed: 03/23/2017 1620h													
Test Code: 8260-W-DEN100													
Chloroform	20.1	µg/L	SW8260C	0.320	1.00	20.00	0	101	50 - 146				
Methylene chloride	20.9	µg/L	SW8260C	0.372	1.00	20.00	0	105	30 - 192				
Surr: 1,2-Dichloroethane-d4	51.7	µg/L	SW8260C			50.00		103	72 - 151				
Surr: 4-Bromofluorobenzene	50.6	µg/L	SW8260C			50.00		101	80 - 152				
Surr: Dibromofluoromethane	48.8	µg/L	SW8260C			50.00		97.7	70 - 130				
Surr: Toluene-d8	48.7	µg/L	SW8260C			50.00		97.5	60 - 115				

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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1703458
Project: 1st Quarter Chloroform 2017

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: 1703458-001CMSD Date Analyzed: 03/23/2017 1639h													
Test Code: 8260-W-DEN100													
Chloroform	20.3	µg/L	SW8260C	0.320	1.00	20.00	0	101	50 - 146	20.1	0.594	25	
Methylene chloride	21.0	µg/L	SW8260C	0.372	1.00	20.00	0	105	30 - 192	20.9	0.382	25	
Surr: 1,2-Dichloroethane-d4	52.0	µg/L	SW8260C			50.00		104	72 - 151				
Surr: 4-Bromofluorobenzene	49.8	µg/L	SW8260C			50.00		99.5	80 - 152				
Surr: Dibromofluoromethane	49.2	µg/L	SW8260C			50.00		98.5	70 - 130				
Surr: Toluene-d8	48.7	µg/L	SW8260C			50.00		97.3	60 - 115				

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Rpt Emailed: UL Denison

WORK ORDER Summary

Work Order: **1703458**

Client: Energy Fuels Resources, Inc. Due Date: 4/3/2017

Client ID: DEN100 **Contact:** Garrin Palmer

Project: **1st Quarter Chloroform 2017** **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	
1703458-001A	**MW-32_03212017**	3/21/2017 1300h	3/23/2017 1035h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1703458-001B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1703458-001C				**8260-W-DEN100**			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1703458-002A	**TW4-08_03212017**	3/21/2017 0943h	3/23/2017 1035h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1703458-002B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1703458-002C				**8260-W-DEN100**			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1703458-003A	**TW4-07_03212017**	3/21/2017 0950h	3/23/2017 1035h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1703458-003B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1703458-003C				**8260-W-DEN100**			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1703458-004A	**TW4-10_03212017**	3/21/2017 0955h	3/23/2017 1035h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1703458-004B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1703458-004C				**8260-W-DEN100**			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1703458-005A	**TW4-08R_03202017**	3/20/2017 1013h	3/23/2017 1035h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1703458-005B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1703458-005C				**8260-W-DEN100**			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				

Printed: 3/23/2017 FOR LABORATORY USE ONLY [fill out on page 1]: %M ☐ RT ☐ CN ☐ TAT ☐ QC ☐ HOK_____ HOK_____ HOK_____ COC Emailed 3/23/17

WORK ORDER Summary

Work Order: **1703458**

Client: Energy Fuels Resources, Inc. Due Date: 4/3/2017

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1703458-006A	**Trip Blank**	3/20/2017	3/23/2017 1035h	**8260-W-DEN100**	Aqueous		VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				

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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.

1703458
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 #: 435 459 9463
Email: **gpalmer@energyfuels.com; KWeinel@energyfuels.com; dturk@energyfuels.com**
Project Name: **1st Quarter Chloroform 2017**
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 3-6 °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
1	MW-32_03212017	3/21/2017	1300	5	W	X	X	/	
2	TW4-08_03212017	3/21/2017	943	5	W	X	X	/	
3	TW4-07_03212017	3/21/2017	950	5	W	X	X	/	
4	TW4-10_03212017	3/21/2017	955	5	W	X	X	/	
5	TW4-08R_03202017	3/20/2017	1013	5	W	X	X	/	
6	Trip Blank	3/20/2017		3	W		~~X~~	/	
7	Temp Blank			1	W				
8									
9									
10									
11									
12									

Relinquished by: Signature	Date:	Received by: Signature	Date:
Print Name: Garrin Palmer	Time: 1230	Print Name:	Time:
Relinquished by: Signature	Date:	Received by: Signature Elena Hayward	Date: 3/23/17
Print Name:	Time:	Print Name: Elena Hayward	Time: 10.35
Relinquished by: Signature	Date:	Received by: Signature	Date:
Print Name:	Time:	Print Name:	Time:
Relinquished by: Signature	Date:	Received by: Signature	Date:
Print Name:	Time:	Print Name:	Time:

Special Instructions:

See the Analytical Scope of Work for Reporting Limits and VOC analyte list.

Contaminant	Analytical Methods to be Used	Reporting Limit	Maximum Holding Times	Sample Preservation Requirements	Sample Temperature Requirements
General Inorganics					
Chloride	A4500-Cl B or A4500-Cl E or E300.0	1 mg/L	28 days	None	≤ 6°C
Sulfate	A4500-SO4 E or E300.0	1 mg/L	28 days	None	≤ 6°C
Carbonate as CO3	A2320 B	1 mg/L	14 days	None	≤ 6°C
Bicarbonate as HCO3	A2320 B	1 mg/L	14 days	None	
Volatile Organic Compounds –Chloroform Program					
Carbon Tetrachloride	SW8260B or SW8260C	1.0 µg/L	14 days	HCl to pH<2	≤ 6°C
Chloroform	SW8260B or SW8260C	1.0 µg/L	14 days	HCl to pH<2	≤ 6°C
Dichloromethane (Methylene Chloride)	SW8260B or SW8260C	1.0 µg/L	14 days	HCl to pH<2	≤ 6°C
Chloromethane	SW8260B or SW8260C	1.0 µg/L	14 days	HCl to pH<2	≤ 6°C
SVOCs – Tailings Impoundment Samples Only					
1,2,4-Trichlorobenzene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
1,2-Dichlorobenzene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
1,3-Dichlorobenzene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
1,4-Dichlorobenzene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
1-Methylnaphthalene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2,4,5-Trichlorophenol	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2,4,6-Trichlorophenol	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2,4-Dichlorophenol	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2,4-Dimethylphenol	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2,4-Dinitrophenol	SW8270D	<20 ug/L	7/40 days	None	≤ 6°C
2,4-Dinitrotoluene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2,6-Dinitrotoluene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2-Chloronaphthalene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2-Chlorophenol	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2-Methylnaphthalene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2-Methylphenol	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2-Nitrophenol	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
3&4-Methylphenol	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
3,3´-Dichlorobenzidine	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
4,6-Dinitro-2-methylphenol	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C

Lab Set ID: 1703 458

pH Lot #: 5000

Preservation Check Sheet

Sample Set Extension and pH

Analysis	Preservative	1	2	3	4	5													
Ammonia	pH <2 H_2SO_4																		
COD	pH <2 H_2SO_4																		
Cyanide	pH >12 NaOH																		
Metals	pH <2 HNO_3																		
NO_2 & NO_3	pH <2 H_2SO_4	Yes	Yes	Yes	Yes	Yes													
O & G	pH <2 HCL																		
Phenols	pH <2 H_2SO_4																		
Sulfide	pH >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	--		1829		N/A	6.57		N/A	14.96		N/A	308		N/A	0.0		N/A
TW4-01	NA	Continuously pumped well	--		2862		N/A	6.64		N/A	14.75		N/A	304		N/A	0.0		N/A
TW4-02	NA	Continuously pumped well	--		3386		N/A	6.36		N/A	14.45		N/A	309		N/A	1.8		N/A
TW4-03	53.96	110.00	108	OK	1722	1721	0.06	6.42	6.44	0.31	14.75	14.76	0.07	460	459	0.22	0.0	0.0	N/A
TW4-04	NA	Continuously pumped well	--		2284		N/A	6.52		N/A	14.42		N/A	302		N/A	0.0		N/A
TW4-05	35.22	90.00	70	OK	1513	1508	0.33	6.22	6.25	0.48	15.46	15.45	0.06	432	432	0.00	1.0	1.0	0.00
TW4-06	15.60	30.00	31	Pumped Dry	3848	3851	0.08	6.12	6.12	0.00	13.84	13.81	0.22	NM		NC	NM		NC
TW4-07	29.21	60.00	58	OK	1587	1588	0.06	6.46	6.47	0.15	14.95	14.95	0.00	476	475	0.21	3.6	3.7	2.74
TW4-08	29.28	60.00	59	OK	5021	5023	0.04	6.17	6.18	0.16	15.01	15.01	0.00	538	537	0.19	0.0	0.0	0.00
TW4-09	36.55	90.00	73	OK	2492	2492	0.00	6.01	6.02	0.17	15.00	14.99	0.07	501	500	0.20	14	13	7.41
TW4-10	31.01	65.00	62	Pumped Dry	2943	2964	0.71	6.01	6.00	0.17	15.14	15.11	0.20	NM		NC	NM		NC
TW4-11	NA	Continuously pumped well	--		3684		N/A	6.40		N/A	14.04		N/A	295		N/A	0.5		N/A
TW4-12	35.44	80.00	71	OK	1432	1433	0.07	6.52	6.52	0.00	14.99	14.96	0.20	447	447	0.00	3.6	3.7	2.74
TW4-13	32.24	65.00	64	Pumped Dry	2090	2092	0.10	6.20	6.25	0.80	14.52	14.50	0.14	NM		NC	NM		NC
TW4-14	9.07	17.50	18	Pumped Dry	5302	5310	0.15	6.09	6.12	0.49	13.97	13.94	0.21	NM		NC	NM		NC
MW-26	NA	Continuously pumped well	--		3439		N/A	6.45		N/A	15.78		N/A	316		N/A	0.0		N/A
TW4-16	50.34	120.00	101	OK	3876	3872	0.10	5.96	5.97	0.17	14.94	14.95	0.07	490	486	0.82	58	57	1.74
MW-32	35.45	71.61	71	OK	3857	3822	0.91	6.05	6.04	0.17	15.30	15.25	0.33	477	476	0.21	18	18	0.00
TW4-18	46.00	110.00	92	OK	2007	1994	0.65	5.94	5.95	0.17	15.40	15.40	0.00	511	511	0.00	6.8	6.8	0.00
TW4-19	NA	Continuously pumped well	--		2871		N/A	6.22		N/A	16.49		N/A	353		N/A	0.0		N/A
TW4-20	NA	Continuously pumped well	--		4408		N/A	6.26		N/A	16.80		N/A	359		N/A	0.0		N/A
TW4-21	NA	Continuously pumped well	--		4602		N/A	5.95		N/A	16.75		N/A	481		N/A	0.0		N/A
TW4-22	NA	Continuously pumped well	--		5416		N/A	6.44		N/A	15.81		N/A	406		N/A	0.0		N/A
TW4-23	28.20	80.00	56	OK	3663	3665	0.05	6.12	6.11	0.16	14.44	14.43	0.07	446	444	0.45	76	75	1.32
TW4-24	NA	Continuously pumped well	--		9695		N/A	6.16		N/A	15.38		N/A	429		N/A	0.0		N/A
TW4-25	NA	Continuously pumped well	--		2885		N/A	6.44		N/A	16.03		N/A	426		N/A	0.0		N/A
TW4-26	11.79	20.00	24	Pumped Dry	6193	6186	0.11	4.90	4.89	0.20	14.56	14.52	0.28	NM		NC	NM		NC
TW4-27	10.87	15.00	22	Pumped Dry	5178	5193	0.29	6.05	6.08	0.49	13.81	13.74	0.51	NM		NC	NM		NC
TW4-28	43.00	90.00	86	OK	1388	1389	0.07	6.63	6.65	0.30	15.00	14.99	0.07	448	447	0.22	37	36	2.74
TW4-29	12.27	20.00	25	Pumped Dry	4220	4227	0.17	6.22	6.22	0.00	13.99	14.03	0.29	NM		NC	NM		NC
TW4-30	11.08	22.50	22	Pumped Dry	4411	4415	0.09	5.63	5.60	0.53	13.83	13.86	0.22	NM		NC	NM		NC
TW4-31	17.95	30.00	36	Pumped Dry	4710	4715	0.11	6.36	6.38	0.31	14.18	14.17	0.07	NM		NC	NM		NC
TW4-32	41.07	90.00	82	OK	7100	6987	1.60	3.60	3.63	0.83	14.94	14.93	0.07	570	569	0.18	15	14	6.90
TW4-33	9.33	10.00	19	Pumped Dry	4596	4595	0.02	5.50	5.52	0.36	13.41	13.44	0.22	NM		NC	NM		NC
TW4-34	15.93	33.33	32	Pumped Dry	3987	3990	0.08	6.46	6.46	0.00	13.79	13.76	0.22	NM		NC	NM		NC
TW4-35	8.63	13.33	17	Pumped Dry	4458	4468	0.22	6.37	6.36	0.16	13.83	13.72	0.80	NM		NC	NM		NC
TW4-36	27.74	50.00	55	Pumped Dry	2403	2428	1.03	6.46	6.46	0.00	14.16	14.14	0.14	NM		NC	NM		NC
TW4-37	NA	Continuously pumped well	--		4070		N/A	6.55		N/A	15.90		N/A	404		N/A	0.0		N/A
TW4-38	38.49	90.00	77	OK	1335	1344	0.67	6.33	6.33	0.00	14.70	14.71	0.07	415	415	0.00	30	30	0.00
TW4-39	NA	Continuously pumped well	--		2534		N/A	6.20		N/A	15.67		N/A	258		N/A	0.0		N/A

MW-4, TW4-01, TW4-02, TW4-4, TW4-11, MW-26, TW4-19, TW4-20, TW4-21, TW4-22, TW4-24, TW4-25, 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	3/8/2017	3/13/2017	5	14	OK
Trip Blank	Chloroform	3/8/2017	3/13/2017	5	14	OK
Trip Blank	Chloromethane	3/8/2017	3/13/2017	5	14	OK
Trip Blank	Methylene chloride	3/8/2017	3/13/2017	5	14	OK
Trip Blank	Carbon tetrachloride	3/13/2017	3/17/2017	4	14	OK
Trip Blank	Chloroform	3/13/2017	3/17/2017	4	14	OK
Trip Blank	Chloromethane	3/13/2017	3/17/2017	4	14	OK
Trip Blank	Methylene chloride	3/13/2017	3/17/2017	4	14	OK
Trip Blank	Carbon tetrachloride	3/20/2017	3/23/2017	3	14	OK
Trip Blank	Chloroform	3/20/2017	3/23/2017	3	14	OK
Trip Blank	Chloromethane	3/20/2017	3/23/2017	3	14	OK
Trip Blank	Methylene chloride	3/20/2017	3/23/2017	3	14	OK
MW-04	Chloride	3/8/2017	3/14/2017	6	28	OK
MW-04	Carbon tetrachloride	3/8/2017	3/10/2017	2	14	OK
MW-04	Chloroform	3/8/2017	3/14/2017	6	14	OK
MW-04	Chloromethane	3/8/2017	3/10/2017	2	14	OK
MW-04	Methylene chloride	3/8/2017	3/10/2017	2	14	OK
MW-04	Nitrate/Nitrite (as N)	3/8/2017	3/10/2017	2	28	OK
MW-26	Chloride	3/8/2017	3/14/2017	6	28	OK
MW-26	Carbon tetrachloride	3/8/2017	3/10/2017	2	14	OK
MW-26	Chloroform	3/8/2017	3/13/2017	5	14	OK
MW-26	Chloromethane	3/8/2017	3/10/2017	2	14	OK
MW-26	Methylene chloride	3/8/2017	3/10/2017	2	14	OK
MW-26	Nitrate/Nitrite (as N)	3/8/2017	3/10/2017	2	28	OK
MW-32	Chloride	3/21/2017	3/24/2017	3	28	OK
MW-32	Carbon tetrachloride	3/21/2017	3/23/2017	2	14	OK
MW-32	Chloroform	3/21/2017	3/23/2017	2	14	OK
MW-32	Chloromethane	3/21/2017	3/23/2017	2	14	OK
MW-32	Methylene chloride	3/21/2017	3/23/2017	2	14	OK
MW-32	Nitrate/Nitrite (as N)	3/21/2017	3/23/2017	2	28	OK
TW4-01	Chloride	3/8/2017	3/14/2017	6	28	OK
TW4-01	Carbon tetrachloride	3/8/2017	3/21/2017	13	14	OK
TW4-01	Chloroform	3/8/2017	3/21/2017	13	14	OK
TW4-01	Chloromethane	3/8/2017	3/21/2017	13	14	OK
TW4-01	Methylene chloride	3/8/2017	3/21/2017	13	14	OK
TW4-01	Nitrate/Nitrite (as N)	3/8/2017	3/10/2017	2	28	OK
TW4-02	Chloride	3/8/2017	3/14/2017	6	28	OK
TW4-02	Carbon tetrachloride	3/8/2017	3/10/2017	2	14	OK
TW4-02	Chloroform	3/8/2017	3/13/2017	5	14	OK
TW4-02	Chloromethane	3/8/2017	3/10/2017	2	14	OK
TW4-02	Methylene chloride	3/8/2017	3/10/2017	2	14	OK
TW4-02	Nitrate/Nitrite (as N)	3/8/2017	3/10/2017	2	28	OK
TW4-03	Chloride	3/14/2017	3/22/2017	8	28	OK
TW4-03	Carbon tetrachloride	3/14/2017	3/17/2017	3	14	OK
TW4-03	Chloroform	3/14/2017	3/17/2017	3	14	OK
TW4-03	Chloromethane	3/14/2017	3/17/2017	3	14	OK
TW4-03	Methylene chloride	3/14/2017	3/17/2017	3	14	OK
TW4-03	Nitrate/Nitrite (as N)	3/14/2017	3/17/2017	3	28	OK
TW4-03R	Chloride	3/13/2017	3/22/2017	9	28	OK
TW4-03R	Carbon tetrachloride	3/13/2017	3/17/2017	4	14	OK
TW4-03R	Chloroform	3/13/2017	3/17/2017	4	14	OK
TW4-03R	Chloromethane	3/13/2017	3/17/2017	4	14	OK
TW4-03R	Methylene chloride	3/13/2017	3/17/2017	4	14	OK

I-2: Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
TW4-03R	Nitrate/Nitrite (as N)	3/13/2017	3/17/2017	4	28	OK
TW4-04	Chloride	3/8/2017	3/14/2017	6	28	OK
TW4-04	Carbon tetrachloride	3/8/2017	3/10/2017	2	14	OK
TW4-04	Chloroform	3/8/2017	3/13/2017	5	14	OK
TW4-04	Chloromethane	3/8/2017	3/10/2017	2	14	OK
TW4-04	Methylene chloride	3/8/2017	3/10/2017	2	14	OK
TW4-04	Nitrate/Nitrite (as N)	3/8/2017	3/10/2017	2	28	OK
TW4-05	Chloride	3/15/2017	3/23/2017	8	28	OK
TW4-05	Carbon tetrachloride	3/15/2017	3/17/2017	2	14	OK
TW4-05	Chloroform	3/15/2017	3/17/2017	2	14	OK
TW4-05	Chloromethane	3/15/2017	3/17/2017	2	14	OK
TW4-05	Methylene chloride	3/15/2017	3/17/2017	2	14	OK
TW4-05	Nitrate/Nitrite (as N)	3/15/2017	3/17/2017	2	28	OK
TW4-06	Chloride	3/16/2017	3/23/2017	7	28	OK
TW4-06	Carbon tetrachloride	3/16/2017	3/17/2017	1	14	OK
TW4-06	Chloroform	3/16/2017	3/20/2017	4	14	OK
TW4-06	Chloromethane	3/16/2017	3/17/2017	1	14	OK
TW4-06	Methylene chloride	3/16/2017	3/17/2017	1	14	OK
TW4-06	Nitrate/Nitrite (as N)	3/16/2017	3/17/2017	1	28	OK
TW4-07	Chloride	3/21/2017	3/24/2017	3	28	OK
TW4-07	Carbon tetrachloride	3/21/2017	3/23/2017	2	14	OK
TW4-07	Chloroform	3/21/2017	3/23/2017	2	14	OK
TW4-07	Chloromethane	3/21/2017	3/23/2017	2	14	OK
TW4-07	Methylene chloride	3/21/2017	3/23/2017	2	14	OK
TW4-07	Nitrate/Nitrite (as N)	3/21/2017	3/23/2017	2	28	OK
TW4-08	Chloride	3/21/2017	3/24/2017	3	28	OK
TW4-08	Carbon tetrachloride	3/21/2017	3/23/2017	2	14	OK
TW4-08	Chloroform	3/21/2017	3/23/2017	2	14	OK
TW4-08	Chloromethane	3/21/2017	3/23/2017	2	14	OK
TW4-08	Methylene chloride	3/21/2017	3/23/2017	2	14	OK
TW4-08	Nitrate/Nitrite (as N)	3/21/2017	3/23/2017	2	28	OK
TW4-08R	Chloride	3/20/2017	3/24/2017	4	28	OK
TW4-08R	Carbon tetrachloride	3/20/2017	3/23/2017	3	14	OK
TW4-08R	Chloroform	3/20/2017	3/23/2017	3	14	OK
TW4-08R	Chloromethane	3/20/2017	3/23/2017	3	14	OK
TW4-08R	Methylene chloride	3/20/2017	3/23/2017	3	14	OK
TW4-08R	Nitrate/Nitrite (as N)	3/20/2017	3/23/2017	3	28	OK
TW4-09	Chloride	3/16/2017	3/23/2017	7	28	OK
TW4-09	Carbon tetrachloride	3/16/2017	3/17/2017	1	14	OK
TW4-09	Chloroform	3/16/2017	3/17/2017	1	14	OK
TW4-09	Chloromethane	3/16/2017	3/17/2017	1	14	OK
TW4-09	Methylene chloride	3/16/2017	3/17/2017	1	14	OK
TW4-09	Nitrate/Nitrite (as N)	3/16/2017	3/17/2017	1	28	OK
TW4-10	Chloride	3/21/2017	3/24/2017	3	28	OK
TW4-10	Carbon tetrachloride	3/21/2017	3/23/2017	2	14	OK
TW4-10	Chloroform	3/21/2017	3/23/2017	2	14	OK
TW4-10	Chloromethane	3/21/2017	3/23/2017	2	14	OK
TW4-10	Methylene chloride	3/21/2017	3/23/2017	2	14	OK
TW4-10	Nitrate/Nitrite (as N)	3/21/2017	3/23/2017	2	28	OK
TW4-11	Chloride	3/8/2017	3/14/2017	6	28	OK
TW4-11	Carbon tetrachloride	3/8/2017	3/10/2017	2	14	OK
TW4-11	Chloroform	3/8/2017	3/13/2017	5	14	OK
TW4-11	Chloromethane	3/8/2017	3/10/2017	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
TW4-11	Methylene chloride	3/8/2017	3/10/2017	2	14	OK
TW4-11	Nitrate/Nitrite (as N)	3/8/2017	3/10/2017	2	28	OK
TW4-12	Chloride	3/14/2017	3/22/2017	8	28	OK
TW4-12	Carbon tetrachloride	3/14/2017	3/17/2017	3	14	OK
TW4-12	Chloroform	3/14/2017	3/17/2017	3	14	OK
TW4-12	Chloromethane	3/14/2017	3/17/2017	3	14	OK
TW4-12	Methylene chloride	3/14/2017	3/17/2017	3	14	OK
TW4-12	Nitrate/Nitrite (as N)	3/14/2017	3/17/2017	3	28	OK
TW4-13	Chloride	3/15/2017	3/22/2017	7	28	OK
TW4-13	Carbon tetrachloride	3/15/2017	3/17/2017	2	14	OK
TW4-13	Chloroform	3/15/2017	3/17/2017	2	14	OK
TW4-13	Chloromethane	3/15/2017	3/17/2017	2	14	OK
TW4-13	Methylene chloride	3/15/2017	3/17/2017	2	14	OK
TW4-13	Nitrate/Nitrite (as N)	3/15/2017	3/17/2017	2	28	OK
TW4-14	Chloride	3/15/2017	3/23/2017	8	28	OK
TW4-14	Carbon tetrachloride	3/15/2017	3/17/2017	2	14	OK
TW4-14	Chloroform	3/15/2017	3/17/2017	2	14	OK
TW4-14	Chloromethane	3/15/2017	3/17/2017	2	14	OK
TW4-14	Methylene chloride	3/15/2017	3/17/2017	2	14	OK
TW4-14	Nitrate/Nitrite (as N)	3/15/2017	3/17/2017	2	28	OK
TW4-16	Chloride	3/16/2017	3/23/2017	7	28	OK
TW4-16	Carbon tetrachloride	3/16/2017	3/17/2017	1	14	OK
TW4-16	Chloroform	3/16/2017	3/17/2017	1	14	OK
TW4-16	Chloromethane	3/16/2017	3/17/2017	1	14	OK
TW4-16	Methylene chloride	3/16/2017	3/17/2017	1	14	OK
TW4-16	Nitrate/Nitrite (as N)	3/16/2017	3/17/2017	1	28	OK
TW4-18	Chloride	3/16/2017	3/23/2017	7	28	OK
TW4-18	Carbon tetrachloride	3/16/2017	3/17/2017	1	14	OK
TW4-18	Chloroform	3/16/2017	3/17/2017	1	14	OK
TW4-18	Chloromethane	3/16/2017	3/17/2017	1	14	OK
TW4-18	Methylene chloride	3/16/2017	3/17/2017	1	14	OK
TW4-18	Nitrate/Nitrite (as N)	3/16/2017	3/17/2017	1	28	OK
TW4-19	Chloride	3/8/2017	3/15/2017	7	28	OK
TW4-19	Carbon tetrachloride	3/8/2017	3/10/2017	2	14	OK
TW4-19	Chloroform	3/8/2017	3/14/2017	6	14	OK
TW4-19	Chloromethane	3/8/2017	3/10/2017	2	14	OK
TW4-19	Methylene chloride	3/8/2017	3/10/2017	2	14	OK
TW4-19	Nitrate/Nitrite (as N)	3/8/2017	3/10/2017	2	28	OK
TW4-20	Chloride	3/8/2017	3/14/2017	6	28	OK
TW4-20	Carbon tetrachloride	3/8/2017	3/10/2017	2	14	OK
TW4-20	Chloroform	3/8/2017	3/14/2017	6	14	OK
TW4-20	Chloromethane	3/8/2017	3/10/2017	2	14	OK
TW4-20	Methylene chloride	3/8/2017	3/10/2017	2	14	OK
TW4-20	Nitrate/Nitrite (as N)	3/8/2017	3/10/2017	2	28	OK
TW4-21	Chloride	3/8/2017	3/14/2017	6	28	OK
TW4-21	Carbon tetrachloride	3/8/2017	3/10/2017	2	14	OK
TW4-21	Chloroform	3/8/2017	3/13/2017	5	14	OK
TW4-21	Chloromethane	3/8/2017	3/10/2017	2	14	OK
TW4-21	Methylene chloride	3/8/2017	3/10/2017	2	14	OK
TW4-21	Nitrate/Nitrite (as N)	3/8/2017	3/10/2017	2	28	OK
TW4-22	Chloride	3/8/2017	3/14/2017	6	28	OK
TW4-22	Carbon tetrachloride	3/8/2017	3/10/2017	2	14	OK
TW4-22	Chloroform	3/8/2017	3/13/2017	5	14	OK

I-2: Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
TW4-22	Chloromethane	3/8/2017	3/10/2017	2	14	OK
TW4-22	Methylene chloride	3/8/2017	3/10/2017	2	14	OK
TW4-22	Nitrate/Nitrite (as N)	3/8/2017	3/10/2017	2	28	OK
TW4-23	Chloride	3/15/2017	3/23/2017	8	28	OK
TW4-23	Carbon tetrachloride	3/15/2017	3/17/2017	2	14	OK
TW4-23	Chloroform	3/15/2017	3/17/2017	2	14	OK
TW4-23	Chloromethane	3/15/2017	3/17/2017	2	14	OK
TW4-23	Methylene chloride	3/15/2017	3/17/2017	2	14	OK
TW4-23	Nitrate/Nitrite (as N)	3/15/2017	3/17/2017	2	28	OK
TW4-24	Chloride	3/8/2017	3/14/2017	6	28	OK
TW4-24	Carbon tetrachloride	3/8/2017	3/10/2017	2	14	OK
TW4-24	Chloroform	3/8/2017	3/10/2017	2	14	OK
TW4-24	Chloromethane	3/8/2017	3/10/2017	2	14	OK
TW4-24	Methylene chloride	3/8/2017	3/10/2017	2	14	OK
TW4-24	Nitrate/Nitrite (as N)	3/8/2017	3/10/2017	2	28	OK
TW4-25	Chloride	3/8/2017	3/15/2017	7	28	OK
TW4-25	Carbon tetrachloride	3/8/2017	3/10/2017	2	14	OK
TW4-25	Chloroform	3/8/2017	3/10/2017	2	14	OK
TW4-25	Chloromethane	3/8/2017	3/10/2017	2	14	OK
TW4-25	Methylene chloride	3/8/2017	3/10/2017	2	14	OK
TW4-25	Nitrate/Nitrite (as N)	3/8/2017	3/10/2017	2	28	OK
TW4-26	Chloride	3/16/2017	3/23/2017	7	28	OK
TW4-26	Carbon tetrachloride	3/16/2017	3/17/2017	1	14	OK
TW4-26	Chloroform	3/16/2017	3/17/2017	1	14	OK
TW4-26	Chloromethane	3/16/2017	3/17/2017	1	14	OK
TW4-26	Methylene chloride	3/16/2017	3/17/2017	1	14	OK
TW4-26	Nitrate/Nitrite (as N)	3/16/2017	3/17/2017	1	28	OK
TW4-27	Chloride	3/15/2017	3/23/2017	8	28	OK
TW4-27	Carbon tetrachloride	3/15/2017	3/17/2017	2	14	OK
TW4-27	Chloroform	3/15/2017	3/17/2017	2	14	OK
TW4-27	Chloromethane	3/15/2017	3/17/2017	2	14	OK
TW4-27	Methylene chloride	3/15/2017	3/17/2017	2	14	OK
TW4-27	Nitrate/Nitrite (as N)	3/15/2017	3/17/2017	2	28	OK
TW4-28	Chloride	3/14/2017	3/22/2017	8	28	OK
TW4-28	Carbon tetrachloride	3/14/2017	3/17/2017	3	14	OK
TW4-28	Chloroform	3/14/2017	3/17/2017	3	14	OK
TW4-28	Chloromethane	3/14/2017	3/17/2017	3	14	OK
TW4-28	Methylene chloride	3/14/2017	3/17/2017	3	14	OK
TW4-28	Nitrate/Nitrite (as N)	3/14/2017	3/17/2017	3	28	OK
TW4-29	Chloride	3/16/2017	3/23/2017	7	28	OK
TW4-29	Carbon tetrachloride	3/16/2017	3/17/2017	1	14	OK
TW4-29	Chloroform	3/16/2017	3/20/2017	4	14	OK
TW4-29	Chloromethane	3/16/2017	3/17/2017	1	14	OK
TW4-29	Methylene chloride	3/16/2017	3/17/2017	1	14	OK
TW4-29	Nitrate/Nitrite (as N)	3/16/2017	3/17/2017	1	28	OK
TW4-30	Chloride	3/15/2017	3/23/2017	8	28	OK
TW4-30	Carbon tetrachloride	3/15/2017	3/17/2017	2	14	OK
TW4-30	Chloroform	3/15/2017	3/17/2017	2	14	OK
TW4-30	Chloromethane	3/15/2017	3/17/2017	2	14	OK
TW4-30	Methylene chloride	3/15/2017	3/17/2017	2	14	OK
TW4-30	Nitrate/Nitrite (as N)	3/15/2017	3/17/2017	2	28	OK
TW4-30R	Chloride	3/14/2017	3/23/2017	9	28	OK
TW4-30R	Carbon tetrachloride	3/14/2017	3/17/2017	3	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
TW4-30R	Chloroform	3/14/2017	3/17/2017	3	14	OK
TW4-30R	Chloromethane	3/14/2017	3/17/2017	3	14	OK
TW4-30R	Methylene chloride	3/14/2017	3/17/2017	3	14	OK
TW4-30R	Nitrate/Nitrite (as N)	3/14/2017	3/17/2017	3	28	OK
TW4-31	Chloride	3/15/2017	3/23/2017	8	28	OK
TW4-31	Carbon tetrachloride	3/15/2017	3/17/2017	2	14	OK
TW4-31	Chloroform	3/15/2017	3/17/2017	2	14	OK
TW4-31	Chloromethane	3/15/2017	3/17/2017	2	14	OK
TW4-31	Methylene chloride	3/15/2017	3/17/2017	2	14	OK
TW4-31	Nitrate/Nitrite (as N)	3/15/2017	3/17/2017	2	28	OK
TW4-32	Chloride	3/14/2017	3/22/2017	8	28	OK
TW4-32	Carbon tetrachloride	3/14/2017	3/17/2017	3	14	OK
TW4-32	Chloroform	3/14/2017	3/17/2017	3	14	OK
TW4-32	Chloromethane	3/14/2017	3/17/2017	3	14	OK
TW4-32	Methylene chloride	3/14/2017	3/17/2017	3	14	OK
TW4-32	Nitrate/Nitrite (as N)	3/14/2017	3/17/2017	3	28	OK
TW4-33	Chloride	3/16/2017	3/23/2017	7	28	OK
TW4-33	Carbon tetrachloride	3/16/2017	3/17/2017	1	14	OK
TW4-33	Chloroform	3/16/2017	3/17/2017	1	14	OK
TW4-33	Chloromethane	3/16/2017	3/17/2017	1	14	OK
TW4-33	Methylene chloride	3/16/2017	3/17/2017	1	14	OK
TW4-33	Nitrate/Nitrite (as N)	3/16/2017	3/17/2017	1	28	OK
TW4-34	Chloride	3/15/2017	3/22/2017	7	28	OK
TW4-34	Carbon tetrachloride	3/15/2017	3/17/2017	2	14	OK
TW4-34	Chloroform	3/15/2017	3/17/2017	2	14	OK
TW4-34	Chloromethane	3/15/2017	3/17/2017	2	14	OK
TW4-34	Methylene chloride	3/15/2017	3/17/2017	2	14	OK
TW4-34	Nitrate/Nitrite (as N)	3/15/2017	3/17/2017	2	28	OK
TW4-35	Chloride	3/15/2017	3/22/2017	7	28	OK
TW4-35	Carbon tetrachloride	3/15/2017	3/17/2017	2	14	OK
TW4-35	Chloroform	3/15/2017	3/17/2017	2	14	OK
TW4-35	Chloromethane	3/15/2017	3/17/2017	2	14	OK
TW4-35	Methylene chloride	3/15/2017	3/17/2017	2	14	OK
TW4-35	Nitrate/Nitrite (as N)	3/15/2017	3/17/2017	2	28	OK
TW4-36	Chloride	3/15/2017	3/22/2017	7	28	OK
TW4-36	Carbon tetrachloride	3/15/2017	3/17/2017	2	14	OK
TW4-36	Chloroform	3/15/2017	3/17/2017	2	14	OK
TW4-36	Chloromethane	3/15/2017	3/17/2017	2	14	OK
TW4-36	Methylene chloride	3/15/2017	3/17/2017	2	14	OK
TW4-36	Nitrate/Nitrite (as N)	3/15/2017	3/17/2017	2	28	OK
TW4-37	Chloride	3/8/2017	3/14/2017	6	28	OK
TW4-37	Carbon tetrachloride	3/8/2017	3/10/2017	2	14	OK
TW4-37	Chloroform	3/8/2017	3/14/2017	6	14	OK
TW4-37	Chloromethane	3/8/2017	3/10/2017	2	14	OK
TW4-37	Methylene chloride	3/8/2017	3/10/2017	2	14	OK
TW4-37	Nitrate/Nitrite (as N)	3/8/2017	3/10/2017	2	28	OK
TW4-38	Chloride	3/15/2017	3/23/2017	8	28	OK
TW4-38	Carbon tetrachloride	3/15/2017	3/17/2017	2	14	OK
TW4-38	Chloroform	3/15/2017	3/17/2017	2	14	OK
TW4-38	Chloromethane	3/15/2017	3/17/2017	2	14	OK
TW4-38	Methylene chloride	3/15/2017	3/17/2017	2	14	OK
TW4-38	Nitrate/Nitrite (as N)	3/15/2017	3/17/2017	2	28	OK
TW4-39	Chloride	3/8/2017	3/14/2017	6	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
TW4-39	Carbon tetrachloride	3/8/2017	3/10/2017	2	14	OK
TW4-39	Chloroform	3/8/2017	3/13/2017	5	14	OK
TW4-39	Chloromethane	3/8/2017	3/10/2017	2	14	OK
TW4-39	Methylene chloride	3/8/2017	3/10/2017	2	14	OK
TW4-39	Nitrate/Nitrite (as N)	3/8/2017	3/10/2017	2	28	OK
TW4-60	Chloride	3/8/2017	3/14/2017	6	28	OK
TW4-60	Carbon tetrachloride	3/8/2017	3/13/2017	5	14	OK
TW4-60	Chloroform	3/8/2017	3/13/2017	5	14	OK
TW4-60	Chloromethane	3/8/2017	3/13/2017	5	14	OK
TW4-60	Methylene chloride	3/8/2017	3/13/2017	5	14	OK
TW4-60	Nitrate/Nitrite (as N)	3/8/2017	3/10/2017	2	28	OK
TW4-65	Chloride	3/14/2017	3/23/2017	9	28	OK
TW4-65	Carbon tetrachloride	3/14/2017	3/17/2017	3	14	OK
TW4-65	Chloroform	3/14/2017	3/17/2017	3	14	OK
TW4-65	Chloromethane	3/14/2017	3/17/2017	3	14	OK
TW4-65	Methylene chloride	3/14/2017	3/17/2017	3	14	OK
TW4-65	Nitrate/Nitrite (as N)	3/14/2017	3/17/2017	3	28	OK
TW4-70	Chloride	3/15/2017	3/23/2017	8	28	OK
TW4-70	Carbon tetrachloride	3/15/2017	3/17/2017	2	14	OK
TW4-70	Chloroform	3/15/2017	3/17/2017	2	14	OK
TW4-70	Chloromethane	3/15/2017	3/17/2017	2	14	OK
TW4-70	Methylene chloride	3/15/2017	3/17/2017	2	14	OK
TW4-70	Nitrate/Nitrite (as N)	3/15/2017	3/17/2017	2	28	OK
TW4-75	Chloride	3/16/2017	3/23/2017	7	28	OK
TW4-75	Carbon tetrachloride	3/16/2017	3/17/2017	1	14	OK
TW4-75	Chloroform	3/16/2017	3/17/2017	1	14	OK
TW4-75	Chloromethane	3/16/2017	3/17/2017	1	14	OK
TW4-75	Methylene chloride	3/16/2017	3/17/2017	1	14	OK
TW4-75	Nitrate/Nitrite (as N)	3/16/2017	3/17/2017	1	28	OK

Table I-3 Recipt Temperature Check

Sample Batch	Wells in Batch	Temperature
1703181	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, TW4-39, TW4-60, Trip Blank	2.4°C
1703339	TW4-03, TW4-03R, TW4-05, TW4-06, TW4-09, TW4-12, TW4-13, TW4-14, TW4-16, TW4-18, TW4-23, TW4-26, TW4-27, TW4-28, TW4-29, TW4-30, TW4-30R, TW4-31, TW4-32, TW4-33, TW4-34, TW4-35, TW4-36, TW4-38, TW4-65, TW4-70, TW4-75, Trip Blank	1.8°C
1703458	MW-32, TW4-07, TW4-08, TW4-08R, TW4-10, Trip Blank	3.6 °C

I-4 Analytical Method Check

Parameter	Method	Method Used by Lab
Carbon Tetrachloride	SW8260B or SW8260C	SW8260C
Chloride	A4500-Cl B or A4500-Cl E or E300.0	E300.0
Chloroform	SW8260B or SW8260C	SW8260C
Chloromethane	SW8260B or SW8260C	SW8260C
Methylene chloride	SW8260B or SW8260C	SW8260C
Nitrogen	E353.1 or E353.2	E353.2

All parameters were analyzed using the reporting method specificied in the QAP

I-5 Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
Trip Blank	Carbon tetrachloride	1	ug/L	U	1	1	OK
Trip Blank	Chloroform	1	ug/L	U	1	1	OK
Trip Blank	Chloromethane	1	ug/L	U	1	1	OK
Trip Blank	Methylene chloride	1	ug/L	U	1	1	OK
Trip Blank	Carbon tetrachloride	1	ug/L	U	1	1	OK
Trip Blank	Chloroform	1	ug/L	U	1	1	OK
Trip Blank	Chloromethane	1	ug/L	U	1	1	OK
Trip Blank	Methylene chloride	1	ug/L	U	1	1	OK
Trip Blank	Carbon tetrachloride	1	ug/L	U	1	1	OK
Trip Blank	Chloroform	1	ug/L	U	1	1	OK
Trip Blank	Chloromethane	1	ug/L	U	1	1	OK
Trip Blank	Methylene chloride	1	ug/L	U	1	1	OK
MW-04	Chloride	10	mg/L		10	1	OK
MW-04	Carbon tetrachloride	1	ug/L		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	20	mg/L		20	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	10	ug/L		10	1	OK
TW4-01	Chloromethane	1	ug/L	U	1	1	OK
TW4-01	Methylene chloride	1	ug/L	U	1	1	OK
TW4-01	Nitrate/Nitrite (as N)	0.1	mg/L		10	0.1	OK
TW4-02	Chloride	10	mg/L		10	1	OK
TW4-02	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-02	Chloroform	50	ug/L		50	1	OK
TW4-02	Chloromethane	1	ug/L	U	1	1	OK
TW4-02	Methylene chloride	1	ug/L	U	1	1	OK
TW4-02	Nitrate/Nitrite (as N)	0.1	mg/L		10	0.1	OK
TW4-03	Chloride	10	mg/L		10	1	OK
TW4-03	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-03	Chloroform	1	ug/L	U	1	1	OK
TW4-03	Chloromethane	1	ug/L	U	1	1	OK
TW4-03	Methylene chloride	1	ug/L	U	1	1	OK
TW4-03	Nitrate/Nitrite (as N)	0.1	mg/L		10	0.1	OK
TW4-03R	Chloride	1	mg/L	U	1	1	OK
TW4-03R	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-03R	Chloroform	1	ug/L		1	1	OK
TW4-03R	Chloromethane	1	ug/L	U	1	1	OK
TW4-03R	Methylene chloride	1	ug/L	U	1	1	OK
TW4-03R	Nitrate/Nitrite (as N)	0.1	mg/L	U	10	0.1	OK

I-5 Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
TW4-04	Chloride	10	mg/L		10	1	OK
TW4-04	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-04	Chloroform	50	ug/L		50	1	OK
TW4-04	Chloromethane	1	ug/L	U	1	1	OK
TW4-04	Methylene chloride	1	ug/L	U	1	1	OK
TW4-04	Nitrate/Nitrite (as N)	0.1	mg/L		10	0.1	OK
TW4-05	Chloride	10	mg/L		10	1	OK
TW4-05	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-05	Chloroform	1	ug/L		1	1	OK
TW4-05	Chloromethane	1	ug/L	U	1	1	OK
TW4-05	Methylene chloride	1	ug/L	U	1	1	OK
TW4-05	Nitrate/Nitrite (as N)	0.1	mg/L		10	0.1	OK
TW4-06	Chloride	10	mg/L		10	1	OK
TW4-06	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-06	Chloroform	10	ug/L		10	1	OK
TW4-06	Chloromethane	1	ug/L	U	1	1	OK
TW4-06	Methylene chloride	1	ug/L	U	1	1	OK
TW4-06	Nitrate/Nitrite (as N)	0.1	mg/L		10	0.1	OK
TW4-07	Chloride	10	mg/L		10	1	OK
TW4-07	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-07	Chloroform	50	ug/L		50	1	OK
TW4-07	Chloromethane	1	ug/L	U	1	1	OK
TW4-07	Methylene chloride	1	ug/L	U	1	1	OK
TW4-07	Nitrate/Nitrite (as N)	0.1	mg/L		10	0.1	OK
TW4-08	Chloride	10	mg/L		10	1	OK
TW4-08	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-08	Chloroform	10	ug/L		10	1	OK
TW4-08	Chloromethane	1	ug/L	U	1	1	OK
TW4-08	Methylene chloride	1	ug/L	U	1	1	OK
TW4-08	Nitrate/Nitrite (as N)	0.1	mg/L		10	0.1	OK
TW4-08R	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	U	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	5	mg/L		5	1	OK
TW4-09	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-09	Chloroform	1	ug/L		1	1	OK
TW4-09	Chloromethane	1	ug/L	U	1	1	OK
TW4-09	Methylene chloride	1	ug/L	U	1	1	OK
TW4-09	Nitrate/Nitrite (as N)	0.1	mg/L		10	0.1	OK
TW4-10	Chloride	10	mg/L		10	1	OK
TW4-10	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-10	Chloroform	50	ug/L		50	1	OK
TW4-10	Chloromethane	1	ug/L	U	1	1	OK
TW4-10	Methylene chloride	1	ug/L	U	1	1	OK
TW4-10	Nitrate/Nitrite (as N)	0.1	mg/L		10	0.1	OK
TW4-11	Chloride	10	mg/L		10	1	OK
TW4-11	Carbon tetrachloride	1	ug/L		1	1	OK
TW4-11	Chloroform	100	ug/L		100	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

I-5 Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
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	10	mg/L		10	1	OK
TW4-14	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-14	Chloroform	1	ug/L		1	1	OK
TW4-14	Chloromethane	1	ug/L	U	1	1	OK
TW4-14	Methylene chloride	1	ug/L	U	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	50	ug/L		50	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	20	mg/L		20	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		1	1	OK
TW4-21	Chloroform	10	ug/L		10	1	OK
TW4-21	Chloromethane	1	ug/L	U	1	1	OK
TW4-21	Methylene chloride	1	ug/L	U	1	1	OK
TW4-21	Nitrate/Nitrite (as N)	0.1	mg/L		10	0.1	OK
TW4-22	Chloride	100	mg/L		100	1	OK
TW4-22	Carbon tetrachloride	1	ug/L		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

I-5 Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
TW4-23	Chloride	10	mg/L		10	1	OK
TW4-23	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-23	Chloroform	1	ug/L	U	1	1	OK
TW4-23	Chloromethane	1	ug/L	U	1	1	OK
TW4-23	Methylene chloride	1	ug/L	U	1	1	OK
TW4-23	Nitrate/Nitrite (as N)	0.1	mg/L	U	10	0.1	OK
TW4-24	Chloride	100	mg/L		100	1	OK
TW4-24	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-24	Chloroform	1	ug/L		1	1	OK
TW4-24	Chloromethane	1	ug/L	U	1	1	OK
TW4-24	Methylene chloride	1	ug/L	U	1	1	OK
TW4-24	Nitrate/Nitrite (as N)	0.5	mg/L		50	0.1	OK
TW4-25	Chloride	100	mg/L		100	1	OK
TW4-25	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-25	Chloroform	1	ug/L		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	5	mg/L		5	1	OK
TW4-26	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-26	Chloroform	1	ug/L		1	1	OK
TW4-26	Chloromethane	1	ug/L	U	1	1	OK
TW4-26	Methylene chloride	1	ug/L	U	1	1	OK
TW4-26	Nitrate/Nitrite (as N)	0.1	mg/L		10	0.1	OK
TW4-27	Chloride	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)	0.5	mg/L		50	0.1	OK
TW4-29	Chloride	10	mg/L		10	1	OK
TW4-29	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-29	Chloroform	10	ug/L		10	1	OK
TW4-29	Chloromethane	1	ug/L	U	1	1	OK
TW4-29	Methylene chloride	1	ug/L	U	1	1	OK
TW4-29	Nitrate/Nitrite (as N)	0.1	mg/L		10	0.1	OK
TW4-30	Chloride	10	mg/L		10	1	OK
TW4-30	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-30	Chloroform	1	ug/L		1	1	OK
TW4-30	Chloromethane	1	ug/L	U	1	1	OK
TW4-30	Methylene chloride	1	ug/L	U	1	1	OK
TW4-30	Nitrate/Nitrite (as N)	0.1	mg/L		10	0.1	OK
TW4-30R	Chloride	1	mg/L	U	1	1	OK
TW4-30R	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-30R	Chloroform	1	ug/L	U	1	1	OK
TW4-30R	Chloromethane	1	ug/L	U	1	1	OK
TW4-30R	Methylene chloride	1	ug/L	U	1	1	OK
TW4-30R	Nitrate/Nitrite (as N)	0.1	mg/L	U	10	0.1	OK

I-5 Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
TW4-31	Chloride	10	mg/L		10	1	OK
TW4-31	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-31	Chloroform	1	ug/L	U	1	1	OK
TW4-31	Chloromethane	1	ug/L	U	1	1	OK
TW4-31	Methylene chloride	1	ug/L	U	1	1	OK
TW4-31	Nitrate/Nitrite (as N)	0.1	mg/L		10	0.1	OK
TW4-32	Chloride	10	mg/L		10	1	OK
TW4-32	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-32	Chloroform	1	ug/L	U	1	1	OK
TW4-32	Chloromethane	1	ug/L	U	1	1	OK
TW4-32	Methylene chloride	1	ug/L	U	1	1	OK
TW4-32	Nitrate/Nitrite (as N)	0.1	mg/L		10	0.1	OK
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	5	mg/L		5	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	10	mg/L		10	1	OK
TW4-35	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-35	Chloroform	1	ug/L	U	1	1	OK
TW4-35	Chloromethane	1	ug/L	U	1	1	OK
TW4-35	Methylene chloride	1	ug/L	U	1	1	OK
TW4-35	Nitrate/Nitrite (as N)	0.1	mg/L		10	0.1	OK
TW4-36	Chloride	10	mg/L		10	1	OK
TW4-36	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-36	Chloroform	1	ug/L	U	1	1	OK
TW4-36	Chloromethane	1	ug/L	U	1	1	OK
TW4-36	Methylene chloride	1	ug/L	U	1	1	OK
TW4-36	Nitrate/Nitrite (as N)	0.1	mg/L	U	10	0.1	OK
TW4-37	Chloride	100	mg/L		100	1	OK
TW4-37	Carbon tetrachloride	1	ug/L		1	1	OK
TW4-37	Chloroform	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	10	mg/L		10	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
TW4-39	Chloride	20	mg/L		20	1	OK
TW4-39	Carbon tetrachloride	1	ug/L		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		1	1	OK
TW4-39	Nitrate/Nitrite (as N)	0.2	mg/L		20	0.1	OK

I-5 Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
TW4-60	Chloride	1	mg/L	U	1	1	OK
TW4-60	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-60	Chloroform	1	ug/L	U	1	1	OK
TW4-60	Chloromethane	1	ug/L	U	1	1	OK
TW4-60	Methylene chloride	1	ug/L	U	1	1	OK
TW4-60	Nitrate/Nitrite (as N)	0.1	mg/L	U	10	0.1	OK
TW4-65	Chloride	10	mg/L		10	1	OK
TW4-65	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-65	Chloroform	1	ug/L	U	1	1	OK
TW4-65	Chloromethane	1	ug/L	U	1	1	OK
TW4-65	Methylene chloride	1	ug/L	U	1	1	OK
TW4-65	Nitrate/Nitrite (as N)	0.2	mg/L		20	0.1	OK
TW4-70	Chloride	10	mg/L		10	1	OK
TW4-70	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-70	Chloroform	1	ug/L	U	1	1	OK
TW4-70	Chloromethane	1	ug/L	U	1	1	OK
TW4-70	Methylene chloride	1	ug/L	U	1	1	OK
TW4-70	Nitrate/Nitrite (as N)	0.1	mg/L	U	10	0.1	OK
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	
1703181	Carbon tetrachloride	ND	ug/L
	Chloroform	ND	ug/L
	Chloromethane	ND	ug/L
	Methylene chloride	ND	ug/L
1703458	Carbon tetrachloride	ND	ug/L
	Chloroform	ND	ug/L
	Chloromethane	ND	ug/L
	Methylene chloride	ND	ug/L
1703339	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)	64.2	66.4	3.4
Nitrate + Nitrite (as N)	24.4	27.9	13.4
Carbon Tetrachloride	ND	ND	NC
Chloroform	ND	ND	NC
Chloromethane	ND	ND	NC
Dichloromethane (Methylene Chloride)	ND	ND	NC

Constituent	TW4-23	TW4-70	%RPD
Chloride (mg/L)	47.7	49.8	4.3
Nitrate + Nitrite (as N)	ND	ND	NC
Carbon Tetrachloride	ND	ND	NC
Chloroform	ND	ND	NC
Chloromethane	ND	ND	NC
Dichloromethane (Methylene Chloride)	ND	ND	NC

Constituent	TW4-18	TW4-75	%RPD
Chloride (mg/L)	39.4	41.1	4.2
Nitrate + Nitrite (as N)	4.47	4.41	1.4
Carbon Tetrachloride	ND	ND	NC
Chloroform	62.00	61.5	0.8
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
1703181	1703180-003BMS	N/A	Nitrate	115	112	90-110	2.30
1703339	1703339-018BMS	TW4-26	Nitrate	110	113	90-110	2.23

* - 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

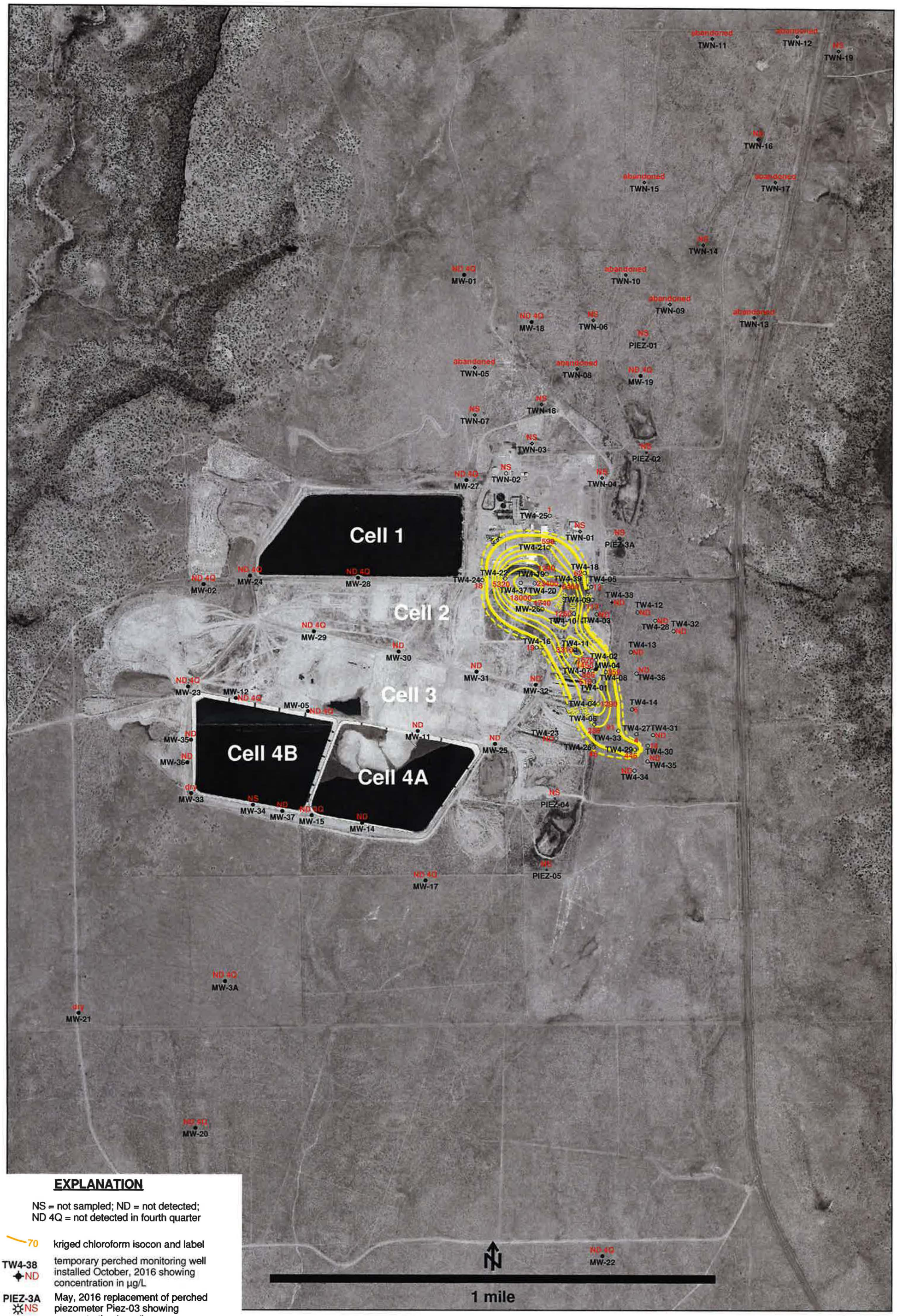
All Surrogate recoveries were within acceptance limits for the quarter.

I-9 Rinsate Evaluation

Rinsate Sample	Parameter	Rinsate Result (ug/L)	Previous Well Sampled	Result for Previous Well Sampled (ug/L)
TW4-03R	Chloroform	1.67	N/A	N/A

Tab J

Kriged Current Quarter Chloroform Isoconcentration Map



EXPLANATION

NS = not sampled; ND = not detected;
ND 4Q = not detected in fourth quarter

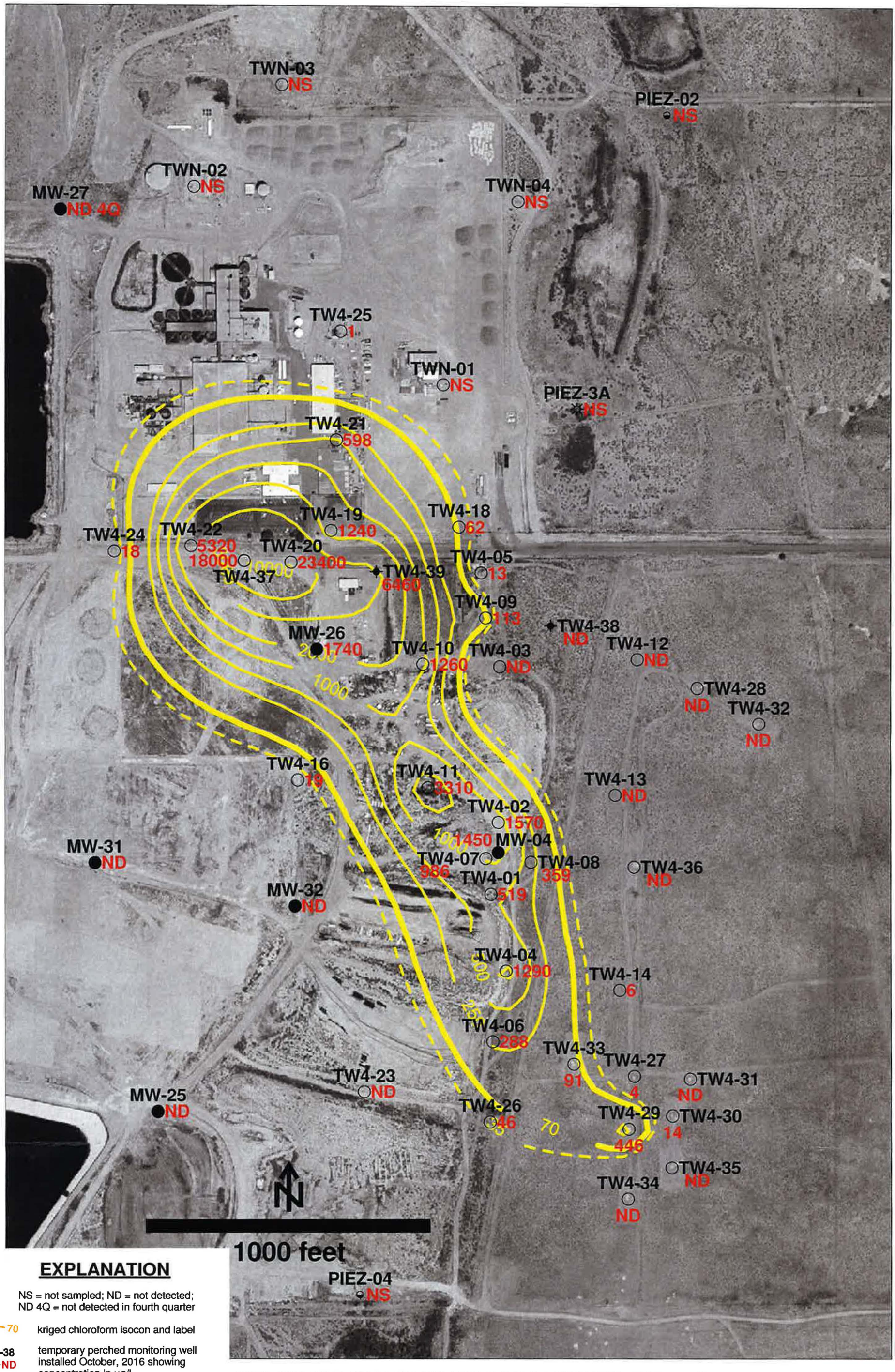
- 70 — kriged chloroform isocon and label
- TW4-38 ND — temporary perched monitoring well installed October, 2016 showing concentration in µg/L
- PIEZ-3A NS — May, 2016 replacement of perched piezometer Piez-03 showing concentration in µg/L
- MW-32 ND — perched monitoring well showing concentration in µg/L
- TW4-7 986 — 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 1st QUARTER, 2017 CHLOROFORM (µg/L) WHITE MESA SITE

APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/may17/chloroform/Uchl0317.srf	J-1



EXPLANATION

NS = not sampled; ND = not detected;
ND 4Q = not detected in fourth quarter

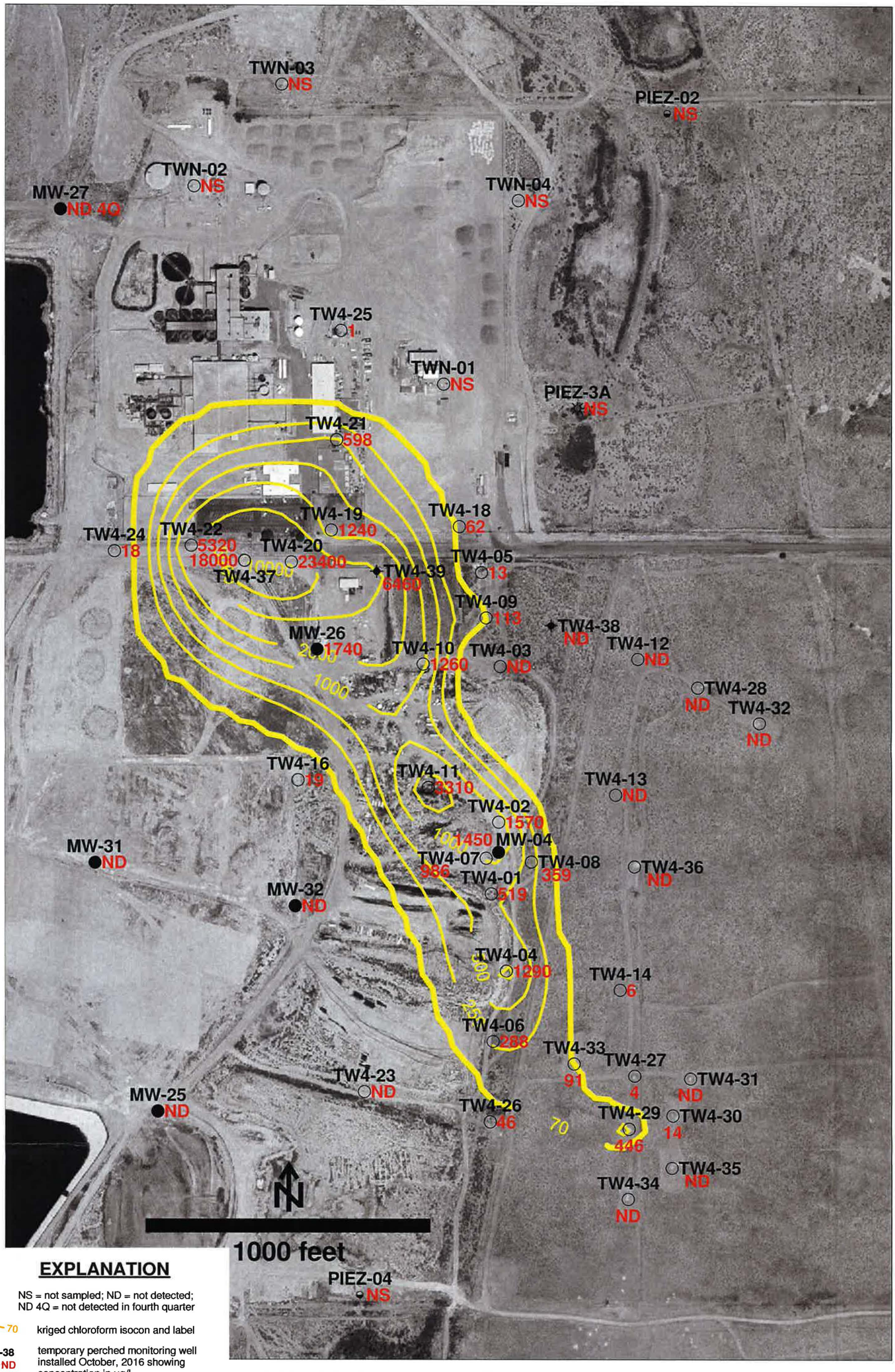
- 70 — kriged chloroform isocon and label
- TW4-38 ND — temporary perched monitoring well installed October, 2016 showing concentration in µg/L
- PIEZ-3A NS — May, 2016 replacement of perched piezometer Piez-03 (not sampled)
- MW-32 ND — perched monitoring well showing concentration (µg/L)
- TW4-7 986 — 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 1st QUARTER, 2017 CHLOROFORM (µg/L) WHITE MESA SITE (detail map)

APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/may17/chloroform/Uchl0317det.srf	J-2



EXPLANATION

NS = not sampled; ND = not detected;
ND 4Q = not detected in fourth quarter

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)
TW4-7 986	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.

1st QUARTER, 2017 CHLOROFORM GREATER THAN OR EQUAL TO 70 µg/L GRID WHITE MESA SITE

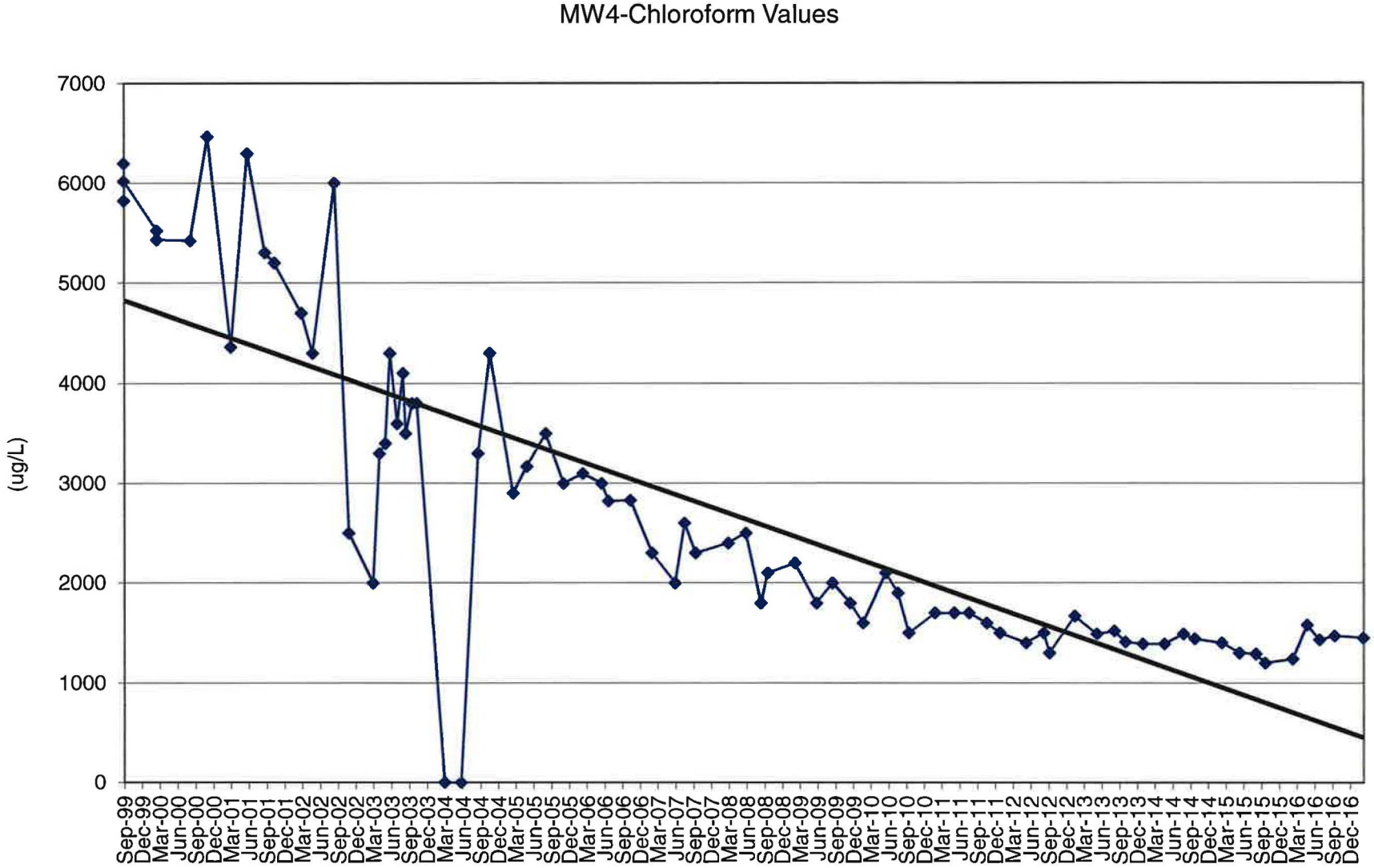
APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/may17/chloroform/Uchl0317ge70.srf	J-3

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
8-Mar-17	1450	1.22	ND	ND	4.99	43.3


MW4-Chloroform Values
(ug/L)
7000
6000
5000
4000
3000
2000
1000
0
Sep-99
Dec-99
Mar-00
Jun-00
Sep-00
Dec-00
Mar-01
Jun-01
Sep-01
Dec-01
Mar-02
Jun-02
Sep-02
Dec-02
Mar-03
Jun-03
Sep-03
Dec-03
Mar-04
Jun-04
Sep-04
Dec-04
Mar-05
Jun-05
Sep-05
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Mar-06
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Jun-07
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Dec-07
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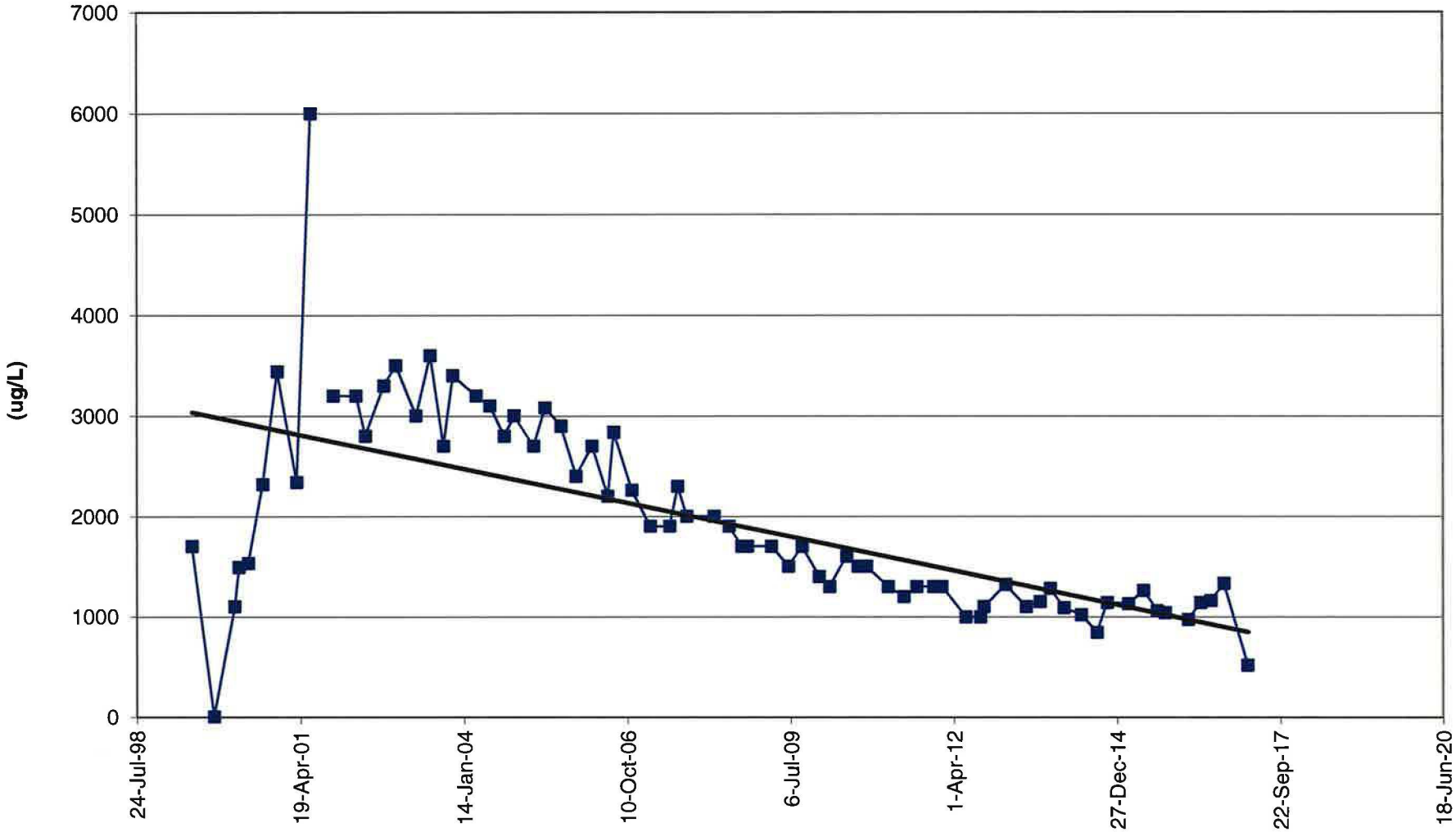
Jun-15
Sep-15
Dec-15
Mar-16
Jun-16
Sep-16
Dec-16

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
8-Mar-17	519	ND	ND	ND	4.44	41.5

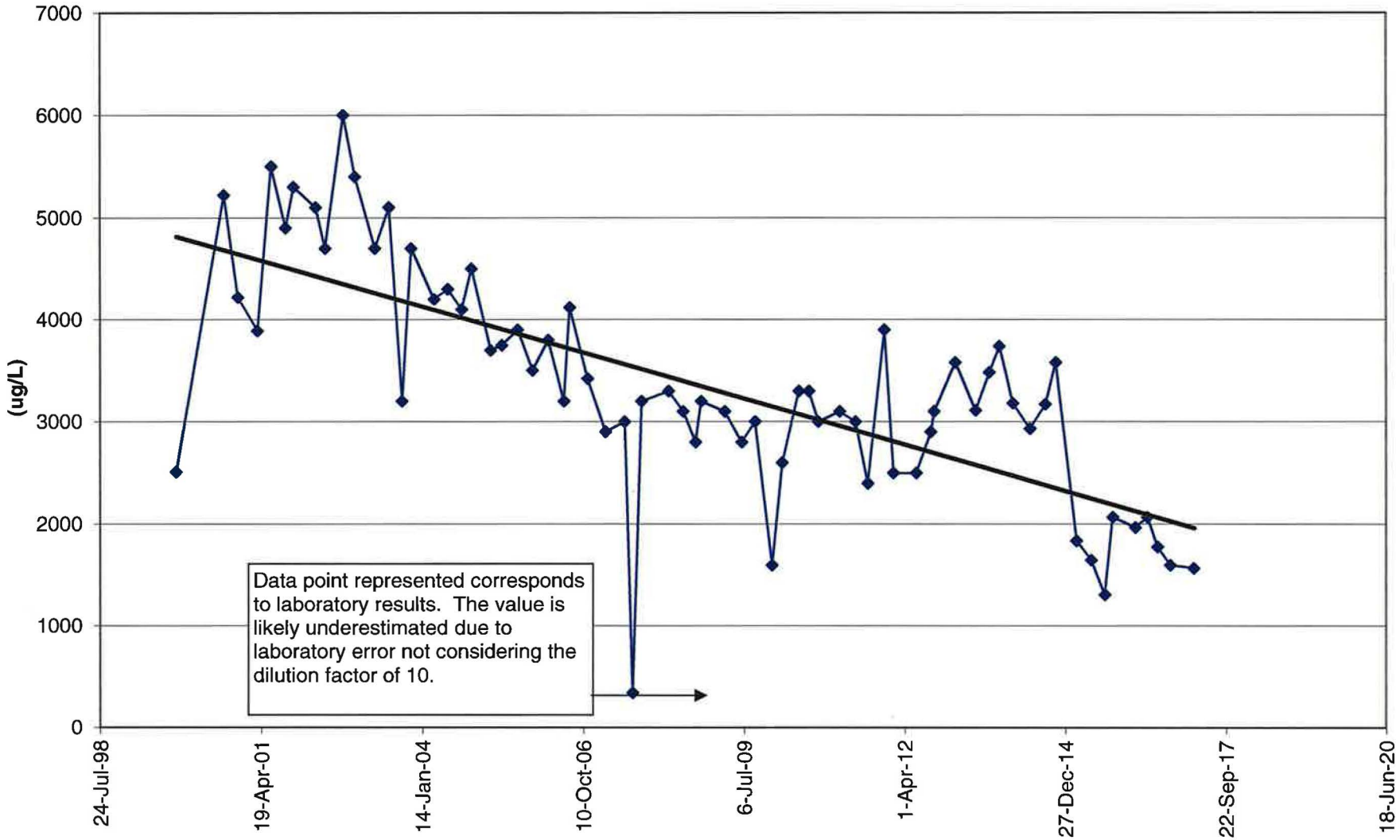
TW4-1 Chloroform Values



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

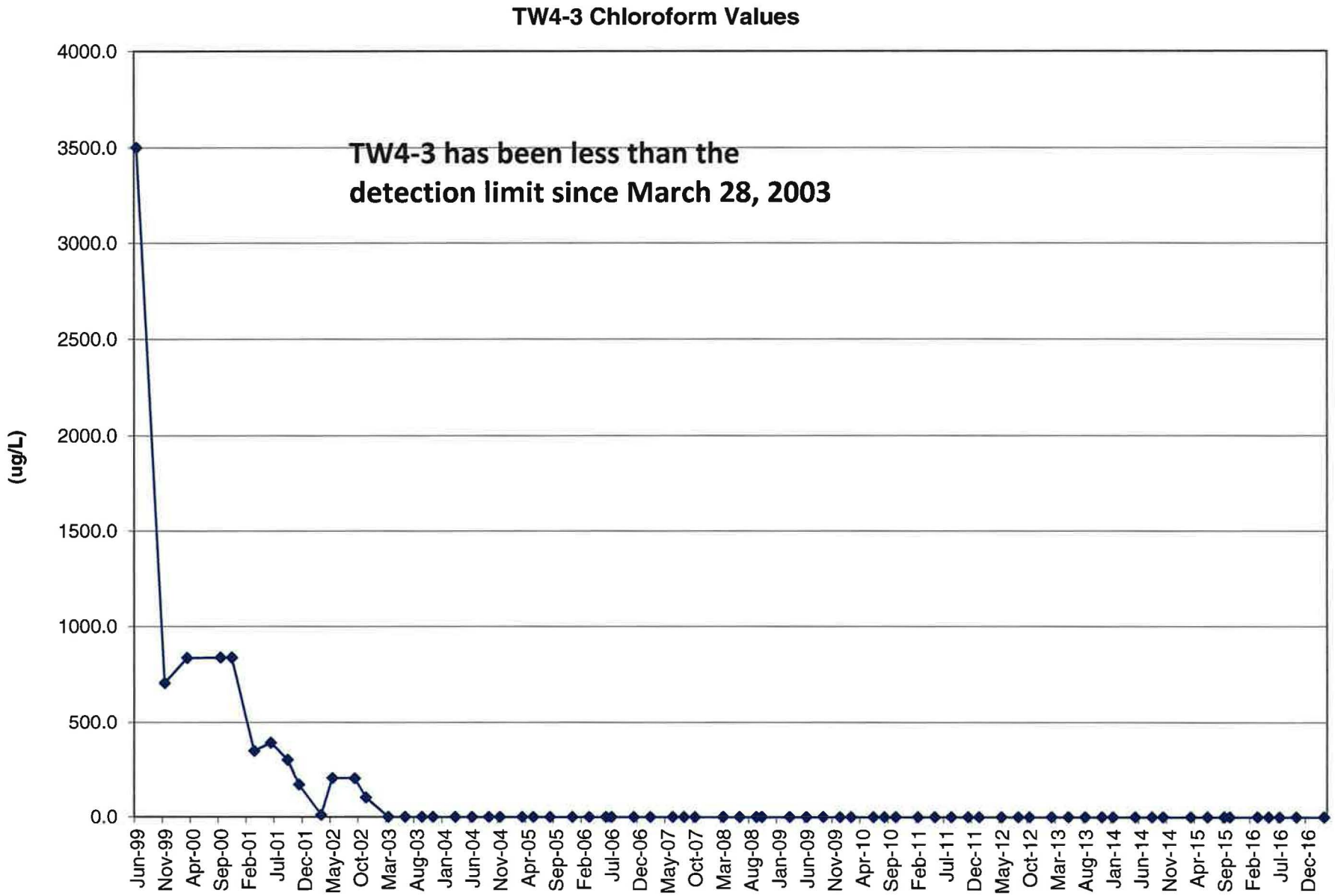
TW4-2	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
3-Mar-10	2600	2	<1	<1	6.8	42
15-Jun-10	3300	2.6	<1	<1	6.7	43
16-Aug-10	3300	2.5	<1	<1	6.6	43
14-Oct-10	3000	2.1	<1	<1	6.5	41
24-Feb-11	3100	2.4	ND	ND	7	46
2-Jun-11	3000	2.2	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
8-Mar-17	1570	ND	ND	ND	4.74	43.1

TW4-2 Chloroform Values



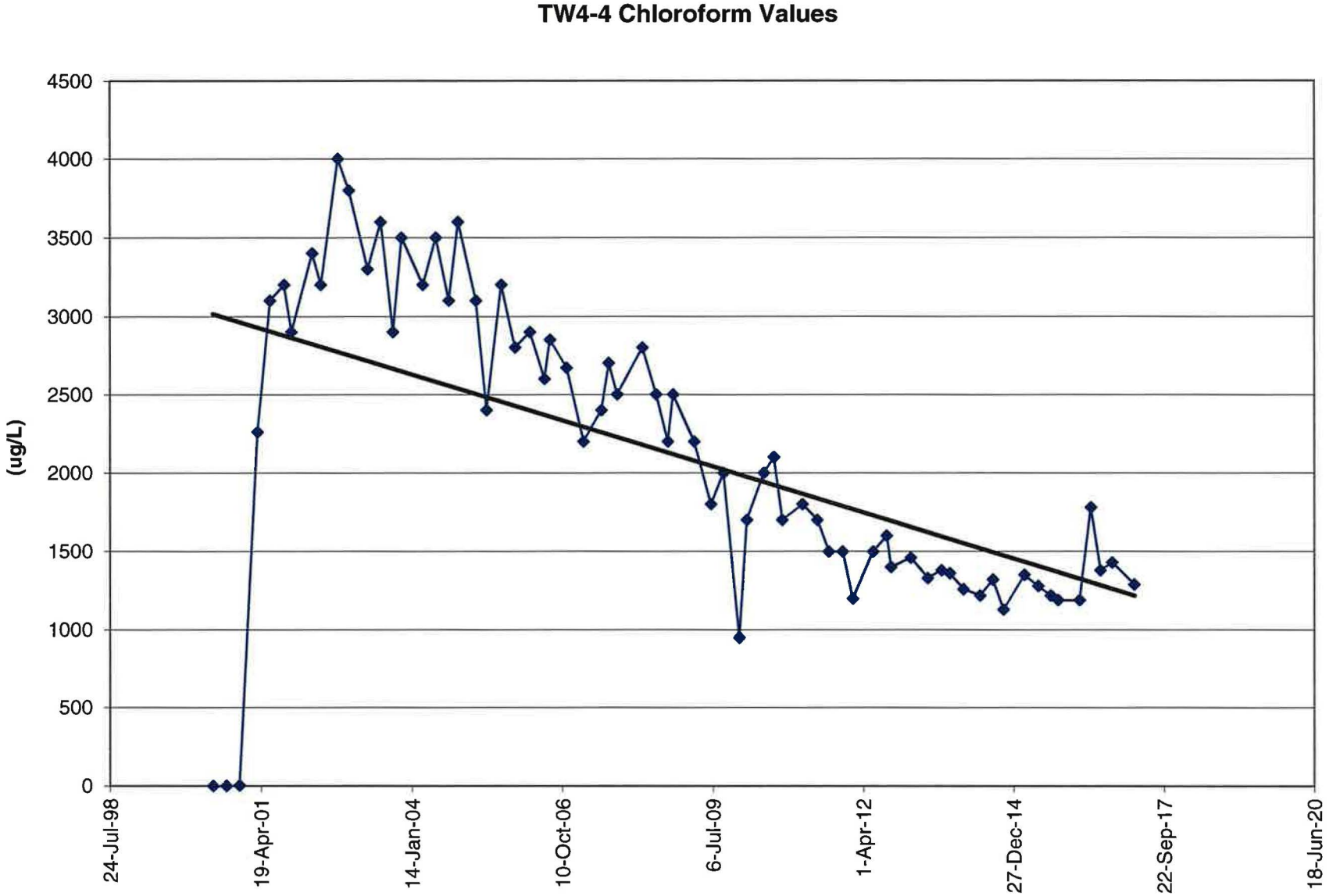
TW4-3	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
28-Jun-99	3500				7.6	
29-Nov-99	702					
15-Mar-00	834					
2-Sep-00	836				1.56	
29-Nov-00	836				1.97	
27-Mar-01	347				1.85	
21-Jun-01	390				2.61	
20-Sep-01	300				3.06	
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
14-Mar-17	ND	ND	ND	ND	6.18	28.1


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
Dec-16

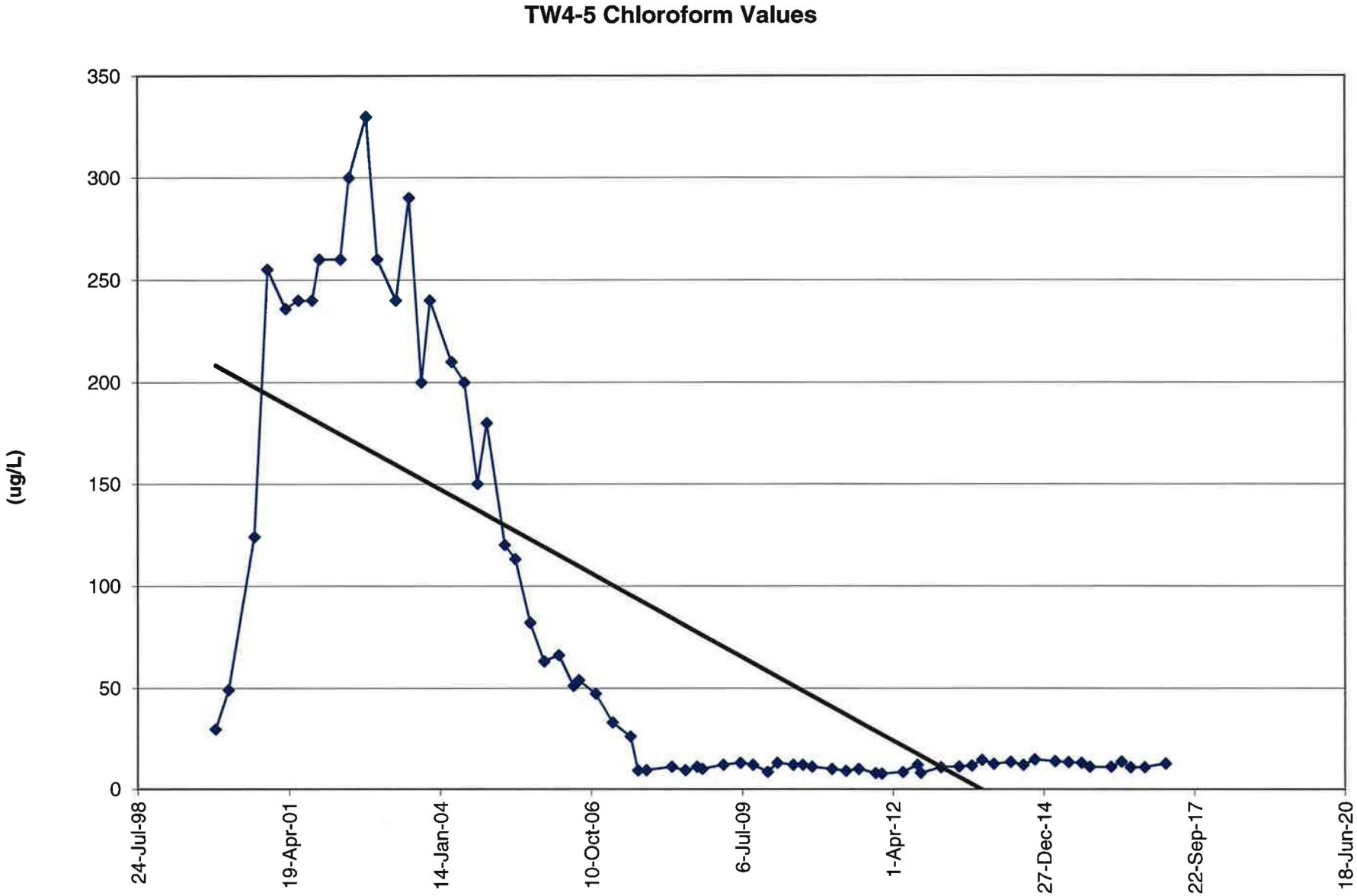
TW4-4	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
6-Jun-00	0					
2-Sep-00	0					
28-Nov-00	3.9					
28-Mar-01	2260				1.02	
20-Jun-01	3100				14.5	
20-Sep-01	3200				14	
8-Nov-01	2900				14.8	
26-Mar-02	3400				15	
22-May-02	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
8-Mar-17	1290	ND	ND	ND	6.87	41.7


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
18-Jun-20

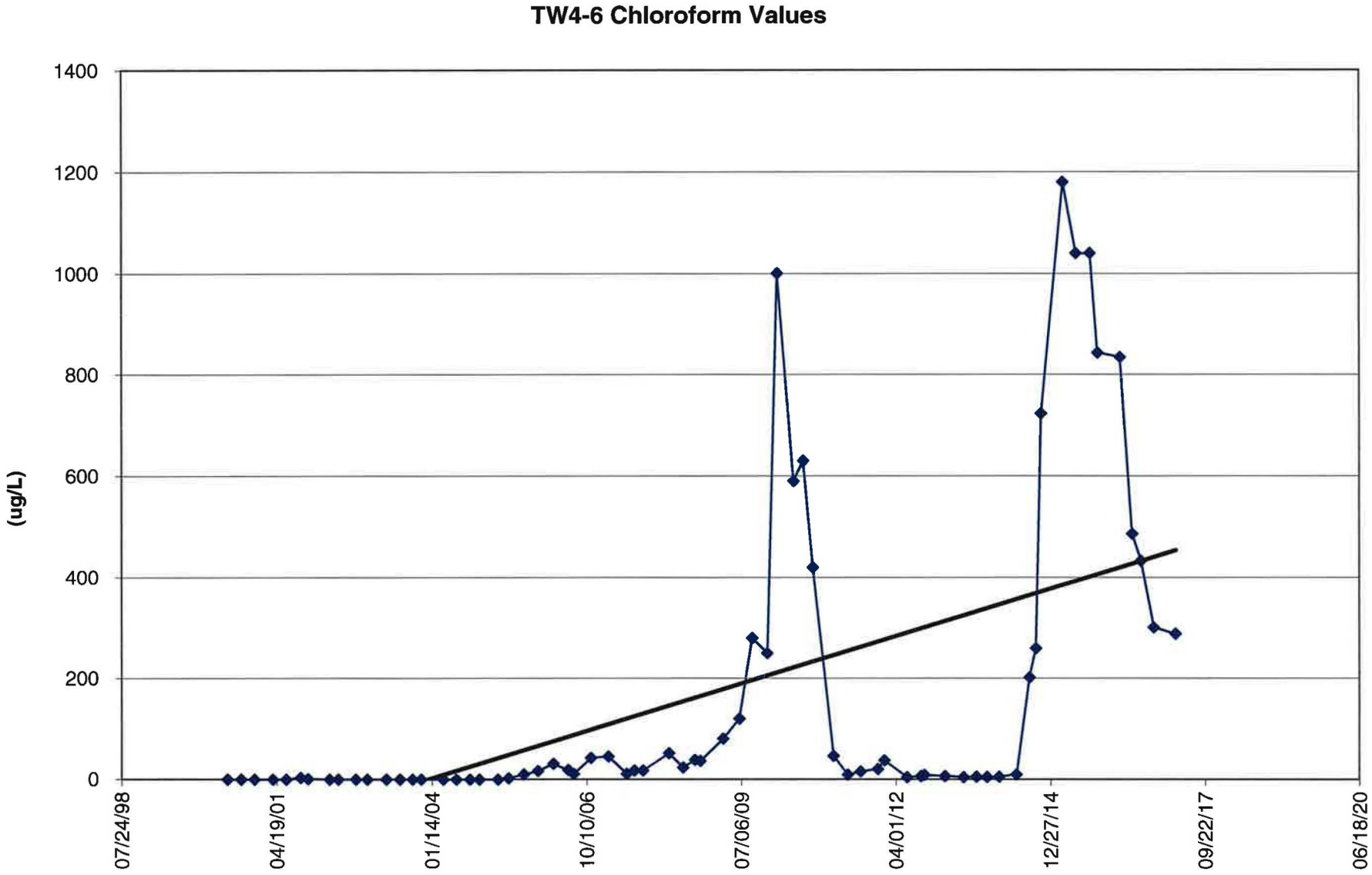
TW4-5	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
20-Dec-99	29.5					
15-Mar-00	49.0					
2-Sep-00	124					
29-Nov-00	255					
28-Mar-01	236					
20-Jun-01	240					
20-Sep-01	240					
7-Nov-01	260					
26-Mar-02	260					
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
15-Mar-17	12.6	ND	ND	ND	8.49	44.7


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
18-Jun-20

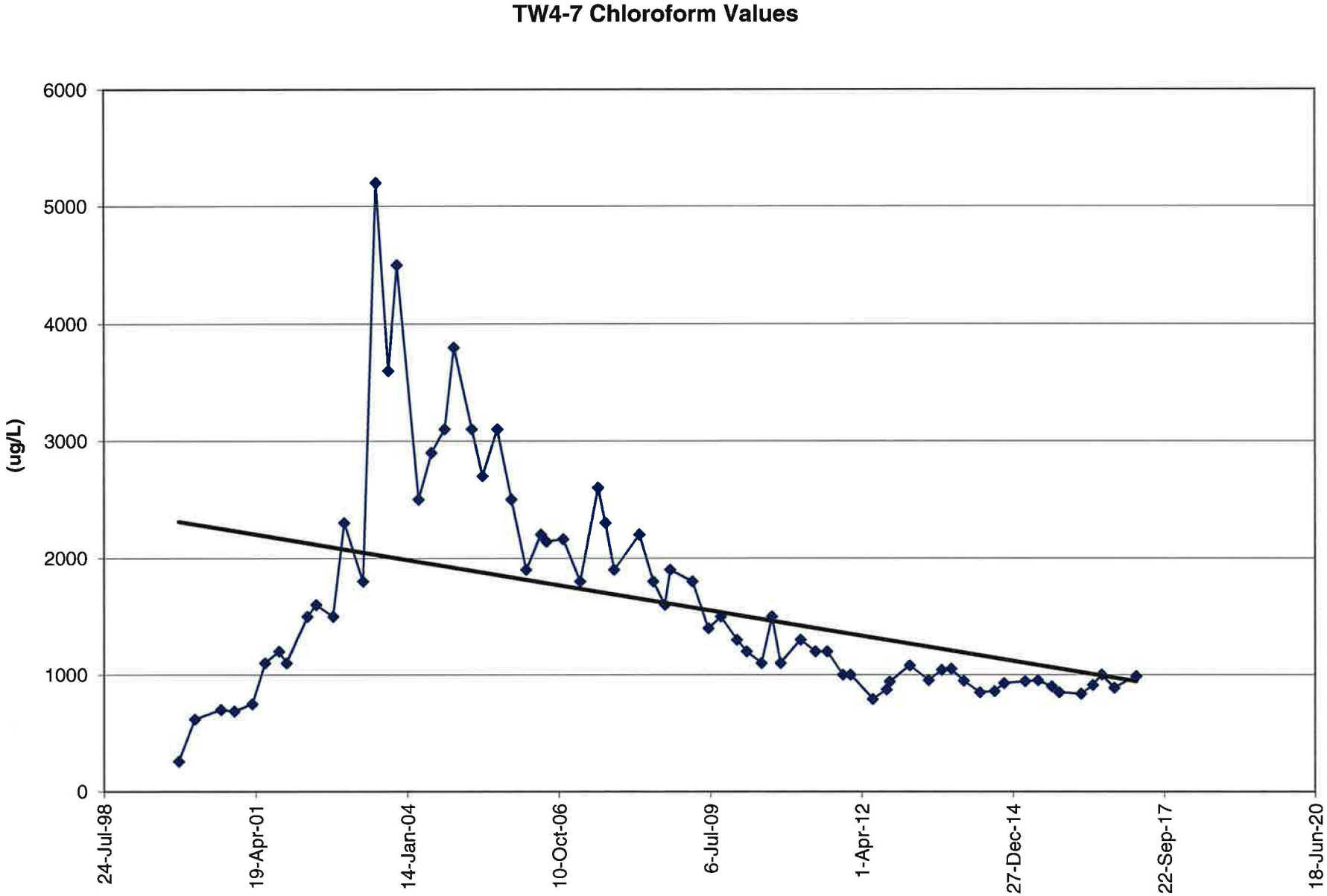
TW4-6	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
6-Jun-00	0					
2-Sep-00	0					
28-Nov-00	0				ND	
26-Mar-01	0				0.13	
20-Jun-01	0				ND	
20-Sep-01	4				ND	
7-Nov-01	1				ND	
26-Mar-02	0				ND	
21-May-02	0				ND	
12-Sep-02	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
16-Mar-17	288.0	ND	ND	ND	3.15	42.1


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
06/18/20

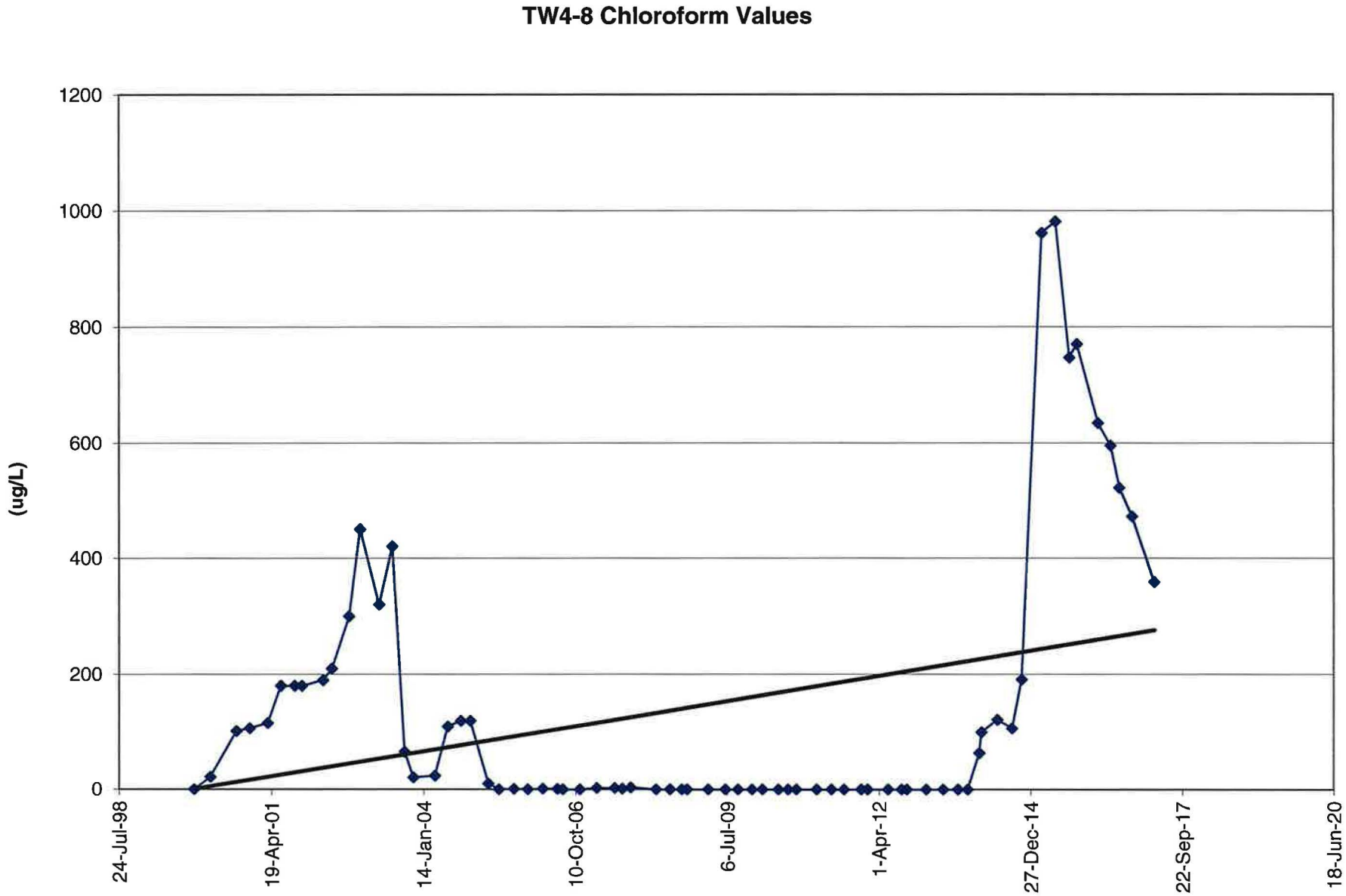
TW4-7	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
29-Nov-99	256					
15-Mar-00	616					
2-Sep-00	698					
29-Nov-00	684				1.99	
28-Mar-01	747				2.46	
20-Jun-01	1100				2.65	
20-Sep-01	1200				3.38	
8-Nov-01	1100				2.5	
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
21-Mar-17	986	ND	ND	ND	3.87	40.5


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
18-Jun-20

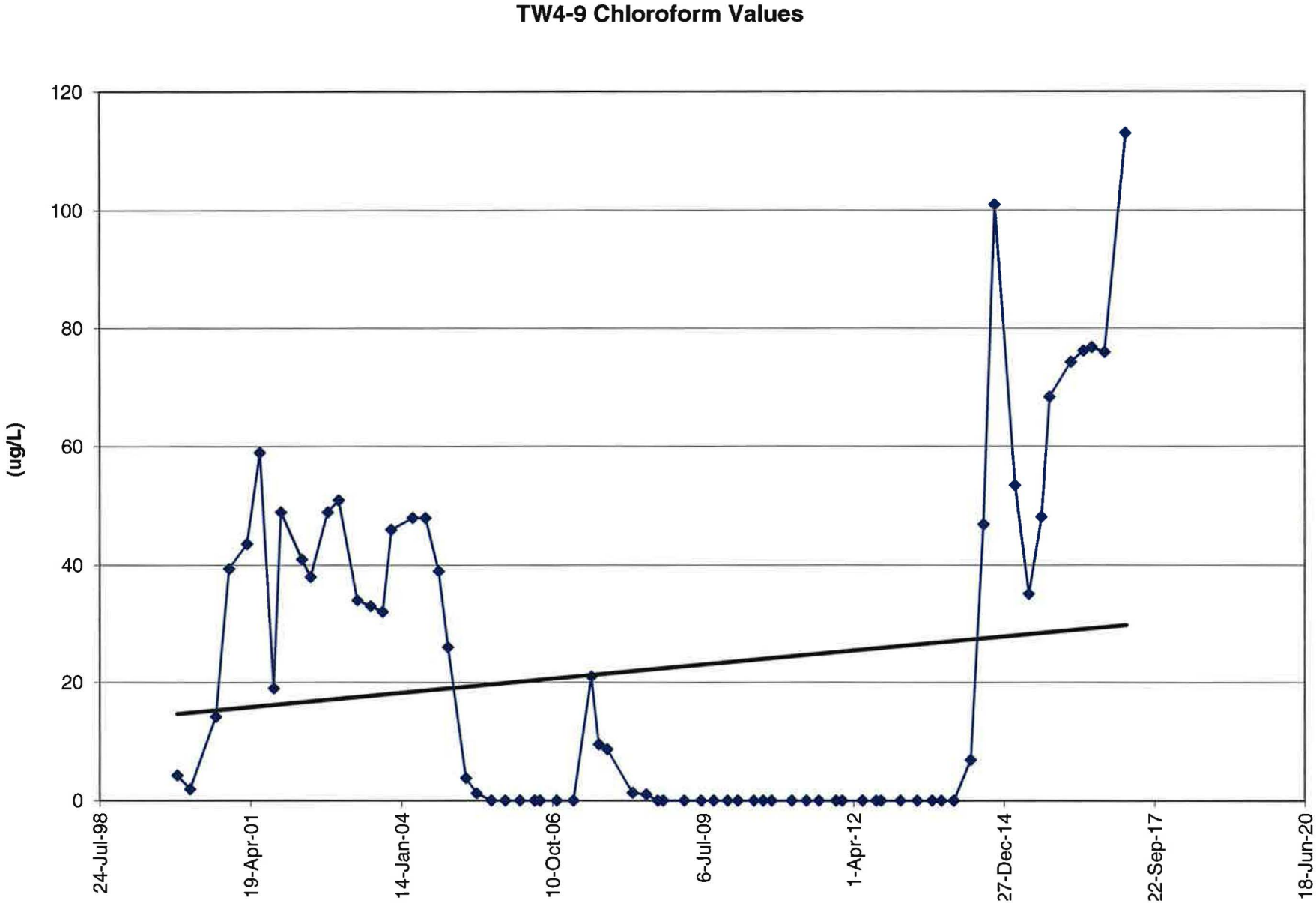
TW4-8	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
29-Nov-99	0					
15-Mar-00	21.8					
2-Sep-00	102					
29-Nov-00	107				ND	
26-Mar-01	116				ND	
20-Jun-01	180				ND	
20-Sep-01	180				0.35	
7-Nov-01	180				ND	
26-Mar-02	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
21-Mar-17	359	ND	ND	ND	2.06	57.4


TW4-8 Chloroform Values
(ug/L)
1200
1000
800
600
400
200
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
18-Jun-20

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

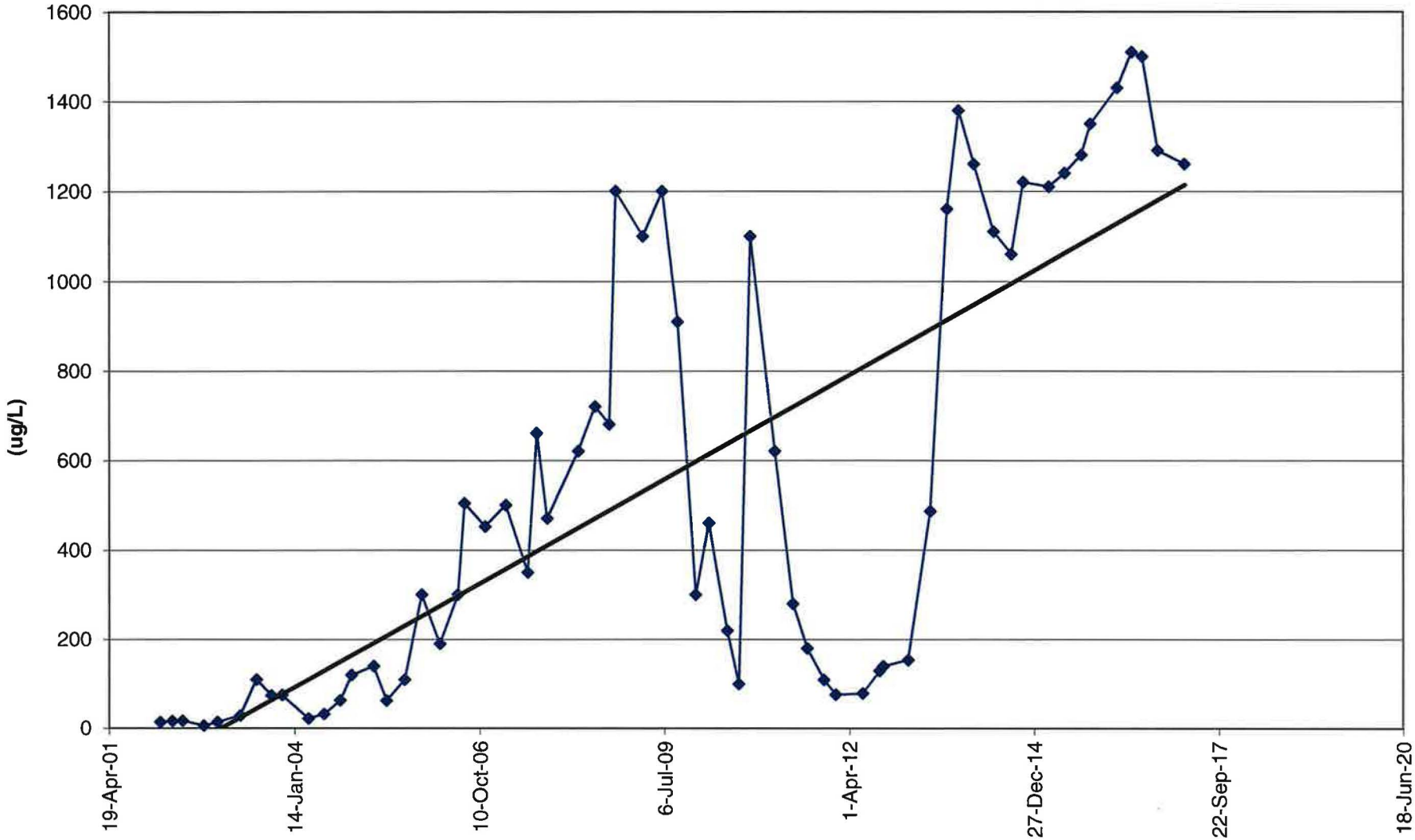
TW4-9	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
17-Dec-09	<1	<1	<1	<1	1.7	37
23-Feb-10	<1	<1	<1	<1	1.7	47
9-Jun-10	<1	<1	<1	<1	1.5	33
11-Aug-10	<1	<1	<1	<1	1.2	40
6-Oct-10	<1	<1	<1	<1	1.8	34
17-Feb-11	ND	ND	ND	ND	1.3	41
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
16-Mar-17	113.0	ND	ND	ND	2.18	34.5


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
18-Jun-20

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

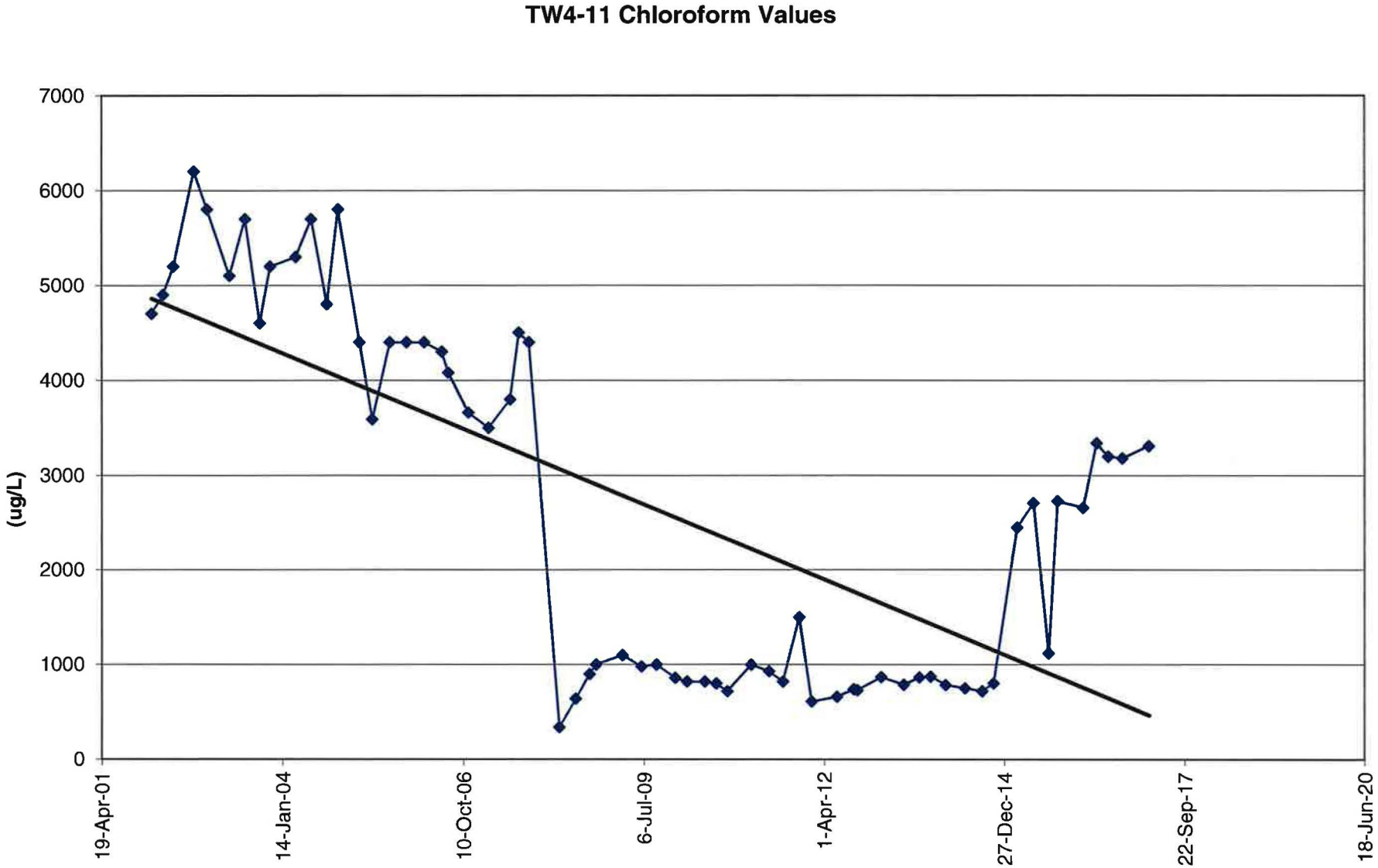
TW4-10	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
17-Aug-11	180	ND	ND	ND	1.9	41
16-Nov-11	110	ND	ND	ND	1.1	45
19-Jan-12	76	ND	ND	ND	0.9	40
13-Jun-12	79	ND	ND	ND	0.8	46
12-Sep-12	130	ND	ND	ND	1.0	44
3-Oct-12	140	ND	ND	ND	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
21-Mar-17	1260	ND	ND	ND	13.0	74.6

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

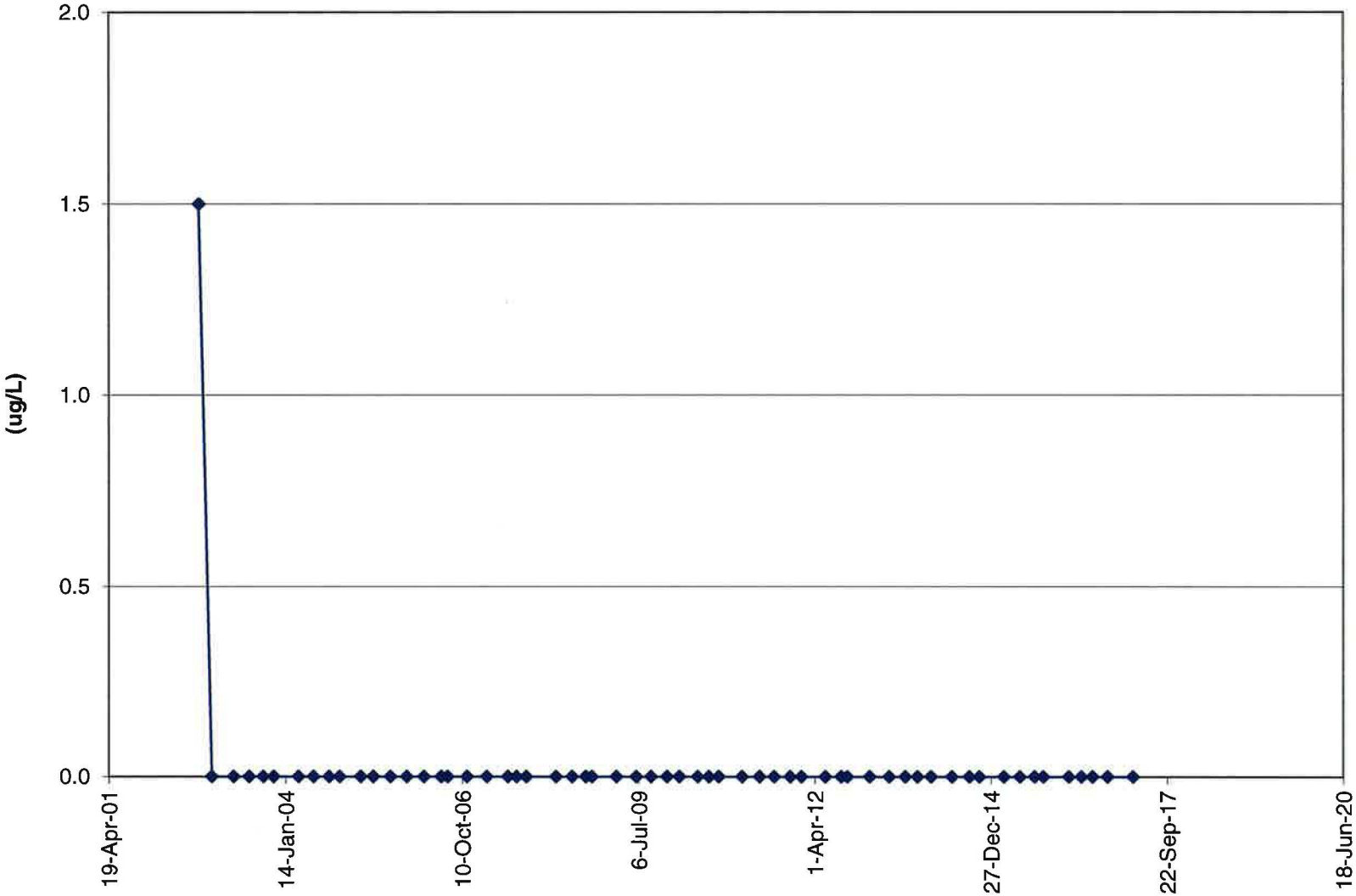
TW4-11	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
17-Aug-11	820	ND	ND	ND	7.1	48
16-Nov-11	1500	ND	ND	ND	7.1	46
24-Jan-12	610	ND	ND	ND	6.8	43
13-Jun-12	660	ND	ND	ND	6.7	52
13-Sep-12	740	ND	ND	ND	3	49
4-Oct-12	730	ND	ND	ND	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
8-Mar-17	3310	1.71	ND	ND	8.12	49.8


TW4-11 Chloroform Values
(ug/L)
7000
6000
5000
4000
3000
2000
1000
0
19-Apr-01
14-Jan-04
10-Oct-06
6-Jul-09
1-Apr-12
27-Dec-14
22-Sep-17
18-Jun-20

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

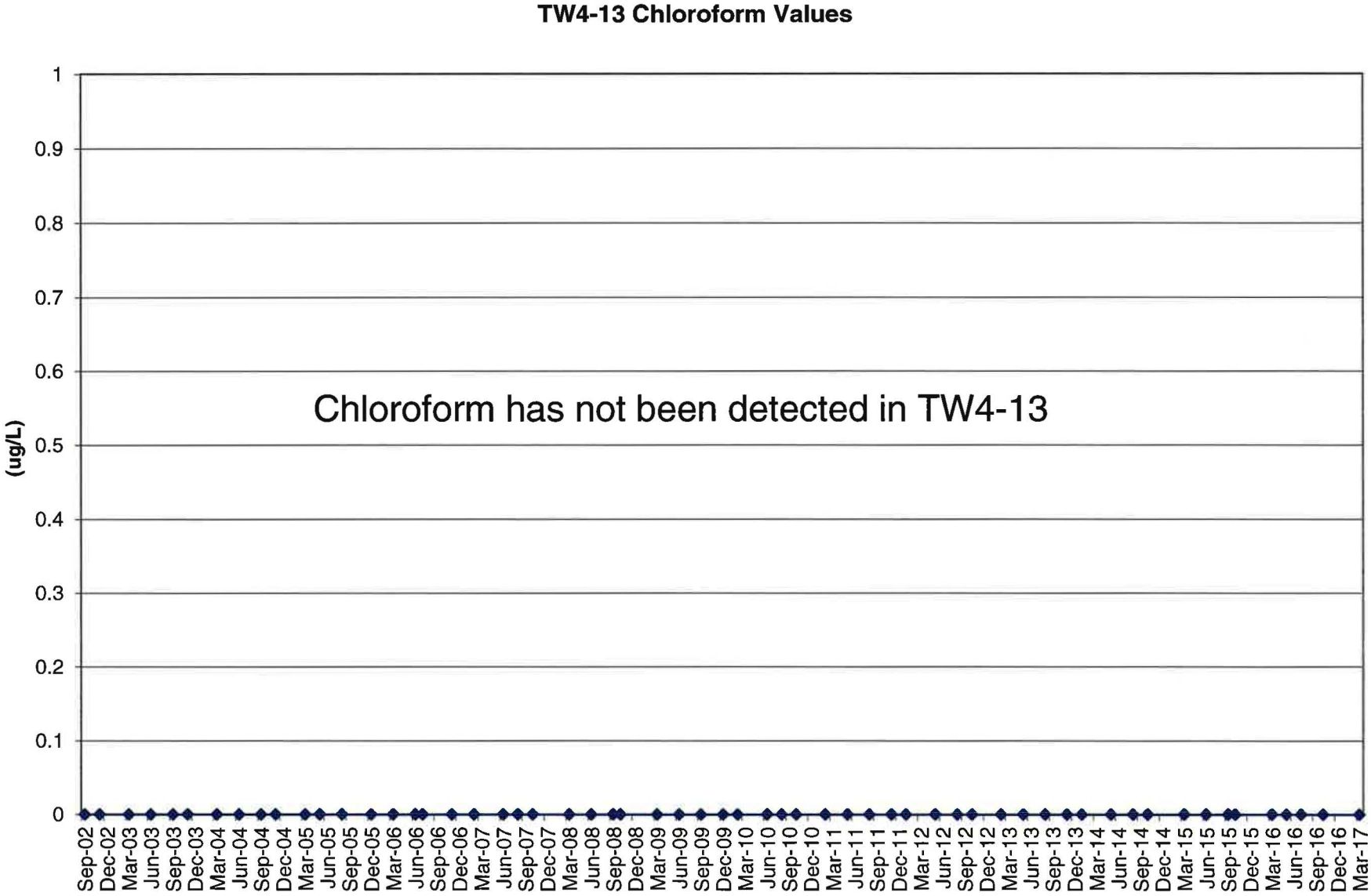
TW4-12	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
31-May-12	ND	ND	ND	ND	10	34
29-Aug-12	ND	ND	ND	ND	13	39
3-Oct-12	ND	ND	ND	ND	13	39
7-Feb-13	ND	ND	ND	ND	12.6	36.7
29-May-13	ND	ND	ND	ND	14.2	38.6
29-Aug-13	ND	ND	ND	ND	17.4	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
14-Mar-17	ND	ND	ND	ND	25.9	62.6

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				0.20	
23-Jun-03	ND				0.20	
12-Sep-03	ND				ND	
9-Nov-03	ND				0.90	
29-Mar-04	ND				0.12	
22-Jun-04	ND				0.17	
17-Sep-04	ND				4.43	
17-Nov-04	ND				4.70	
16-Mar-05	ND				4.20	
25-May-05	<1	NA	NA	NA	4.30	NA
31-Aug-05	<1	<1	3.1	<1	4.60	NA
1-Dec-05	<1	<1	<1	<1	4.30	NA
9-Mar-06	<1	<1	1.7	<1	4.20	67.0
14-Jun-06	<1	<1	1.4	<1	4.90	66.0
20-Jul-06	<1	<1	<1	<1	4.30	65.0
8-Nov-06	<1	<1	<1	<1	0.80	33.0
28-Feb-07	<1	<1	<1	<1	4.00	59.0
27-Jun-07	<1	<1	<1	<1	4.60	59.0
15-Aug-07	<1	<1	<1	<1	4.40	58.0
10-Oct-07	<1	<1	<1	<1	4.10	58.0
26-Mar-08	<1	<1	<1	<1	3.80	54.0
25-Jun-08	<1	<1	<1	<1	4.24	58.0
10-Sep-08	<1	<1	<1	<1	4.26	50.0
15-Oct-08	<1	<1	<1	<1	4.63	58.0
4-Mar-09	<1	<1	<1	<1	3.70	58.0
24-Jun-09	<1	<1	<1	<1	1.20	57.0
15-Sep-09	<1	<1	<1	<1	4.70	63.0
16-Dec-09	<1	<1	<1	<1	4.10	60.0
24-Feb-10	<1	<1	<1	<1	4.30	53.0
8-Jun-10	<1	<1	<1	<1	5.20	52.0
10-Aug-10	<1	<1	<1	<1	5.60	55.0
5-Oct-10	<1	<1	<1	<1	5.80	55.0
15-Feb-11	ND	ND	ND	ND	5.50	60.0
25-May-11	ND	ND	ND	ND	5.40	56.0
16-Aug-11	ND	ND	ND	ND	5.20	60.0
15-Nov-11	ND	ND	ND	ND	5.90	54.0
17-Jan-12	ND	ND	ND	ND	5.50	55.0
31-May-12	ND	ND	ND	ND	6.00	59.0
29-Aug-12	ND	ND	ND	ND	6.20	60.0
3-Oct-12	ND	ND	ND	ND	5.90	60.0
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	4.80	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	5.70	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	6.20	70.9
15-Mar-17	ND	ND	ND	ND	6.05	66.0


TW4-13 Chloroform Values
(ug/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
Chloroform has not been detected in TW4-13
Sep-02
Dec-02
Mar-03
Jun-03
Sep-03
Dec-03
Mar-04
Jun-04
Sep-04
Dec-04
Mar-05
Jun-05
Sep-05
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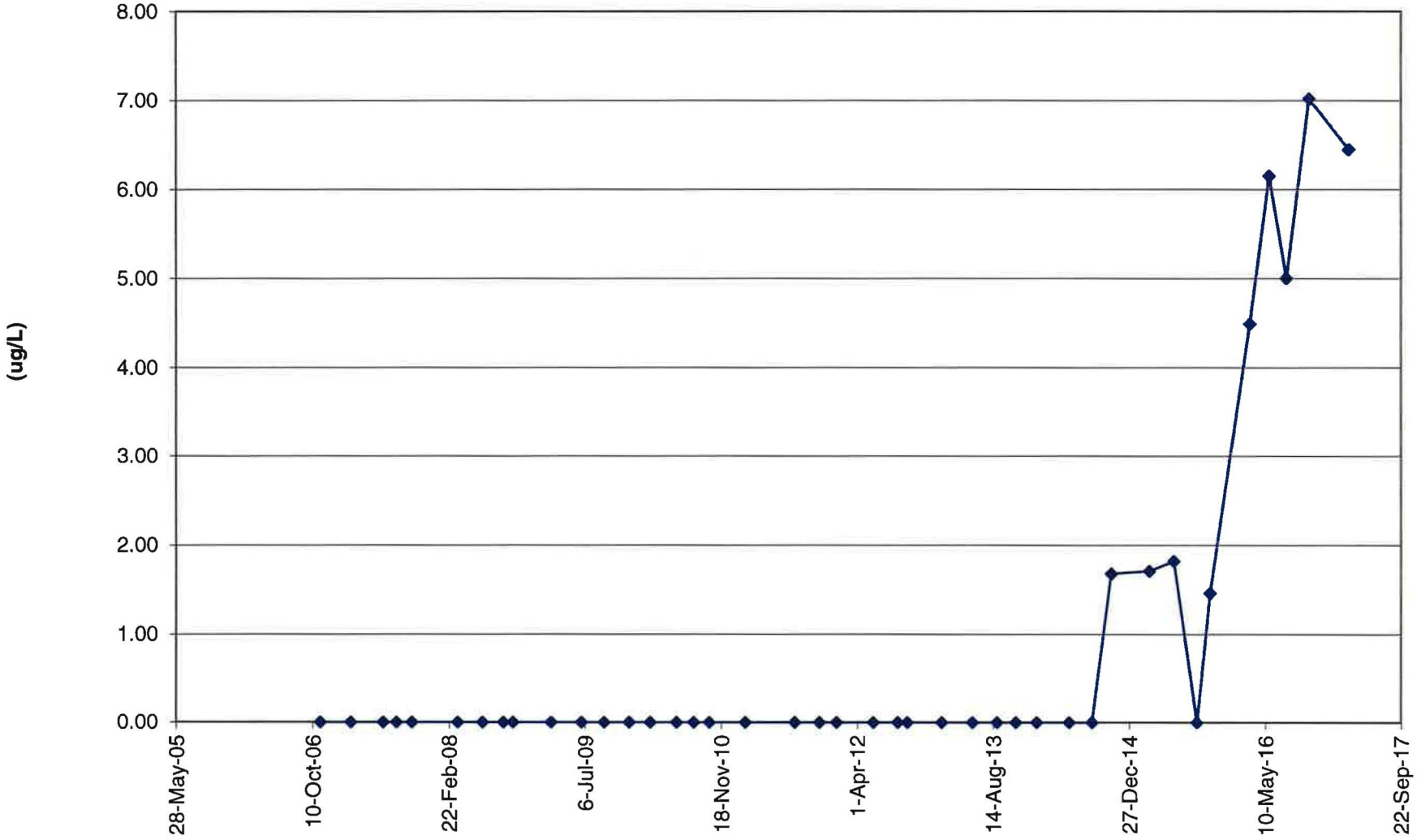
Sep-15
Dec-15
Mar-16
Jun-16
Sep-16
Dec-16
Mar-17

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	2.40	37.0
28-Feb-07	<1	<1	<1	<1	2.30	38.0
27-Jun-07	<1	<1	<1	<1	1.40	38.0
15-Aug-07	<1	<1	<1	<1	1.10	36.0
10-Oct-07	<1	<1	<1	<1	0.80	36.0
26-Mar-08	<1	<1	<1	<1	0.04	57.0
25-Jun-08	<1	<1	<1	<1	1.56	35.0
10-Sep-08	<1	<1	<1	<1	1.34	34.0
15-Oct-08	<1	<1	<1	<1	0.76	40.0
4-Mar-09	<1	<1	<1	<1	1.60	35.0
24-Jun-09	<1	<1	<1	<1	1.40	36.0
15-Sep-09	<1	<1	<1	<1	1.50	38.0
16-Dec-09	<1	<1	<1	<1	1.40	34.0
3-Mar-10	<1	<1	<1	<1	2.50	33.0
8-Jun-10	<1	<1	<1	<1	2.90	49.0
10-Aug-10	<1	<1	<1	<1	2.80	35.0
6-Oct-10	<1	<1	<1	<1	2.90	29.0
15-Feb-11	ND	ND	ND	ND	1.80	25.0
16-Aug-11	ND	ND	ND	ND	2.60	33.0
15-Nov-11	ND	ND	ND	ND	1.70	15.0
17-Jan-12	ND	ND	ND	ND	1.90	20.0
31-May-12	ND	ND	ND	ND	3.30	35.0
29-Aug-12	ND	ND	ND	ND	3.90	37.0
3-Oct-12	ND	ND	ND	ND	4.20	37.0
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	4.10	38.0
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

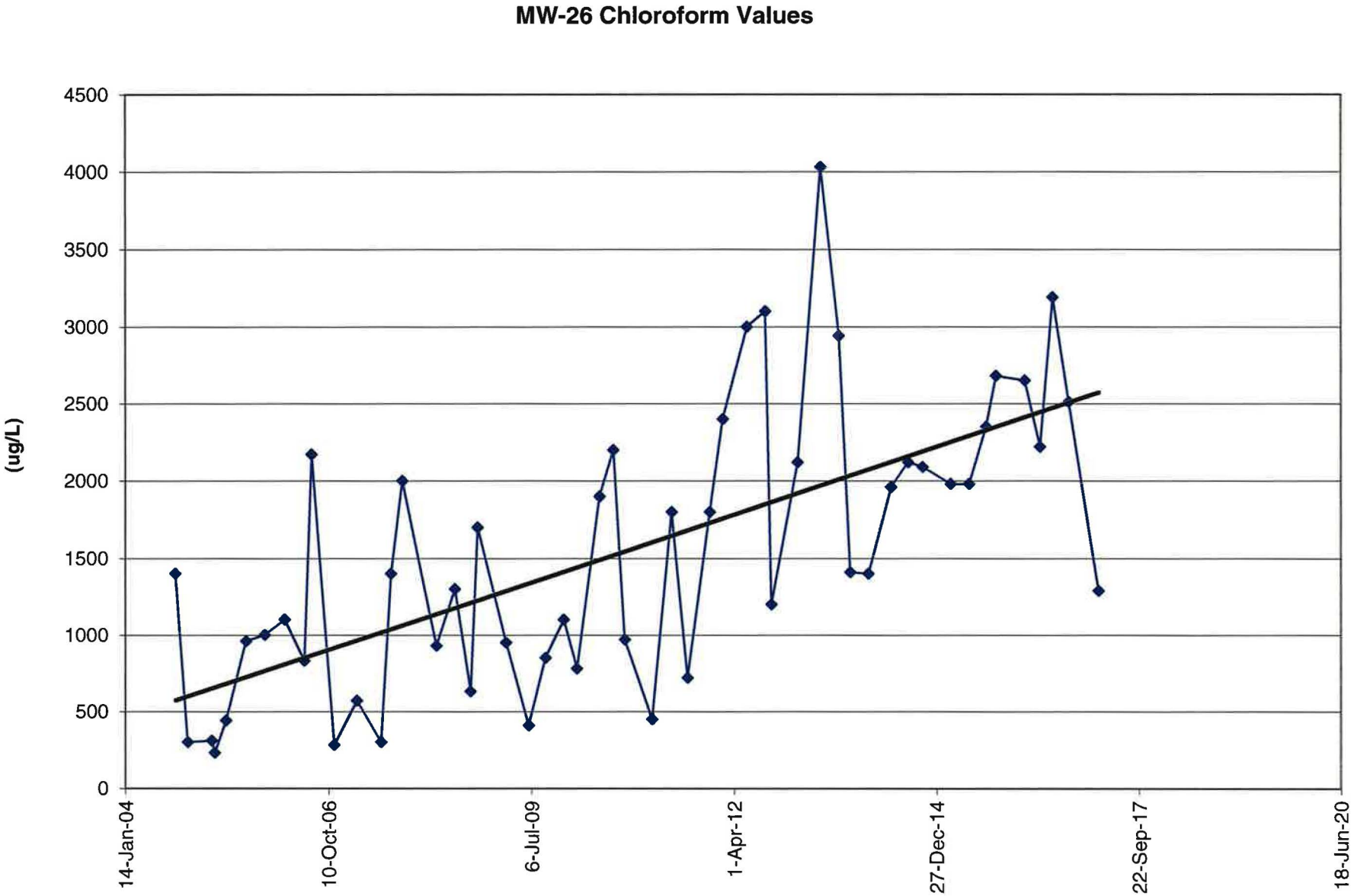
TW4-14	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
20-Oct-16	7.02	ND	ND	1.59	2.86	45.6
15-Mar-17	6.45	ND	ND	ND	4.36	45.4

TW4-14 Chloroform Values



MW-26	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
12-Sep-02	3				ND	
24-Nov-02	0				ND	
28-Mar-03	0				0.1	
23-Jun-03	7800				14.5	
15-Aug-03	7400				16.8	
12-Sep-03	2500				2.7	
25-Sep-03	2600				2.5	
29-Oct-03	3100				3.1	
8-Nov-03	3000				2.8	
29-Mar-04	NA				NA	
22-Jun-04	NA				NA	
17-Sep-04	1400				0.53	
17-Nov-04	300				0.2	
16-Mar-05	310				0.3	
30-Mar-05	230				0.2	
25-May-05	442	NA	NA	NA	0.2	NA
31-Aug-05	960	<5	5.4	<5	0.2	NA
1-Dec-05	1000	<50	<50	<50	0.3	NA
9-Mar-06	1100	<50	<50	<50	0.2	52
14-Jun-06	830	<50	<50	<50	0.2	52
20-Jul-06	2170	<50	<50	<50	1.4	65
8-Nov-06	282	<1	<1	2.8	0.3	54
28-Feb-07	570	<1	<1	5.5	0.5	56
27-Jun-07	300	<1	<1	13	0.4	49
15-Aug-07	1400	<1	<1	36	1	57
10-Oct-07	2000	<1	<1	14	0.6	57
26-Mar-08	930	<1	<1	40	0.1	49
25-Jun-08	1300	<1	<1	53	0.56	57
10-Sep-08	630	<1	<1	24	0.24	44
15-Oct-08	1700	<1	<1	100	0.65	64
4-Mar-09	950	<1	<1	51	0.4	49
24-Jun-09	410	<1	<1	12	0.2	48
15-Sep-09	850	<1	<1	30	0.1	46
14-Dec-09	1100	<1	<1	40	2.3	60
17-Feb-10	780	<1	<1	19	0.2	57
9-Jun-10	1900	<1	<1	28	1.1	58
16-Aug-10	2200	<1	<1	21	0.6	49
11-Oct-10	970	<1	<1	6.5	0.7	65
23-Feb-11	450	ND	ND	3.6	0.5	57

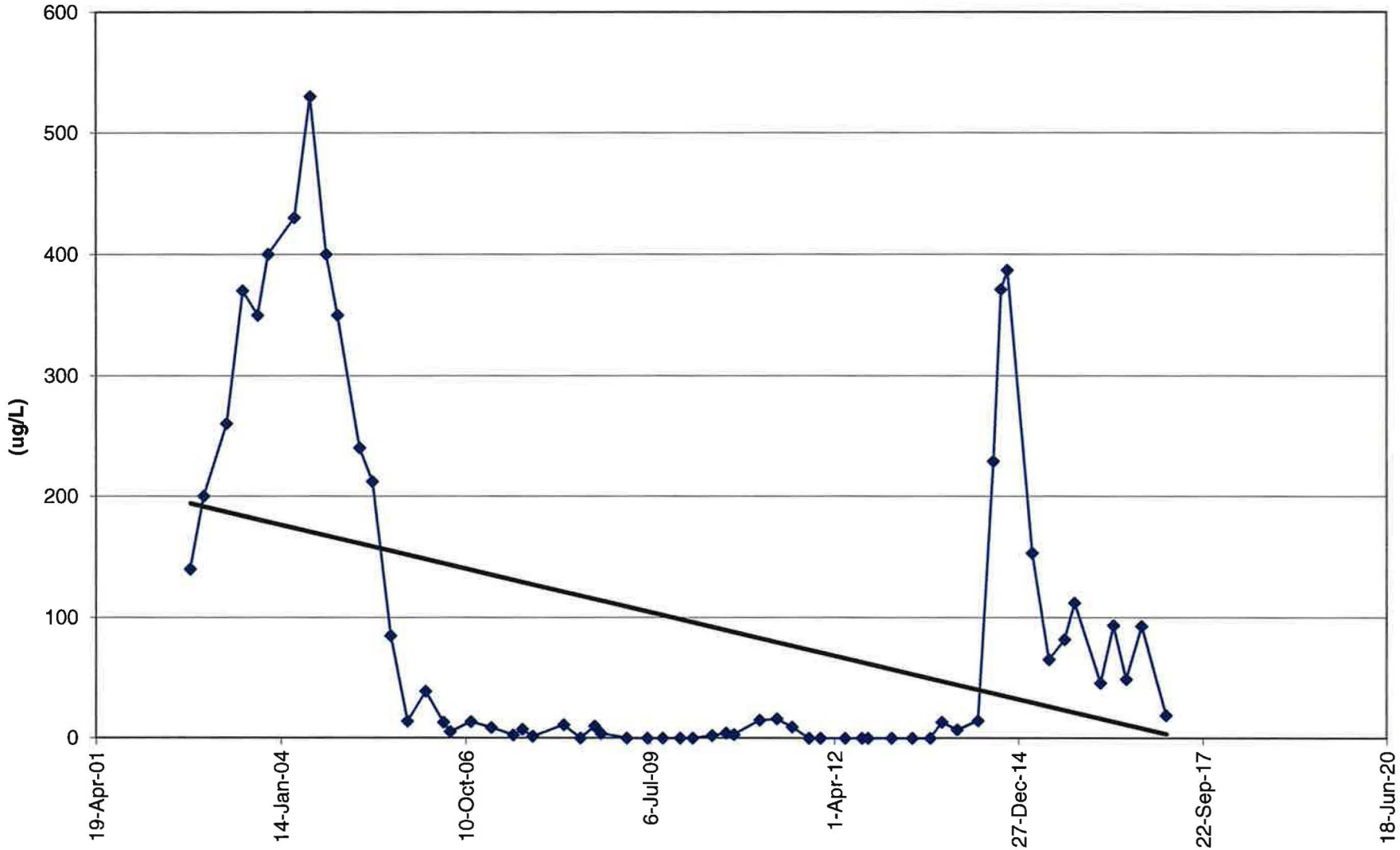
MW-26	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
31-May-11	1800	ND	ND	1.3	0.4	88
17-Aug-11	720	ND	ND	7.2	0.9	58
5-Dec-11	1800	ND	ND	2.9	2	69
7-Feb-12	2400	ND	ND	16	1.7	98
6-Jun-12	3000	ND	ND	21	2.5	73
4-Sep-12	3100	ND	ND	31	2.6	73
4-Oct-12	1200	ND	ND	4	1.8	68
11-Feb-13	2120	ND	ND	9.34	2.27	81.9
5-Jun-13	4030	ND	ND	52.4	2.11	77.9
3-Sep-13	2940	ND	ND	33.2	1.18	60.5
29-Oct-13	1410	ND	ND	4.03	1.38	72.3
27-Jan-14	1400	ND	ND	13.8	0.549	59.4
19-May-14	1960	ND	ND	15.4	0.928	53.4
11-Aug-14	2120	ND	8.7	26	0.7	59
21-Oct-14	2090	ND	ND	23.2	0.934	60.1
9-Mar-15	1980	ND	ND	27.4	0.732	56.5
8-Jun-15	1980	ND	ND	11.2	0.419	62
31-Aug-15	2350	ND	4.05	11.6	0.684	69.6
19-Oct-15	2680	ND	1.32	8.28	0.991	62.6
9-Mar-16	2650	ND	1.32	4.66	1.45	68.3
23-May-16	2220	ND	ND	4.57	1.12	66.2
25-Jul-16	3190	ND	ND	7.81	1.57	66.4
12-Oct-16	2510	ND	ND	4.31	1.18	66.2
8-Mar-17	1290	ND	ND	7.65	0.768	58.4


MW-26 Chloroform Values
(ug/L)
4500
4000
3500
3000
2500
2000
1500
1000
500
0
14-Jan-04
10-Oct-06
6-Jul-09
1-Apr-12
27-Dec-14
22-Sep-17
18-Jun-20

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
8-Mar-17	19.1	ND	ND	ND	2.75	62.2

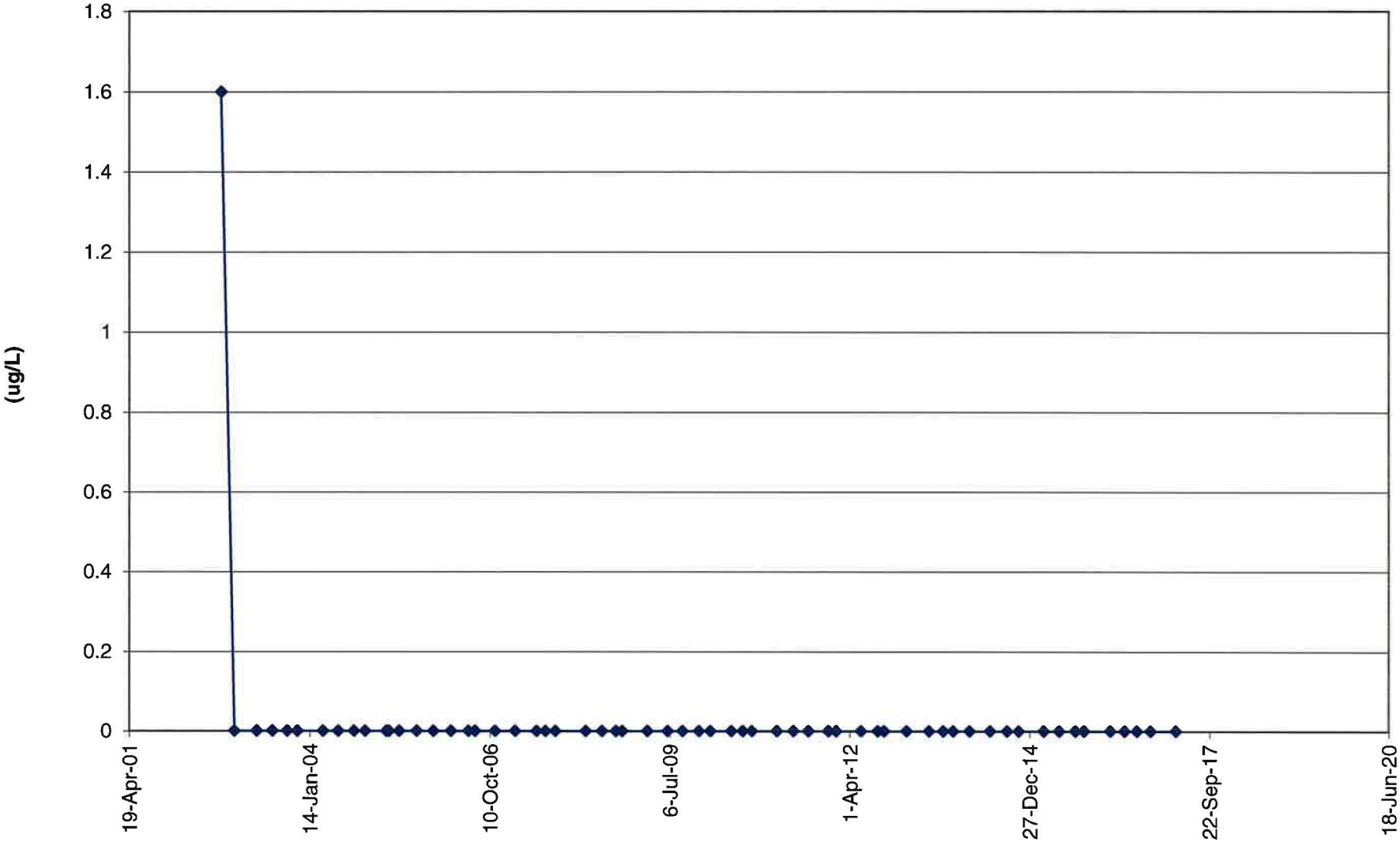
TW4-16 Chloroform Values



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
21-Mar-17	ND	ND	ND	ND	ND	33.7

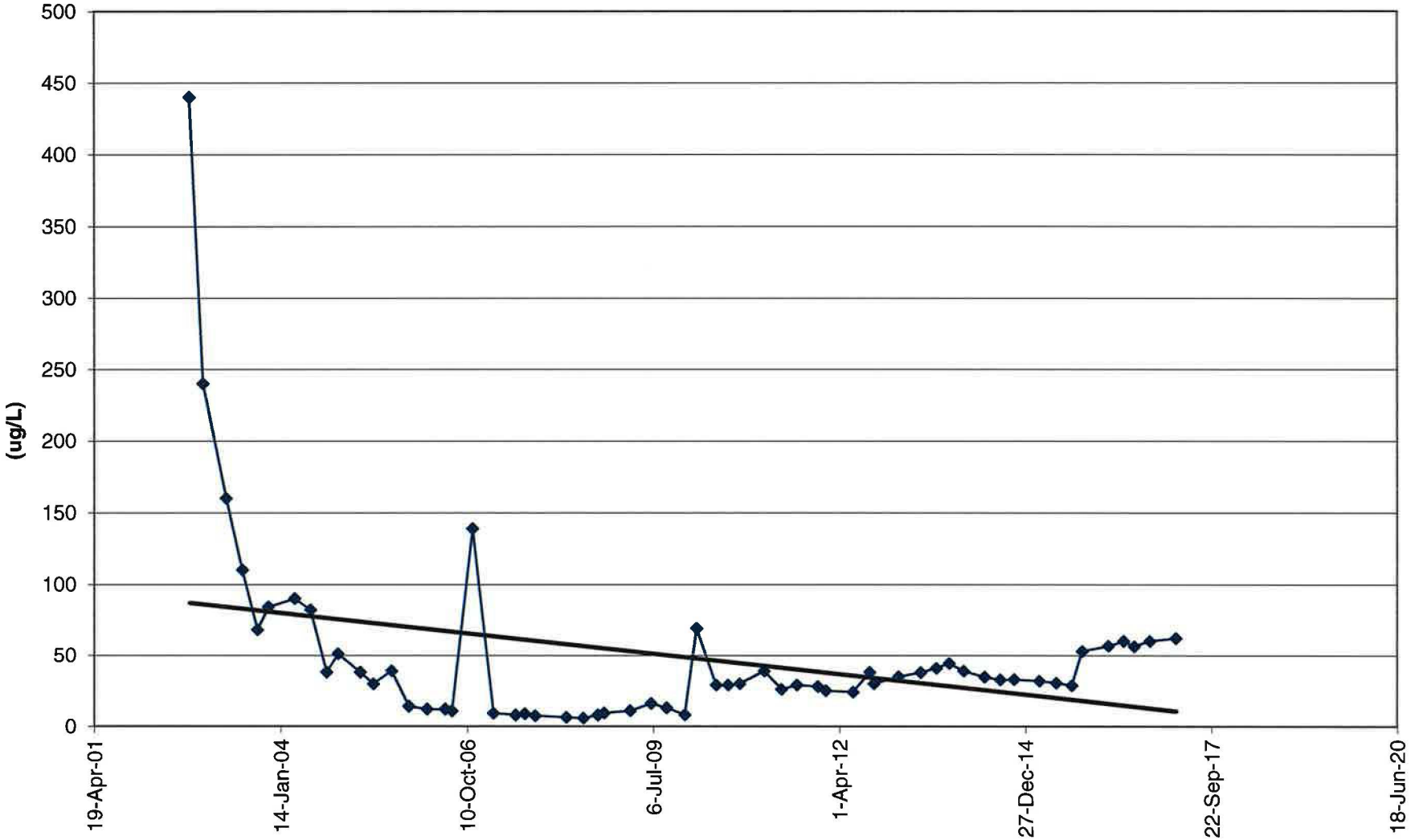
MW-32 Chloroform Values



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

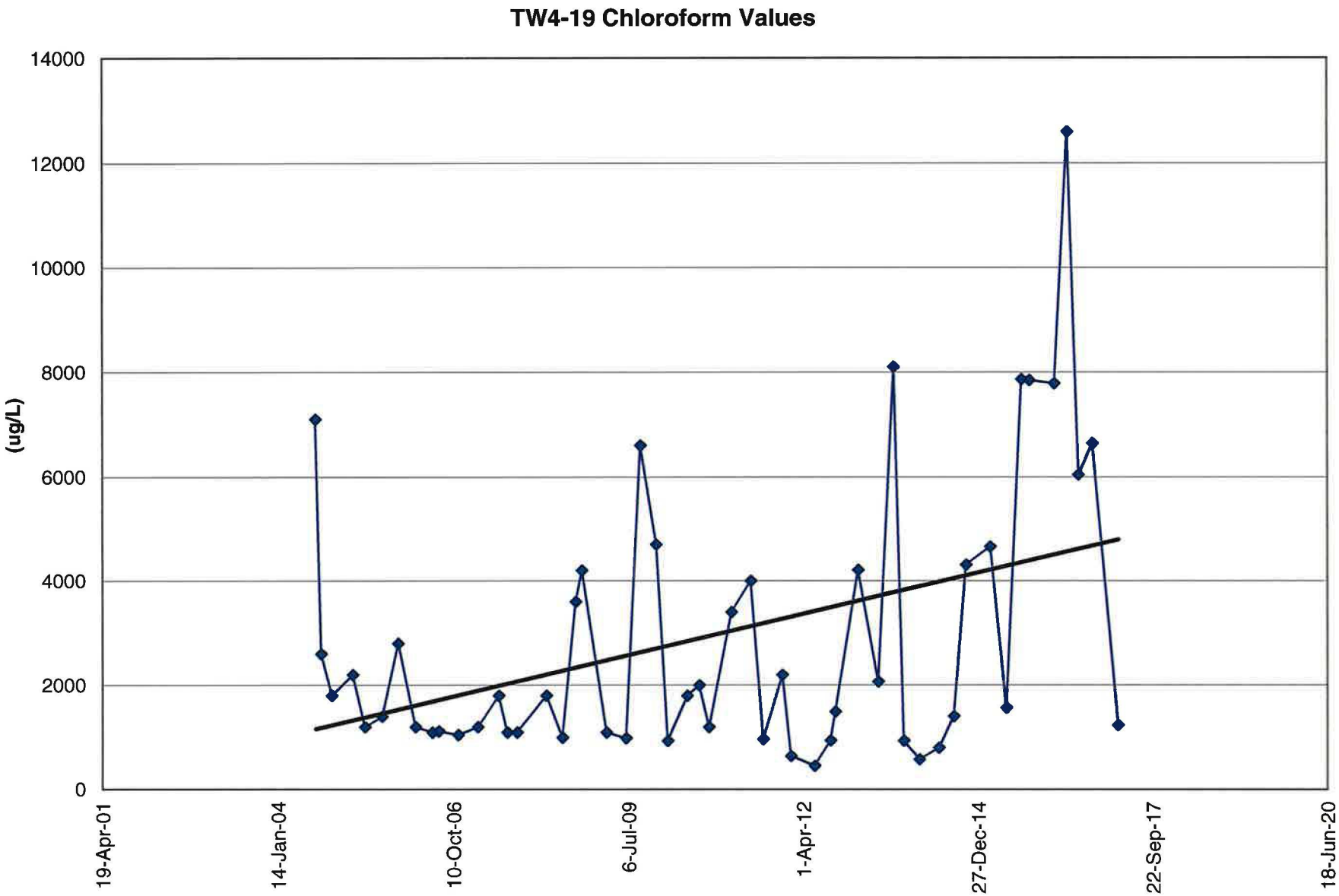
TW4-18	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
13-Jun-12	24.0	ND	ND	ND	6.6	30
11-Sep-12	38.0	ND	ND	ND	6.6	26
3-Oct-12	30.0	ND	ND	ND	6	27
13-Feb-13	34.9	ND	ND	ND	5.58	23.1
13-Jun-13	37.9	ND	ND	ND	8.86	22.9
5-Sep-13	41.0	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
16-Mar-17	62.0	ND	ND	ND	4.47	39.4

TW4-18 Chloroform Values



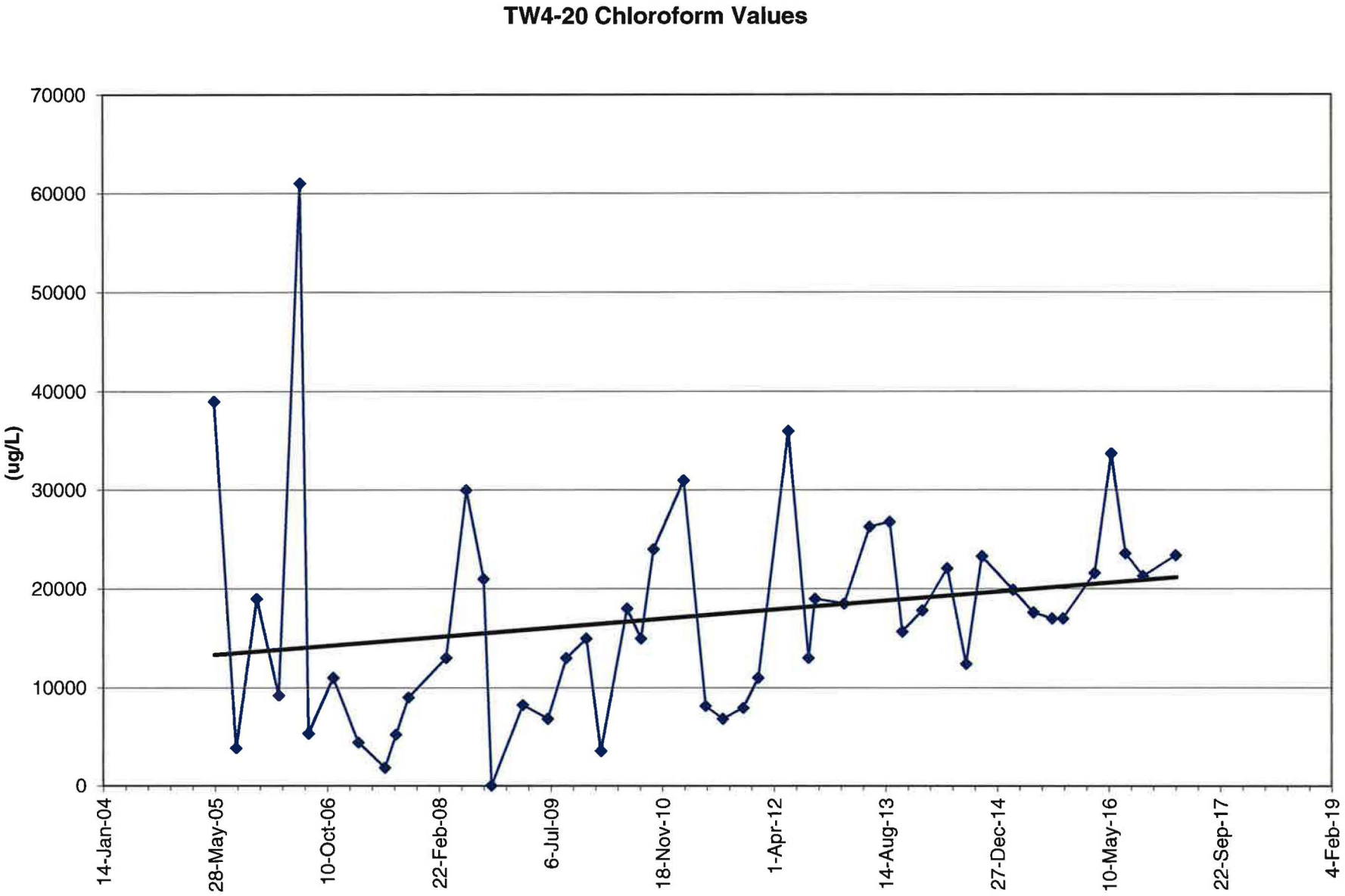
TW4-19	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
12-Sep-02	7700				47.6	
24-Nov-02	5400				42	
28-Mar-03	4200				61.4	
15-May-03	4700				NA	
23-Jun-03	4500				11.4	
15-Jul-03	2400				6.8	
15-Aug-03	2600				4	
12-Sep-03	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
8-Mar-17	1240	3.06	ND	ND	11.1	461


TW4-19 Chloroform Values
14000
12000
10000
8000
6000
4000
2000
0
(ug/L)
19-Apr-01
14-Jan-04
10-Oct-06
6-Jul-09
1-Apr-12
27-Dec-14
22-Sep-17
18-Jun-20

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

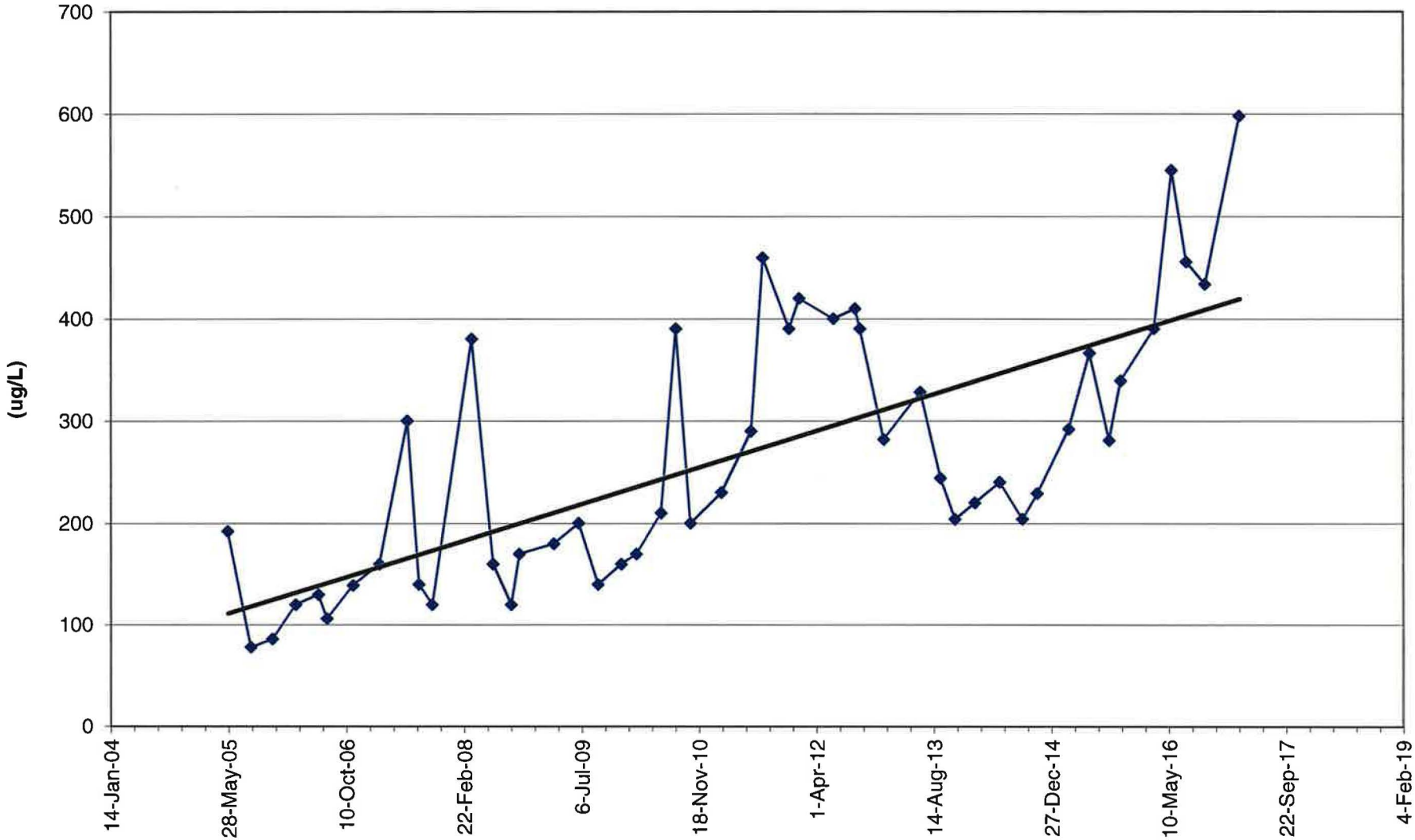
TW4-20	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
9-Mar-15	19900	20.8	4.85	1.38	9.8	290
8-Jun-15	17600	16.2	13.4	1.73	5.76	296
31-Aug-15	17000	15.1	12.3	ND	9.27	365
19-Oct-15	17000	14.5	10.8	1	6.23	293
9-Mar-16	21600	20.2	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
8-Mar-17	23400	23.5	ND	ND	12	290


TW4-20 Chloroform Values
(ug/L)
70000
60000
50000
40000
30000
20000
10000
0
14-Jan-04
28-May-05
10-Oct-06
22-Feb-08
6-Jul-09
18-Nov-10
1-Apr-12
14-Aug-13
27-Dec-14
10-May-16
22-Sep-17
4-Feb-19

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

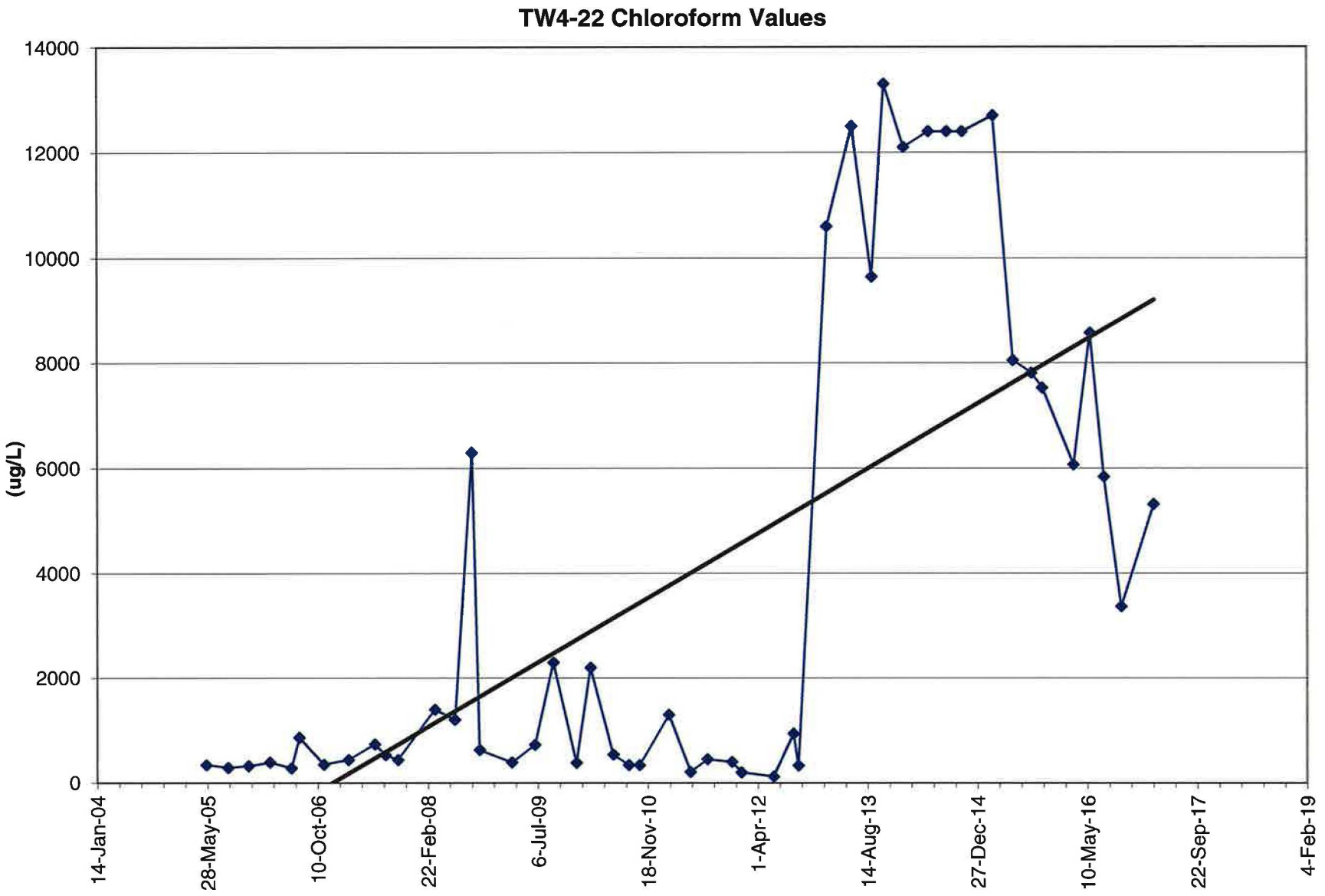
TW4-21	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
12-Mar-15	292	1.75	ND	ND	10.9	255
8-Jun-15	366	1.92	ND	ND	13.1	494
31-Aug-15	281	ND	ND	ND	14.7	499
19-Oct-15	339	ND	ND	ND	14.3	413
9-Mar-16	390	ND	ND	ND	14.6	452
23-May-16	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
12-Oct-16	434	ND	ND	ND	11.4	301
8-Mar-17	598	2.36	ND	ND	12.0	290

TW4-21 Chloroform Values



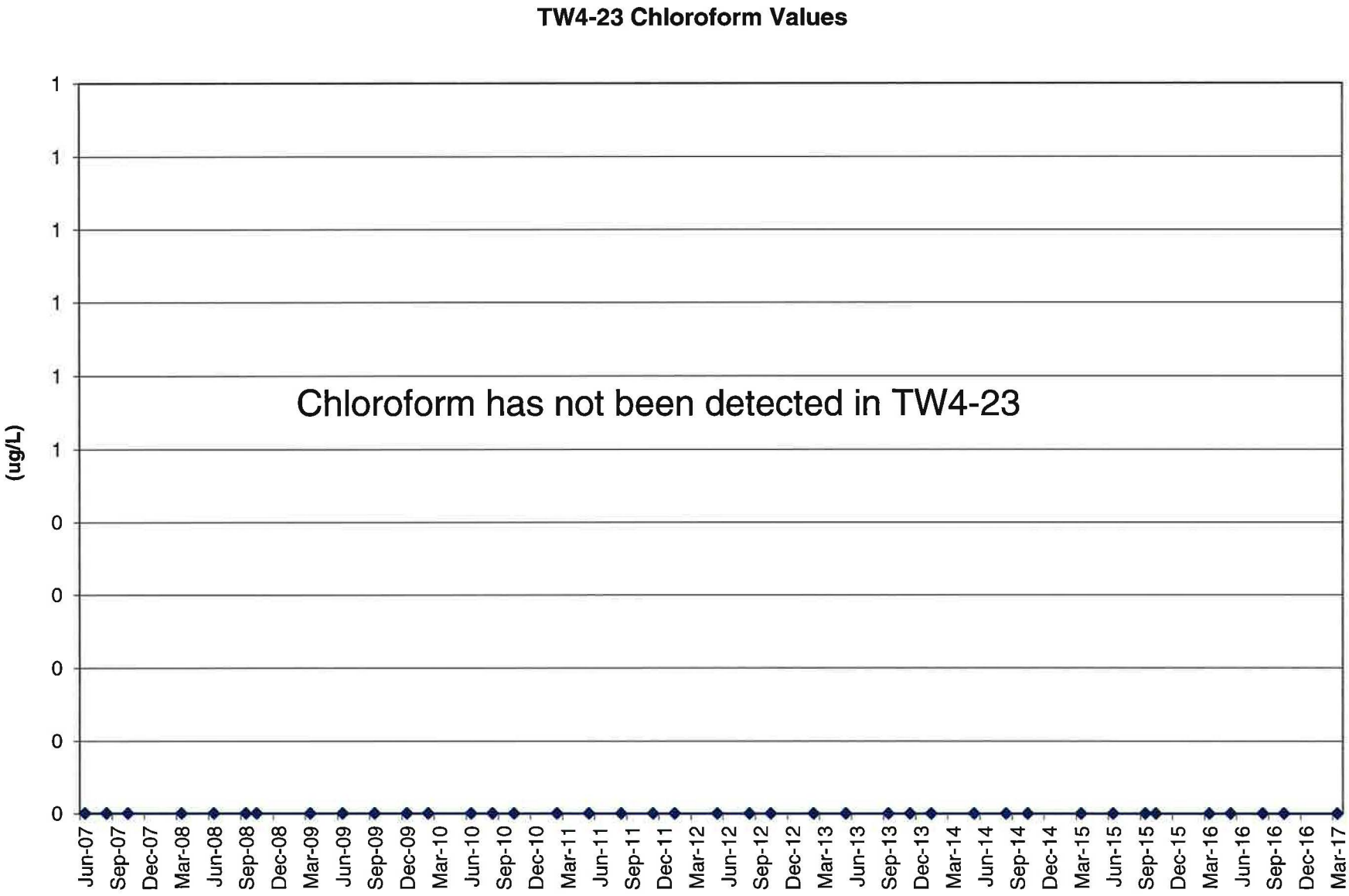
TW4-22	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
25-May-05	340	NA	NA	NA	18.2	NA
31-Aug-05	290	<5	<5	<5	15.7	NA
1-Dec-05	320	<5	<5	<5	15.1	NA
9-Mar-06	390	<10	<10	<10	15.3	236
14-Jun-06	280	<10	<10	<10	14.3	221
20-Jul-06	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
8-Mar-17	5320	1.56	ND	ND	69.8	566


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
4-Feb-19

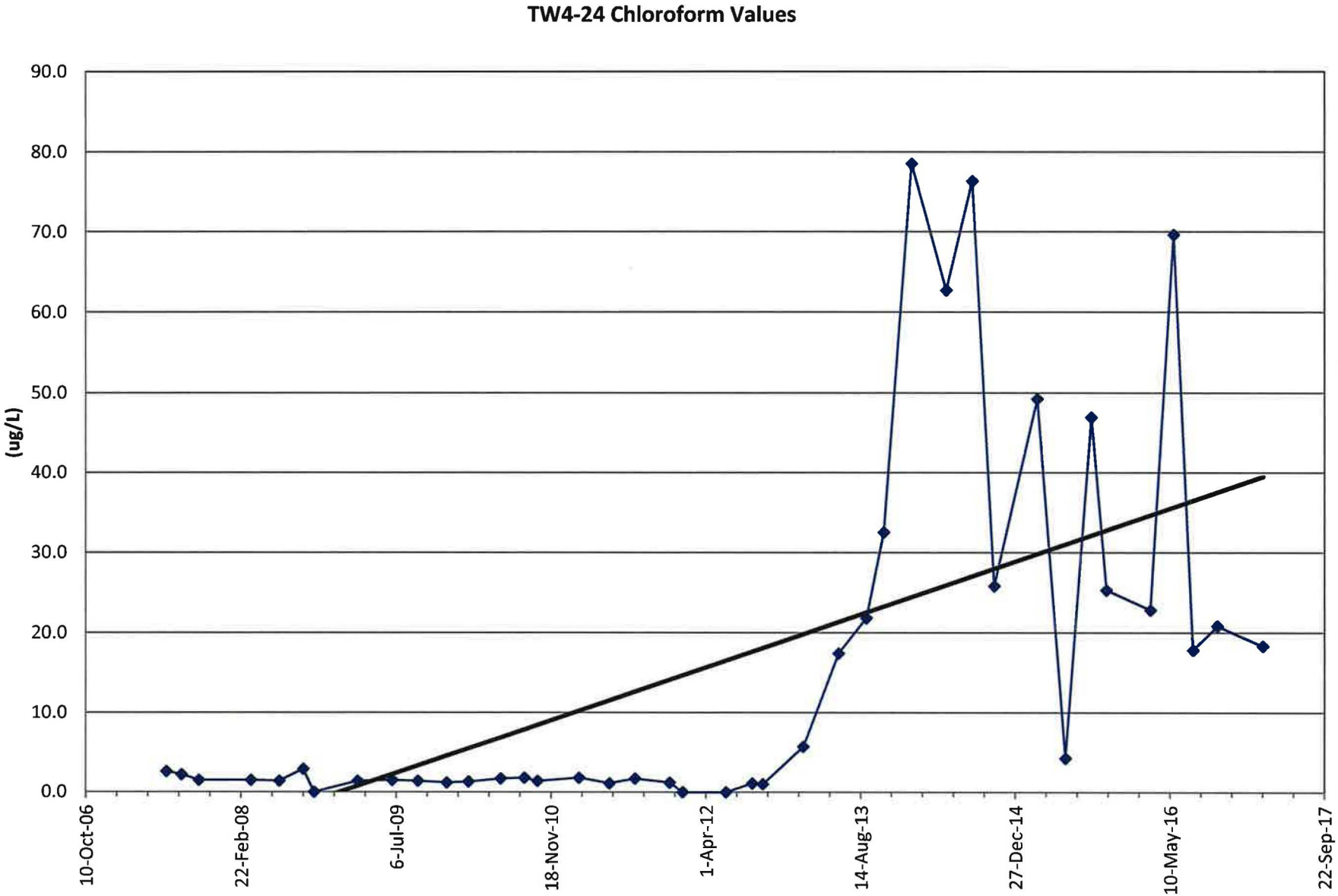
TW4-23	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
27-Jun-07	<1	<1	<1	<1	<0.1	47
15-Aug-07	<1	<1	<1	<1	<0.1	46
10-Oct-07	<1	<1	<1	<1	<0.1	43
26-Mar-08	<1	<1	<1	<1	<0.1	41
25-Jun-08	<1	<1	<1	<1	<0.05	41
10-Sep-08	<1	<1	<1	<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 (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
15-Mar-17	ND	ND	ND	ND	ND	47.7


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
Dec-16
Mar-17

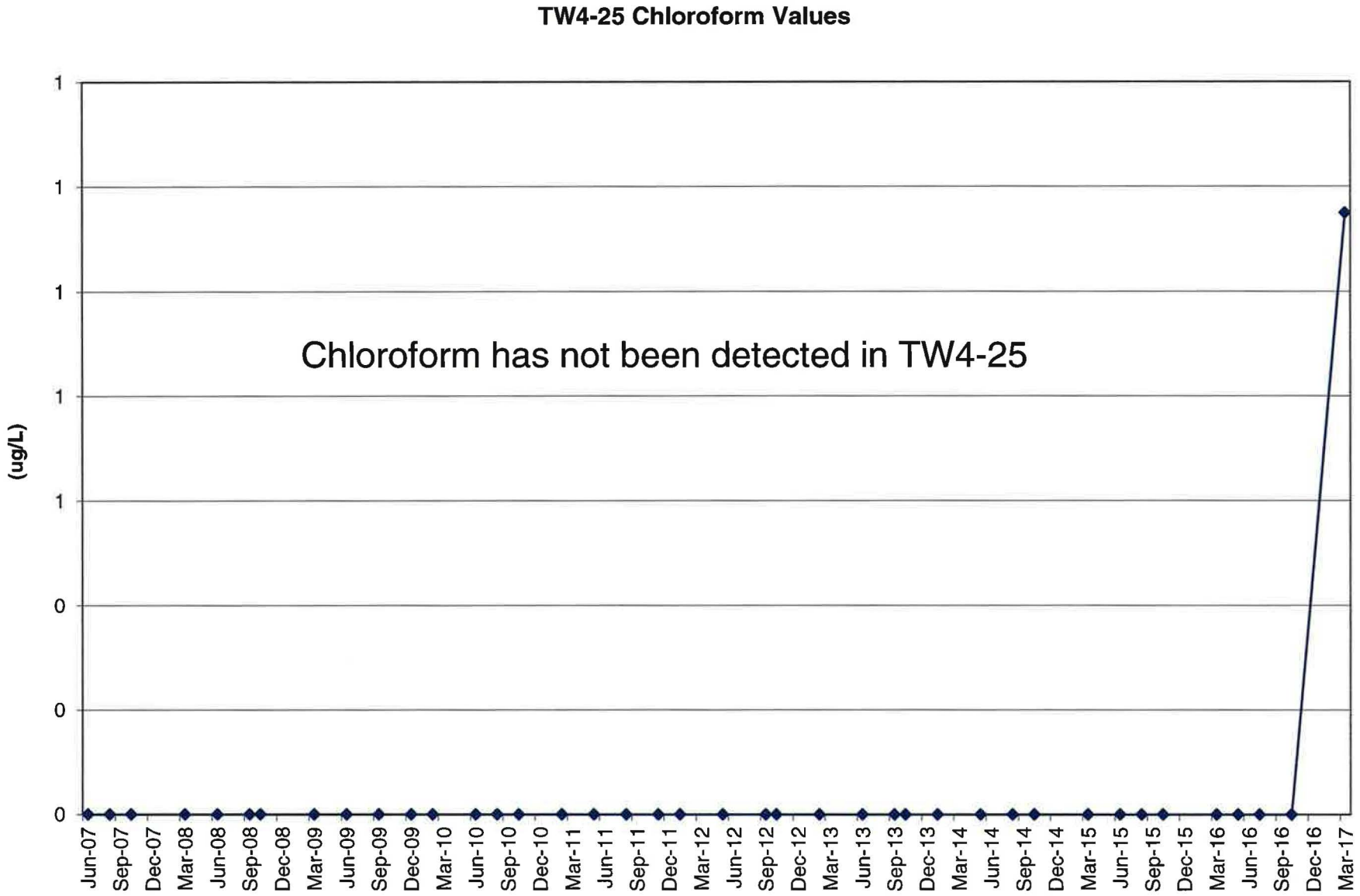
TW4-24	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
27-Jun-07	2.6	<1	<1	<1	26.1	770
15-Aug-07	2.2	<1	<1	<1	29	791
10-Oct-07	1.5	<1	<1	<1	24.7	692
26-Mar-08	1.5	<1	<1	<1	24.4	740
25-Jun-08	1.4	<1	<1	<1	45.3	834
10-Sep-08	2.9	<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 (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
8-Mar-17	18.3	ND	ND	ND	41.3	1090

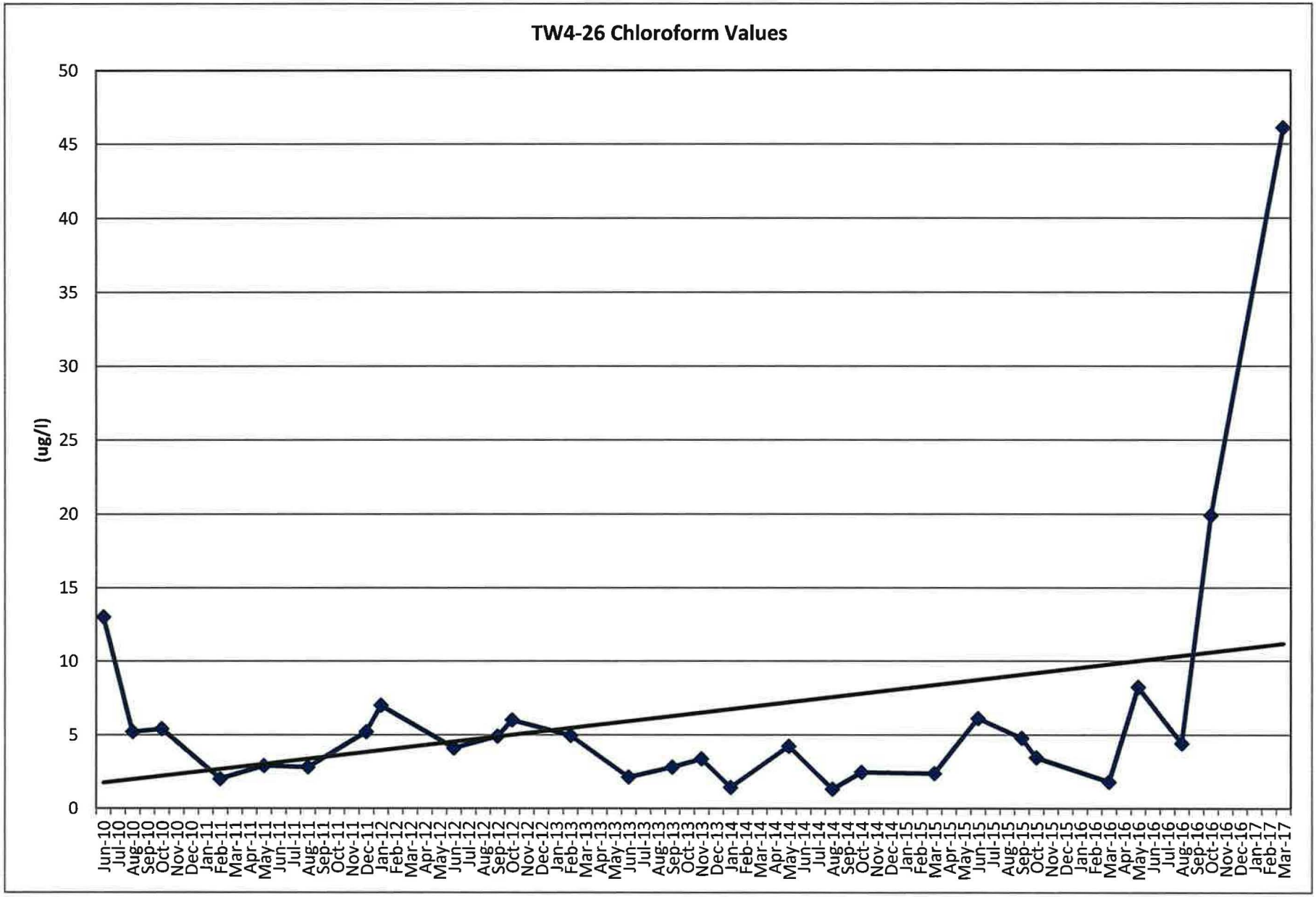

TW4-24 Chloroform Values
90.0
80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
(ug/L)
10-Oct-06
22-Feb-08
6-Jul-09
18-Nov-10
1-Apr-12
14-Aug-13
27-Dec-14
10-May-16
22-Sep-17

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

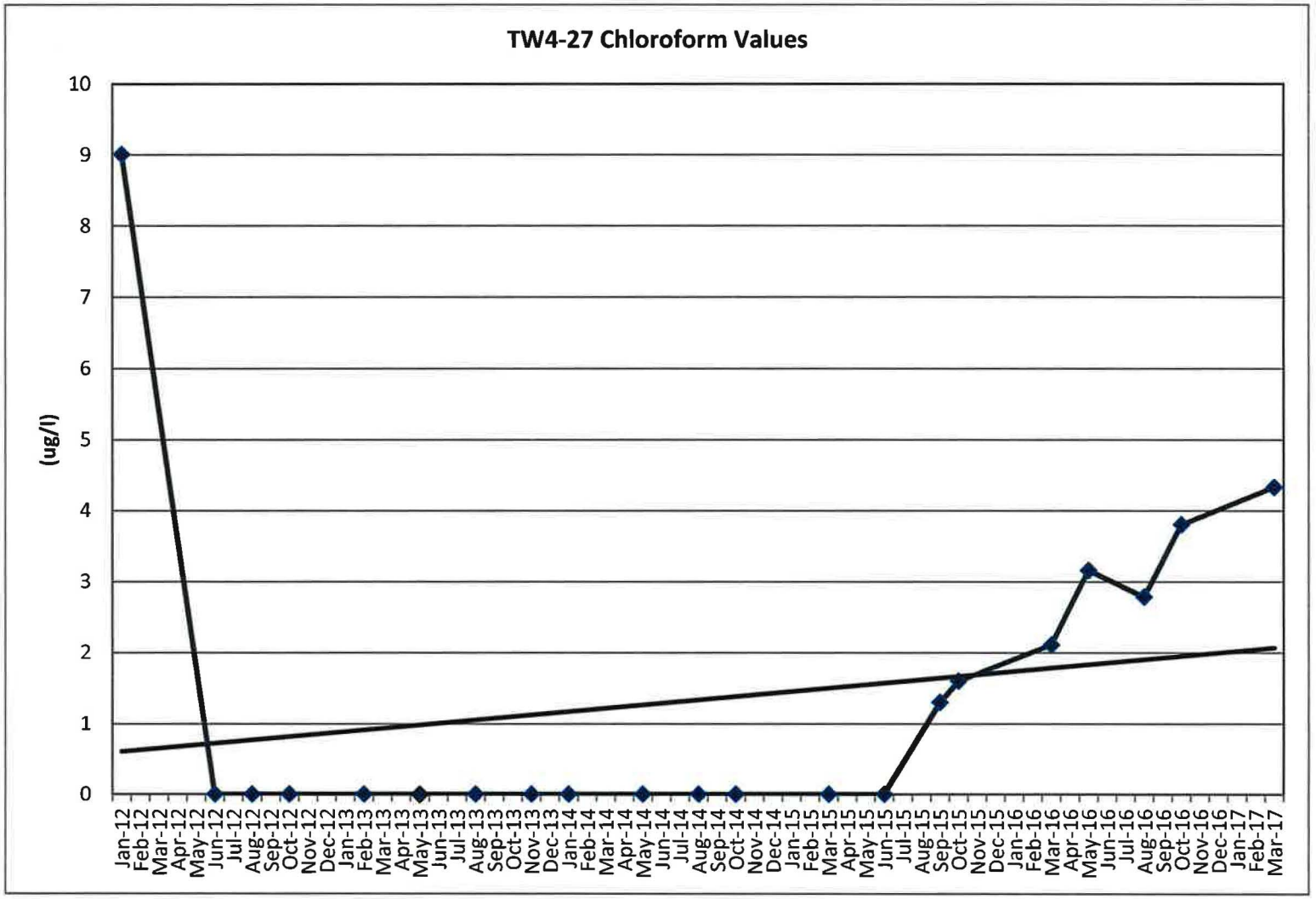
TW4-25	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
8-Mar-17	1	ND	ND	ND	17	285


TW4-25 Chloroform Values
Chloroform has not been detected in TW4-25
(ug/L)
1
1
1
1
1
0
0
0
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
Dec-16
Mar-17

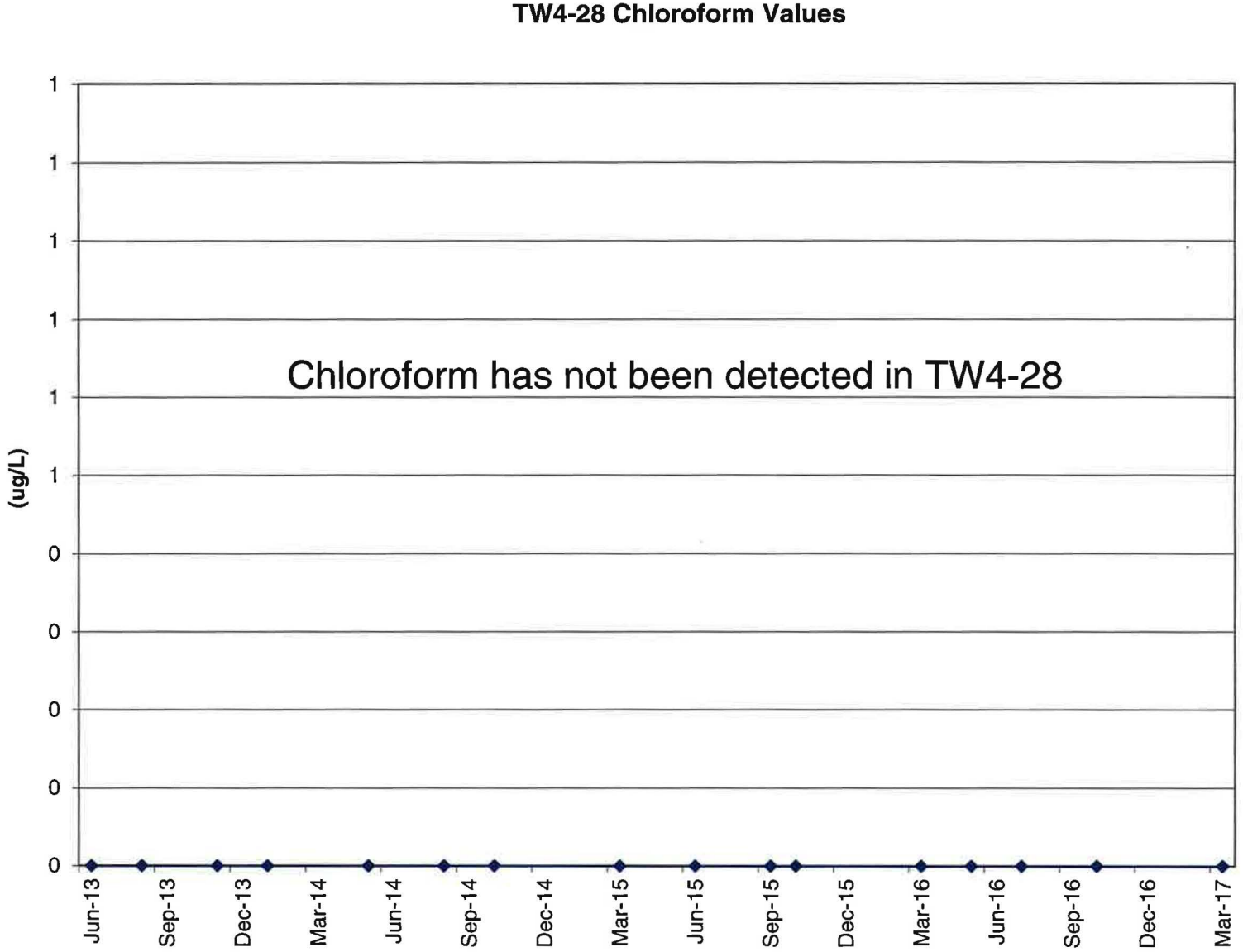
TW4-26	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
15-Jun-10	13	<1	<1	<1	7.9	33
11-Aug-10	5	<1	<1	<1	9	17
6-Oct-10	5.4	<1	<1	<1	9.6	22
22-Feb-11	2.0	ND	ND	ND	10	30
26-May-11	2.9	ND	ND	ND	10	15
17-Aug-11	2.8	ND	ND	ND	11	19
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
16-Mar-17	46.1	ND	ND	ND	15.8	16.2


TW4-26 Chloroform Values
(ug/l)
50
45
40
35
30
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
Nov-16
Dec-16
Jan-17
Feb-17
Mar-17

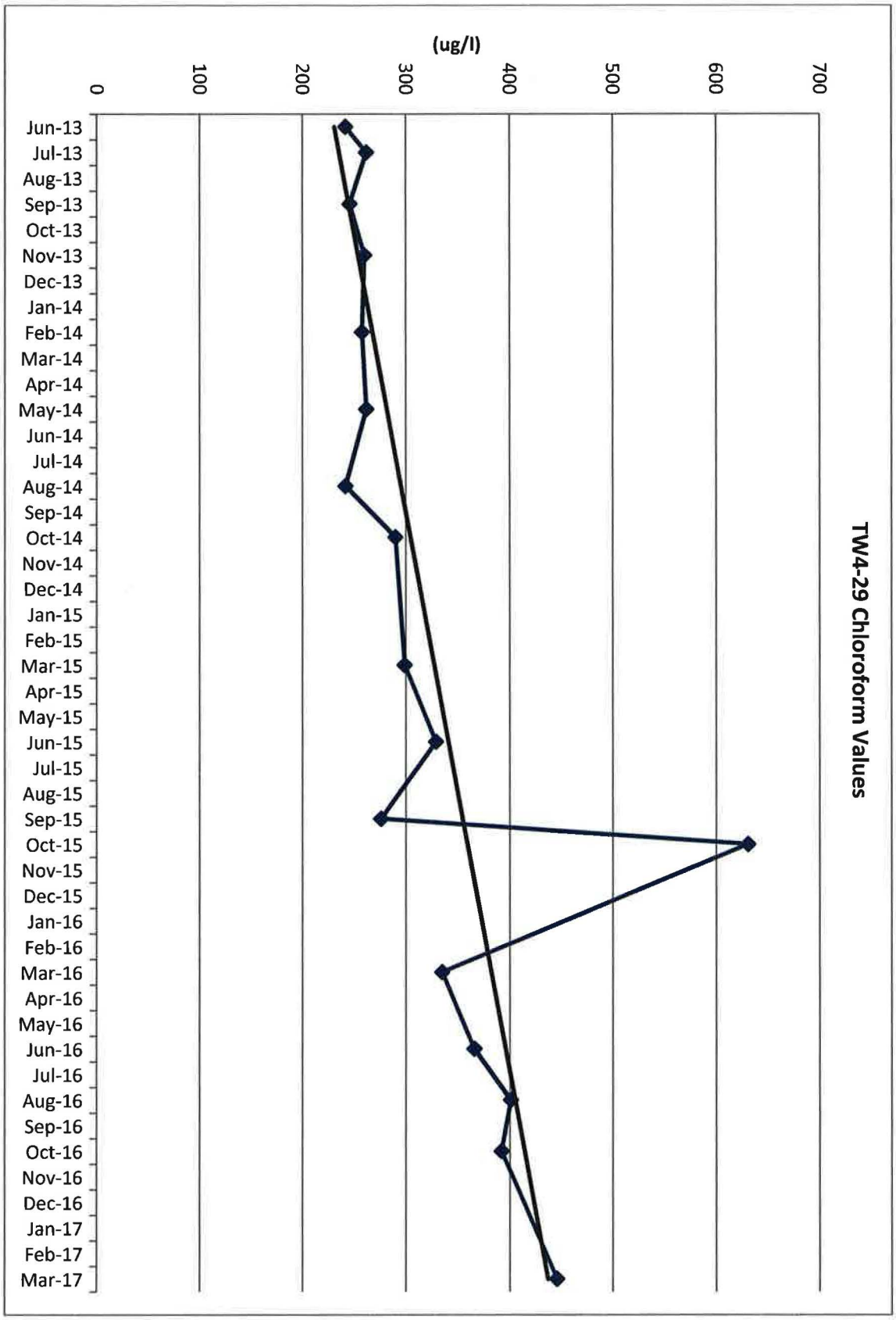
TW4-27	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
24-Jan-12	9	ND	ND	ND	24	11
13-Jun-12	ND	ND	ND	ND	41	17
30-Aug-12	ND	ND	ND	ND	37	21
3-Oct-12	ND	ND	ND	ND	36	18
7-Feb-13	ND	ND	ND	ND	31.2	18.8
30-May-13	ND	ND	ND	ND	29.4	20.3
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
15-Mar-17	4.33	ND	ND	ND	22.2	28.3


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
Nov-16
Dec-16
Jan-17
Feb-17
Mar-17

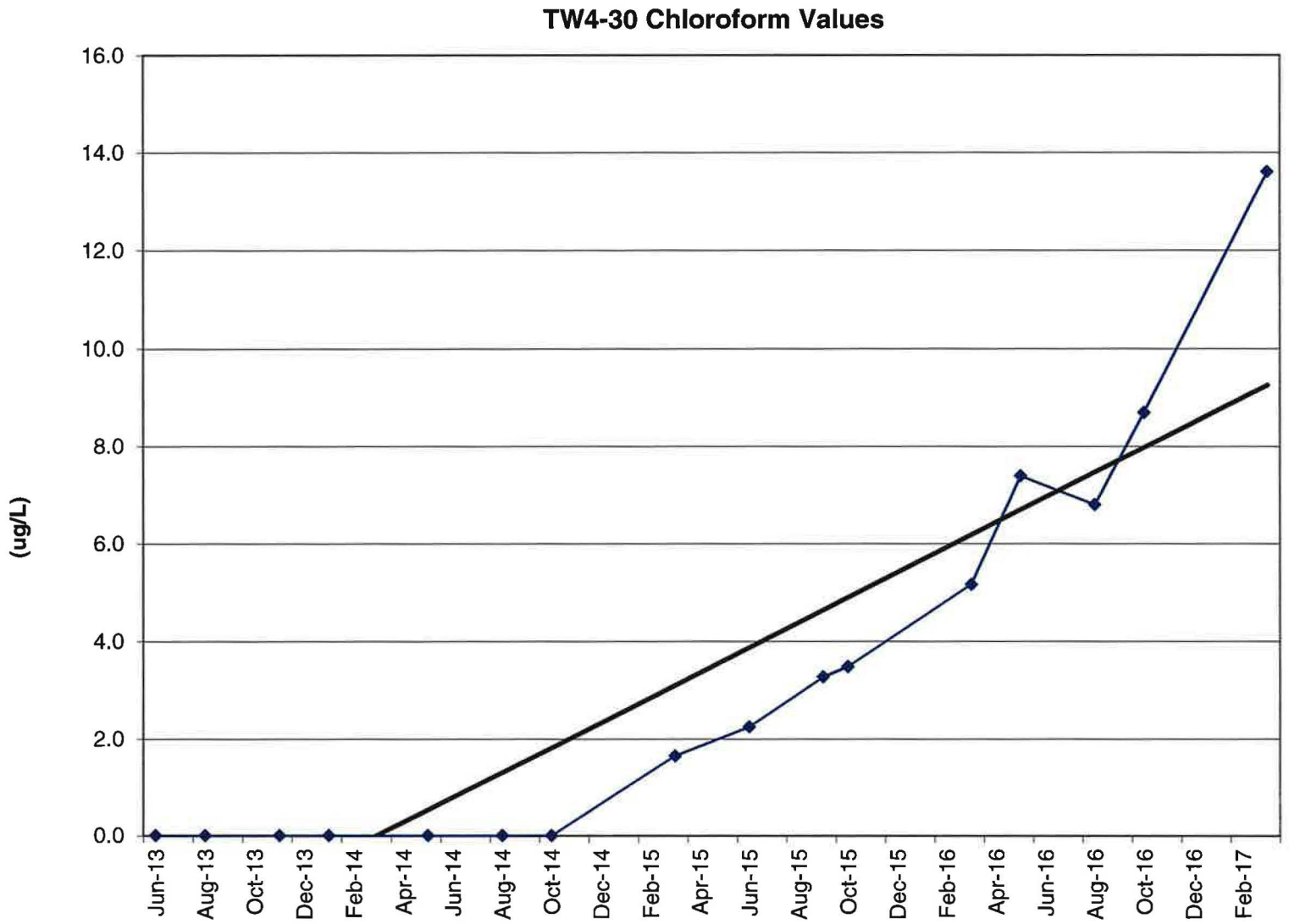
TW4-28	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
19-Jun-13	ND	ND	ND	ND	14.9	44.6
29-Aug-13	ND	ND	ND	ND	17.3	45.3
6-Nov-13	ND	ND	ND	ND	16.2	45.2
22-Jan-14	ND	ND	ND	ND	16.9	47.8
21-May-14	ND	ND	ND	ND	16.5	45.7
13-Aug-14	ND	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
14-Mar-17	ND	ND	ND	ND	24.4	64.2


TW4-28 Chloroform Values
Chloroform has not been detected in TW4-28
(ug/L)
1
1
1
1
1
1
0
0
0
0
0
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
Dec-16
Mar-17

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
16-Mar-17	446	ND	ND	ND	2.24	41.5

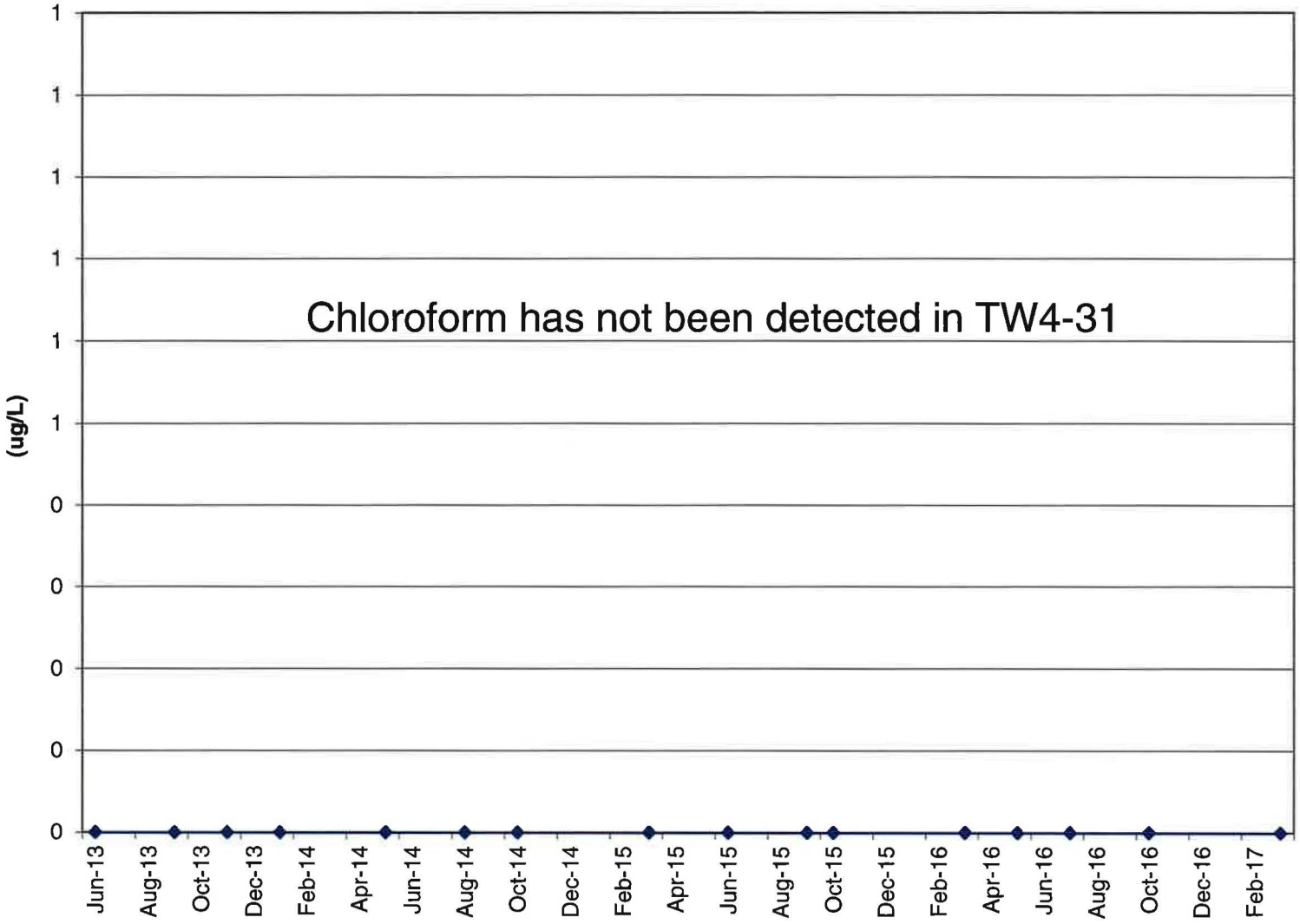

TW4-29 Chloroform Values
(ug/l)
0
100
200
300
400
500
600
700
Jun-13
Jul-13
Aug-13
Sep-13
Oct-13
Nov-13
Dec-13
Jan-14
Feb-14
Mar-14
Apr-14
May-14
Jun-14
Jul-14
Aug-14
Sep-14
Oct-14
Nov-14
Dec-14
Jan-15
Feb-15
Mar-15
Apr-15
May-15
Jun-15
Jul-15
Aug-15
Sep-15
Oct-15
Nov-15
Dec-15
Jan-16
Feb-16
Mar-16
Apr-16
May-16
Jun-16
Jul-16
Aug-16
Sep-16
Oct-16
Nov-16
Dec-16
Jan-17
Feb-17
Mar-17

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
15-Mar-17	13.60	ND	ND	ND	2.7	37.7


TW4-30 Chloroform Values
(ug/L)
16.0
14.0
12.0
10.0
8.0
6.0
4.0
2.0
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
Dec-16
Feb-17

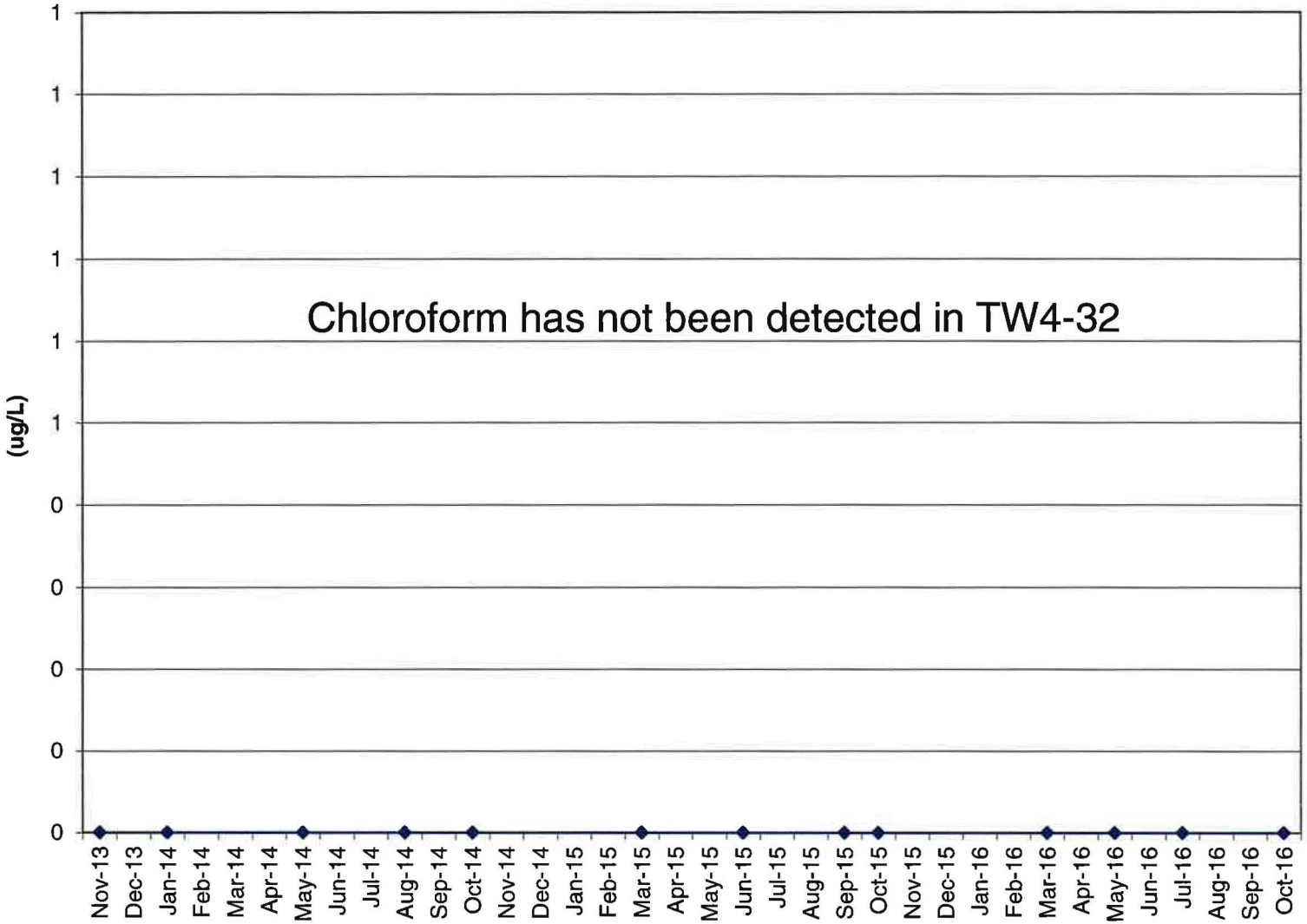
TW4-31	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
19-Jun-13	ND	ND	ND	ND	1.26	28.4
5-Sep-13	ND	ND	ND	ND	1.1	29.4
7-Nov-13	ND	ND	ND	ND	1.33	28
23-Jan-14	ND	ND	ND	ND	1.32	28.5
21-May-14	ND	ND	ND	ND	1.22	26.3
13-Aug-14	ND	ND	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
15-Mar-17	ND	ND	ND	ND	1.19	31.3

TW4-31 Chloroform Values



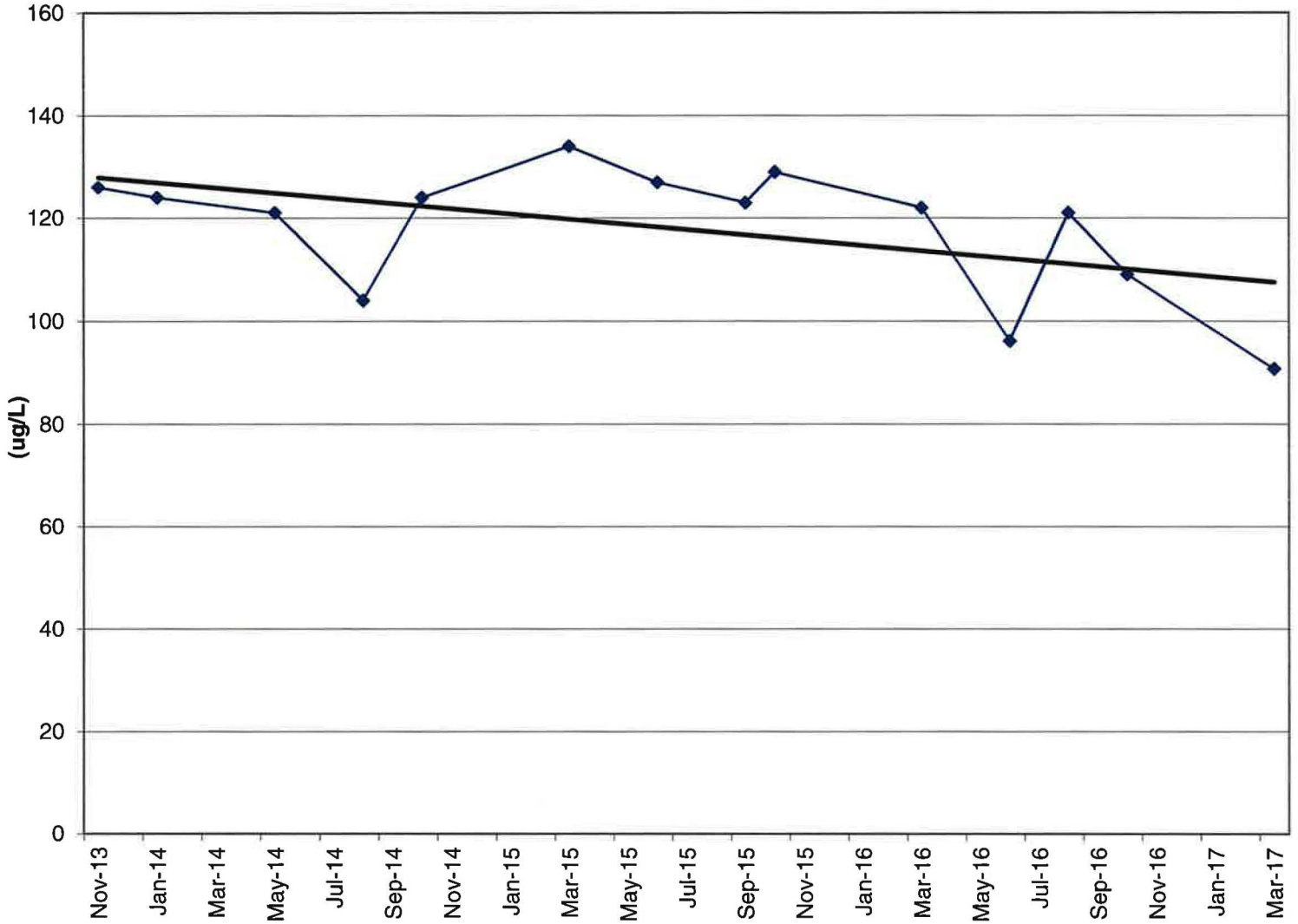
TW4-32	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
14-Nov-13	ND	ND	ND	ND	4.26	52.1
22-Jan-14	ND	ND	ND	ND	5.11	54.5
21-May-14	ND	ND	ND	ND	5.63	54.9
13-Aug-14	ND	ND	ND	ND	4.2	64
23-Oct-14	ND	ND	ND	ND	2.14	62.6
11-Mar-15	ND	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

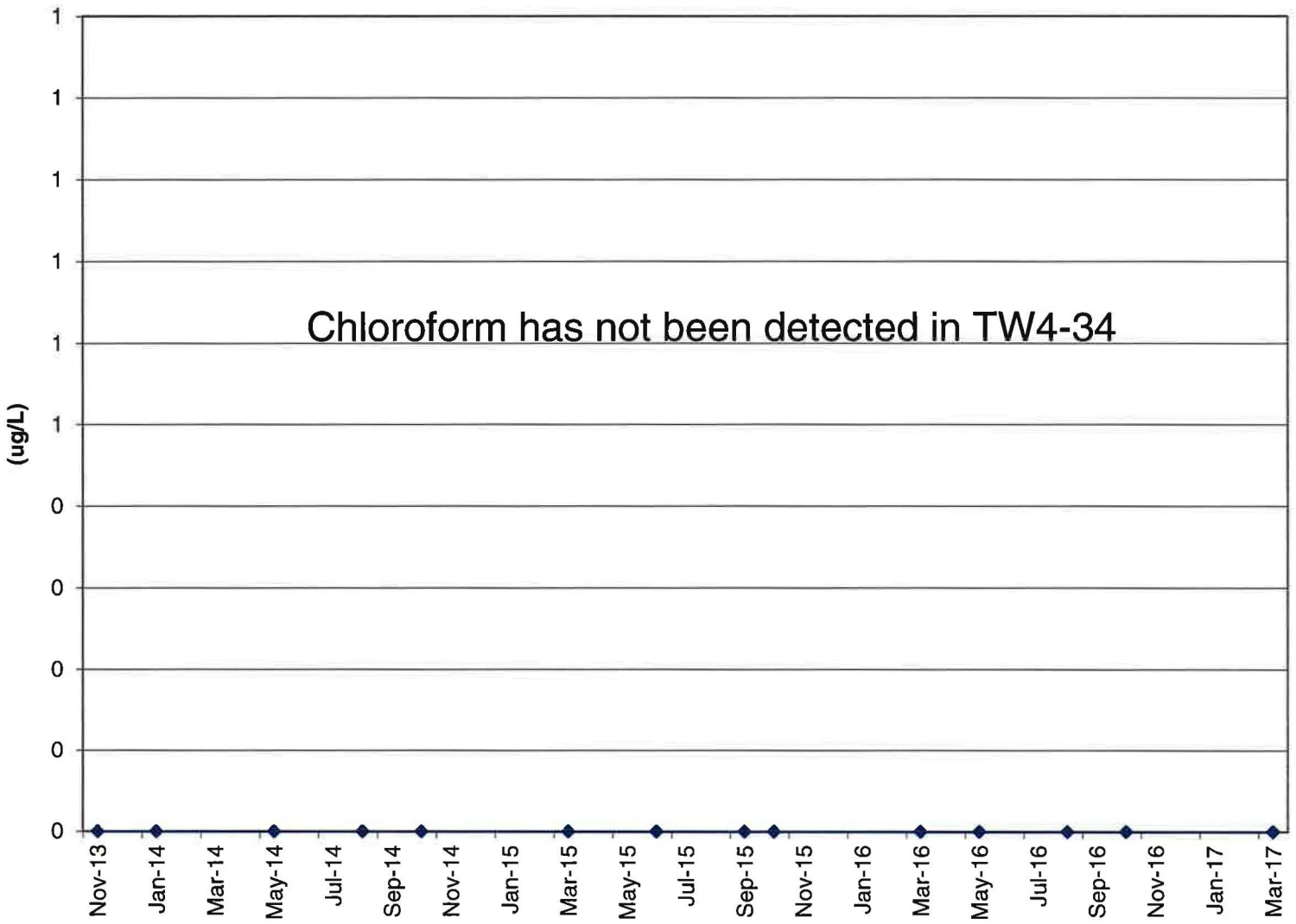


TW4-33	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
14-Nov-13	126	ND	ND	ND	1.82	47.2
30-Jan-14	124	ND	ND	ND	2.56	43.5
22-May-14	121	ND	ND	ND	1.63	46.8
27-Aug-14	104	ND	ND	ND	1.5	43
29-Oct-14	124	ND	ND	ND	2.22	44.2
12-Mar-15	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
16-Mar-17	91	ND	ND	ND	2.11	49.0

TW4-33 Chloroform Values

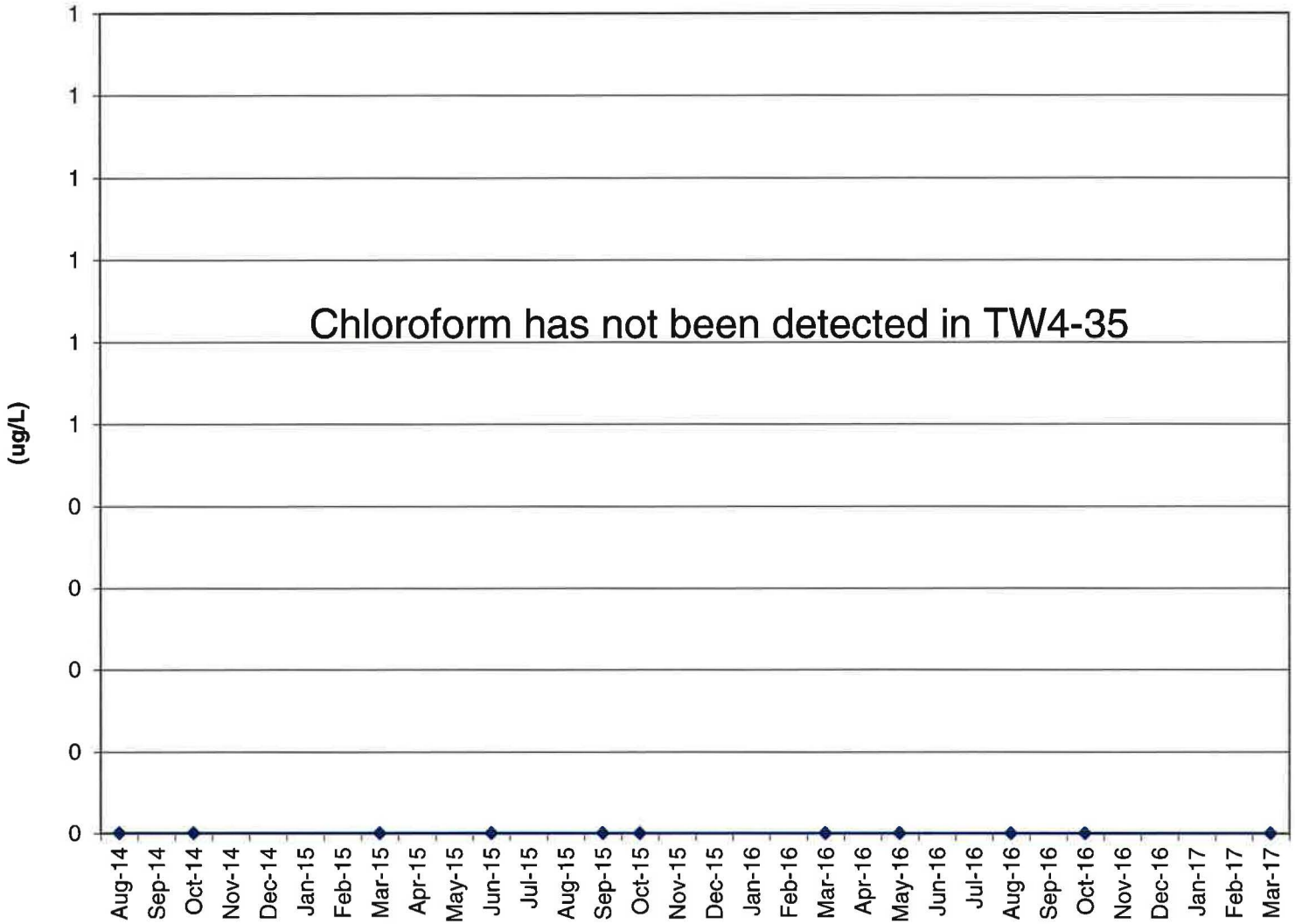


TW4-34	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
14-Nov-13	ND	ND	ND	ND	1.64	19.2
23-Jan-14	ND	ND	ND	ND	1.94	20.4
21-May-14	ND	ND	ND	ND	1.69	17.9
13-Aug-14	ND	ND	ND	ND	1.1	18
28-Oct-14	ND	ND	ND	ND	1.16	17.5
11-Mar-15	ND	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
15-Mar-17	ND	ND	ND	ND	0.674	18.0


TW4-34 Chloroform Values
Chloroform has not been detected in TW4-34
(ug/L)
1
1
1
1
1
1
0
0
0
0
Nov-13
Jan-14
Mar-14
May-14
Jul-14
Sep-14
Nov-14
Jan-15
Mar-15
May-15
Jul-15
Sep-15
Nov-15
Jan-16
Mar-16
May-16
Jul-16
Sep-16
Nov-16
Jan-17
Mar-17

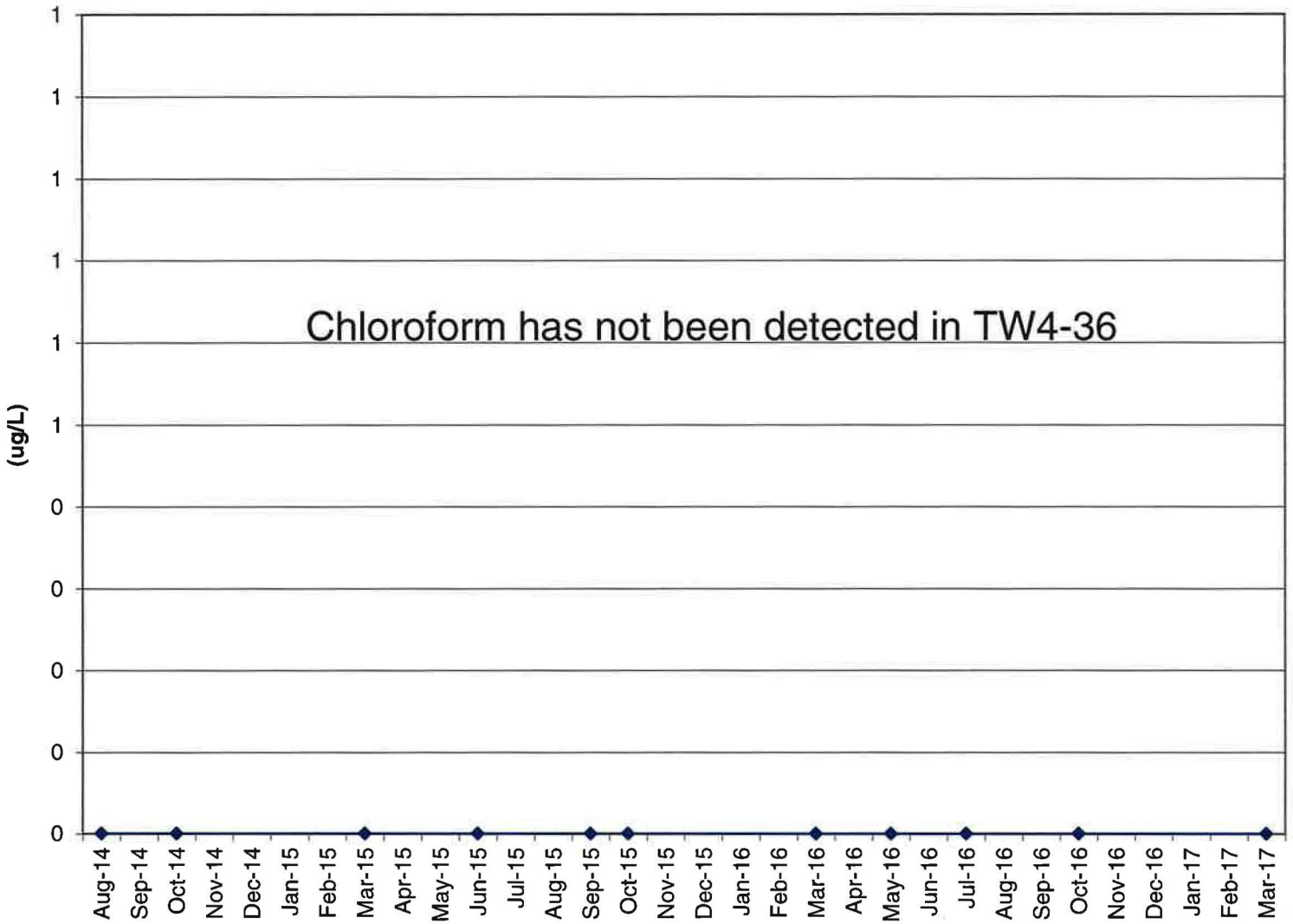
TW4-35	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
27-Aug-14	ND	ND	ND	ND	0.2	34
28-Oct-14	ND	ND	ND	ND	0.351	34.1
11-Mar-15	ND	ND	ND	ND	0.436	34.9
10-Jun-15	ND	ND	ND	ND	0.452	35.2
3-Sep-15	ND	ND	ND	ND	0.304	35.9
28-Oct-15	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
15-Mar-17	ND	ND	ND	ND	0.673	33.7

TW4-35 Chloroform Values



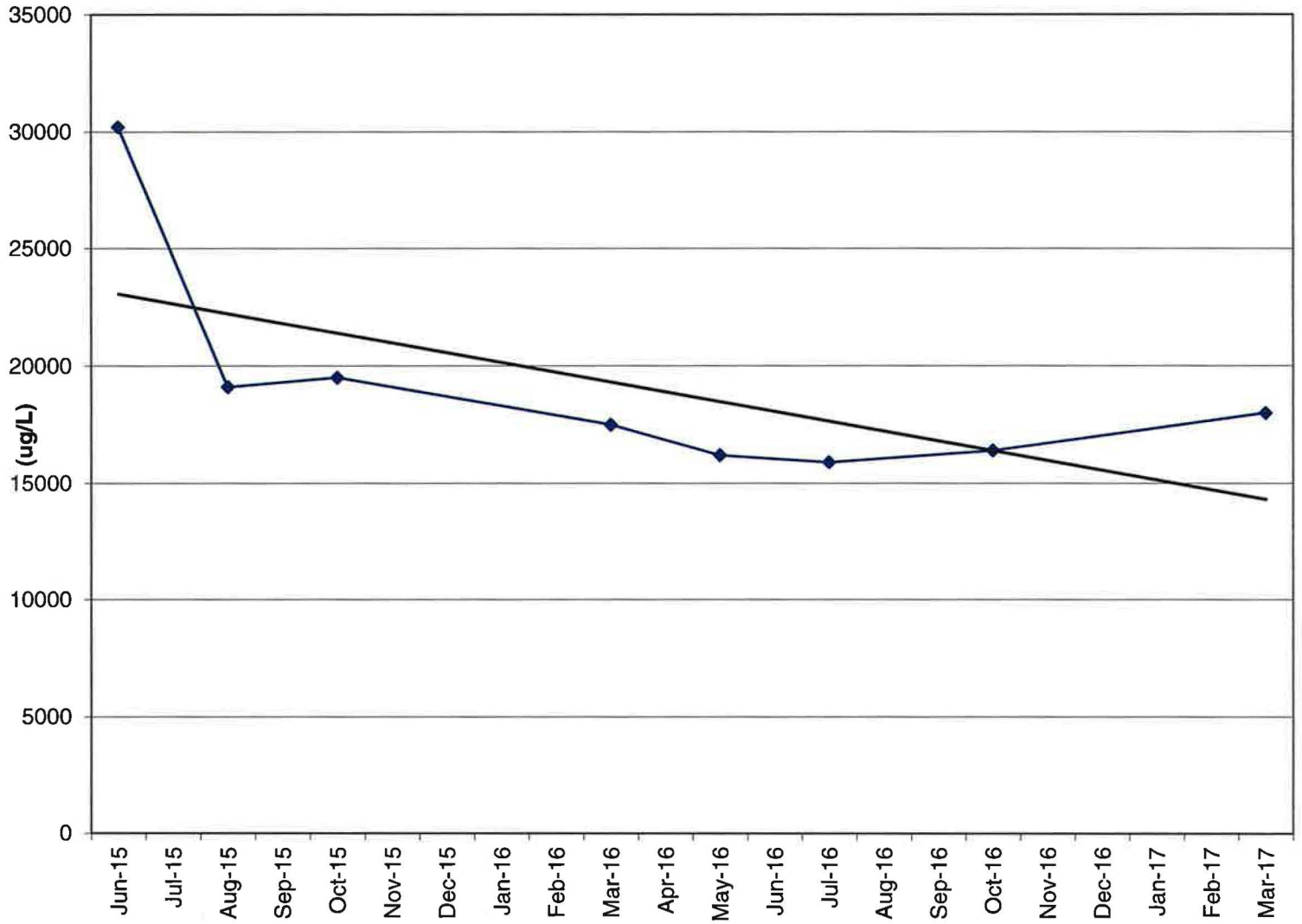
TW4-36	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
27-Aug-14	ND	ND	ND	ND	ND	65
23-Oct-14	ND	ND	ND	ND	ND	67.3
11-Mar-15	ND	ND	ND	ND	ND	67.2
10-Jun-15	ND	ND	ND	ND	ND	69.3
3-Sep-15	ND	ND	ND	ND	ND	76.4
21-Oct-15	ND	ND	ND	ND	ND	64.5
16-Mar-16	ND	ND	ND	ND	ND	67.1
25-May-16	ND	ND	ND	ND	ND	72.3
27-Jul-16	ND	ND	ND	ND	ND	69.4
20-Oct-16	ND	ND	ND	ND	ND	73.8
15-Mar-17	ND	ND	ND	ND	ND	60.2

TW4-36 Chloroform Values

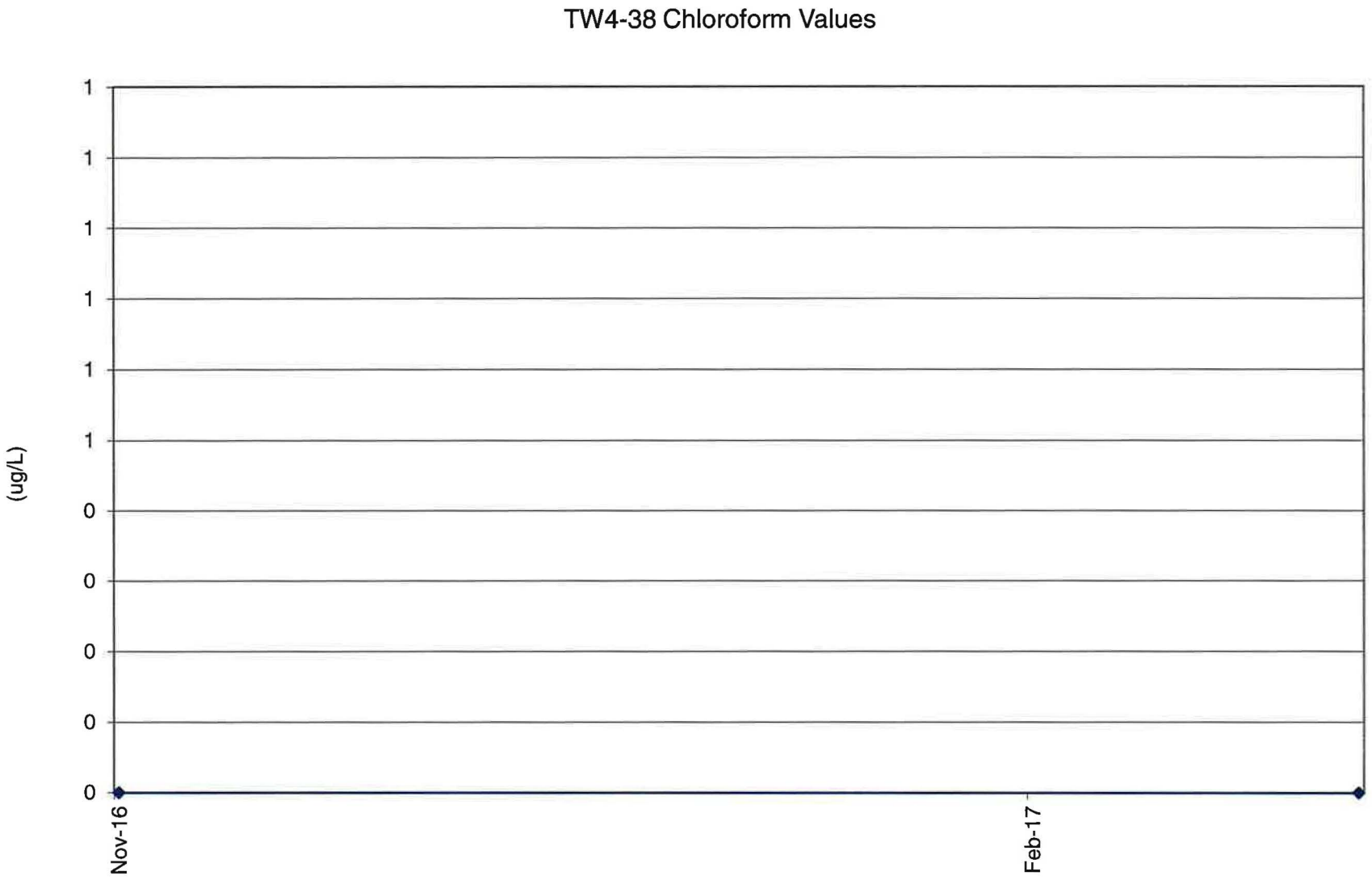


TW4-37	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
8-Jun-15	30200	18	16	2	35	345
31-Aug-15	19100	17	14	1.04	32	374
19-Oct-15	19500	13	9	1.17	35	399
9-Mar-16	17500	16	4	1.34	28.4	332
23-May-16	16200	14	ND	1.17	27.9	389
25-Jul-16	15900	17	ND	ND	33.4	294
12-Oct-16	16400	16	ND	ND	26.1	304
8-Mar-17	18000	15	ND	ND	32.3	305

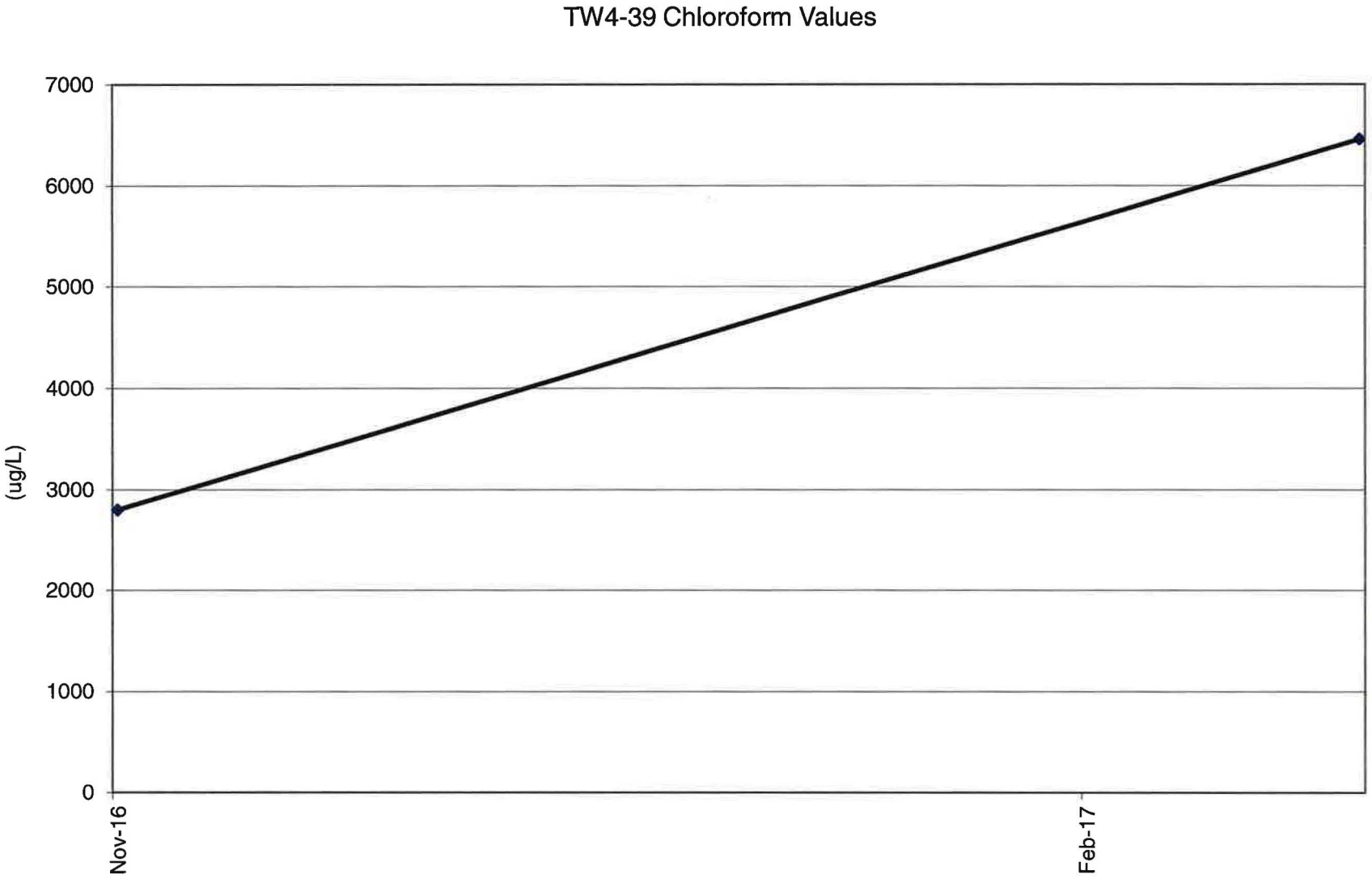
TW4-37 Chloroform Values



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
15-Mar-17	ND	ND	ND	ND	10.6	35.7

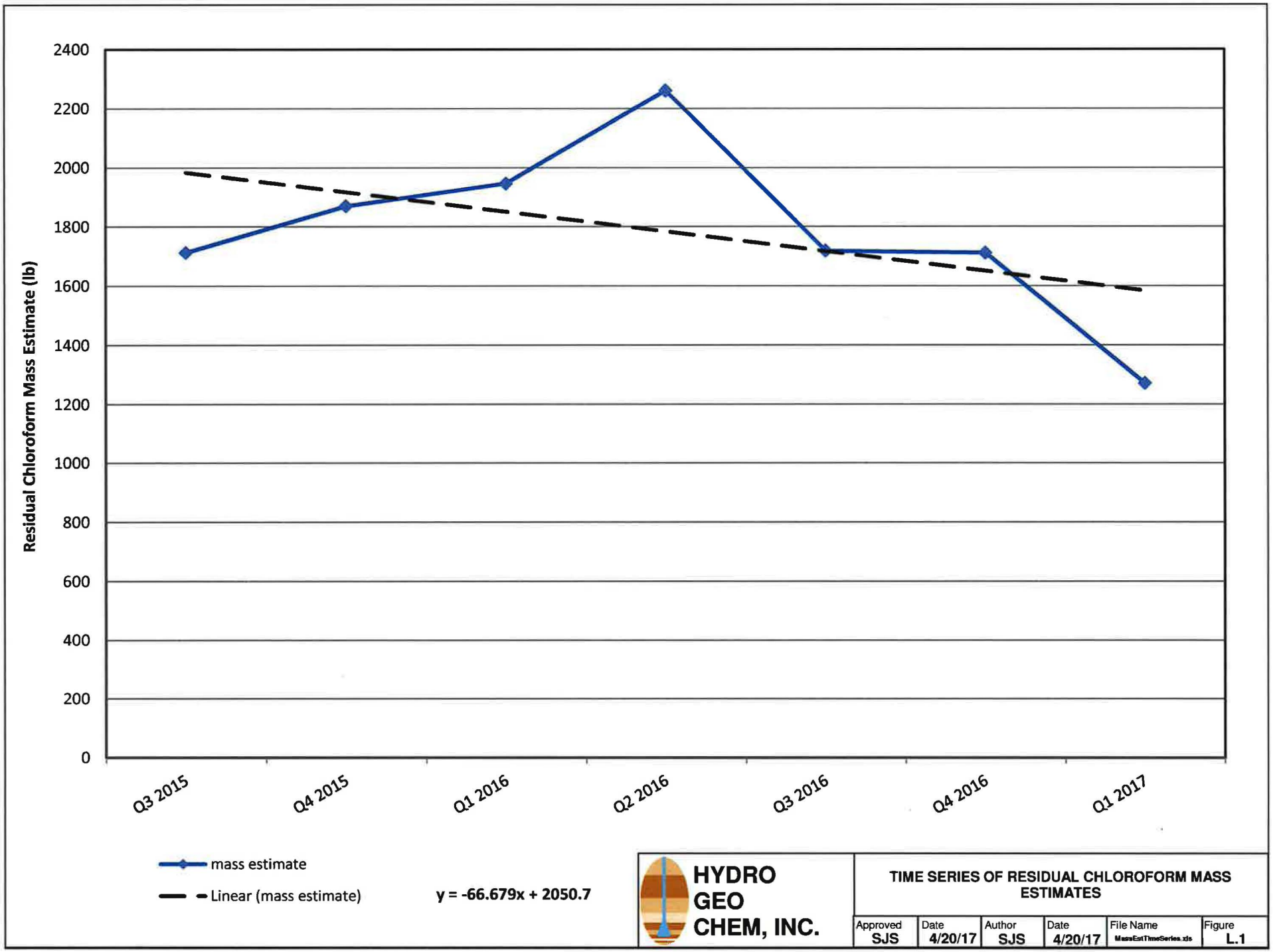

TW4-38 Chloroform Values
(ug/L)
1
1
1
1
1
1
0
0
0
0
0
Nov-16
Feb-17

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
8-Mar-17	6460	8	ND	1	6.44	130.0


TW4-39 Chloroform Values
7000
6000
5000
4000
3000
2000
1000
0
(ug/L)
Nov-16
Feb-17

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	4/20/17	SJS	4/20/17	MassEstTimeSeries.xls	L.1

H:\718000\may17\chloroform\mass_estimate\FL.1_resid_chl_mass.xls: 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
Q1 17	1271

Notes:

lbs = pounds

CHLOROFORM RESIDUAL MASS ESTIMATE DETAILS:

Chloroform Data File: CHL_SurferInput_Q1_17.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) **Q4, 2016 (previous quarter) data used at wells:** MW-1, MW-2, MW-3A, MW-5, MW-12, MW-15, MW-17 through MW-20, MW-22 through MW-24, MW-27 through MW-29 (all non-detect).

Chloroform residual mass estimate kriged grid files (ascii format):

Ucm1Q17wl.grd: first quarter, 2017 Water Level Grid (ft amsl)

Ucm1Q17bb.grd: first quarter, 2017 Aquifer Base Grid (ft amsl)

Ucm1Q17sat.grd: first quarter, 2017 Saturated Thickness Grid (ft)

Ucm1Q17logchl.grd: first quarter, 2017 log of chloroform grid (log of ug/L)

Ucm1Q17chl.grd: first quarter, 2017 Chloroform Concentration Grid (ug/L)

Ucm1Q17ge70.grd: first quarter, 2017 Chloroform Concentration GE 70 Grid (ug/L)

Ucm1Q17volm3.grd: first quarter, 2017 Groundwater Volume Grid (m^3)

Ucm1Q17masslb.grd: first quarter, 2017 Chloroform Plume Mass Grid (lb)

Chloroform residual mass estimate kriged grid XYZ files (ascii format):

Ucm1Q17wl.dat: first quarter, 2017 Water Level Grid XYZ file (ft amsl)

Ucm1Q17bb.dat: first quarter, 2017 top of Aquifer Base Grid XYZ file (ft amsl)

Ucm1Q17sat.dat: first quarter, 2017 Saturated Thickness Grid XYZ file (ft)

Ucm1Q17logchl.dat: first quarter, 2017 log of chloroform grid XYZ file (log of ug/L)

Ucm1Q17chl.dat: first quarter, 2017 Chloroform Concentration Grid XYZ file (ug/L)

Ucm1Q17ge70.dat: first quarter, 2017 Chloroform Concentration GE 70 Grid (ug/L) XYZ file

Ucm1Q17volm3.dat: first quarter, 2017 Groundwater Volume Grid XYZ file (m^3)

Ucm1Q17masslb.dat: first quarter, 2017 Chloroform Plume Mass Grid XYZ file (lb)

Chloroform plume mass estimate file: Ucm**1Q17**result.xls

Tab M

CSV Transmittal Letter

Kathy Weinel

From: Kathy Weinel
Sent: Wednesday, May 17, 2017 12:57 PM
To: 'Phillip Goble'
Cc: 'Dean Henderson'; Mark Chalmers; David Frydenlund; David Turk; Scott Bakken; Logan Shumway
Subject: Transmittal of CSV Files White Mesa Mill 2017 Q1 Chloroform Monitoring
Attachments: 1703181-report-EDD.csv; 1703339-report-EDD.csv; 1703458-report-EDD.csv; Q1 2017 Chloroform DTWs.csv; Q1 2017 Chloroform Field.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 first quarter of 2017, 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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