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Div of Waste Management
and Radiation Control

August 28, 2018

AUG 31 2018

Sent VIA OVERNIGHT DELIVERY

DRC-2018-009079

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 2nd Quarter 2018 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 2nd Quarter of 2018 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,

A handwritten signature in black ink, appearing to read 'Kathy Weinel', written in a cursive style.

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

CC: Mark Chalmers
David C. Frydenlund
Paul Goranson
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

2nd Quarter
(April through June)
2018

Prepared by:



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

August 27, 2018

TABLE OF CONTENTS

1.0	INTRODUCTION.....	1
2.0	CHLOROFORM MONITORING	1
2.1	Samples and Measurements Taken During the Quarter	1
2.1.1	Chloroform Monitoring	1
2.1.2	Parameters Analyzed	2
2.1.3	Groundwater Head Monitoring.....	2
2.2	Sampling Methodology and Equipment and Decontamination Procedures	3
2.2.1	Decontamination Procedures	3
2.2.2	Well Purging and Depth to Groundwater	4
2.2.3	Sample Collection.....	5
2.3	Field Data.....	5
2.4	Depth to Groundwater Data and Water Table Contour Map.....	6
2.5	Laboratory Results	6
2.5.1	Copy of Laboratory Results	6
2.5.2	Regulatory Framework	6
3.0	QUALITY ASSURANCE AND DATA VALIDATION	6
3.1	Field QC Samples	7
3.2	Adherence to Mill Sampling SOPs	7
3.3	Analyte Completeness Review	7
3.4	Data Validation	7
3.4.1	Field Data QA/QC Evaluation	8
3.4.2	Holding Time Evaluation.....	9
3.4.3	Receipt Temperature Evaluation.....	9
3.4.4	Analytical Method Checklist	9
3.4.5	Reporting Limit Evaluation	9
3.4.6	Receipt pH Evaluation	10
3.4.7	Trip Blank Evaluation.....	10
3.4.8	QA/QC Evaluation for Sample Duplicates	10
3.4.9	Rinsate Sample Check	10
3.4.10	Other Laboratory QA/QC	10
4.0	INTERPRETATION OF DATA	12
4.1	Interpretation of Groundwater Levels, Gradients and Flow Directions.	12
4.1.1	Current Site Groundwater Contour Map.....	12
4.1.2	Comparison of Current Groundwater Contour Maps to Groundwater Contour Maps for Previous Quarter.....	18
4.1.3	Hydrographs.....	20
4.1.4	Depth to Groundwater Measured and Groundwater Elevation.....	20
4.1.5	Evaluation of the Effectiveness of Hydraulic Capture	20
4.2	Review of Analytical Results.....	24
4.2.1	Current Chloroform Isoconcentration Map	24
4.2.2	Chloroform Concentration Trend Data and Graphs.....	24
4.2.3	Interpretation of Analytical Data	24
5.0	LONG TERM PUMP TEST AT MW-4, MW-26, TW4-19, TW4-20, AND TW4-4 OPERATIONS REPORT	27
5.1	Introduction.....	27

5.2	Pump Test Data Collection	28
5.3	Water Level Measurements	28
5.4	Pumping Rates and Volumes	29
5.4.1	TW4-22 and TW4-24.....	29
5.5	Mass Removed and Plume Residual Mass	29
5.6	Inspections	30
5.7	Conditions That May Affect Water Levels in Piezometers	30
6.0	CORRECTIVE ACTION REPORT.....	30
6.1	Assessment of Previous Quarter's Corrective Actions.....	30
7.0	CURRENT COMPLIANCE STATUS	30
7.1	Long Term Chloroform Plume Control	30
7.2	Well Construction, Maintenance and Operation.....	31
7.3	Disposal of Extracted Groundwater.....	31
7.4	Compliance Well Performance	31
7.5	Chloroform Plume Monitoring for Wells within 500 Feet of the Property Boundary	32
8.0	CONCLUSIONS AND RECOMMENDATIONS.....	32
9.0	ELECTRONIC DATA FILES AND FORMAT	36
10.0	SIGNATURE AND CERTIFICATION	37

LIST OF TABLES

Table 1	Summary of Well Sampling for the Period
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INDEX OF TABS

- Tab A Site Plan and Perched Well Locations White Mesa Site
- Tab B Order of Sampling and Field Data Worksheets
- Tab C Weekly and Monthly Depth to Water Data
- Tab D Kriged Current Quarter Groundwater Contour Map, Capture Zone Map, Capture Zone Details Map and Depth to Water Data
- Tab E Kriged Previous Quarter Groundwater Contour Map
- Tab F Depths to Groundwater and Elevations and Hydrographs of Groundwater Elevations over Time for Chloroform Monitoring Wells
- Tab G Chloroform Mass Removed and Volume Pumped in Chloroform Pumping Wells over Time
- Tab H Laboratory Analytical Reports
- Tab I Quality Assurance and Data Validation Tables
- I-1 Field Data QA/QC Evaluation
 - I-2 Holding Time Evaluation
 - I-3 Receipt Temperature Check
 - I-4 Analytical Method Check
 - I-5 Reporting Limit Evaluation
 - I-6 Trip Blank Evaluations
 - I-7 QA/QC Evaluation for Sample Duplicates
 - I-8 QC Control Limits for Analyses and Blanks
 - I-9 Rinsate Check
- Tab J Kriged Current Quarter Chloroform Isoconcentration Map
- Tab K Analyte Concentration Data and Chloroform Concentration Trend Graphs over Time
- Tab L Contour Map Based Chloroform Plume Mass Calculations and Data Over Time
- Tab M CSV Transmittal Letter
- Tab N Exceedance Notices for the Reporting Period

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 second quarter of 2018 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, TW4-39, and TW4-41 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	TW4-40
TW4-5	TW4-14	TW4-23	TW4-32	TW4-41
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 7.3, dated August 15, 2017.

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, and TW4-41 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 and August 15, 2017. The revised Groundwater QAP and Chloroform QAP, Revision 7.3 were approved by DWMRC on August 29, 2017.

The sampling methodology, equipment and decontamination procedures used in the chloroform contaminant investigation, as summarized below, are consistent with the approved QAP Revision 7.3 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 starting 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 7.3, 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 H₂SO₄;
- 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.

Two rinsate blank samples were collected as indicated on Table 1. Rinsate samples were labeled with the name of the subsequently purged well with a terminal letter “R” added (e.g. TW4-7R). The results of these analyses are included with the routine analyses under Tab H.

In addition, one DIFB, while not required by the Chloroform QAP, was collected and analyzed for the same constituents as the well samples and rinsate blank samples.

3.2 Adherence to Mill Sampling SOPs

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

3.3 Analyte Completeness Review

All analyses required by the GCAP for chloroform monitoring for the period were performed.

3.4 Data Validation

The QAP and GWDP identify the data validation steps and data QC checks required for the chloroform monitoring program. Consistent with these requirements, the QA Manager performed the following evaluations: a field data QA/QC evaluation, a holding time check, a receipt temperature check, an analytical method check, a reporting limit evaluation, a trip blank check, a

QA/QC evaluation of sample duplicates, a QC Control Limit check for analyses and blanks including the DIFB and a rinsate sample check. Each evaluation is discussed in the following sections. Data check tables indicating the results of each test are provided under Tab I.

3.4.1 Field Data QA/QC Evaluation

The QA Manager performs a review of the field recorded parameters to assess their adherence with QAP requirements. The assessment involved review of two sources of information: the Field Data Sheets and the Quarterly Depth to Water summary sheet. Review of the Field Data Sheets addresses well purging volumes and measurement of field parameters based on the requirements discussed in section 2.2.1 above. The purging technique employed determines the requirements for field parameter measurement and whether stability criteria are applied. Review of the Depth to Water data confirms that all depth measurements used for development of the groundwater contour maps were conducted within a five-day period as indicated by the measurement dates in the summary sheet under Tab D. The results of this quarter's review of field data are provided under Tab I.

Based upon the review of the field data sheets, the purging and field measurements were completed in conformance with the QAP requirements. A summary of the purging techniques employed and field measurements taken is described below:

Purging Two Casing Volumes with Stable Field Parameters (within 10% RPD)

Wells TW4-5, TW4-8, TW4-9, TW4-16, MW-32, TW4-18, TW4-23, TW4-32, TW4-38, and TW4-40 were sampled after two casing volumes were removed. Field parameters (pH, specific conductivity, turbidity, water temperature, and redox potential) were measured during purging. All field parameters for this requirement were stable within 10% RPD.

Purging a Well to Dryness and Stability of a Limited List of Field Parameters

Wells TW4-3, TW4-6, TW4-7, TW4-10, TW4-12, TW4-13, TW4-14, TW4-26, TW4-27, TW4-28, 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 7.3. 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, TW4-39, and TW4-41 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 7.3 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, TW4-11, TW4-16, MW-32, TW4-18, TW4-20, TW4-21, TW4-23, TW4-32, TW4-38, TW4-40, and TW4-41 exceeded the QAP's 5 NTU goal. EFRI's letter to DWMRC of March 26, 2010 discusses further why turbidity does not appear to be an appropriate parameter for assessing well stabilization. In response to DWMRC's subsequent correspondence dated June 1, 2010 and June 24, 2010, EFRI completed a monitoring well redevelopment program. The redevelopment report was submitted to DWMRC on September 30, 2011. DWMRC responded to the redevelopment report via letter on November 15, 2012. Per the DWMRC letter dated November 15, 2012, the field data generated this quarter are compliant with the turbidity requirements of the approved QAP.

3.4.2 Holding Time Evaluation

QAP Table 1 identifies the method holding times for each suite of parameters. Sample holding time checks are provided in Tab I. The samples were received and analyzed within the required holding times.

3.4.3 Receipt Temperature Evaluation

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

3.4.4 Analytical Method Checklist

The analytical methods reported by the laboratory were checked against the required methods enumerated in the Chloroform QAP. Analytical method checks are provided in Tab I. The analytical methods were consistent with the requirements of the Chloroform QAP.

3.4.5 Reporting Limit Evaluation

The analytical method reporting limits reported by the laboratory were checked against the reporting limits enumerated in the Chloroform QAP. Reporting Limit Checks are provided under Tab I. The analytes were measured and reported to the required reporting limits; several sets of sample results had the reporting limit raised for at least one analyte due to matrix interference and/or sample dilution. In these cases, the reported value for the analyte was higher than the increased detection limit.

3.4.6 Receipt pH Evaluation

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

3.4.7 Trip Blank Evaluation

Trip blank results were reviewed to identify any VOC contamination resulting from transport of the samples. Trip blank checks are provided in Tab I. The trip blank results were less than the reporting limit for all VOCs.

3.4.8 QA/QC Evaluation for Sample Duplicates

Section 9.1.4 a) of the QAP states that RPDs will be calculated for the comparison of duplicate and original field samples. The QAP acceptance limits for RPDs between the duplicate and original field sample is less than or equal to 20% unless the measured results are less than 5 times the required detection limit. This standard is based on the EPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, February 1994, 9240.1-05-01 as cited in the QAP. The RPDs are calculated for the duplicate pairs for all analytes regardless of whether or not the reported concentrations are greater than 5 times the required detection limits; however, data are considered noncompliant only when the results are greater than 5 times the reported detection limit and the RPD is greater than 20%. The additional duplicate information is provided for information purposes.

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

3.4.9 Rinsate Sample Check

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

While not required by the Chloroform QAP, DIFB samples are collected to analyze the quality of the DI water system at the Mill, which is also used to collect rinsate samples. A review of the analytical results reported for the DIFB sample indicated the sample results were nondetect.

3.4.10 Other Laboratory QA/QC

Section 9.2 of the QAP requires that the laboratory's QA/QC Manager check the following items in developing data reports: (1) sample preparation information is correct and complete, (2) analysis information is correct and complete, (3) appropriate analytical laboratory procedures are followed, (4) analytical results are correct and complete, (5) QC samples are within established control limits, (6) blanks are within QC limits, (7) special sample preparation and analytical requirements have been met, and (8) documentation is complete. In addition to other laboratory checks described above, EFRI's QA Manager rechecks QC samples and blanks (items (5) and

(6)) to confirm that the percent recovery for spikes and the relative percent difference for spike duplicates are within the method-specified acceptance limits, or that the case narrative sufficiently explains any deviation from these limits. Results of this quantitative check are provided in Tab I.

The lab QA/QC results met these specified acceptance limits except as noted below.

The QAP Section 8.1.2 requires that a Matrix Spike/Matrix Spike Duplicate (“MS/MSD”) pair be analyzed with each analytical batch. The QAP does not specify acceptance limits for the MS/MSD pair, and the QAP does not specify that the MS/MSD pair be prepared on EFRI samples only. Acceptance limits for MS/MSDs are set by the laboratories. The review of the information provided by the laboratories in the data packages verified that the QAP requirement to analyze an MS/MSD pair with each analytical batch was met. While the QAP does not require it, the recoveries were reviewed for compliance with the laboratory established acceptance limits. The QAP does not require this level of review, and the results of this review are provided for information only.

The information from the Laboratory QA/QC Summary Reports indicates that the MS/MSDs recoveries and the associated RPDs for the samples were within acceptable laboratory limits for the regulated compounds except as noted in Attachment 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 QAP, Section 8.1.2 requires that each analytical batch shall be accompanied by a method blank. The analytical batches routinely contain a blank, which is a blank sample made and carried through all analytical steps. For the Mill samples, a method blank was prepared for the analytical methods. Per the approved QAP, contamination detected in analysis of method blanks will be used to evaluate any analytical laboratory contamination of environmental samples. The QAP states that non-conformance conditions will exist when contaminant levels in the samples(s) are not an order of magnitude greater than the blank result. The method blanks for the quarterly samples had reported detections above the RL of chloromethane. The method blanks reported detection while the associated samples were all nondetect for chloromethane. The samples are not an order of magnitude greater than the blank as required by the QAP, but there is no effect on the usability of the data because the samples reported no detections. This

indicates that the contamination which affected the method blank did not affect the samples and no false positive results were reported in the samples as a result of the contamination.

Method blank results are included in Tab H.

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 associated mound decays due to reduced recharge. The perched groundwater mound associated with the southern wildlife pond is also diminishing due to reduced recharge at that location.

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 northern 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 northern wildlife ponds.

In addition, the southern wildlife pond is in relatively close proximity to the downgradient (southern) extremity of the chloroform plume. Reduced recharge at the southern pond, and decay of the associated groundwater mound, can be expected to impact water level behavior and chloroform and nitrate concentrations in wells within this portion of the chloroform plume.

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); at TW4-39, added during the fourth quarter of 2016; and at new well TW4-41, added this quarter. The overall impact was expected to be generally higher constituent concentrations in these wells over time until mass reduction resulting from pumping and natural attenuation eventually reduces concentrations. Short-term changes in concentrations at pumping wells and wells adjacent to pumping wells are also expected to result from changes in pumping conditions.

In addition to changes in the flow regime caused by wildlife pond recharge, perched flow directions are locally influenced by operation of the chloroform and nitrate pumping wells. Well defined cones of depression are 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.

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 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 has also been influenced by the persistent, relatively low water level at non-pumping well TW4-14, located east of TW4-4 and TW4-6. Although water level differences among these three wells have been diminishing, the water level at TW4-14 has typically been lower than the water level at TW4-6 and has been several feet lower than the water level at TW4-4 even though TW4-4 has been pumping since 2010. For the current quarter, however, the water level at TW4-14 (approximately 5534.7 feet above mean sea level ["ft amsl"]), is less than 1 foot higher than the water level at TW4-6 (approximately 5533.9 ft amsl) and is nearly 3 feet higher than the water level at TW4-4 (approximately 5531.8 ft amsl). This change is attributable to operation of new chloroform pumping well TW4-41, located immediately northeast of TW4-4. The combined pumping of TW4-4 and TW4-41 is expected to enhance capture in this area.

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. 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 $\mu\text{g/L}$ 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 (5532.7 feet amsl) is, however, lower than water levels at adjacent wells TW4-6 (5533.9 feet amsl), and TW4-23 (5535.3 feet amsl), as shown in the detail water level map under Tab C.

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 current quarterly water level at TW4-27 (approximately 5529.1 ft. amsl) is more than 5 feet lower than the water level at TW4-14 (5534.7 ft. amsl). Increases in water level differences between TW4-14 and TW4-27 since 2013 are attributable to more rapid increases in water levels at TW4-14 compared to TW4-27. This behavior likely results primarily from: the relative positions of the wells; past water delivery to the northern wildlife ponds; and the permeability distribution. Past seepage from the ponds caused propagation of water level increases in all directions including downgradient to the south. The relative hydraulic isolation of TW4-14 and TW4-27 delayed responses at these locations to such an extent that they are still responding to the past seepage. Water levels at these wells are still lower than in surrounding higher permeability materials even though water levels in surrounding materials are now generally decreasing due to reduced pond seepage and pumping. As a result, water levels at TW4-14 and TW4-27 are still increasing. Compared to TW4-27, the rate of increase is higher at TW4-14 due to factors that include: closer proximity to the northern pond seepage source; a smaller thickness of low permeability materials separating TW4-14 from surrounding higher permeability materials; and hydraulic gradients between TW4-14 and surrounding higher permeability materials that on average have been larger. Slowing of the rates of water level increase at TW4-14 (since 2015) and TW4-27 (since early 2014) is attributable to reduced hydraulic gradients as TW4-14 and TW4-27 water levels 'catch up' with water levels in surrounding higher permeability materials.

In addition, water levels in this area may also be affected by reduced recharge at the southern wildlife pond and the consequent decay of the associated groundwater mound. The decay of the mound is likely to contribute to the reduction in hydraulic gradients between the low permeability materials penetrated by TW4-14 and TW4-27 and the surrounding higher permeability materials. TW4-27 is closer to the southern wildlife pond than TW4-14. Any reduction in hydraulic gradients attributable to the southern pond is expected to impact TW4-27 sooner and to a greater extent than TW4-14, consistent with the lower rate of increase in water levels at TW4-27, and the earlier reduction in the rate of increase (since early 2014) as discussed above).

The low permeability at TW4-14 and TW4-27 is expected to retard the transport of chloroform to these wells (compared to nearby wells). As will be discussed in Section 4.2.3, TW4-14 and TW4-27 remain outside the plume with current quarter chloroform concentrations of approximately 5.12 $\mu\text{g/L}$ and 5.95 $\mu\text{g/L}$, respectively.

Chloroform exceeding 70 $\mu\text{g/L}$ 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 16.9 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 TW4-23, TW4-27, TW4-30, TW4-34, and TW4-35. TW4-30 is downgradient of TW4-29; TW4-23 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.
3. Chloroform concentrations at TW4-26 exceeded 70 µg/L for the first time during the second quarter of 2017. Chloroform at TW4-26 is bounded by non-detectable concentrations at TW4-23 (located up- to cross-gradient of TW4-26), and at TW4-34 (located downgradient of TW4-26). Chloroform at TW4-26 is bounded far to the south-southwest (cross-gradient) by MW-17 (non-detect) and far to the south (cross- to downgradient) by MW-22 (non-detect) but is not bounded directly to the south by any nearby wells. New chloroform well TW4-40 was installed approximately 200 feet south of TW4-26 in February, 2018. Chloroform at TW4-40 during the initial and current quarter's sampling exceeded 70 µg/L.

Eventually, TW4-4 pumping, enhanced by operation of adjacent new pumping well TW4-41, is likely to 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 temporary decreases in chloroform concentrations that occurred at TW4-6 and TW4-26 once TW4-4 pumping began (discussed in Section 4.2.3). 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.

However, decreasing water level trends are also consistent with reduced wildlife pond seepage. The decay of the groundwater mound associated with the southern wildlife pond, which is 3 to 4 times closer to the southern extremity of the chloroform plume than the northern ponds, is likely to have an impact on water levels within and adjacent to this portion of the plume.

At TW4-6 and TW4-26, decreasing water level trends (since about the fourth quarter of 2013), and increased concentrations (since the first quarter of 2014 and the third quarter of 2016, respectively) are also consistent with reduced wildlife pond seepage, in particular, reduced seepage from the southern wildlife pond. As the groundwater mound associated with the southern pond decays, groundwater flow directions in the southern extremity of the plume are likely to become more southerly, and plume migration is likely to turn more to the south. An increasingly southerly direction of plume migration is consistent with increasing concentrations at TW4-26.

In addition, generally decreasing concentrations at TW4-6 since the third quarter of 2015, and generally increasing concentrations at TW4-26 since the third quarter of 2016, suggest that TW4-4 pumping has arrested chloroform migration between TW4-4 and TW4-6, and that increasing chloroform at TW4-26 results from a remnant of the plume that continues to migrate south from TW4-6 to TW4-26.

Detectable chloroform concentrations at TW4-14 (since the fourth quarter of 2014) and TW4-27 (since the third quarter of 2015) suggest ongoing, 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 first quarter of 2018, as submitted with the Chloroform Monitoring Report for the first quarter of 2018, is attached under Tab E. A comparison of the water table contour maps for the current quarter (second quarter of 2018) to the water table contour maps for the previous quarter (first quarter of 2018) 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 TW4-39 and nitrate pumping well TW4-25). Increases in drawdown at chloroform pumping well TW4-39 and new pumping well TW4-41 compensated for reduced drawdown and apparent capture at nitrate pumping wells TW4-25 and TWN-2, resulting in an overall area of apparent capture that is similar to last quarter.

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.

The drawdowns at chloroform pumping wells TW4-1, TW4-4, TW4-39 and new well TW4-41 increased by more than 2 feet this quarter; however drawdowns at chloroform pumping wells MW-4, MW-26 and TW4-2, and nitrate pumping wells TW4-25 and TWN-2, decreased by more than 2 feet this quarter. Water level changes at other nitrate and chloroform pumping wells were 2 feet or less, although both increases (decreases in drawdown) and decreases (increases in drawdown) occurred. Water level fluctuations at pumping wells typically occur in part because of fluctuations in pumping conditions just prior to and at the time the measurements are taken. The reported water level for chloroform pumping well TW4-11 is below the depth of the Brushy Basin contact this quarter. Although both increases and decreases in drawdown occurred in pumping wells, the overall apparent capture area of the combined pumping system 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. However, increased drawdown at TW4-4 related to pumping at adjacent new well TW4-41 has generally increased drawdowns in this area and has contributed to southerly expansion of total pumping system capture this quarter.

Reported water level decreases of up to 0.31 feet at Piezometers 1 through 3A 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 0.36 feet at Piezometers 4 and 5 likely result primarily from reduced recharge at the southern wildlife pond. Reported water level decreases of approximately 0.24 and 0.29 feet, respectively, at TWN-1 and TWN-4 are consistent with continuing decay of the northern groundwater mound.

The reported water level at TW4-9 decreased by approximately 3.3 feet, likely the result of increased drawdown at nearby pumping well TW4-39.

The reported water level at MW-20 decreased by approximately 3.5 feet. 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. 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. However, increased drawdown at TW4-4 related to pumping at adjacent new well TW4-41 has generally increased drawdowns in this area and has contributed to southerly expansion of total pumping system capture this quarter.

Compared to last quarter, both increases and decreases in water levels occurred at nitrate and chloroform pumping wells, although water levels in chloroform pumping wells TW4-11, -21, -37 and nitrate pumping well TW4-24, were approximately the same as last quarter. The water levels in chloroform pumping wells MW-4, MW-26, TW4-2 and TW4-19 increased by approximately 4.9, 9.4, 14.7 and 0.8 feet, respectively; and the water levels in nitrate pumping wells TW4-22, TW4-25 and TWN-2 increased by approximately 0.12, 31.6 and 11.8 feet, respectively. Water

level decreases of approximately 10.4, 8.7, 0.2, 35.6 and 13.1 feet occurred in chloroform pumping wells TW4-1, TW4-4, TW4-20, TW4-39 and TW4-41. The apparent combined capture area of the nitrate and chloroform pumping systems is approximately the same as last quarter, although the area of the northern portion of the capture system has decreased and the southern portion has expanded relative to last quarter.

The capture associated with nitrate pumping wells and chloroform pumping wells added in 2015, 2016 and 2018 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).

Decreases in productivity at TW4-4 since the third quarter of 2016 are being addressed by the operation of new pumping well TW4-41 which is located adjacent to TW4-4.

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, TW4-39 and TW4-41) is approximately 5.3 gpm. This calculation is based on the total volume pumped by these wells over the 90 day quarter (685,276 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 1.9 gpm or 56%, and is considered adequate at the present time even with the reduced productivities of some wells. Reduced productivity is expected to be offset during future quarters by pumping at new chloroform well TW4-41. 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 155 µg/L this quarter) is likely related to reduced dilution. Although the chloroform concentration in TW4-6 has decreased from 1,180 µg/L during the first quarter of

2015 to 74.9 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. The addition of chloroform pumping well TW4-41 is expected to enhance the beneficial effects of pumping in the vicinity of TW4-4.

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 54.5 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 (augmented by pumping at adjacent new well TW4-41) 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 (and TW4-41) pumping. Such behavior is expected by analogy with the decreases in chloroform concentrations at TW4-6 and TW4-26 that occurred once TW4-4 pumping began. However, concentrations at both TW4-29 and TW4-33 were relatively stable (rather than decreasing) for several quarters after installation. Concentrations at TW4-29 appear to be on an upward trend since the third quarter of 2014. As discussed in Section 4.1.1, although decreasing concentration trends at both wells are eventually expected to occur, relatively stable chloroform at TW4-33 and increases in concentration at TW4-29 since the third quarter of 2014 suggest that chloroform migration has been arrested at TW4-33 by TW4-4 pumping and that increasing chloroform at downgradient well TW4-29 results from a remnant of the plume that continues to migrate downgradient (toward TW4-30, which bounds to plume to the east). The influence of TW4-4 pumping at the distal end of the plume is consistent with generally decreasing water levels at both TW4-29 and TW4-33. However, as discussed in Section 4.1.1, decreasing water level trends are also consistent with reduced wildlife pond seepage. The decay of the groundwater mound associated with the southern wildlife pond, which is 3 to 4 times closer to the southern extremity of the chloroform plume than the northern ponds, is likely to have an impact on water levels within and adjacent to this portion of the plume.

At TW4-6 and TW4-26, generally decreasing water level trends (since about the fourth quarter of 2013), and increased concentrations (since the first quarter of 2014 and the third quarter of 2016, respectively) are also consistent with reduced wildlife pond seepage, in particular reduced seepage from the southern wildlife pond. As the groundwater mound associated with the southern pond decays, groundwater flow directions in the southern extremity of the plume are likely to become more southerly, and plume migration is likely to turn more to the south. An increasingly southerly direction of plume migration is consistent with increasing concentrations at TW4-26 (from less than 10 µg/L in the third quarter of 2016 to 960 µg/L this quarter).

In addition, as in the area near TW4-29 and TW4-33, generally decreasing concentrations at TW4-6 since the third quarter of 2015, and generally increasing concentrations at TW4-26 since the third quarter of 2016, suggest that TW4-4 pumping has arrested chloroform migration between TW4-4 and TW4-6, and that increasing chloroform at TW4-26 results from a remnant of the plume that continues to migrate south from TW4-6 to TW4-26.

Furthermore, detectable chloroform concentrations at TW4-14 (since the fourth quarter of 2014) and TW4-27 (since the third quarter of 2015) suggest ongoing, 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: MW-26, TW4-1, TW4-2, TW4-21, TW4-24 and TW4-39;
- b) Chloroform concentrations decreased by more than 20% in the following wells compared to last quarter: TW4-6, TW4-8, TW4-10, TW4-16, TW4-20, TW4-22, TW4-33 and TW4-40;
- c) Chloroform concentrations have remained within 20% in the following wells compared to last quarter: MW-4, TW4-4, TW4-5, TW4-7, TW4-9, TW4-11, TW4-14, TW4-18, TW4-19, TW4-26, TW4-27, TW4-29, TW4-30 and TW4-37;
- d) Chloroform concentrations have remained non-detect in the following wells: MW-32, TW4-3, TW4-12, TW4-13, TW4-23, TW4-25, TW4-28, TW4-31, TW4-32, TW4-34, TW4-35, TW4-36 and TW4-38; and
- e) The chloroform concentration at new well TW4-41 was 1,400 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, TW4-2, TW4-6, TW4-8, TW4-10, TW4-16, TW4-20, TW4-21, TW4-22, TW4-24, TW4-33, TW4-39 and TW4-40 had changes in concentration greater than 20%. Of these, MW-26, TW4-1, TW4-2, TW4-20, TW4-21 and TW4-39 are chloroform pumping wells; and TW4-22 and TW4-24 are nitrate pumping wells. TW4-6 is located adjacent to chloroform pumping well TW4-4; TW4-8 is located adjacent to chloroform pumping well MW-4; TW4-10 is located adjacent to chloroform pumping wells MW-26 and TW4-39; TW4-16 is located adjacent to chloroform pumping wells TW4-11 and MW-26; and TW4-33 is located adjacent to chloroform pumping wells TW4-4 and TW4-41. Fluctuations in concentrations at both chloroform and nitrate pumping wells and wells adjacent to pumping wells likely result in part from changes in pumping.

TW4-6 and TW4-40 are also located within the southern extremity of the plume, and TW4-33 is located near the eastern extremity of the plume. Fluctuations in concentrations at these wells are expected based on their locations near the plume margins.

Chloroform pumping wells TW4-11, TW4-19, TW4-20, TW4-37 and TW4-39; and nitrate pumping well TW4-22, had the highest detected chloroform concentrations of 2,800, 2,980, 12,000, 14,400, 7,160 and 3,010 $\mu\text{g/L}$, respectively. Since last quarter, the chloroform concentrations in TW4-11 decreased from 3,090 to 2,800 $\mu\text{g/L}$; TW4-19 increased from 2,640 to 2,980 $\mu\text{g/L}$; TW4-20 decreased from 15,400 $\mu\text{g/L}$ to 12,000 $\mu\text{g/L}$, and TW4-39 increased from 2,870 to 7,160 $\mu\text{g/L}$. The chloroform concentration in TW4-22 decreased from 4,530 to 3,010 $\mu\text{g/L}$; and TW4-37 increased from 12,900 $\mu\text{g/L}$ to 14,400 $\mu\text{g/L}$. The concentration in pumping well TW4-21 increased from 421 to 532 $\mu\text{g/L}$ and the chloroform concentration in nitrate pumping well TW4-24 increased from 24.9 to 49.2 $\mu\text{g/L}$. TW4-24 remains just outside the chloroform plume. Nitrate pumping well TW4-25 remained non-detect. 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 220 $\mu\text{g/L}$ to 155 $\mu\text{g/L}$. TW4-8 is located immediately east of chloroform pumping well MW-4, where chloroform was detected at a concentration of 1,240 $\mu\text{g/L}$. From the first quarter of 2005 through the fourth quarter of 2013, the plume boundary remained between MW-4 and TW4-8. The occurrence of elevated chloroform at TW4-8 is likely related to its location along the eastern plume boundary immediately east of pumping well MW-4. Changes in the plume boundary near TW4-8 are expected to result from changes in pumping and reduced dilution resulting from cessation of water delivery to the northern wildlife ponds. Chloroform at TW4-8 is bounded to the north by TW4-3 (non-detect), to the northeast by TW4-13 (non-detect), to the east by TW4-36 (non-detect), and to the southeast by TW4-14 (5.1 $\mu\text{g/L}$).

Chloroform at TW4-29 (located at the southeastern tip of the plume, to the east of TW4-26 and to the south of TW4-27) decreased from 533 $\mu\text{g/L}$ to 474 $\mu\text{g/L}$, and chloroform at TW4-30, located immediately downgradient of TW4-29, increased slightly from approximately 16.4 $\mu\text{g/L}$ to approximately 16.9 $\mu\text{g/L}$. Chloroform at TW4-14 decreased from 5.8 $\mu\text{g/L}$ to 5.1 $\mu\text{g/L}$ and chloroform at TW4-27 decreased from approximately 6.9 $\mu\text{g/L}$ to approximately 5.9 $\mu\text{g/L}$. Concentration trends at these wells are generally consistent with ongoing, but slow, downgradient migration of chloroform at these locations. Chloroform at TW4-29 is bounded to

the north by TW4-27 (5.9 µg/L), to the east by TW4-30 (16.9 µg/L), to the southeast by TW4-35 (non-detect), to the south by TW4-34 (non-detect), and to the west by TW4-23 (non-detect). Increases in concentration at TW4-26 since the third quarter of 2016 are also consistent with continuing downgradient chloroform migration which is likely enhanced by the decay of the groundwater mound associated with the southern wildlife pond.

Chloroform at TW4-33 (located between TW4-4 and TW4-29) showed a decrease in concentration, from approximately 128 µg/L to 88 µg/L. Chloroform at TW4-33 is bounded to the north by TW4-14 (5.1 µg/L), to the east by TW4-27 (5.9 µg/L), and to the west by TW4-23 (non-detect). Recent increases in concentration at TW4-26 have widened the southeast extremity of the plume which historically was narrow compared to more upgradient locations.

The chloroform concentration in TW4-6 decreased from 159 µg/L to 75 µg/L, but 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 orders of magnitude decrease in permeability south (downgradient) of TW4-4. Chloroform migration rates in the vicinities of wells TW4-26, TW4-29 and TW4-33 have been 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 slight contractions near TW4-6, TW4-16, and TW4-40; and slight expansion near TW4-24. Chloroform concentrations at TW4-9 decreased from approximately 159 µg/L to 134 µg/L, and TW4-9 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 recently installed well TW4-38 (non-detect) located immediately to the east-southeast. The general

increase at TW4-9 since the first quarter of 2016 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 whereas TW4-16 is again outside the plume this quarter. General increases in concentrations 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. In addition, concentrations at TW4-6 are likely influenced by reduced recharge at the southern wildlife pond and the decay of the associated groundwater mound. A decreasing trend in chloroform concentration at TW4-6 since the third quarter of 2015, and generally increasing concentrations at TW4-26 since the third quarter of 2016, suggest that TW4-4 pumping has arrested chloroform migration between TW4-4 and TW4-6, and that increasing chloroform at TW4-26 results from a remnant of the plume that continues to migrate south from TW4-6 to TW4-26. Initiation of pumping at new well TW4-41, located adjacent to TW4-4, is expected to help reduce downgradient plume expansion in this area.

Although the nitrate pumping system may redistribute chloroform within the plume and cause changes in the chloroform plume boundaries, continued operation of the nitrate pumping system is expected to enhance capture associated with the chloroform pumping system. 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; of TW4-39 in the fourth quarter of 2016; and of TW4-41 this quarter, is expected to have a beneficial impact. Generally reduced concentrations at TW4-6 (since the first quarter of 2015) and TW4-16 (since the fourth quarter of 2014) after previous increases are likely the result of initiation of TW4-1, TW4-2, and TW4-11 pumping.

5.0 LONG TERM PUMP TEST AT MW-4, MW-26, TW4-19, TW4-20, AND TW4-4 OPERATIONS REPORT

5.1 Introduction

As a part of the investigation of chloroform contamination at the Mill site, EFRI has been conducting a Long Term Pump Test on MW-4, TW4-19, MW-26, and TW4-20, and, since January 31, 2010, TW4-4. The purpose of the test is to serve as an interim action that will remove a significant amount of chloroform-contaminated water while gathering additional data on hydraulic properties in the area of investigation.

Beginning in January 2013, EFRI began long term pumping of TW4-22, TW4-24, TW4-25, and TW4-02 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. Beginning in April 2018 EFRI began long term pumping of TW4-41.

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, TW4-1, TW4-2, TW4-4, TW4-11, TW4-19, MW-26, TW4-20, TW4-21, TWN-2, TW4-22, TW4-24, TW4-25, TW4-37, TW4-39 and TW4-41 on a weekly basis, and at selected temporary wells and permanent monitoring wells on a monthly basis.
- Measurement of pumping history, including:
 - pumping rates
 - total pumped volume
 - operational and non-operational periods.
- Periodic sampling of pumped water for chloroform and nitrate/nitrite analysis and other constituents.

5.3 Water Level Measurements

Beginning August 16, 2003, the frequency of water level measurements from MW-4, MW-26, and TW4-19 was reduced to weekly. From commencement of pumping TW4-20, and regularly after March 1, 2010 for TW4-4, water levels in these wells have been measured weekly. 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, TW4-41, 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,

TW4-41 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 TW4-22 and TW4-24

During the routine weekly checks on June 28, 2018 the Field Technicians noted that both TW4-22 and TW4-24 were without power. Mill Maintenance personnel were alerted and immediately replaced a fuse. Power was restored within several hours. No official notifications to DWMRC were required as the issue was rectified within 24-hours of discovery.

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 20.1 lb., which is approximately 12% larger than the approximately 18 lb. removed last quarter. The larger rate of mass removal is attributable primarily to the increased concentration at TW4-39 and the addition of TW4-41 to the pumping system.

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 essentially the same as last quarter’s estimate. 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 substantially lower than both the third quarter 2015

estimate of 1,712 lb., and the maximum of 2,261 lb. estimated for the second quarter of 2016. 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 general decrease in the residual mass estimates since the second quarter of 2016 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, 2016 and 2017 ranged from approximately 84% to 93%. The approximate proportion of the mass of the plume under capture this quarter is 93 %, which is slightly lower than last quarter's estimate of 96 %.

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

No corrective actions were necessary for the current reporting period.

6.1 Assessment of Previous Quarter's Corrective Actions

There were no corrective actions required during the previous quarters' monitoring period.

7.0 CURRENT COMPLIANCE STATUS

7.1 Long Term Chloroform Plume Control

The chloroform plume is currently entirely within the Mill property boundary and is bounded on all sides by wells having chloroform concentrations that are either non-detect or less than 70 µg/L (Tab J). The plume is bounded to the north by TW4-25 (non-detect); to the west and southwest by MW-31 (non-detect), MW-32 (non-detect), TW4-23 (non-detect), and TW4-24 (approximately 49 µg/L); to the east by TW4-3 (non-detect), TW4-5 (approximately 14 µg/L),

TW4-13 (non-detect), TW4-14 (approximately 5 µg/L), TW4-18 (approximately 60 µg/L), TW4-27 (approximately 6 µg/L), TW4-30 (approximately 17 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). Although TW4-26 no longer bounds the chloroform plume to the south-southwest, MW-17 (non-detect) and MW-38 (non-detect) bound the plume to the far southwest (cross-gradient), and MW-22 (non-detect), MW-39 (non-detect) and MW-40 (non-detect) bound the plume far to the south (cross- to downgradient).

Because TW4-26 no longer bounds the chloroform plume to the south-southwest, TW4-40 was installed south (downgradient) of TW4-26 during the first quarter of 2018. Because the current quarter is the second consecutive quarter that chloroform in TW4-40 exceeded 70 µg/L, additional action is required as discussed in Section 7.4. Otherwise, data collected to date indicate there are sufficient chloroform monitoring and pumping wells to effectively define, control, and monitor the plume. As noted above MW-17 (non-detect) and MW-38 (non-detect) bound the plume to the far southwest (cross-gradient), and MW-22 (non-detect), MW-39 (non-detect) and MW-40 (non-detect) bound the plume far to the south (cross- to downgradient).

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 µg/L for two or more quarters.

The compliance well chloroform concentrations were below the 70 µg/L except for TW4-40. As noted above, an exceedance is defined as the presence of chloroform in any compliance monitoring well in excess of 70 µg/L for two or more quarters. The previously reported chloroform concentration for TW4-40 was 248 µg/L and the current concentration is 131 µg/L. Because an exceedance of chloroform in TW4-40 has been reported two or more consecutive quarters, an Exceedance Notice and Plan and Time Schedule are required and will be submitted in accordance with the schedule required by the GCAP. A copy of the Exceedance Notice is included in Tab N.

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 approximately the same as last quarter’s estimate. The mass of chloroform removed from the plume this quarter is approximately 20.1 lb., which is approximately 12% larger than the approximately 18 lb. removed last quarter. The larger rate of mass removal is attributable primarily to the increased concentration at TW4-39 and the addition of TW4-41 to the pumping system.

The chloroform plume is currently entirely within the Mill property boundary and is bounded on all sides by wells having chloroform concentrations that are either non-detect or less than 70 µg/L (Tab J). The plume is bounded to the north by TW4-25 (non-detect); to the west and southwest by MW-31 (non-detect), MW-32 (non-detect), TW4-23 (non-detect), and TW4-24 (approximately 49 µg/L); to the east by TW4-3 (non-detect), TW4-5 (approximately 14 µg/L), TW4-13 (non-detect), TW4-14 (approximately 5 µg/L), TW4-18 (approximately 60 µg/L), TW4-27 (approximately 6 µg/L), TW4-30 (approximately 17 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). Although TW4-26 no longer bounds the chloroform plume to the south-southwest, MW-17 (non-detect) and MW-38 (non-detect) bound the plume to the far southwest (cross-gradient), and MW-22 (non-detect), MW-39 (non-detect) and MW-40 (non-detect) bound the plume far to the south (cross- to downgradient).

Because TW4-26 no longer bounds the chloroform plume to the south-southwest, TW4-40 was installed south (downgradient) of TW4-26 during the first quarter of 2018. Because the current quarter is the second consecutive quarter that chloroform in TW4-40 exceeded 70 µg/L, additional action is required as discussed in Section 7.4. Otherwise, data collected to date indicate there are sufficient chloroform monitoring and pumping wells to effectively define, control, and monitor the plume. As noted above, MW-17 (non-detect) and MW-38 (non-detect) bound the plume to the far southwest (cross-gradient), and MW-22 (non-detect), MW-39 (non-detect) and MW-40 (non-detect) bound the plume far to the south (cross- to downgradient).

The water level contour maps for the second quarter, 2018 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, of TW4-39 during the fourth quarter of 2016; and of TW4-41 this quarter has also contributed to capture and chloroform removal effectiveness.

Although pumping began in the first quarter of 2010, 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. In addition, increased drawdown at TW4-4 related to pumping at adjacent new well TW4-41 has generally increased drawdowns in this area and has contributed to southerly expansion of total pumping system capture this quarter.

Cones of depression associated with the nitrate pumping wells became evident as of the fourth quarter of 2013, and capture associated with the nitrate pumping is expected to continue to develop. Overall, the apparent capture area of the combined chloroform and nitrate pumping systems is similar to last quarter.

'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 5.3 gpm, which exceeds the calculated background flow by 1.9 gpm or 56%, 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.

MW-26, TW4-1, TW4-2, TW4-6, TW4-8, TW4-10, TW4-16, TW4-20, TW4-21, TW4-22, TW4-24, TW4-33, TW4-39 and TW4-40 had changes in concentration greater than 20%. Of these, MW-26, TW4-1, TW4-2, TW4-20, TW4-21 and TW4-39 are chloroform pumping wells; and TW4-22 and TW4-24 are nitrate pumping wells. TW4-6 is located adjacent to chloroform pumping well TW4-4; TW4-8 is located adjacent to chloroform pumping well MW-4; TW4-10 is located adjacent to chloroform pumping wells MW-26 and TW4-39; TW4-16 is located adjacent to chloroform pumping wells TW4-11 and MW-26; and TW4-33 is located adjacent to chloroform pumping wells TW4-4 and TW4-41.

Fluctuations in concentrations at both chloroform and nitrate pumping wells and wells adjacent to pumping wells likely result in part from changes in pumping. TW4-6 and TW4-40 are also located within the southern extremity of the plume, and TW4-33 is located near the eastern extremity of the plume. Fluctuations in concentrations at these wells are expected based on their locations near the plume margins. 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.

Chloroform pumping wells TW4-11, TW4-19, TW4-20, TW4-37 and TW4-39; and nitrate pumping well TW4-22, had the highest detected chloroform concentrations of 2,800, 2,980, 12,000, 14,400, 7,160 and 3,010 $\mu\text{g/L}$, respectively. Since last quarter, the chloroform concentrations in TW4-11 decreased from 3,090 to 2,800 $\mu\text{g/L}$; TW4-19 increased from 2,640 to 2,980 $\mu\text{g/L}$; TW4-20 decreased from 15,400 $\mu\text{g/L}$ to 12,000 $\mu\text{g/L}$, and TW4-39 increased from

2,870 to 7,160 µg/L. The chloroform concentration in TW4-22 decreased from 4,530 to 3,010 µg/L; and TW4-37 increased from 12,900 µg/L to 14,400 µg/L. The concentration in pumping well TW4-21 increased from 421 to 532 µg/L and the chloroform concentration in nitrate pumping well TW4-24 increased from 24.9 to 49.2 µg/L. TW4-24 remains just outside the chloroform plume. Nitrate pumping well TW4-25 remained non-detect. 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 220 µg/L to 155 µg/L. TW4-8 is located immediately east of chloroform pumping well MW-4, where chloroform was detected at a concentration of 1,240 µg/L. From the first quarter of 2005 through the fourth quarter of 2013, the plume boundary remained between MW-4 and TW4-8. The occurrence of elevated chloroform at TW4-8 is likely related to its location along the eastern plume boundary immediately east of pumping well MW-4. Changes in the plume boundary near TW4-8 are expected to result from changes in pumping and reduced dilution resulting from cessation of water delivery to the northern wildlife ponds. Chloroform at TW4-8 is bounded to the north by TW4-3 (non-detect), to the northeast by TW4-13 (non-detect), to the east by TW4-36 (non-detect), and to the southeast by TW4-14 (5.1 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 (near TW4-29 and TW4-33) into the low permeability materials penetrated by TW4-14 and TW4-27. Chloroform at TW4-14 decreased from approximately 5.8 µg/L to 5.1 µg/L and chloroform at TW4-27 decreased from approximately 7 µg/L to approximately 6 µg/L.

Chloroform at TW4-29 (located at the southeastern tip of the plume, to the east of TW4-26 and to the south of TW4-27) decreased from 533 µg/L to 474 µg/L, and chloroform at TW4-30, located immediately downgradient of TW4-29, increased slightly from approximately 16.4 µg/L to approximately 16.9 µg/L. These changes in concentration are also consistent with ongoing, but slow, downgradient migration of chloroform at these locations. Chloroform at TW4-29 is bounded to the north by TW4-27 (5.9 µg/L), to the east by TW4-30 (16.9 µg/L), to the southeast by TW4-35 (non-detect), to the south by TW4-34 (non-detect), and to the west by TW4-23 (non-detect). Increases in concentration at TW4-26 since the third quarter of 2016 are also consistent with continuing, but generally slow, downgradient chloroform migration which is likely enhanced by the decay of the groundwater mound associated with the southern wildlife pond.

Chloroform at TW4-33 (located between TW4-4 and TW4-29) showed a decrease in concentration, from approximately 128 µg/L to 88 µg/L. Chloroform at TW4-33 is bounded to the north by TW4-14 (5.1 µg/L), to the east by TW4-27 (5.9 µg/L), and to the west by TW4-23 (non-detect). Recent increases in concentration at TW4-26 have widened the southeast extremity of the plume which historically was narrow compared to more upgradient locations.

Although changes in concentration have occurred in wells within the chloroform plume, the boundaries of the plume have not changed significantly since the last quarter, except for slight contractions near TW4-6, TW4-16, and TW4-40; and slight expansion near TW4-24.

Chloroform concentrations at TW4-9 decreased from approximately 159 µg/L to 134 µg/L, and TW4-9 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 recently installed well TW4-38 (non-detect) located immediately to the east-southeast. The general increase at TW4-9 since the first quarter of 2016 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. Both remain within the plume this quarter. 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. In addition, concentrations at TW4-6 may be influenced by reduced recharge at the southern wildlife pond and the decay of the associated groundwater mound. A decreasing trend in chloroform concentration at TW4-6 since the third quarter of 2015, and generally increasing concentrations at TW4-26 since the third quarter of 2016, suggest that TW4-4 pumping has arrested chloroform migration between TW4-4 and TW4-6, and that increasing chloroform at TW4-26 results from a remnant of the plume that continues to migrate south from TW4-6 to TW4-26.

Although the nitrate pumping system may redistribute chloroform within the plume and cause changes in the chloroform plume boundaries, continued operation of the nitrate pumping system is expected to enhance capture associated with the chloroform pumping system. 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; of TW4-39 in the fourth quarter of 2016; and of TW4-41 this quarter is expected to have a beneficial impact. Generally reduced concentrations at TW4-6 (since the first quarter of 2015) and TW4-16 (since the fourth quarter of 2014) after previous increases are likely the result of initiation of TW4-1, TW4-2, and TW4-11 pumping.

Continued operation of chloroform pumping wells MW-4, MW-26, TW4-19, and TW4-20 is recommended. Pumping these wells, regardless of any short-term fluctuations in concentrations detected at the wells, helps to reduce downgradient chloroform migration by removing chloroform mass and reducing hydraulic gradients, thereby allowing natural attenuation to be more effective. Continued operation of chloroform pumping well TW4-4, augmented by pumping at adjacent new well TW4-41, 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, as noted above, 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, TW4-37 and TW4-39 is recommended because pumping these wells has increased overall capture and improved chloroform mass removal rates. Continued pumping of new well TW4-41 is also recommended to further enhance capture and increase mass removal rates.

Furthermore, because of the influence of TW4-4 pumping (now augmented by TW4-41 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. As discussed above, increases in concentration at TW4-26 since the third quarter of 2016 that are consistent with continuing downgradient chloroform migration are also likely enhanced by the decay of the groundwater mound associated with the southern wildlife pond.

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.

Energy Fuels Resources (USA) Inc.

By:



Scott A. Bakken
Senior Director Regulatory Affairs



Date

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	6/8/2018	6/21/2018
TW4-01	6/8/2018	6/21/2018
TW4-02	6/8/2018	6/21/2018
TW4-03	6/12/2018	6/29/2018 - 7/10/2018
TW4-03R	6/11/2018	6/29/2018 - 7/10/2018
TW4-04	6/8/2018	6/21/2018
TW4-05	6/13/2018	6/29/2018 - 7/10/2018
TW4-06	6/14/2018	6/29/2018 - 7/10/2018
TW4-06R	6/13/2018	6/29/2018 - 7/10/2018
TW4-07	6/14/2018	6/29/2018 - 7/10/2018
TW4-08	6/14/2018	6/29/2018 - 7/10/2018
TW4-09	6/14/2018	6/29/2018 - 7/10/2018
TW4-10	6/14/2018	6/29/2018 - 7/10/2018
TW4-11	6/8/2018	6/21/2018
TW4-12	6/12/2018	6/29/2018 - 7/10/2018
TW4-13	6/12/2018	6/29/2018 - 7/10/2018
TW4-14	6/13/2018	6/29/2018 - 7/10/2018
MW-26	6/8/2018	6/21/2018
TW4-16	6/14/2018	6/29/2018 - 7/10/2018
MW-32	6/14/2018	6/29/2018 - 7/10/2018
TW4-18	6/13/2018	6/29/2018 - 7/10/2018
TW4-19	6/8/2018	6/21/2018
TW4-20	6/14/2018	6/29/2018 - 7/10/2018
TW4-21	6/8/2018	6/21/2018
TW4-22	6/8/2018	6/21/2018
TW4-23	6/13/2018	6/29/2018 - 7/10/2018
TW4-24	6/14/2018	6/29/2018 - 7/10/2018
TW4-25	6/14/2018	6/29/2018 - 7/10/2018
TW4-26	6/14/2018	6/29/2018 - 7/10/2018
TW4-27	6/13/2018	6/29/2018 - 7/10/2018
TW4-28	6/12/2018	6/29/2018 - 7/10/2018
TW4-29	6/14/2018	6/29/2018 - 7/10/2018
TW4-30	6/13/2018	6/29/2018 - 7/10/2018
TW4-31	6/12/2018	6/29/2018 - 7/10/2018
TW4-32	6/12/2018	6/29/2018 - 7/10/2018
TW4-33	6/13/2018	6/29/2018 - 7/10/2018
TW4-34	6/13/2018	6/29/2018 - 7/10/2018
TW4-35	6/13/2018	6/29/2018 - 7/10/2018
TW4-36	6/12/2018	6/29/2018 - 7/10/2018
TW4-37	6/8/2018	6/21/2018
TW4-38	6/13/2018	6/29/2018 - 7/10/2018
TW4-39	6/8/2018	6/21/2018
TW4-40	6/14/2018	6/29/2018 - 7/10/2018
TW4-41	5/9/2018	5/22/2018
TW4-60	6/8/2018	6/21/2018
TW4-65	6/12/2018	6/29/2018 - 7/10/2018
TW4-70	6/13/2018	6/29/2018 - 7/10/2018
TW4-75	6/14/2018	6/29/2018 - 7/10/2018

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

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

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 TW4-9.

Highlighted wells are continuously pumped.

Notes:

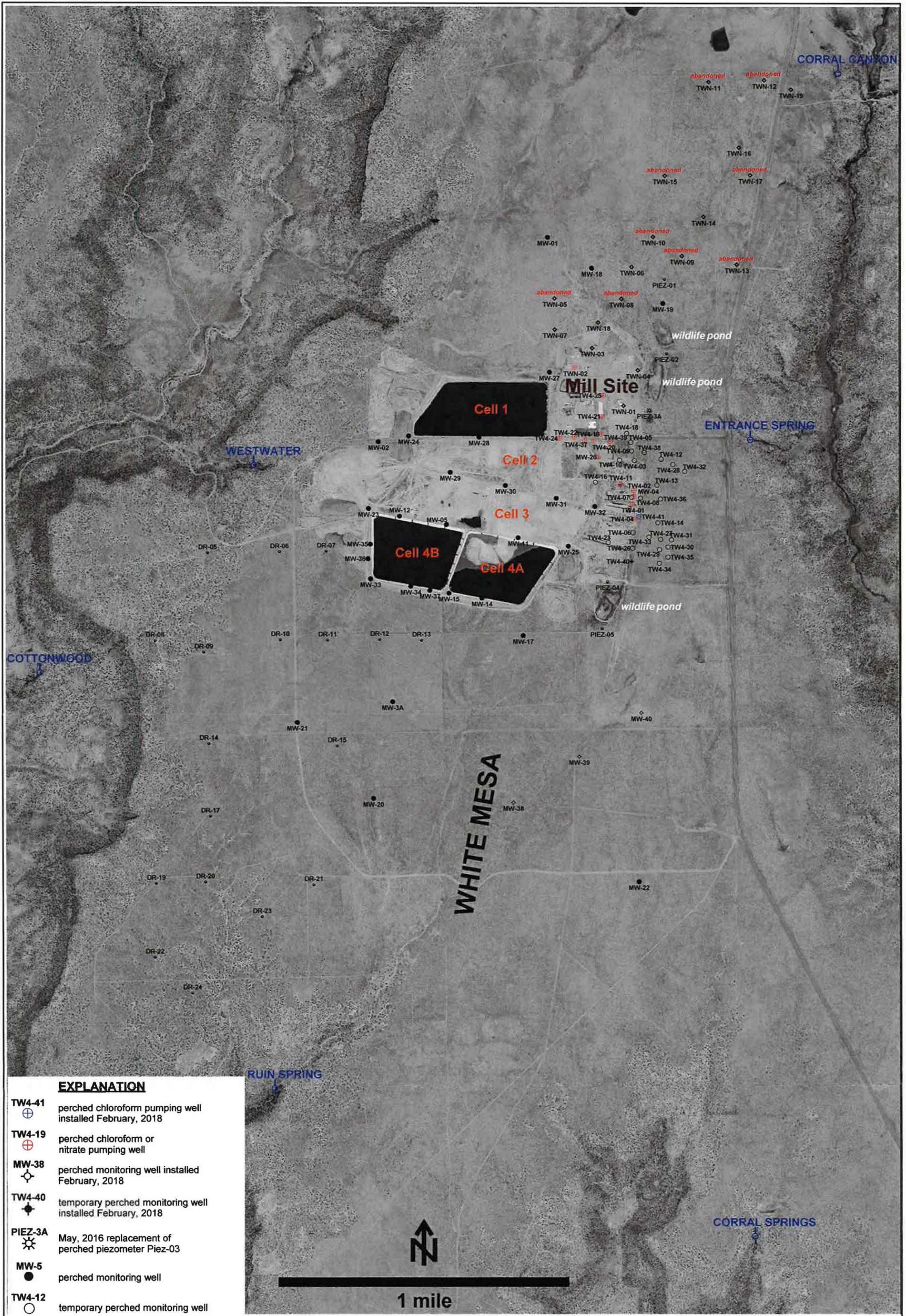
Dates in italics are the original laboratory submission dates. Resubmissions were required to correct reporting errors or to address reanalyses.

INDEX OF TABS

- Tab A Site Plan and Perched Well Locations White Mesa Site
- Tab B Order of Sampling and Field Data Worksheets
- Tab C Weekly and Monthly Depth to Water Data
- Tab D Kriged Current Quarter Groundwater Contour Map, Capture Zone Map, Capture Zone Details Map, and Depth to Water Data
- Tab E Kriged Previous Quarter Groundwater Contour Map
- Tab F Depths to Groundwater and Elevations and Hydrographs of Groundwater Elevations over Time for Chloroform Monitoring Wells
- Tab G Chloroform Mass Removed and Volume Pumped in Chloroform Pumping Wells over Time
- Tab H Laboratory Analytical Reports
- Tab I Quality Assurance and Data Validation Tables
 - I-1 Field Data QA/QC Evaluation
 - I-2 Holding Time Evaluation
 - I-3 Receipt Temperature Check
 - I-4 Analytical Method Check
 - I-5 Reporting Limit Evaluation
 - I-6 Trip Blank Evaluations
 - I-7 QA/QC Evaluation for Sample Duplicates
 - I-8 QC Control Limits for Analyses and Blanks
 - I-9 Rinsate Check
- Tab J Kriged Current Quarter Chloroform Isoconcentration Map
- Tab K Analyte Concentration Data and Chloroform Concentration Trend Graphs over Time
- Tab L Contour Map Based Chloroform Plume Mass Calculations and Data Over Time
- Tab M CSV Transmittal Letter
- Tab N Exceedance Notices for the Reporting Period

Tab A

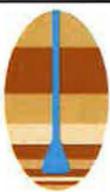
Site Plan and Perched Well Locations White Mesa Site



EXPLANATION

- TW4-41  perched chloroform pumping well installed February, 2018
- TW4-19  perched chloroform or nitrate pumping well
- MW-38  perched monitoring well installed February, 2018
- TW4-40  temporary perched monitoring well installed February, 2018
- 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/may18/Uwelloc0318.srf	A-1

Tab B

Order of Sampling and Field Data Worksheets

Order of Contamination for 2nd Quarter 2018 Chloroform Purging Event

Well	Sample time	Chloroform Levels	Rinsate date/time	Water level	Well Depth
TW4-03	6/12/18 0657	ND	6/11/18/1010		141
TW4-28	6/12/18 0707	ND			107
TW4-32	6/12/18 0716	ND			115.1
TW4-12	6/12/18 0723	ND			101.5
TW4-13	6/12/18 0730	ND			102.5
TW4-36	6/12/18 0738	ND			99
TW4-31	6/12/18 0745	ND			106
TW4-34	6/13/18 0850	ND			97.2
TW4-35	6/13/18 0657	ND			87.5
TW4-23	6/13/18 0707	ND			114
MW-32	6/14/18 1300	ND			130.6 Bladder pump
TW4-38	6/13/18 0720	ND			112.75
114 - 1032 TW4-25	6/13/18 1003	ND			134.8 Cont. Pumping
TW4-14	6/13/18 0728	5.8			93
TW4-27	6/13/18 0737	6.95			96
TW4-05	6/13/18 0746	15.2			120
TW4-30	6/13/18 0756	16.4			92.5
114 1020 TW4-24	6/13/18 1018	24.9			112.5 Cont. Pumping
TW4-18	6/13/18 0809	62.3			137.5
TW4-01	6/13/18 1307	70.4			110 Cont. Pumping
TW4-33	6/13/18 0821	128			87.9
TW4-06	6/14/18 0820	159	6/13/18 0845		97.5
TW4-09	6/14/18 0831	159			120
TW4-16	6/14/18 0841	170			146.3
TW4-08	6/14/18 0847	220			125
TW4-40	6/14/18 0855	248			86
TW4-21	6/15/18 0953	421			121 Cont. Pumping
TW4-29	6/14/18 0903	533			93.5
TW4-07	6/14/18 0912	721			120
TW4-02	6/18/18 1252	764			120 Cont. Pumping
1/14/18 0953 TW4-26	6/18/18 1000	1050			86
TW4-04	6/18/18 1320	1160			112 Cont. Pumping
MW-26	6/18/18 1235	1210			122.5 Cont. Pumping
TW4-10	6/14/18 1001	1240			111
MW-04	6/18/18 1300	1320			124 Cont. Pumping
TW4-19	6/18/18 1415	2640			125 Cont. Pumping
TW4-39	6/18/18 1226	2870			120 Cont. Pumping
TW4-11	6/18/18 1244	3090			100 Cont. Pumping
TW4-22	6/18/18 1026	4530			113.5 Cont. Pumping
TW4-37	6/18/18 1210	12900			112 Cont. Pumping
1/14 - 1010 TW4-20	6/18/18 1215	15400			106 Cont. Pumping
TW4-41					97.75 Cont. Pumping

TW4-60 D.I. Blank 6/8/18-1400
 TW4-65 Duplicate TW4-28 6-12-18/0707
 TW4-70 Duplicate 23 6-13-18/0707
 TW4-75 Duplicate 09 6-14-18/0831

Comments:



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-04
Field Sample ID	MW-04_06082018
Purge Date & Time	6/8/2018 12:55
Sample Date & Time	6/8/2018 13:00

Sampling Program	Chloroform Monitoring
Sampling Event	2018 Q2 Chloroform

Sampler	TH/GP
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Purging Equipment	Pump
Pump Type	Continuous
Purging Method	2 Casings
Casing Volume ()	
Calculated Casing Volumes Purge Duration ()	
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Sunny
External Ambient Temperature (C)	27
Previous Well Sampled	TW4-02

Well Depth (ft)	123.60
Well Casing Diameter (in)	3
Depth to Water Before Purging (ft)	80.40

Date/Time	Gallons Purged	Conductivity	pH	Temp (Deg C)	Redox	Turbidity	Before/After
6/8/2018 13:00		1879	6.83	16.17	468	0	

Volume of water purged ()	
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Final Depth to Water (feet)	84.29
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Name of Certified Analytical Laboratory	
AWSL	

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	4.4
Time to evacuate 2 Casing Volumes ()	
Number of casing Volumes	
Volume, if well evacuated to dryness ()	0

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y

Comments:

Arrived on site at 1255. Samples collected at 1300. Water was mostly clear. Left site at 1302.
--

Signature of Field Technician

Shane Hill



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	TW4-01
Field Sample ID	TW4-01_06082018
Purge Date & Time	6/8/2018 13:03
Sample Date & Time	6/8/2018 13:07

Sampling Program	Chloroform Monitoring
Sampling Event	2018 Q2 Chloroform

Sampler	TH/GP
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Purging Equipment	Pump
Pump Type	Continuous
Purging Method	2 Casings
Casing Volume ()	
Calculated Casing Volumes Purge Duration ()	
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Sunny
External Ambient Temperature (C)	28
Previous Well Sampled	MW-04

Well Depth (ft)	111.30
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	105.30

Date/Time	Gallons Purged	Conductivity	pH	Temp (Deg C)	Redox	Turbidity	Before/After
6/8/2018 13:06		2513	6.85	16.90	478	0	

Volume of water purged ()	
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Final Depth to Water (feet)	108.09
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Name of Certified Analytical Laboratory	
AWSL	

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	14
Time to evacuate 2 Casing Volumes ()	
Number of casing Volumes	
Volume, if well evacuated to dryness ()	0

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y

Comments:

Arrived on site at 1303. Samples collected at 1307. Water was clear. Left site at 1309.

Signature of Field Technician

Jessie Halliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	TW4-02
Field Sample ID	TW4-02_06082018
Purge Date & Time	6/8/2018 12:48
Sample Date & Time	6/8/2018 12:52

Sampling Program	Chloroform Monitoring
Sampling Event	2018 Q2 Chloroform

Sampler	TH/GP
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Purging Equipment	Pump
Pump Type	Continuous
Purging Method	2 Casings
Casing Volume ()	
Calculated Casing Volumes Purge Duration ()	
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Sunny
External Ambient Temperature (C)	27
Previous Well Sampled	TW4-11

Well Depth (ft)	120.90
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	109.70

Date/Time	Gallons Purged	Conductivity	pH	Temp (Deg C)	Redox	Turbidity	Before/After
6/8/2018 12:52		3576	6.67	16.25	489	5	

Volume of water purged ()	
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Final Depth to Water (feet)	118.00
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Name of Certified Analytical Laboratory	
AWSL	

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	16
Time to evacuate 2 Casing Volumes ()	
Number of casing Volumes	
Volume, if well evacuated to dryness ()	0

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y

Comments:

Arrived on site at 1248. Samples collected at 1252. Water had orange and black particles in it. Left site 1254
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Signature of Field Technician

June Holley



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	TW4-03
Field Sample ID	TW4-03_06122018
Purge Date & Time	6/11/2018 10:37
Sample Date & Time	6/12/2018 6:57

Sampling Program	Chloroform Monitoring
Sampling Event	2018 Q2 Chloroform

Sampler	TH/GP
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Purging Equipment	Pump
Pump Type	Grundfos
Purging Method	2 Casings
Casing Volume (gal)	52.20
Calculated Casing Volumes Purge Duration (min)	10.44
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Sunny
External Ambient Temperature (C)	23
Previous Well Sampled	TW4-03R

Well Depth (ft)	140.30
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	60.35

Date/Time	Gallons Purged	Conductivity	pH	Temp (Deg C)	Redox	Turbidity	Before/After
6/11/2018 10:48	110	1770	6.39	15.08	554	6	
6/12/2018 6:56		1751	5.96	15.34			After
6/12/2018 6:57		1760	5.92	15.29			Before

Volume of water purged (gals)	110
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Final Depth to Water (feet)	138.04
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Name of Certified Analytical Laboratory	
AWSL	

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	10
Time to evacuate 2 Casing Volumes (min)	11
Number of casing Volumes	2
Volume, if well evacuated to dryness (gals)	110

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y

Comments:

Arrived on site at 1034. Purge began at 1037. Purged well for a total of 11 minutes. Purged well dry! Purge ended at 1048. Water was mostly clear. Left site at 1051. Arrived on site at 0653. Depth to water was 60.60. Samples bailed and collected at 0657. Left site at 0700.

Signature of Field Technician

Janice Holladay



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	TW4-03R
Field Sample ID	TW4-03R_06112018
Purge Date & Time	
Sample Date & Time	6/11/2018 10:10

Sampling Program	
Sampling Event	2018 Q2 Chloroform

Sampler	TH/GP
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Purging Equipment	
Pump Type	
Purging Method	
Casing Volume ()	
Calculated Casing Volumes Purge Duration ()	
pH Buffer 7.0	
pH Buffer 4.0	
Specific Conductance ()	

Weather Conditions	
External Ambient Temperature ()	
Previous Well Sampled	

Well Depth (ft)	
Well Casing Diameter ()	
Depth to Water Before Purging (ft)	

Date/Time	Gallons Purged	Conductivity	pH	Temp (Deg C)	Redox	Turbidity	Before/After
6/11/2018 10:08	130	12.1	6.54	22.47	602	0	

Volume of water purged ()	
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Final Depth to Water (feet)	
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Name of Certified Analytical Laboratory	
AWSL	

Pumping Rate Calculations

Flow Rate (Q = S/60) ()	
Time to evacuate 2 Casing Volumes ()	
Number of casing Volumes	
Volume, if well evacuated to dryness ()	

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y

Comments:

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Signature of Field Technician

Janene Holmberg



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	TW4-04
Field Sample ID	TW4-04_06082018
Purge Date & Time	6/8/2018 13:16
Sample Date & Time	6/8/2018 13:20

Sampling Program	Chloroform Monitoring
Sampling Event	2018 Q2 Chloroform

Sampler	TH/GP
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Purging Equipment	Pump
Pump Type	Continuous
Purging Method	2 Casings
Casing Volume ()	
Calculated Casing Volumes Purge Duration ()	
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Sunny
External Ambient Temperature (C)	28
Previous Well Sampled	TW4-01

Well Depth (ft)	114.50
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	74.89

Date/Time	Gallons Purged	Conductivity	pH	Temp (Deg C)	Redox	Turbidity	Before/After
6/8/2018 13:19		2319	6.97	16.50	477	3	

Volume of water purged ()	
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Final Depth to Water (feet)	90.46
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Name of Certified Analytical Laboratory	
AWSL	

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	10
Time to evacuate 2 Casing Volumes ()	
Number of casing Volumes	
Volume, if well evacuated to dryness ()	0

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y

Comments:

Arrived on site at at 1316. Samples collected at 1320. Water was clear. Left site at 1323.
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Signature of Field Technician

Jessie Holladay



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	TW4-05
Field Sample ID	TW4-05_06132018
Purge Date & Time	6/12/2018 13:26
Sample Date & Time	6/13/2018 7:46

Sampling Program	Chloroform Monitoring
Sampling Event	2018 Q2 Chloroform

Sampler	TH/GP
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Purging Equipment	Pump
Pump Type	Grundfos
Purging Method	2 Casings
Casing Volume (gal)	35.22
Calculated Casing Volumes Purge Duration (min)	7.04
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Sunny
External Ambient Temperature (C)	30
Previous Well Sampled	TW4-27

Well Depth (ft)	121.85
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	67.90

Date/Time	Gallons Purged	Conductivity	pH	Temp (Deg C)	Redox	Turbidity	Before/After
6/12/2018 13:37	70	1517	6.64	15.78	528	10	
6/12/2018 13:38	80	1504	6.64	15.76	528	10	
6/12/2018 13:39	90	1504	6.66	15.76	528	11	
6/12/2018 13:40	100	1493	6.65	15.75	528	11	

Volume of water purged (gals)	100
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Final Depth to Water (feet)	70.40
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Name of Certified Analytical Laboratory	
AWSL	

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	10.00
Time to evacuate 2 Casing Volumes (min)	10.00
Number of casing Volumes	2.00
Volume, if well evacuated to dryness ()	0

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y

Comments:

Arrived on site at 1326. Purge began at 1330. Purged well for a total of 10 minutes . Purge ended at 1340. Water was clear. Left site at 1542. Arrived on site at 0743. Depth to water was 68.12. Water was bailed and collected at 0746. Left site at 0748.

Signature of Field Technician

Suzanne Halladay



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	TW4-06
Field Sample ID	TW4-06_06142018
Purge Date & Time	6/13/2018 9:34
Sample Date & Time	6/14/2018 8:20

Sampling Program	Chloroform Monitoring
Sampling Event	2018 Q2 Chloroform

Sampler	TH/GP
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Purging Equipment	Pump
Pump Type	Grundfos
Purging Method	2 Casings
Casing Volume (gal)	16.16
Calculated Casing Volumes Purge Duration (min)	3.23
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Sunny
External Ambient Temperature (C)	24
Previous Well Sampled	TW4-06R

Well Depth (ft)	99.60
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	74.85

Date/Time	Gallons Purged	Conductivity	pH	Temp (Deg C)	Redox	Turbidity	Before/After
6/13/2018 9:36	25.00	3471	6.28	15.72	587	36	
6/14/2018 8:20		3902	6.93	15.90			Before
6/14/2018 8:21		3910	6.91	15.86			After

Volume of water purged (gals)	25
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Final Depth to Water (feet)	97.48
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Name of Certified Analytical Laboratory	
AWSL	

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	10
Time to evacuate 2 Casing Volumes (min)	2.50
Number of casing Volumes	1.54
Volume, if well evacuated to dryness (gals)	25

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y

Comments:
Arrived on site at 0930. Purge began at 0934. Purged well for a total of 2 minutes and 30 seconds. Purged well dry. Purge ended at 0936. Water was mostly clear. Left site at 0939. Arrived on site at 0817. Depth to water was 75.23. Samples bailed and collected at 0820. Left site at 0822.

Signature of Field Technician

James Holaday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	TW4-06R
Field Sample ID	TW4-06R_06132018
Purge Date & Time	
Sample Date & Time	6/13/2018 8:45

Sampling Program	
Sampling Event	2018 Q2 Chloroform

Sampler	TH/GP
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Purging Equipment	
Pump Type	
Purging Method	
Casing Volume ()	
Calculated Casing Volumes Purge Duration ()	
pH Buffer 7.0	
pH Buffer 4.0	
Specific Conductance ()	

Weather Conditions	
External Ambient Temperature ()	
Previous Well Sampled	

Well Depth (ft)	
Well Casing Diameter ()	
Depth to Water Before Purging (ft)	

Date/Time	Gallons Purged	Conductivity	pH	Temp (Deg C)	Redox	Turbidity	Before/After
6/13/2018 8:44	130	3.9	7.09	22.72	536	6.0	

Volume of water purged ()	
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Final Depth to Water (feet)	
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Name of Certified Analytical Laboratory	
AWSL	

Pumping Rate Calculations

Flow Rate (Q = S/60) ()	
Time to evacuate 2 Casing Volumes ()	
Number of casing Volumes	
Volume, if well evacuated to dryness ()	

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y

Comments:

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Signature of Field Technician

Janice Hollibaugh



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	TW4-07
Field Sample ID	TW4-07_06142018
Purge Date & Time	6/13/2018 16:30
Sample Date & Time	6/14/2018 9:12

Sampling Program	Chloroform Monitoring
Sampling Event	2018 Q2 Chloroform

Sampler	TH/GP
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Purging Equipment	Pump
Pump Type	Grundfos
Purging Method	2 Casings
Casing Volume (gal)	26.24
Calculated Casing Volumes Purge Duration (min)	5.24
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Sunny
External Ambient Temperature (C)	32
Previous Well Sampled	TW4-29

Well Depth (ft)	121.00
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	80.81

Date/Time	Gallons Purged	Conductivity	pH	Temp (Deg C)	Redox	Turbidity	Before/After
6/13/2018 16:35	50	1605	6.81	15.35	514	57	
6/14/2018 9:12		1757	6.93	15.20			Before
6/14/2018 9:13		1764	6.92	15.16			After

Volume of water purged (gals)	50
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Final Depth to Water (feet)	118.72
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Name of Certified Analytical Laboratory	
AWSL	

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	10.00
Time to evacuate 2 Casing Volumes (min)	5.00
Number of casing Volumes	1.90
Volume, if well evacuated to dryness (gals)	50.00

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y

Comments:

Arrived on site at 1628. Purge began at 1630. Purged well for a total of 5 minutes. Purged well dry. Purge ended at 1635. Water was a little murky. Left site at 1637. Arrived on site at 0909. Depth to water was 83.90. Samples bailed and collected at 0912. Left site at 0915.

Signature of Field Technician

Janner Holladay



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	TW4-08
Field Sample ID	TW4-08_06142018
Purge Date & Time	6/13/2018 15:13
Sample Date & Time	6/14/2018 8:47

Sampling Program	Chloroform Monitoring
Sampling Event	2018 Q2 Chloroform

Sampler	TH/GP
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Purging Equipment	Pump
Pump Type	Grundfos
Purging Method	2 Casings
Casing Volume (gal)	27.91
Calculated Casing Volumes Purge Duration (min)	5.58
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Sunny
External Ambient Temperature (C)	32
Previous Well Sampled	TW4-16

Well Depth (ft)	126.20
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	83.45

Date/Time	Gallons Purged	Conductivity	pH	Temp (Deg C)	Redox	Turbidity	Before/After
6/13/2018 15:17	40	5026	6.44	15.45	553	8	
6/13/2018 15:18	50	5010	6.45	15.45	553	9	
6/13/2018 15:19	60	5006	6.42	15.47	553	9	
6/13/2018 15:20	70	5006	6.45	15.42	553	9	

Volume of water purged (gals)	70
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Final Depth to Water (feet)	105.89
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Name of Certified Analytical Laboratory	AWSL
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Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	10.00
Time to evacuate 2 Casing Volumes (min)	7.00
Number of casing Volumes	2.00
Volume, if well evacuated to dryness ()	0

Comments:

Arrived on site at 1510. Purge began at 1513. Purged well for a total of 7 minutes. Purge ended at 1520. Water was clear. Left site at 1522. Arrived on site at 0844. Depth to water was 83.79. Samples bailed and collected at 0847. Left site at 0849.

Signature of Field Technician

Janeer Holliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	TW4-09
Field Sample ID	TW4-09_06142018
Purge Date & Time	6/13/2018 10:00
Sample Date & Time	6/14/2018 8:31

Sampling Program	Chloroform Monitoring
Sampling Event	2018 Q2 Chloroform

Sampler	TH/GP
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Purging Equipment	Pump
Pump Type	Grundfos
Purging Method	2 Casings
Casing Volume (gal)	35.35
Calculated Casing Volumes Purge Duration (min)	7.07
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Sunny
External Ambient Temperature (C)	25
Previous Well Sampled	TW4-06

Well Depth (ft)	120.10
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	65.95

Date/Time	Gallons Purged	Conductivity	pH	Temp (Deg C)	Redox	Turbidity	Before/After
6/13/2018 10:06	60	2494	6.36	15.27	573	25	
6/13/2018 10:07	70	2488	6.37	15.27	572	25	
6/13/2018 10:08	80	2487	6.37	15.26	571	25	
6/13/2018 10:09	90	2488	6.38	15.28	571	25	

Volume of water purged (gals)	90
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Final Depth to Water (feet)	79.90
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Name of Certified Analytical Laboratory	
AWSL	

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	10.00
Time to evacuate 2 Casing Volumes (min)	9.00
Number of casing Volumes	2.00
Volume, if well evacuated to dryness ()	0

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y

Comments:

Arrived on site at 0957. Purge began at 1000. Purged well for a total of 9 minutes. Purge ended at 1009. Water was mostly clear. Left site at 1012 Arrived on site at 0828. Depth to water was 66.96. Samples bailed and collected at 0831. Left site at 0833.

Signature of Field Technician

Jessie Holliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	TW4-10
Field Sample ID	TW4-10_06142018
Purge Date & Time	6/13/2018 17:33
Sample Date & Time	6/14/2018 10:01

Sampling Program	Chloroform Monitoring
Sampling Event	2018 Q2 Chloroform

Sampler	TH/GP
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Purging Equipment	Pump
Pump Type	Grundfos
Purging Method	2 Casings
Casing Volume (gal)	31.24
Calculated Casing Volumes Purge Duration (min)	6.24
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Partly cloudy, windy
External Ambient Temperature (C)	31
Previous Well Sampled	TW4-26

Well Depth (ft)	113.20
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	65.35

Date/Time	Gallons Purged	Conductivity	pH	Temp (Deg C)	Redox	Turbidity	Before/After
6/13/2018 17:37	40	2969	6.33	15.30	556	28	
6/14/2018 10:01		2925	6.65	16.08			Before
6/14/2018 10:02		2935	6.64	16.10			After

Volume of water purged (gals)	40
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Final Depth to Water (feet)	110.47
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Name of Certified Analytical Laboratory	
AWSL	

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	10.00
Time to evacuate 2 Casing Volumes (min)	4.00
Number of casing Volumes	1.28
Volume, if well evacuated to dryness (gals)	40.00

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y

Comments:

Arrived on site at 1730. Purge began at 1733. Purged well for a total of 4 minutes. Purged well dry. Purge ended at 1737. Water was mostly clear. Left site at 1740. Arrived on site at 0958. Depth to water was 65.50. Samples bailed and collected at 1001. Left site at 1003

Signature of Field Technician

Janner Hill



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	TW4-11
Field Sample ID	TW4-11_06082018
Purge Date & Time	6/8/2018 12:40
Sample Date & Time	6/8/2018 12:44

Sampling Program	Chloroform Monitoring
Sampling Event	2018 Q2 Chloroform

Sampler	TH/GP
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Purging Equipment	Pump
Pump Type	Continuous
Purging Method	2 Casings
Casing Volume ()	
Calculated Casing Volumes Purge Duration ()	
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Sunny
External Ambient Temperature (C)	27
Previous Well Sampled	MW-26

Well Depth (ft)	102.40
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	93.20

Date/Time	Gallons Purged	Conductivity	pH	Temp (Deg C)	Redox	Turbidity	Before/After
6/8/2018 12:43		3625	6.67	16.59	457	5	

Volume of water purged ()	
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Final Depth to Water (feet)	100.02
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Name of Certified Analytical Laboratory	AWSL
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Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	16
Time to evacuate 2 Casing Volumes ()	
Number of casing Volumes	
Volume, if well evacuated to dryness ()	

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y

Comments:

Arrived on site at 1240. Samples collected at 1244. Water was clear. Left site at 1247. Well ran dry after samples were collected.
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Signature of Field Technician

Jannere Hollister



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	TW4-12
Field Sample ID	TW4-12_06122018
Purge Date & Time	6/11/2018 13:56
Sample Date & Time	6/12/2018 7:23

Sampling Program	Chloroform Monitoring
Sampling Event	2018 Q2 Chloroform

Sampler	TH/GP
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Purging Equipment	Pump
Pump Type	Grundfos
Purging Method	2 Casings
Casing Volume (gal)	33.70
Calculated Casing Volumes Purge Duration (min)	6.74
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Sunny
External Ambient Temperature (C)	29
Previous Well Sampled	TW4-32

Well Depth (ft)	103.20
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	51.58

Date/Time	Gallons Purged	Conductivity	pH	Temp (Deg C)	Redox	Turbidity	Before/After
6/11/2018 14:02	65	1358	6.57	15.18	570	17	
6/12/2018 7:23		1368	6.85	14.74			Before
6/12/2018 7:24		1375	6.85	14.80			After

Volume of water purged (gals)	70
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Final Depth to Water (feet)	100.31
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Name of Certified Analytical Laboratory	
AWSL	

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	10
Time to evacuate 2 Casing Volumes (min)	6.50
Number of casing Volumes	1.92
Volume, if well evacuated to dryness (gals)	65

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y

Comments:

Arrived on site at 1353. Purge began at 1356. Purged well for a total of 6 minutes 30 seconds. Purged well dry. Purge ended at 1402. Water was mostly clear. Left site at 1405 Arrived on site at 0720. Depth to water was 51.68. Samples bailed and collected at 0723. Left site at 0725.

Signature of Field Technician

Janner Hollings



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	TW4-13
Field Sample ID	TW4-13_06122018
Purge Date & Time	6/11/2018 14:33
Sample Date & Time	6/12/2018 7:30

Sampling Program	Chloroform Monitoring
Sampling Event	2018 Q2 Chloroform

Sampler	TH/GP
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Purging Equipment	Pump
Pump Type	Grundfos
Purging Method	2 Casings
Casing Volume (gal)	33.88
Calculated Casing Volumes Purge Duration (min)	6.76
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Sunny
External Ambient Temperature (C)	29
Previous Well Sampled	TW4-12

Well Depth (ft)	105.70
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	53.88

Date/Time	Gallons Purged	Conductivity	pH	Temp (Deg C)	Redox	Turbidity	Before/After
6/11/2018 14:39		2133	6.50	15.70	583	29	
6/12/2018 7:30		2053	6.99	14.63			Before
6/12/2018 7:31		2061	7.01	14.63			After

Volume of water purged (gals)	65
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Final Depth to Water (feet)	102.97
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Name of Certified Analytical Laboratory	
AWSL	

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	10
Time to evacuate 2 Casing Volumes (min)	6.50
Number of casing Volumes	1.91
Volume, if well evacuated to dryness (gals)	65

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y

Comments:

Arrived on site at 1429. Purge began at 1433. Purged well for a total of 6 minutes 30 seconds. Purged well dry. Purge ended at 1439. Water was mostly clear. Left site at 1442. Arrived on site at 0727. Depth to water was 54.04. Samples bailed and collected at 0730. Left site at 0732.

Signature of Field Technician

Jessica Holliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	TW4-14
Field Sample ID	TW4-14_06132018
Purge Date & Time	6/12/2018 12:13
Sample Date & Time	6/13/2018 7:28

Sampling Program	Chloroform Monitoring
Sampling Event	2018 Q2 Chloroform

Sampler	TH/GP
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Purging Equipment	Pump
Pump Type	Grundfos
Purging Method	2 Casings
Casing Volume (gal)	11.08
Calculated Casing Volumes Purge Duration (min)	2.21
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Sunny
External Ambient Temperature (C)	27
Previous Well Sampled	TW4-38

Well Depth (ft)	95.10
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	78.13

Date/Time	Gallons Purged	Conductivity	pH	Temp (Deg C)	Redox	Turbidity	Before/After
6/12/2018 12:14	15	5355	6.45	16.77	564	101	
6/13/2018 7:28		5357	6.43	14.98			Before
6/13/2018 7:29		5360	6.44	14.95			After

Volume of water purged (gals)	15
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Final Depth to Water (feet)	92.44
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Name of Certified Analytical Laboratory	
AWSL	

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	10
Time to evacuate 2 Casing Volumes (min)	1.50
Number of casing Volumes	1.35
Volume, if well evacuated to dryness (gals)	15

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y

Comments:

Arrived on site at 1210. Purge began at 1213. Purged well for a total of 1 minute and 30 seconds. Purged well dry. Purge ended at 1215. Water was murky. Left site at 1218. Arrived on site at 0725. Depth to water was 78.24. Samples bailed and collected 0728. Left site at 0730.

Signature of Field Technician

Turner Holladay



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-26
Field Sample ID	MW-26_06082018
Purge Date & Time	6/8/2018 12:31
Sample Date & Time	6/8/2018 12:35

Sampling Program	Chloroform Monitoring
Sampling Event	2018 Q2 Chloroform

Sampler	TH/GP
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Purging Equipment	Pump
Pump Type	Continuous
Purging Method	2 Casings
Casing Volume ()	
Calculated Casing Volumes Purge Duration ()	
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Sunny
External Ambient Temperature (C)	27
Previous Well Sampled	TW4-39

Well Depth (ft)	121.33
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	80.80

Date/Time	Gallons Purged	Conductivity	pH	Temp (Deg C)	Redox	Turbidity	Before/After
6/8/2018 12:34		3324	6.64	16.73	503	2	

Volume of water purged ()	
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Final Depth to Water (feet)	90.67
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Name of Certified Analytical Laboratory	AWSL
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Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	10
Time to evacuate 2 Casing Volumes ()	
Number of casing Volumes	
Volume, if well evacuated to dryness ()	0

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y

Comments:

Arrived on site at 1231. Samples collected at 1235. Water was clear. Left site at 1237
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Signature of Field Technician

Jannet Halliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	TW4-16
Field Sample ID	TW4-16_06142018
Purge Date & Time	6/13/2018 14:38
Sample Date & Time	6/14/2018 8:41

Sampling Program	Chloroform Monitoring
Sampling Event	2018 Q2 Chloroform

Sampler	TH/GP
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Purging Equipment	Pump
Pump Type	Grundfos
Purging Method	2 Casings
Casing Volume (gal)	52.17
Calculated Casing Volumes Purge Duration (min)	10.43
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Sunny
External Ambient Temperature (C)	32
Previous Well Sampled	TW4-09

Well Depth (ft)	147.60
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	67.70

Date/Time	Gallons Purged	Conductivity	pH	Temp (Deg C)	Redox	Turbidity	Before/After
6/13/2018 14:47	90	3628	6.43	15.30	581	36	
6/13/2018 14:48	100	3675	6.43	15.30	580	37	
6/13/2018 14:49	110	3760	6.43	15.31	578	38	
6/13/2018 14:50	120	3762	6.45	15.32	576	38	

Volume of water purged (gals)	120
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Final Depth to Water (feet)	121.76
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Name of Certified Analytical Laboratory	AWSL
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Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	10.00
Time to evacuate 2 Casing Volumes (min)	12.00
Number of casing Volumes	2.00
Volume, if well evacuated to dryness ()	0

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y

Comments:

Arrived on site at 1435. Purge began at 1438. Purged well for a total of 12 minutes. Purge ended at 1450. Water was murky. Left site at 1452. Arrived on site at 0838. Depth to water was 70.91. Samples bailed and collected at 0841. Left site at 0842.

Signature of Field Technician

Janice Holladay



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	MW-32
Field Sample ID	MW-32_06142018
Purge Date & Time	6/14/2018 7:51
Sample Date & Time	6/14/2018 13:00

Sampling Program	Chloroform Monitoring
Sampling Event	2018 Q2 Chloroform

Sampler	TH/GP
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Purging Equipment	Pump
Pump Type	QED
Purging Method	2 Casings
Casing Volume (gal)	33.46
Calculated Casing Volumes Purge Duration (min)	308.44
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Partly cloudy
External Ambient Temperature (C)	24
Previous Well Sampled	TW4-10

Well Depth (ft)	130.60
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	79.35

Date/Time	Gallons Purged	Conductivity	pH	Temp (Deg C)	Redox	Turbidity	Before/After
6/14/2018 12:57	66.61	3853	6.60	15.20	530	15.0	
6/14/2018 12:58	66.83	3806	6.58	15.10	530	9.1	
6/14/2018 12:59	67.05	3805	6.58	15.14	528	10.0	
6/14/2018 13:00	67.27	3802	6.56	15.06	527	10.0	

Volume of water purged (gals)	67.27
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Final Depth to Water (feet)	84.88
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Name of Certified Analytical Laboratory	
AWSL	

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	.217
Time to evacuate 2 Casing Volumes (min)	310.00
Number of casing Volumes	2.00
Volume, if well evacuated to dryness ()	0

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y

Comments:

Arrived on site at 0746. Purge began at 0750. Purged well for a total of 310 minutes. Purge ended and samples collected at 1300. Water was mostly clear. Left site at 1305
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Signature of Field Technician

Jarvis Holliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	TW4-18
Field Sample ID	TW4-18_06132018
Purge Date & Time	6/12/2018 14:45
Sample Date & Time	6/13/2018 8:09

Sampling Program	Chloroform Monitoring
Sampling Event	2018 Q2 Chloroform

Sampler	TH/GP
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Purging Equipment	Pump
Pump Type	Grundfos
Purging Method	2 Casings
Casing Volume (gal)	44.35
Calculated Casing Volumes Purge Duration (min)	8.87
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Sunny
External Ambient Temperature (C)	32
Previous Well Sampled	TW4-30

Well Depth (ft)	136.90
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	68.98

Date/Time	Gallons Purged	Conductivity	pH	Temp (Deg C)	Redox	Turbidity	Before/After
6/12/2018 14:53	80	2031	6.41	15.79	550	23	
6/12/2018 14:54	90	2016	6.42	15.79	550	25	
6/12/2018 14:55	100	1988	6.40	15.79	550	25	
6/12/2018 14:56	110	1969	6.40	15.78	550	25	

Volume of water purged (gals)	110
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Final Depth to Water (feet)	69.25
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Name of Certified Analytical Laboratory	
AWSL	

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	10
Time to evacuate 2 Casing Volumes (min)	11.0
Number of casing Volumes	2.00
Volume, if well evacuated to dryness (l)	0

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y

Comments:

Arrived on site at 1441. Purge began at 1445. Purged well for a total of 11 minutes. Purge ended at 1456. Water was mostly clear. Left site 1459. Arrived on site at 0806. Depth to water was 69.02. Samples bailed and collected at 0809. Left site at 0811.

Signature of Field Technician

Janice Holladay



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	TW4-19
Field Sample ID	TW4-19_06082018
Purge Date & Time	6/8/2018 14:10
Sample Date & Time	6/8/2018 14:15

Sampling Program	Chloroform Monitoring
Sampling Event	2018 Q2 Chloroform

Sampler	TH/GP
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Purging Equipment	Pump
Pump Type	Continuous
Purging Method	2 Casings
Casing Volume ()	
Calculated Casing Volumes Purge Duration ()	
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Sunny
External Ambient Temperature (C)	28
Previous Well Sampled	TW4-60

Well Depth (ft)	126.86
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	66.21

Date/Time	Gallons Purged	Conductivity	pH	Temp (Deg C)	Redox	Turbidity	Before/After
6/8/2018 14:15		2545	5.89	16.98	536	5	

Volume of water purged ()	
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Final Depth to Water (feet)	69.98
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Name of Certified Analytical Laboratory	
AWSL	

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	18
Time to evacuate 2 Casing Volumes ()	
Number of casing Volumes	
Volume, if well evacuated to dryness ()	0

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y

Comments:

Arrived on site at 1410. Samples collected at 1415. Water was clear. Left site at 1418
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Signature of Field Technician

Summer Hollister



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	TW4-20
Field Sample ID	TW4-20_06142018
Purge Date & Time	6/14/2018 10:10
Sample Date & Time	6/14/2018 10:10

Sampling Program	Chloroform Monitoring
Sampling Event	2018 Q2 Chloroform

Sampler	TH/GP
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Purging Equipment	Pump
Pump Type	Continuous
Purging Method	2 Casings
Casing Volume ()	
Calculated Casing Volumes Purge Duration ()	
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Partly cloudy, some wind
External Ambient Temperature (C)	25
Previous Well Sampled	TW4-10

Well Depth (ft)	105.90
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	66.20

Date/Time	Gallons Purged	Conductivity	pH	Temp (Deg C)	Redox	Turbidity	Before/After
6/14/2018 10:09		4295	6.30	16.57	550	5.5	

Volume of water purged ()	
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Final Depth to Water (feet)	69.46
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Name of Certified Analytical Laboratory	
AWSL	

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	7.0
Time to evacuate 2 Casing Volumes ()	
Number of casing Volumes	
Volume, if well evacuated to dryness ()	0

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y

Comments:

Arrived on site at 1008. Samples collected at 1010. Left site at 1013. Water was mostly clear.
--

Signature of Field Technician

Jessie Holladay



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	TW4-21
Field Sample ID	TW4-21_06082018
Purge Date & Time	6/8/2018 9:50
Sample Date & Time	6/8/2018 9:53

Sampling Program	Chloroform Monitoring
Sampling Event	2018 Q2 Chloroform

Sampler	TH/GP
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Purging Equipment	Pump
Pump Type	Continuous
Purging Method	2 Casings
Casing Volume ()	
Calculated Casing Volumes Purge Duration ()	
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Sunny
External Ambient Temperature (C)	22
Previous Well Sampled	TW4-41

Well Depth (ft)	118.80
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	71.26

Date/Time	Gallons Purged	Conductivity	pH	Temp (Deg C)	Redox	Turbidity	Before/After
6/8/2018 9:53		4517	7.20	16.58	522	6.7	

Volume of water purged ()	
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Final Depth to Water (feet)	78.35
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Name of Certified Analytical Laboratory	
AWSL	

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	16
Time to evacuate 2 Casing Volumes ()	
Number of casing Volumes	
Volume, if well evacuated to dryness ()	0

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y

Comments:

Arrived on site at 0950. Samples collected at 0953. Water was clear. Left site at 0956
--

Signature of Field Technician

Jessie Holladay



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	TW4-22
Field Sample ID	TW4-22_06082018
Purge Date & Time	6/8/2018 10:23
Sample Date & Time	6/8/2018 10:26

Sampling Program	Chloroform Monitoring
Sampling Event	2018 Q2 Chloroform

Sampler	TH/GP
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Purging Equipment	Pump
Pump Type	Continuous
Purging Method	2 Casings
Casing Volume ()	
Calculated Casing Volumes Purge Duration ()	
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Sunny
External Ambient Temperature (C)	23
Previous Well Sampled	TW4-21

Well Depth (ft)	114.70
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	60.70

Date/Time	Gallons Purged	Conductivity	pH	Temp (Deg C)	Redox	Turbidity	Before/After
6/8/2018 10:26		5476	6.67	16.04	515	0	

Volume of water purged ()	
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Final Depth to Water (feet)	81.89
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Name of Certified Analytical Laboratory	
AWSL	

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	17
Time to evacuate 2 Casing Volumes ()	
Number of casing Volumes	
Volume, if well evacuated to dryness ()	0

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y

Comments:

Arrived on site at 1023. Samples collected at 1026. Water was mostly clear. Left site at 1030.

Signature of Field Technician

Janeer Holliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	TW4-23
Field Sample ID	TW4-23_06132018
Purge Date & Time	6/12/2018 9:45
Sample Date & Time	6/13/2018 7:07

Sampling Program	Chloroform Monitoring
Sampling Event	2018 Q2 Chloroform

Sampler	TH/GP
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Purging Equipment	Pump
Pump Type	Grundfos
Purging Method	2 Casings
Casing Volume (gal)	28.96
Calculated Casing Volumes Purge Duration (min)	5.79
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Sunny
External Ambient Temperature (C)	24
Previous Well Sampled	TW4-35

Well Depth (ft)	116.40
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	72.05

Date/Time	Gallons Purged	Conductivity	pH	Temp (Deg C)	Redox	Turbidity	Before/After
6/12/2018 9:52	70	3597	6.44	14.61	556	22	
6/12/2018 9:53	80	3591	6.43	14.61	555	20	
6/12/2018 9:54	90	3589	6.43	14.61	554	19	
6/12/2018 9:55	100	3592	6.43	14.61	554	18	

Volume of water purged (gals)	100
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Final Depth to Water (feet)	88.65
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Name of Certified Analytical Laboratory	
AWSL	

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	10
Time to evacuate 2 Casing Volumes (min)	10.00
Number of casing Volumes	2.00
Volume, if well evacuated to dryness ()	0

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y

Comments:
Arrived on site at 0942. Purge began at 0945. Purged well for a total of 10 minutes. Purge ended at 0955. Water had an orange coloration. Left site at 0958. Arrived on site at 0704. Depth to water was 72.06. Samples bailed and collected at 0707. Left site at 0709.

Signature of Field Technician

Jason Holby



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	TW4-24
Field Sample ID	TW4-24_06142018
Purge Date & Time	6/14/2018 10:20
Sample Date & Time	6/14/2018 10:20

Sampling Program	Chloroform Monitoring
Sampling Event	2018 Q2 Chloroform

Sampler	TH/GP
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Purging Equipment	Pump
Pump Type	Continuous
Purging Method	2 Casings
Casing Volume ()	
Calculated Casing Volumes Purge Duration ()	
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Partly cloudy, windy
External Ambient Temperature (C)	25
Previous Well Sampled	TW4-20

Well Depth (ft)	114.80
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	62.90

Date/Time	Gallons Purged	Conductivity	pH	Temp (Deg C)	Redox	Turbidity	Before/After
6/14/2018 10:18		7878	6.40	15.80	544	4.10	

Volume of water purged ()	
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Final Depth to Water (feet)	65.36
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Name of Certified Analytical Laboratory	
AWSL	

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	16.0
Time to evacuate 2 Casing Volumes ()	
Number of casing Volumes	
Volume, if well evacuated to dryness ()	0

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y

Comments:

Arrived on site at 1015. Samples collected at 1020. Water was mostly clear. Left site at 1022.
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Signature of Field Technician

Jessie Hollberg



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	TW4-25
Field Sample ID	TW4-25_06142018
Purge Date & Time	6/14/2018 10:29
Sample Date & Time	6/14/2018 10:32

Sampling Program	Chloroform Monitoring
Sampling Event	2018 Q2 Chloroform

Sampler	TH/GP
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Purging Equipment	Pump
Pump Type	Continuous
Purging Method	2 Casings
Casing Volume ()	
Calculated Casing Volumes Purge Duration ()	
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Partly cloudy, windy
External Ambient Temperature (C)	25
Previous Well Sampled	TW4-20

Well Depth (ft)	136.70
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	68.80

Date/Time	Gallons Purged	Conductivity	pH	Temp (Deg C)	Redox	Turbidity	Before/After
6/14/2018 10:31		2714	6.85	15.55	518	0	

Volume of water purged ()	
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Final Depth to Water (feet)	78.49
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Name of Certified Analytical Laboratory	
AWSL	

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	14.50
Time to evacuate 2 Casing Volumes ()	
Number of casing Volumes	
Volume, if well evacuated to dryness ()	0

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y

Comments:

Arrived on site at 1029. Samples collected at 1032. Water was clear. Left site at 1034.

Signature of Field Technician

Juanita Holladay



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	TW4-26
Field Sample ID	TW4-26_06142018
Purge Date & Time	6/13/2018 16:59
Sample Date & Time	6/14/2018 9:53

Sampling Program	Chloroform Monitoring
Sampling Event	2018 Q2 Chloroform

Sampler	TH/GP
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Purging Equipment	Pump
Pump Type	Grundfos
Purging Method	2 Casings
Casing Volume (gal)	12.30
Calculated Casing Volumes Purge Duration (min)	2.46
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Partly cloudy, windy
External Ambient Temperature (C)	32
Previous Well Sampled	TW4-07

Well Depth (ft)	87.70
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	68.85

Date/Time	Gallons Purged	Conductivity	pH	Temp (Deg C)	Redox	Turbidity	Before/After
6/13/2018 17:00	12.50	4948	6.57	16.83	540	18	
6/14/2018 9:53		5195	6.85	16.03			Before
6/14/2018 9:54		5233	6.84	16.05			After

Volume of water purged (gals)	12.5
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Final Depth to Water (feet)	84.99
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Name of Certified Analytical Laboratory	AWSL
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Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	10.00
Time to evacuate 2 Casing Volumes (min)	1.15
Number of casing Volumes	1.01
Volume, if well evacuated to dryness (gals)	12.50

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered	Preservative	
			Number	Type		Type	Added?
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y

Comments:

Arrived on site at 1657. Purge began at 1659. Purged well for a total of 1 minute and 15 seconds. Purged well dry. Water was mostly clear. Left site 1702 Arrived on site at 0949. Depth to water was 69.24. Samples bailed and collected at 0953. Left site at 0955.

Signature of Field Technician

Jannve Holladay



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	TW4-27
Field Sample ID	TW4-27_06132018
Purge Date & Time	6/12/2018 12:47
Sample Date & Time	6/13/2018 7:37

Sampling Program	Chloroform Monitoring
Sampling Event	2018 Q2 Chloroform

Sampler	TH/GP
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Purging Equipment	Pump
Pump Type	Grundfos
Purging Method	2 Casings
Casing Volume (gal)	11.06
Calculated Casing Volumes Purge Duration (min)	2.21
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Sunny
External Ambient Temperature (C)	30
Previous Well Sampled	TW4-14

Well Depth (ft)	95.75
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	78.80

Date/Time	Gallons Purged	Conductivity	pH	Temp (Deg C)	Redox	Turbidity	Before/After
6/12/2018 12:49	15	5246	6.38	16.56	557	70	
6/13/2018 7:37		5116	6.26	14.81			Before
6/13/2018 7:38		5128	6.27	14.85			After

Volume of water purged (gals)	15
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Final Depth to Water (feet)	93.67
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Name of Certified Analytical Laboratory	
AWSL	

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	10
Time to evacuate 2 Casing Volumes (min)	1.50
Number of casing Volumes	1.35
Volume, if well evacuated to dryness (gals)	15

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y

Comments:

Arrived on site at 1244. Purge began at 1247. Purged well for a total of 1 minute 30 seconds. Purged well dry. Purge ended at 1249. Water was murky. Left site at 1251 Arrived on site at 0734. Depth to water was 79.24. Samples bailed and collected at 0737. Left site at 0739.

Signature of Field Technician

Janice Hallock



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	TW4-28
Field Sample ID	TW4-28_06122018
Purge Date & Time	6/11/2018 12:28
Sample Date & Time	6/12/2018 7:07

Sampling Program	Chloroform Monitoring
Sampling Event	2018 Q2 Chloroform

Sampler	TH/GP
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Purging Equipment	Pump
Pump Type	Grundfos
Purging Method	2 Casings
Casing Volume (gal)	42.75
Calculated Casing Volumes Purge Duration (min)	8.55
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Sunny
External Ambient Temperature (C)	29
Previous Well Sampled	TW4-03

Well Depth (ft)	108.48
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	43.01

Date/Time	Gallons Purged	Conductivity	pH	Temp (Deg C)	Redox	Turbidity	Before/After
6/11/2018 12:37	90	1454	6.62	15.30	564	18	
6/12/2018 7:06		1439	6.41	15.09			Before
6/12/2018 7:07		1451	6.48	15.10			After

Volume of water purged (gals)	90
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Final Depth to Water (feet)	105.87
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Name of Certified Analytical Laboratory	
AWSL	

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	10
Time to evacuate 2 Casing Volumes (min)	10
Number of casing Volumes	2
Volume, if well evacuated to dryness (gals)	90

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y

Comments:

Arrived on site at 1225. Purge began at 1228. Purged well for a total of 9 minutes. Purged well dry, Purge ended at 1238. Water was mostly clear. Left site at 1241 Arrived on site at 0704. Depth to water was 43.10. Samples bailed and collected at 0707. Left site at 0710.

Signature of Field Technician

Jason Kelly



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	TW4-29
Field Sample ID	TW4-29_06142018
Purge Date & Time	6/13/2018 16:08
Sample Date & Time	6/14/2018 9:03

Sampling Program	Chloroform Monitoring
Sampling Event	2018 Q2 Chloroform

Sampler	TH/GP
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Purging Equipment	Pump
Pump Type	Grundfos
Purging Method	2 Casings
Casing Volume (gal)	12.45
Calculated Casing Volumes Purge Duration (min)	2.49
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Sunny
External Ambient Temperature (32
Previous Well Sampled	TW4-40

Well Depth (ft)	94.48
Well Casing Diameter (in)	4
Depth to Water Before Purging (75.40

Date/Time	Gallons Purged	Conductivity	pH	Temp (Deg C)	Redox	Turbidity	Before/After
6/13/2018 16:10	12.50	4164	6.87	16.80	527	10	
6/14/2018 9:03		4053	6.55	15.65			Before
6/14/2018 9:04		4070	6.59	15.63			After

Volume of water purged (gals)	12.5
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Final Depth to Water (feet)	92.56
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Name of Certified Analytical Laboratory	
AWSL	

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	10.0
Time to evacuate 2 Casing Volumes (min)	1.15
Number of casing Volumes	1.00
Volume, if well evacuated to dryness (gals)	12.50

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y

Comments:

Arrived on site at 1406. Purge began at 1408. Purged well for a total of 1 minute and 15 seconds. Purged well dry. Purge ended at 1409. Water was mostly clear. Left site at 1411
Arrived on site at 0859. Depth to water was 75.50. Samples bailed and collected at 0903. Left site at 0905

Signature of Field Technician

Jason Hollberg



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	TW4-30
Field Sample ID	TW4-30_06132018
Purge Date & Time	6/12/2018 14:05
Sample Date & Time	6/13/2018 7:56

Sampling Program	Chloroform Monitoring
Sampling Event	2018 Q2 Chloroform

Sampler	TH/GP
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Purging Equipment	Pump
Pump Type	Grundfos
Purging Method	2 Casings
Casing Volume (gal)	12.11
Calculated Casing Volumes Purge Duration (min)	2.42
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Sunny
External Ambient Temperature (C)	30
Previous Well Sampled	TW4-05

Well Depth (ft)	93.48
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	74.93

Date/Time	Gallons Purged	Conductivity	pH	Temp (Deg C)	Redox	Turbidity	Before/After
6/12/2018 14:07	20	4750	5.86	16.40	600	33	
6/13/2018 7:56		4482	6.12	15.10			Before
6/13/2018 7:57		4489	6.11	15.06			After

Volume of water purged (gals)	20
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Final Depth to Water (feet)	91.08
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Name of Certified Analytical Laboratory	
AWSL	

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	10.
Time to evacuate 2 Casing Volumes (min)	2.00
Number of casing Volumes	1.65
Volume, if well evacuated to dryness (gals)	20

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y

Comments:

Arrived on site at 1402. Purge began at 1405. Purged well for a total of 2 minutes. Purged well dry. Purge ended at 1407. Water was mostly clear. Left site at 1409. Arrived on site at 0753. Depth to water was 75.02. Samples bailed and collected at 0756. Left site at 0758

Signature of Field Technician

Jason Halliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	TW4-31
Field Sample ID	TW4-31_06122018
Purge Date & Time	6/11/2018 15:43
Sample Date & Time	6/12/2018 7:45

Sampling Program	Chloroform Monitoring
Sampling Event	2018 Q2 Chloroform

Sampler	TH/GP
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Purging Equipment	Pump
Pump Type	Grundfos
Purging Method	2 Casings
Casing Volume (gal)	19.80
Calculated Casing Volumes Purge Duration (min)	3.96
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Sunny
External Ambient Temperature (C)	29
Previous Well Sampled	TW4-36

Well Depth (ft)	107.48
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	77.15

Date/Time	Gallons Purged	Conductivity	pH	Temp (Deg C)	Redox	Turbidity	Before/After
6/11/2018 15:46	30	4401	6.10	16.10	582	36	
6/12/2018 7:45		4417	6.70	14.86			Before
6/12/2018 7:46		4414	6.72	14.84			After

Volume of water purged (gals)	30
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Final Depth to Water (feet)	105.22
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Name of Certified Analytical Laboratory	AWSL
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Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	10
Time to evacuate 2 Casing Volumes (min)	3.0
Number of casing Volumes	1.51
Volume, if well evacuated to dryness (gals)	30

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y

Comments:

Arrived on site at 1540. Purge began at 1543. Purged well for a total of 3 minutes. Purged well dry. Purge ended at 1546. Water was murky. Left site at 1549. Arrived on site at 0742. Depth to water was 77.28. Samples bailed and collected at 0745. Left site at 0748.

Signature of Field Technician

James Halliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	TW4-32
Field Sample ID	TW4-32_06122018
Purge Date & Time	6/11/2018 13:12
Sample Date & Time	6/12/2018 7:16

Sampling Program	Chloroform Monitoring
Sampling Event	2018 Q2 Chloroform

Sampler	TH/GP
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Purging Equipment	Pump
Pump Type	Grundfos
Purging Method	2 Casings
Casing Volume (gal)	40.02
Calculated Casing Volumes Purge Duration (min)	8.00
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Sunny
External Ambient Temperature (C)	29
Previous Well Sampled	TW4-28

Well Depth (ft)	114.64
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	53.34

Date/Time	Gallons Purged	Conductivity	pH	Temp (Deg C)	Redox	Turbidity	Before/After
6/11/2018 13:18	60	6644	3.37	15.25	683	24	
6/11/2018 13:19	70	6696	3.37	15.22	682	25	
6/11/2018 13:20	80	6738	3.36	15.21	681	25	
6/11/2018 13:21	90	6769	3.36	15.20	680	25	

Volume of water purged (gals)	90
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Final Depth to Water (feet)	77.90
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Name of Certified Analytical Laboratory	AWSL
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Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	10
Time to evacuate 2 Casing Volumes (min)	9
Number of casing Volumes	2.0
Volume, if well evacuated to dryness ()	0

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y

Comments:

Arrived on site at 1309. Purge began at 1312. Purged well for a 9 minutes. Purge ended at 1321. Water was mostly clear with a low ph. When pulling the pump , the pump and hose had white salt like crystals on it. Left site at 1324. Arrived on site at 0714. Depth to water was 53.30. Samples bailed and collected at 0716. Left site at 0718

Signature of Field/Technician

Janner Holliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	TW4-33
Field Sample ID	TW4-33_06132018
Purge Date & Time	6/12/2018 15:21
Sample Date & Time	6/13/2018 8:21

Sampling Program	Chloroform Monitoring
Sampling Event	2018 Q2 Chloroform

Sampler	TH/GP
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Purging Equipment	Pump
Pump Type	Grundfos
Purging Method	2 Casings
Casing Volume (gal)	7.62
Calculated Casing Volumes Purge Duration (min)	1.52
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Sunny
External Ambient Temperature (C)	32
Previous Well Sampled	TW4-18

Well Depth (ft)	86.23
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	74.55

Date/Time	Gallons Purged	Conductivity	pH	Temp (Deg C)	Redox	Turbidity	Before/After
6/12/2018 15:22	10	4561	6.59	17.03	547	11	
6/13/2018 8:21		4513	5.70	15.06			Before
6/13/2018 8:22		4532	5.75	15.03			After

Volume of water purged (gals)	10
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Final Depth to Water (feet)	84.38
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Name of Certified Analytical Laboratory	
AWSL	

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	10
Time to evacuate 2 Casing Volumes (min)	1.00
Number of casing Volumes	1.31
Volume, if well evacuated to dryness (gals)	10

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y

Comments:

Arrived on site at 1518. Purge began at 1521. Purged well for a total of 1 minute. Purged well dry. Purge ended at 1522. Water was clear. Left site at 1524. Arrived on site at 0818. Depth to water was 74.70. Samples bailed and collected at 0821. Left site at 0823.

Signature of Field Technician

Janice Holliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	TW4-34
Field Sample ID	TW4-34_06132018
Purge Date & Time	6/12/2018 8:40
Sample Date & Time	6/13/2018 6:50

Sampling Program	Chloroform Monitoring
Sampling Event	2018 Q2 Chloroform

Sampler	TH/GP
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Purging Equipment	Pump
Pump Type	Grundfos
Purging Method	2 Casings
Casing Volume (gal)	14.39
Calculated Casing Volumes Purge Duration (min)	2.87
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Sunny
External Ambient Temperature (C)	23
Previous Well Sampled	TW4-31

Well Depth (ft)	95.74
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	73.69

Date/Time	Gallons Purged	Conductivity	pH	Temp (Deg C)	Redox	Turbidity	Before/After
6/12/2018 8:43	30	3892	6.47	15.40	580	14	
6/13/2018 6:49		3864	7.16	15.97			Before
6/13/2018 6:51		3847	7.14	16.01			After

Volume of water purged (gals)	30
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Final Depth to Water (feet)	93.27
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Name of Certified Analytical Laboratory	
AWSL	

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	10.0
Time to evacuate 2 Casing Volumes (min)	3.00
Number of casing Volumes	2.0
Volume, if well evacuated to dryness (gals)	30

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y

Comments:

Arrived on site at 0837. Purge began at 0840. Purged well for a total of 3 minutes. Purged well dry! Purge ended at 0843. Water was mostly clear. Left site at 0846. Arrived on site at 0646. Depth to water was 73.69. Samples bailed and collected at 0650. Left site at 0652.

Signature of Field Technician



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	TW4-35
Field Sample ID	TW4-35 06132018
Purge Date & Time	6/12/2018 9:12
Sample Date & Time	6/13/2018 6:57

Sampling Program	Chloroform Monitoring
Sampling Event	2018 Q2 Chloroform

Sampler	TH/GP
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Purging Equipment	Pump
Pump Type	Grundfos
Purging Method	2 Casings
Casing Volume (gal)	7.95
Calculated Casing Volumes Purge Duration (min)	1.59
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Sunny
External Ambient Temperature (C)	25
Previous Well Sampled	TW4-34

Well Depth (ft)	86.50
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	74.32

Date/Time	Gallons Purged	Conductivity	pH	Temp (Deg C)	Redox	Turbidity	Before/After
6/12/2018 9:13	13.33	4405	6.20	16.80	587	19	
6/13/2018 6:57		4424	6.89	15.10			Before
6/13/2018 6:58		4429	6.87	15.06			After

Volume of water purged (gals)	13.33
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Final Depth to Water (feet)	83.88
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Name of Certified Analytical Laboratory	AWSL
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Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	10
Time to evacuate 2 Casing Volumes (min)	1.20
Number of casing Volumes	1.67
Volume, if well evacuated to dryness (gals)	13.33

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y

Comments:

Arrived on site at 0909. Purge began at 0912. Purged well for a total of 1 minute 20 seconds. Purged well dry. Purge ended at 0913. Water was mostly clear. Left site at 0915. Arrived on site at 0654. Depth to water was 74.31. Samples bailed and collected at 0657. Left site at 0700

Signature of Field Technician

Summer Holliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	TW4-36
Field Sample ID	TW4-36_06122018
Purge Date & Time	6/11/2018 15:12
Sample Date & Time	6/12/2018 7:38

Sampling Program	Chloroform Monitoring
Sampling Event	2018 Q2 Chloroform

Sampler	TH/GP
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Purging Equipment	Pump
Pump Type	Grundfos
Purging Method	2 Casings
Casing Volume (gal)	28.05
Calculated Casing Volumes Purge Duration (min)	5.61
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Sunny
External Ambient Temperature (C)	29
Previous Well Sampled	TW4-13

Well Depth (ft)	99.41
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	56.45

Date/Time	Gallons Purged	Conductivity	pH	Temp (Deg C)	Redox	Turbidity	Before/After
6/11/2018 15:16	45	2487	6.36	16.01	558	85	
6/12/2018 7:38		2370	6.90	14.66			Before
6/12/2018 7:39		2374	6.91	14.68			After

Volume of water purged (gals)	45
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Final Depth to Water (feet)	97.23
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Name of Certified Analytical Laboratory	AWSL
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Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	10
Time to evacuate 2 Casing Volumes (min)	4.50
Number of casing Volumes	1.60
Volume, if well evacuated to dryness (gals)	45

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y

Comments:

Arrived on site at 1509. Purge began at 1512. Purged well for a total of 4 minutes and 30 seconds. Purged well dry. Purge ended at 1517. Water was a little murky. Left site at 1520. Arrived on site at 0734. Depth to water was 57.68. Samples bailed and collected at 0738. Left site at 0740

Signature of Field Technician

Junior Holby



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	TW4-37
Field Sample ID	TW4-37_06082018
Purge Date & Time	6/8/2018 12:06
Sample Date & Time	6/8/2018 12:10

Sampling Program	Chloroform Monitoring
Sampling Event	2018 Q2 Chloroform

Sampler	TH/GP
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Purging Equipment	Pump
Pump Type	Continuous
Purging Method	2 Casings
Casing Volume ()	
Calculated Casing Volumes Purge Duration ()	
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Sunny
External Ambient Temperature (C)	26
Previous Well Sampled	TW4-22

Well Depth (ft)	113.72
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	64.41

Date/Time	Gallons Purged	Conductivity	pH	Temp (Deg C)	Redox	Turbidity	Before/After
6/8/2018 12:10		3658	7.02	16.70	515	5	

Volume of water purged ()	
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Final Depth to Water (feet)	70.11
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Name of Certified Analytical Laboratory	
AWSL	

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	17.2
Time to evacuate 2 Casing Volumes ()	
Number of casing Volumes	
Volume, if well evacuated to dryness ()	0

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y

Comments:

Arrived on site at 1206. Samples collected at 1210. Water was clear. Left site at 1213.

Signature of Field Technician

Junae Hillary



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	TW4-38
Field Sample ID	TW4-38_06132018
Purge Date & Time	6/12/2018 10:18
Sample Date & Time	6/13/2018 7:20

Sampling Program	Chloroform Monitoring
Sampling Event	2018 Q2 Chloroform

Sampler	TH/GP
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Purging Equipment	Pump
Pump Type	Grundfos
Purging Method	2 Casings
Casing Volume (gal)	37.98
Calculated Casing Volumes Purge Duration (min)	7.59
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Sunny
External Ambient Temperature (C)	25
Previous Well Sampled	TW4-23

Well Depth (ft)	113.92
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	55.75

Date/Time	Gallons Purged	Conductivity	pH	Temp (Deg C)	Redox	Turbidity	Before/After
6/12/2018 10:28	60	1428	6.65	15.01	525	20	
6/12/2018 10:29	70	1530	6.68	14.98	526	20	
6/12/2018 10:30	80	1692	6.65	14.97	527	19	
6/12/2018 10:31	90	1708	6.63	14.96	528	20	

Volume of water purged (gals)	90
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Final Depth to Water (feet)	77.90
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Name of Certified Analytical Laboratory	
AWSL	

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	10.00
Time to evacuate 2 Casing Volumes (min)	9.00
Number of casing Volumes	2.00
Volume, if well evacuated to dryness ()	0

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y

Comments:

Arrived on site at 1018. Purge began at 1022. Purged well for a total of 9 minutes. Purge ended at 1032. Water was mostly clear. Left site at 1035. Arrived on site at 0716. Depth to water was 55.85. Samples bailed and collected at 0720. Left site at 0722

Signature of Field Technician



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	TW4-39
Field Sample ID	TW4-39_06082018
Purge Date & Time	6/8/2018 12:23
Sample Date & Time	6/8/2018 12:26

Sampling Program	Chloroform Monitoring
Sampling Event	2018 Q2 Chloroform

Sampler	TH/GP
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Purging Equipment	Pump
Pump Type	Continuous
Purging Method	2 Casings
Casing Volume ()	
Calculated Casing Volumes Purge Duration ()	
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Sunny
External Ambient Temperature (C)	26
Previous Well Sampled	TW4-37

Well Depth (ft)	120.74
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	64.37

Date/Time	Gallons Purged	Conductivity	pH	Temp (Deg C)	Redox	Turbidity	Before/After
6/8/2018 12:26		2271	6.62	16.30	500	0	

Volume of water purged ()	
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Final Depth to Water (feet)	69.32
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Name of Certified Analytical Laboratory	
AWSL	

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	18
Time to evacuate 2 Casing Volumes ()	
Number of casing Volumes	
Volume, if well evacuated to dryness ()	0

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y

Comments:

Arrived on site at 1223. Samples collected 1226. Water was clear. Left site at 1229.
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Signature of Field Technician

Janner Holliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	TW4-40
Field Sample ID	TW4-40_06142018
Purge Date & Time	6/13/2018 15:40
Sample Date & Time	6/14/2018 8:55

Sampling Program	Chloroform Monitoring
Sampling Event	2018 Q2 Chloroform

Sampler	TH/GP
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Purging Equipment	Pump
Pump Type	Grundfos
Purging Method	2 Casings
Casing Volume (gal)	12.60
Calculated Casing Volumes Purge Duration (min)	2.52
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Sunny
External Ambient Temperature (C)	32
Previous Well Sampled	TW4-08

Well Depth (ft)	86.00
Well Casing Diameter (in)	4
Depth to Water Before Purging (ft)	66.70

Date/Time	Gallons Purged	Conductivity	pH	Temp (Deg C)	Redox	Turbidity	Before/After
6/13/2018 15:42	20	4672	6.34	15.25	558	34	
6/13/2018 15:43	30	4628	6.28	15.23	560	32	
6/13/2018 15:44	40	4614	6.25	15.21	562	31	
6/13/2018 15:45	50	4608	6.23	15.21	563	32	

Volume of water purged (gals)	50
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Final Depth to Water (feet)	67.30
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Name of Certified Analytical Laboratory	AWSL
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Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	10.00
Time to evacuate 2 Casing Volumes (min)	5.00
Number of casing Volumes	2.00
Volume, if well evacuated to dryness ()	0

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y

Comments:

Arrived on site at 1537. Purge began at 1540. Purged well for a total of 5 minutes. Purge ended at 1545. Water was a little murky. Left site at 1547. Arrived on site at 0852. Depth to water was 66.80. Samples bailed and collected at 0855. Left site at 0857

Signature of Field Technician

James Hollberg



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	TW4-41
Field Sample ID	TW4-41_05092018
Purge Date & Time	5/9/2018 9:25
Sample Date & Time	5/9/2018 9:30

Sampling Program	Chloroform Monitoring
Sampling Event	2018 Q2 Chloroform

Sampler	TH/GP
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Purging Equipment	Pump
Pump Type	Continuous
Purging Method	2 Casings
Casing Volume (gal)	11.09
Calculated Casing Volumes Purge Duration ()	
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Partly cloudy
External Ambient Temperature (C)	20
Previous Well Sampled	N/A

Well Depth (ft)	97.75
Well Casing Diameter (in)	6
Depth to Water Before Purging (ft)	90.20

Date/Time	Gallons Purged	Conductivity	pH	Temp (Deg C)	Redox	Turbidity	Before/After
5/9/2018 9:29		2588	6.01	15.97	572	5.5	

Volume of water purged ()	
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Final Depth to Water (feet)	97.75
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Name of Certified Analytical Laboratory	
AWSL	

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	2.3
Time to evacuate 2 Casing Volumes ()	
Number of casing Volumes	
Volume, if well evacuated to dryness ()	0

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y

Comments:

Arrived on site at 0925. Samples collected at 0930. Water was clear. Left site at 0933.

Signature of Field Technician

Jessie Gallegos



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	TW4-60
Field Sample ID	TW4-60_06082018
Purge Date & Time	6/8/2018 13:55
Sample Date & Time	6/8/2018 14:00

Sampling Program	Chloroform Monitoring
Sampling Event	2018 Q2 Chloroform

Sampler	TH/GP
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Purging Equipment	Pump
Pump Type	
Purging Method	2 Casings
Casing Volume (l)	
Calculated Casing Volumes Purge Duration (l)	
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Weather Conditions	Sunny
External Ambient Temperature (C)	21
Previous Well Sampled	TW4-04

Well Depth (ft)	
Well Casing Diameter (l)	
Depth to Water Before Purging (ft)	

Date/Time	Gallons Purged	Conductivity	pH	Temp (Deg C)	Redox	Turbidity	Before/After
6/8/2018 14:00		8	6.63	23.27	520	0	

Volume of water purged (l)	
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Final Depth to Water (feet)	
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Name of Certified Analytical Laboratory	
AWSL	

Pumping Rate Calculations

Flow Rate (Q = S/60) (l)	
Time to evacuate 2 Casing Volumes (l)	
Number of casing Volumes	
Volume, if well evacuated to dryness (l)	0

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y

Comments:

Took DI sample from Lab at 1400

Signature of Field Technician

James Hallock



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	TW4-65
Field Sample ID	TW4-65_06122018
Purge Date & Time	
Sample Date & Time	6/12/2018 7:07

Sampling Program	
Sampling Event	2018 Q2 Chloroform

Sampler	TH/GP
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Purging Equipment	
Pump Type	
Purging Method	
Casing Volume ()	
Calculated Casing Volumes Purge Duration ()	
pH Buffer 7.0	
pH Buffer 4.0	
Specific Conductance ()	

Weather Conditions	
External Ambient Temperature ()	
Previous Well Sampled	

Well Depth (ft)	
Well Casing Diameter ()	
Depth to Water Before Purging (ft)	

Date/Time	Gallons Purged	Conductivity	pH	Temp (Deg C)	Redox	Turbidity	Before/After
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Volume of water purged ()	
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Final Depth to Water (feet)	
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Name of Certified Analytical Laboratory	
AWSL	

Pumping Rate Calculations

Flow Rate (Q = S/60) ()	
Time to evacuate 2 Casing Volumes ()	
Number of casing Volumes	
Volume, if well evacuated to dryness ()	

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y

Comments:

Duplicate of TW4-28

Signature of Field Technician

Jessie Halliday



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	TW4-70
Field Sample ID	TW4-70_06132018
Purge Date & Time	
Sample Date & Time	6/13/2018 7:07

Sampling Program	
Sampling Event	2018 Q2 Chloroform

Sampler	TH/GP
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Purging Equipment	
Pump Type	
Purging Method	
Casing Volume ()	
Calculated Casing Volumes Purge Duration ()	
pH Buffer 7.0	
pH Buffer 4.0	
Specific Conductance ()	

Weather Conditions	
External Ambient Temperature ()	
Previous Well Sampled	

Well Depth (ft)	
Well Casing Diameter ()	
Depth to Water Before Purging (ft)	

Date/Time	Gallons Purged	Conductivity	pH	Temp (Deg C)	Redox	Turbidity	Before/After
-----------	----------------	--------------	----	--------------	-------	-----------	--------------

Volume of water purged ()	
----------------------------	--

Final Depth to Water (feet)	
-----------------------------	--

Name of Certified Analytical Laboratory	
AWSL	

Pumping Rate Calculations

Flow Rate (Q = S/60) ()	
Time to evacuate 2 Casing Volumes ()	
Number of casing Volumes	
Volume, if well evacuated to dryness ()	

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y

Comments:

Duplicate of TW4-23

Signature of Field Technician



White Mesa Mill
Field Data Worksheet For Groundwater

Location ID	TW4-75
Field Sample ID	TW4-75_06142018
Purge Date & Time	
Sample Date & Time	6/14/2018 8:31

Sampling Program	
Sampling Event	2018 Q2 Chloroform

Sampler	TH/GP
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Purging Equipment	
Pump Type	
Purging Method	
Casing Volume ()	
Calculated Casing Volumes Purge Duration ()	
pH Buffer 7.0	
pH Buffer 4.0	
Specific Conductance ()	

Weather Conditions	
External Ambient Temperature ()	
Previous Well Sampled	

Well Depth (ft)	
Well Casing Diameter ()	
Depth to Water Before Purging (ft)	

Date/Time	Gallons Purged	Conductivity	pH	Temp (Deg C)	Redox	Turbidity	Before/After
-----------	----------------	--------------	----	--------------	-------	-----------	--------------

Volume of water purged ()	
----------------------------	--

Final Depth to Water (feet)	
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Name of Certified Analytical Laboratory	
AWSL	

Pumping Rate Calculations

Flow Rate (Q = S/60) ()	
Time to evacuate 2 Casing Volumes ()	
Number of casing Volumes	
Volume, if well evacuated to dryness ()	

Analytical Samples Information

Type of Sample/Analysis	Sample Collected?	Matrix	Container		Sample Filtered?	Preservative	
			Number	Type		Type	Added?
Chloride	Y	WATER	1	500-mL Poly	U	None	N
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCl (pH<2), 4 Deg C	Y

Comments:	Duplicate of TW4-09
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Signature of Field Technician

James Kelly

Tab C

Weekly and Monthly Depth to Water Data

Weekly Inspection Form

9268980

Date 4/3/2018

Name Tanner Holliday

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)
1325	MW-4	87.98	Flow 4.3 Meter 467 1693957.93	Yes No Yes No
1314	MW-26	74.88	Flow 10.5 Meter 266913.5	Yes No Yes No
1349	TW4-19	67.93	Flow 18.0 Meter 2 1272001.3	Yes No Yes No
1306	TW4-20	66.81	Flow 7.2 Meter 238317.39	Yes No Yes No
1335	TW4-4	74.29	Flow 4.0 15.0 Meter 1693957.93 571839.2	Yes No Yes No
1253	TWN-2	40.34	Flow 18.5 Meter 967367.0	Yes No Yes No
1300	TW4-22	61.01	Flow 17.1 Meter 502150.8	Yes No Yes No
1257	TW4-24	63.87	Flow 16.2 Meter 721048.24	Yes No Yes No
1249	TW4-25	74.46	Flow 14.4 Meter 23170043	Yes No Yes No
1328	TW4-1	88.62	Flow 14.0 Meter 244153.8	Yes No Yes No
1321	TW4-2	96.13	Flow 14.0 Meter 260867.8	Yes No Yes No
1318	TW4-11	93.56	Flow 16.6 Meter 50299.6	Yes No Yes No
1245	TW4-21	71.84	Flow 16.0 Meter 1276655.83	Yes No Yes No
1303	TW4-37	65.47	Flow 16.5 Meter 1139902.9	Yes No Yes No
1309	TW4-39	83.49	Flow 18.0 Meter 312294.3	Yes No 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.

1331 TW4-41 5.0
79.98 641.85

Monthly Depth Check Form

Date 4/3/2018

Name Tanner Holiday

<u>Time</u>	<u>Well</u>	<u>Depth*</u>	<u>Time</u>	<u>Well</u>	<u>Depth*</u>
<u>1325</u>	<u>MW-4</u>	<u>87.98</u>	<u>1003</u>	<u>TWN-1</u>	<u>65.09</u>
<u>1328</u>	<u>TW4-1</u>	<u>88.62</u>	<u>1253</u>	<u>TWN-2</u>	<u>40.34</u>
<u>1321</u>	<u>TW4-2</u>	<u>96.13</u>	<u>0951</u>	<u>TWN-3</u>	<u>41.97</u>
<u>0838</u>	<u>TW4-3</u>	<u>60.20</u>	<u>0954</u>	<u>TWN-4</u>	<u>58.15</u>
<u>1335</u>	<u>TW4-4</u>	<u>74.29</u>	<u>0948</u>	<u>TWN-7</u>	<u>83.89</u>
<u>0833</u>	<u>TW4-5</u>	<u>67.74</u>	<u>0958</u>	<u>TWN-18</u>	<u>61.22</u>
<u>0848</u>	<u>TW4-6</u>	<u>74.67</u>	<u>0945</u>	<u>MW-27</u>	<u>55.54</u>
<u>0845</u>	<u>TW4-7</u>	<u>80.61</u>	<u>1019</u>	<u>MW-30</u>	<u>74.97</u>
<u>0843</u>	<u>TW4-8</u>	<u>83.40</u>	<u>1015</u>	<u>MW-31</u>	<u>68.49</u>
<u>0835</u>	<u>TW4-9</u>	<u>65.70</u>			
<u>0830</u>	<u>TW4-10</u>	<u>65.28</u>			
<u>1318</u>	<u>TW4-11</u>	<u>93.56</u>			
<u>0915</u>	<u>TW4-12</u>	<u>50.96</u>			
<u>0921</u>	<u>TW4-13</u>	<u>53.79</u>	<u>0917</u>	<u>TW4-28</u>	<u>42.68</u>
<u>0925</u>	<u>TW4-14</u>	<u>78.20</u>	<u>0903</u>	<u>TW4-29</u>	<u>75.32</u>
<u>1314</u>	<u>TW4-15</u>	<u>74.88</u>	<u>0910</u>	<u>TW4-30</u>	<u>74.94</u>
<u>0936</u>	<u>TW4-16</u>	<u>70.70</u>	<u>0911</u>	<u>TW4-31</u>	<u>77.31</u>
<u>0938</u>	<u>TW4-17</u>	<u>79.05</u>	<u>0918</u>	<u>TW4-32</u>	<u>53.04</u>
<u>1005</u>	<u>TW4-18</u>	<u>68.80</u>	<u>0858</u>	<u>TW4-33</u>	<u>74.41</u>
<u>1349</u>	<u>TW4-19</u>	<u>67.93</u>	<u>0905</u>	<u>TW4-34</u>	<u>73.51</u>
<u>1306</u>	<u>TW4-20</u>	<u>66.81</u>	<u>0908</u>	<u>TW4-35</u>	<u>74.25</u>
<u>1245</u>	<u>TW4-21</u>	<u>71.84</u>	<u>0923</u>	<u>TW4-36</u>	<u>56.42</u>
<u>1300</u>	<u>TW4-22</u>	<u>61.01</u>	<u>1303</u>	<u>TW4-37</u>	<u>65.47</u>
0851 <u>0851</u>	<u>TW4-23</u>	68.07	<u>0840</u>	<u>TW4-38</u>	<u>55.36</u>
<u>1257</u>	<u>TW4-24</u>	<u>63.87</u>	<u>1309</u>	<u>TW4-39</u>	<u>83.49</u>
<u>1249</u>	<u>TW4-25</u>	<u>74.46</u>	<u>0930</u>	<u>TW4-40</u>	<u>66.50</u>
<u>0853</u>	<u>TW4-26</u>	<u>68.72</u>	<u>0932</u>	<u>TW4-41</u>	<u>75.80</u>
<u>0901</u>	<u>TW4-27</u>	<u>78.81</u>			

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

* Depth is measured to the nearest 0.01 feet

Weekly Inspection Form

Date 4/9/18

Name Garcia/Tanner

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)
1234	MW-4	93.80	Flow 4.4	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
			Meter 1700514.05	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1224	MW-26	89.70	Flow 10.7	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
			Meter 268772.20	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1410	TW4-19	66.88	Flow 18.0	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
			Meter 1279340.50	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1221	TW4-20	66.70	Flow 7.1	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
			Meter 239157.12	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1241	TW4-4	73.60	Flow 15.0	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
			Meter 573272.00	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1206	TWN-2	63.50	Flow 18.6	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
			Meter 970124.40	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1212	TW4-22	61.00	Flow 17.0	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
			Meter 503536.10	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1209	TW4-24	63.12	Flow 16.0	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
			Meter 724760.70	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1203	TW4-25	113.00	Flow 14.5	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
			Meter 2324693.00	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1237	TW4-1	93.49	Flow 14.0	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
			Meter 244922.50	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1231	TW4-2	84.94	Flow 14.0	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
			Meter 261984.40	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1228	TW4-11	94.30	Flow 16.0	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
			Meter 50467.20	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1200	TW4-21	71.50	Flow 16.0	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
			Meter 1284307.60	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1215	TW4-37	64.35	Flow 16.3	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
			Meter 1145430.60	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1218	TW4-39	64.20	Flow 18.0	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
			Meter 315521.17	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Operational Problems (Please list well number): _____

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

* Depth is measured to the nearest 0.01 feet.

TW4-41 - DTW 92.00 Flow 2.2 GPM
 Meter 10021.10

Weekly Inspection Form

Date 4/16/18

Name Garrin/Tanner

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)
1236	MW-4	84.38	Flow 4.4	<input checked="" type="checkbox"/> Yes No
			Meter 1707831.40	<input checked="" type="checkbox"/> Yes No
1225	MW-26	80.82	Flow 10.5	<input checked="" type="checkbox"/> Yes No
			Meter 270823.10	<input checked="" type="checkbox"/> Yes No
1318	TW4-19	66.10	Flow 18.0	<input checked="" type="checkbox"/> Yes No
			Meter 1287740.33	<input checked="" type="checkbox"/> Yes No
1219	TW4-20	66.20	Flow 7.0	<input checked="" type="checkbox"/> Yes No
			Meter 240209.60	<input checked="" type="checkbox"/> Yes No
1243	TW4-4	73.71	Flow 15.0	<input checked="" type="checkbox"/> Yes No
			Meter 574664.42	<input checked="" type="checkbox"/> Yes No
1207	TWN-2	38.54	Flow 18.6	<input checked="" type="checkbox"/> Yes No
			Meter 973529.00	<input checked="" type="checkbox"/> Yes No
1213	TW4-22	60.10	Flow 17.0	<input checked="" type="checkbox"/> Yes No
			Meter 505514.22	<input checked="" type="checkbox"/> Yes No
1210	TW4-24	63.10	Flow 16.0	<input checked="" type="checkbox"/> Yes No
			Meter 728896.74	<input checked="" type="checkbox"/> Yes No
1204	TW4-25	68.34	Flow 14.5	<input checked="" type="checkbox"/> Yes No
			Meter 2333791.30	<input checked="" type="checkbox"/> Yes No
1240	TW4-1	95.48	Flow 14.0	<input checked="" type="checkbox"/> Yes No
			Meter 245703.60	<input checked="" type="checkbox"/> Yes No
1233	TW4-2	90.40	Flow 16.0	<input checked="" type="checkbox"/> Yes No
			Meter 262546.30	<input checked="" type="checkbox"/> Yes No
1229	TW4-11	93.29	Flow 16.0	<input checked="" type="checkbox"/> Yes No
			Meter 50662.10	<input checked="" type="checkbox"/> Yes No
1201	TW4-21	71.06	Flow 16.1	<input checked="" type="checkbox"/> Yes No
			Meter 1293209.60	<input checked="" type="checkbox"/> Yes No
1216	TW4-37	64.88	Flow 16.5	<input checked="" type="checkbox"/> Yes No
			Meter 1151846.42	<input checked="" type="checkbox"/> Yes No
1222	TW4-39	65.44	Flow 18.0	<input checked="" type="checkbox"/> Yes No
			Meter 318149.10	<input checked="" type="checkbox"/> Yes No
1245	TW4-41	80.76	Flow 2.2	<input checked="" type="checkbox"/> Yes No
			Meter 17550.84	<input checked="" type="checkbox"/> Yes No

Operational Problems (Please list well number): _____

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

* Depth is measured to the nearest 0.01 feet.

Weekly Inspection Form

Date 4/23/18

Name Garrin/Tanner

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)
1322	MW-4	82.71	Flow 4.5	<input checked="" type="radio"/> Yes <input type="radio"/> No
			Meter 1715150.25	<input checked="" type="radio"/> Yes <input type="radio"/> No
1312	MW-26	71.65	Flow 10.5	<input checked="" type="radio"/> Yes <input type="radio"/> No
			Meter 272874.50	<input checked="" type="radio"/> Yes <input type="radio"/> No
1406	TW4-19	65.92	Flow 18.0	<input checked="" type="radio"/> Yes <input type="radio"/> No
			Meter 1296149.03	<input checked="" type="radio"/> Yes <input type="radio"/> No
1306	TW4-20	66.70	Flow 7.2	<input checked="" type="radio"/> Yes <input type="radio"/> No
			Meter 241268.29	<input checked="" type="radio"/> Yes <input type="radio"/> No
1328	TW4-4	74.02	Flow 15.0	<input checked="" type="radio"/> Yes <input type="radio"/> No
			Meter 576061.70	<input checked="" type="radio"/> Yes <input type="radio"/> No
1253	TWN-2	38.60	Flow 18.5	<input checked="" type="radio"/> Yes <input type="radio"/> No
			Meter 976880.00	<input checked="" type="radio"/> Yes <input type="radio"/> No
1300	TW4-22	60.51	Flow 17.0	<input checked="" type="radio"/> Yes <input type="radio"/> No
			Meter 507555.40	<input checked="" type="radio"/> Yes <input type="radio"/> No
1257	TW4-24	63.00	Flow 16.0	<input checked="" type="radio"/> Yes <input type="radio"/> No
			Meter 733122.19	<input checked="" type="radio"/> Yes <input type="radio"/> No
1250	TW4-25	67.68	Flow 14.5	<input checked="" type="radio"/> Yes <input type="radio"/> No
			Meter 2342756.20	<input checked="" type="radio"/> Yes <input type="radio"/> No
1325	TW4-1	100.07	Flow 14.0	<input checked="" type="radio"/> Yes <input type="radio"/> No
			Meter 246603.20	<input checked="" type="radio"/> Yes <input type="radio"/> No
1319	TW4-2	95.35	Flow 14.0	<input checked="" type="radio"/> Yes <input type="radio"/> No
			Meter 264233.90	<input checked="" type="radio"/> Yes <input type="radio"/> No
1316	TW4-11	93.30	Flow 16.0	<input checked="" type="radio"/> Yes <input type="radio"/> No
			Meter 50848.40	<input checked="" type="radio"/> Yes <input type="radio"/> No
1247	TW4-21	71.03	Flow 16.0	<input checked="" type="radio"/> Yes <input type="radio"/> No
			Meter 1302117.65	<input checked="" type="radio"/> Yes <input type="radio"/> No
1303	TW4-37	63.87	Flow 16.3	<input checked="" type="radio"/> Yes <input type="radio"/> No
			Meter 1158262.00	<input checked="" type="radio"/> Yes <input type="radio"/> No
1309	TW4-39	67.61	Flow 18.0	<input checked="" type="radio"/> Yes <input type="radio"/> No
			Meter 320776.80	<input checked="" type="radio"/> Yes <input type="radio"/> No
1334	TW4-41	82.04	Flow 2.3	<input checked="" type="radio"/> Yes <input type="radio"/> No
			Meter 25083.98	<input checked="" type="radio"/> Yes <input type="radio"/> No

Operational Problems (Please list well number): _____

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

* Depth is measured to the nearest 0.01 feet.

Weekly Inspection Form

Date 4/30/2018

Name Tanner Holliday

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)
1521	MW-4	90.12	Flow 4.3	<input checked="" type="radio"/> Yes <input type="radio"/> No
			Meter 1723182.21	<input checked="" type="radio"/> Yes <input type="radio"/> No
1510	MW-26	68.45	Flow 10.5	<input checked="" type="radio"/> Yes <input type="radio"/> No
			Meter 274860.2	<input checked="" type="radio"/> Yes <input type="radio"/> No
1540	TW4-19	66.53	Flow 18.0	<input checked="" type="radio"/> Yes <input type="radio"/> No
			Meter 1304692.6	<input checked="" type="radio"/> Yes <input type="radio"/> No
1502	TW4-20	67.64	Flow 7.2	<input checked="" type="radio"/> Yes <input type="radio"/> No
			Meter 242208.75	<input checked="" type="radio"/> Yes <input type="radio"/> No
1534	TW4-4	74.39	Flow 15.0	<input checked="" type="radio"/> Yes <input type="radio"/> No
			Meter 577474.9	<input checked="" type="radio"/> Yes <input type="radio"/> No
1447	TWN-2	43.46	Flow 18.5	<input checked="" type="radio"/> Yes <input type="radio"/> No
			Meter 980140.0	<input checked="" type="radio"/> Yes <input type="radio"/> No
1454	TW4-22	67.43	Flow 17.0	<input checked="" type="radio"/> Yes <input type="radio"/> No
			Meter 509349.7	<input checked="" type="radio"/> Yes <input type="radio"/> No
1451	TW4-24	63.71	Flow 16.0	<input checked="" type="radio"/> Yes <input type="radio"/> No
			Meter 737451.23	<input checked="" type="radio"/> Yes <input type="radio"/> No
1443	TW4-25	68.12	Flow 14.5	<input checked="" type="radio"/> Yes <input type="radio"/> No
			Meter 2351640.6	<input checked="" type="radio"/> Yes <input type="radio"/> No
1525	TW4-1	96.44	Flow 14.0	<input checked="" type="radio"/> Yes <input type="radio"/> No
			Meter 247450.1	<input checked="" type="radio"/> Yes <input type="radio"/> No
1518	TW4-2	91.46	Flow 14.0	<input checked="" type="radio"/> Yes <input type="radio"/> No
			Meter 265591.8	<input checked="" type="radio"/> Yes <input type="radio"/> No
1514	TW4-11	92.98	Flow 16.0	<input checked="" type="radio"/> Yes <input type="radio"/> No
			Meter 92.51041.9	<input checked="" type="radio"/> Yes <input type="radio"/> No
1440	TW4-21	71.77	Flow 16.0	<input checked="" type="radio"/> Yes <input type="radio"/> No
			Meter 1311164.67	<input checked="" type="radio"/> Yes <input type="radio"/> No
1458	TW4-37	64.89	Flow 16.5	<input checked="" type="radio"/> Yes <input type="radio"/> No
			Meter 1164789.2	<input checked="" type="radio"/> Yes <input type="radio"/> No
1506	TW4-39	67.02	Flow 18.0	<input checked="" type="radio"/> Yes <input type="radio"/> No
			Meter 322396.3	<input checked="" type="radio"/> Yes <input type="radio"/> No
1529	TW4-41	89.87	Flow 2.3	<input checked="" type="radio"/> Yes <input type="radio"/> No
			Meter 31677.97	<input checked="" type="radio"/> Yes <input type="radio"/> No

Operational Problems (Please list well number): _____

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

* Depth is measured to the nearest 0.01 feet.

Weekly Inspection Form

Date 5/7/18

Name Garrin/Tanner

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)
1238	MW-4	4.4	Flow 4.4	<input checked="" type="checkbox"/> Yes No
		88.74	Meter 1731020.09	<input checked="" type="checkbox"/> Yes No
1229	MW-26	78.54	Flow 10.5	<input checked="" type="checkbox"/> Yes No
			Meter 276976.20	<input checked="" type="checkbox"/> Yes No
1320	TW4-19	65.38	Flow 18.0	<input checked="" type="checkbox"/> Yes No
			Meter 1313026.50	<input checked="" type="checkbox"/> Yes No
1222	TW4-20	66.80	Flow 7.0	<input checked="" type="checkbox"/> Yes No
			Meter 243215.55	<input checked="" type="checkbox"/> Yes No
1247	TW4-4	674.62	Flow 15.0	<input checked="" type="checkbox"/> Yes No
			Meter 578723.70	<input checked="" type="checkbox"/> Yes No
1210	TWN-2	52.13	Flow 18.6	<input checked="" type="checkbox"/> Yes No
			Meter 983430.60	<input checked="" type="checkbox"/> Yes No
1216	TW4-22	60.75	Flow 17.0	<input checked="" type="checkbox"/> Yes No
			Meter 511274.50	<input checked="" type="checkbox"/> Yes No
1213	TW4-24	62.83	Flow 16.0	<input checked="" type="checkbox"/> Yes No
			Meter 741630.96	<input checked="" type="checkbox"/> Yes No
1207	TW4-25	115.10	Flow 14.4	<input checked="" type="checkbox"/> Yes No
			Meter 2360621.40	<input checked="" type="checkbox"/> Yes No
1241	TW4-1	103.60	Flow 14.0	<input checked="" type="checkbox"/> Yes No
			Meter 248376.50	<input checked="" type="checkbox"/> Yes No
1235	TW4-2	111.00	Flow 14.0	<input checked="" type="checkbox"/> Yes No
			Meter 266733.40	<input checked="" type="checkbox"/> Yes No
1232	TW4-11	93.41	Flow 16.0	<input checked="" type="checkbox"/> Yes No
			Meter 51228.70	<input checked="" type="checkbox"/> Yes No
1204	TW4-21	71.41	Flow 16.0	<input checked="" type="checkbox"/> Yes No
			Meter 1319995.15	<input checked="" type="checkbox"/> Yes No
1226	TW4-37	64.21	Flow 16.5	<input checked="" type="checkbox"/> Yes No
			Meter 1171060.40	<input checked="" type="checkbox"/> Yes No
1219	TW4-39	64.26	Flow 18.0	<input checked="" type="checkbox"/> Yes No
			Meter 32595.94	<input checked="" type="checkbox"/> Yes No
1244	TW4-41	100.20	Flow 2.4	<input checked="" type="checkbox"/> Yes No
			Meter 37633.89	<input checked="" type="checkbox"/> Yes No

Operational Problems (Please list well number): _____

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

* Depth is measured to the nearest 0.01 feet.

941527

Monthly Depth Check Form

Date 5/16/2018Name Tanner Holliday

<u>Time</u>	<u>Well</u>	<u>Depth*</u>	<u>Time</u>	<u>Well</u>	<u>Depth*</u>
<u>0816</u>	<u>MW-4</u>	<u>88.12</u>	<u>1023</u>	<u>TWN-1</u>	<u>65.22</u>
<u>0819</u>	<u>TW4-1</u>	<u>97.24</u>	<u>0745</u>	<u>TWN-2</u>	<u>37.12</u>
<u>0815</u>	<u>TW4-2</u>	<u>102.46</u>	<u>1026</u>	<u>TWN-3</u>	<u>42.01</u>
<u>0916</u>	<u>TW4-3</u>	<u>60.30</u>	<u>1028</u>	<u>TWN-4</u>	<u>58.30</u>
<u>0826</u>	<u>TW4-4</u>	<u>74.01</u>	<u>1035</u>	<u>TWN-7</u>	<u>84.72</u>
<u>0912</u>	<u>TW4-5</u>	<u>67.85</u>	<u>1031</u>	<u>TWN-18</u>	<u>61.24</u>
<u>0924</u>	<u>TW4-6</u>	<u>74.71</u>	<u>1018</u>	<u>MW-27</u>	<u>55.65</u>
<u>0922</u>	<u>TW4-7</u>	<u>80.74</u>	<u>1012</u>	<u>MW-30</u>	<u>75.00</u>
<u>0920</u>	<u>TW4-8</u>	<u>83.36</u>	<u>1009</u>	<u>MW-31</u>	<u>68.50</u>
<u>0913</u>	<u>TW4-9</u>	<u>65.85</u>			
<u>0910</u>	<u>TW4-10</u>	<u>65.40</u>			
<u>0812</u>	<u>TW4-11</u>	<u>92.68</u>			
<u>0949</u>	<u>TW4-12</u>	<u>51.39</u>			
080955	<u>TW4-13</u>	<u>53.90</u>	<u>0951</u>	<u>TW4-28</u>	<u>42.88</u>
<u>0959</u>	<u>TW4-14</u>	<u>78.19</u>	<u>0938</u>	<u>TW4-29</u>	<u>75.44</u>
<u>0808</u>	<u>TW4-15</u>	<u>67.24</u>	<u>0945</u>	<u>TW4-30</u>	<u>75.00</u>
<u>1004</u>	<u>TW4-16</u>	<u>70.80</u>	<u>0947</u>	<u>TW4-31</u>	<u>77.30</u>
<u>1006</u>	<u>TW4-17</u>	<u>79.05</u>	<u>0953</u>	<u>TW4-32</u>	<u>53.32</u>
<u>1021</u>	<u>TW4-18</u>	<u>68.91</u>	<u>0935</u>	<u>TW4-33</u>	<u>74.50</u>
<u>0850</u>	<u>TW4-19</u>	<u>65.49</u>	<u>0940</u>	<u>TW4-34</u>	<u>73.63</u>
<u>0801</u>	<u>TW4-20</u>	<u>66.98</u>	<u>0943</u>	<u>TW4-35</u>	<u>74.32</u>
<u>0737</u>	<u>TW4-21</u>	<u>71.68</u>	<u>0957</u>	<u>TW4-36</u>	<u>56.49</u>
<u>0753</u>	<u>TW4-22</u>	<u>61.47</u>	<u>0757</u>	<u>TW4-37</u>	<u>64.76</u>
0730 <u>06927</u>	<u>TW4-23</u>	65.03 <u>71.97</u>	<u>0918</u>	<u>TW4-38</u>	<u>55.62</u>
<u>0750</u>	<u>TW4-24</u>	71.87 <u>63.03</u>	<u>0804</u>	<u>TW4-39</u>	<u>66.37</u>
<u>0741</u>	<u>TW4-25</u>	<u>69.35</u>	<u>0932</u>	<u>TW4-40</u>	<u>66.71</u>
<u>0930</u>	<u>TW4-26</u>	<u>68.85</u>	<u>0823</u>	<u>TW4-41</u>	<u>90.22</u>
<u>0937</u>	<u>TW4-27</u>	<u>78.84</u>			

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

* Depth is measured to the nearest 0.01 feet

Weekly Inspection Form

Date 5/16/2018

Name Tanner Holliday

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

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)
0816	MW-4	88.12	Flow 4.3 Meter 1740931.08	<input checked="" type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> Yes <input type="radio"/> No
0808	MW-26	67.24	Flow 10.5 Meter 279488.2	<input checked="" type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> Yes <input type="radio"/> No
0850	TW4-19	65.49	Flow 18.0 Meter 1323563.9	<input checked="" type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> Yes <input type="radio"/> No
0801	TW4-20	66.98	Flow 7.0 Meter 244520.56	<input checked="" type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> Yes <input type="radio"/> No
0826	TW4-4	74.01	Flow 15.0 Meter 580427.5	<input checked="" type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> Yes <input type="radio"/> No
0745	TWN-2	37.12	Flow 18.5 Meter 487651.0	<input checked="" type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> Yes <input type="radio"/> No
0753	TW4-22	61.47	Flow 17.0 Meter 513335.5	<input checked="" type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> Yes <input type="radio"/> No
0750	TW4-24	63.03	Flow 16.0 Meter 74705307	<input checked="" type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> Yes <input type="radio"/> No
0741	TW4-25	69.35	Flow 14.5 Meter 2371862.8	<input checked="" type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> Yes <input type="radio"/> No
0819	TW4-1	97.24	Flow 14.0 Meter 249397.1	<input checked="" type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> Yes <input type="radio"/> No
0815	TW4-2	102.46	Flow 14.0 Meter 268392.0	<input checked="" type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> Yes <input type="radio"/> No
0812	TW4-11	92.68	Flow 16.0 Meter 51477.8	<input checked="" type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> Yes <input type="radio"/> No
0737	TW4-21	71.68	Flow 16.0 Meter 1331166.38	<input checked="" type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> Yes <input type="radio"/> No
0757	TW4-37	64.76	Flow 16.5 Meter 1179170.5	<input checked="" type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> Yes <input type="radio"/> No
0804	TW4-39	66.37	Flow 18.0 Meter 328234.7	<input checked="" type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> Yes <input type="radio"/> No
0823	TW4-41	90.22	Flow 2.4 Meter 44729.57	<input checked="" type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> Yes <input type="radio"/> No

Operational Problems (Please list well number): _____

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

* Depth is measured to the nearest 0.01 feet.

Weekly Inspection Form

Date 5/21/2018

Name Tanner Holliday

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)
0859	MW-4	88.34	Flow 4.3	<input checked="" type="radio"/> Yes <input type="radio"/> No
			Meter 174820.1	<input checked="" type="radio"/> Yes <input type="radio"/> No
0852	MW-26	65.97	Flow 10.5	<input checked="" type="radio"/> Yes <input type="radio"/> No
			Meter 281377.23	<input checked="" type="radio"/> Yes <input type="radio"/> No
0917	TW4-19	64.89	Flow 18.0	<input checked="" type="radio"/> Yes <input type="radio"/> No
			Meter 1331540.1	<input checked="" type="radio"/> Yes <input type="radio"/> No
0844	TW4-20	67.34	Flow 7.0	<input checked="" type="radio"/> Yes <input type="radio"/> No
			Meter 245480.13	<input checked="" type="radio"/> Yes <input type="radio"/> No
0908	TW4-4	73.79	Flow 15.0	<input checked="" type="radio"/> Yes <input type="radio"/> No
			Meter 581701.02	<input checked="" type="radio"/> Yes <input type="radio"/> No
0830	TWN-2	37.46	Flow 18.5	<input checked="" type="radio"/> Yes <input type="radio"/> No
			Meter 990822.15	<input checked="" type="radio"/> Yes <input type="radio"/> No
0839	TW4-22	62.03	Flow 17.0	<input checked="" type="radio"/> Yes <input type="radio"/> No
			Meter 515172.04	<input checked="" type="radio"/> Yes <input type="radio"/> No
0836	TW4-24	64.27	Flow 16.0	<input checked="" type="radio"/> Yes <input type="radio"/> No
			Meter 751120.23	<input checked="" type="radio"/> Yes <input type="radio"/> No
0825	TW4-25	69.04	Flow 14.5	<input checked="" type="radio"/> Yes <input type="radio"/> No
			Meter 2380343.4	<input checked="" type="radio"/> Yes <input type="radio"/> No
0902	TW4-1	95.27	Flow 14.0	<input checked="" type="radio"/> Yes <input type="radio"/> No
			Meter 125050.41	<input checked="" type="radio"/> Yes <input type="radio"/> No
0854	TW4-2	99.88	Flow 14.0	<input checked="" type="radio"/> Yes <input type="radio"/> No
			Meter 269500.1	<input checked="" type="radio"/> Yes <input type="radio"/> No
0855	TW4-11	94.10	Flow 16.0	<input checked="" type="radio"/> Yes <input type="radio"/> No
			Meter 51654.0	<input checked="" type="radio"/> Yes <input type="radio"/> No
0821	TW4-21	71.01	Flow 16.5	<input checked="" type="radio"/> Yes <input type="radio"/> No
			Meter 1339503.1	<input checked="" type="radio"/> Yes <input type="radio"/> No
0840	TW4-37	65.36	Flow 16.5	<input checked="" type="radio"/> Yes <input type="radio"/> No
			Meter 1185096.0	<input checked="" type="radio"/> Yes <input type="radio"/> No
0846	TW4-39	67.45	Flow 18.0	<input checked="" type="radio"/> Yes <input type="radio"/> No
			Meter 330772.3	<input checked="" type="radio"/> Yes <input type="radio"/> No
0905	TW4-41	93.38	Flow 2.4	<input checked="" type="radio"/> Yes <input type="radio"/> No
			Meter 49638.01	<input checked="" type="radio"/> Yes <input type="radio"/> No

Operational Problems (Please list well number): _____

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

* Depth is measured to the nearest 0.01 feet.

Weekly Inspection Form

Date 5/29/2018

Name Tanner Holliday

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)
1242	MW-4	87.89	Flow 4.3 Meter 1753927.27	<input checked="" type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> Yes <input type="radio"/> No
1228	MW-26	65.34	Flow 10.5 Meter 283268.1	<input checked="" type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> Yes <input type="radio"/> No
1310	TW4-19	64.99	Flow 18.0 Meter 1339525.1	<input checked="" type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> Yes <input type="radio"/> No
1224	TW4-20	66.47	Flow 7.0 Meter 246446.71	<input checked="" type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> Yes <input type="radio"/> No
1253	TW4-4	74.12	Flow 15.0 Meter 582989.5	<input checked="" type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> Yes <input type="radio"/> No
1210	TWN-2	41.04	Flow 18.5 Meter 993995.3	<input checked="" type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> Yes <input type="radio"/> No
1218	TW4-22	61.11	Flow 17.0 Meter 517018.8	<input checked="" type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> Yes <input type="radio"/> No
1215	TW4-24	63.01	Flow 16.0 Meter 7551958.1	<input checked="" type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> Yes <input type="radio"/> No
1206	TW4-25	113.03	Flow 14.5 Meter 2388826.0	<input checked="" type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> Yes <input type="radio"/> No
1246	TW4-1	101.74	Flow 14.0 Meter 250809.0	<input checked="" type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> Yes <input type="radio"/> No
1239	TW4-2	110.85	Flow 14.0 Meter 270609.2	<input checked="" type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> Yes <input type="radio"/> No
1235	TW4-11	93.43	Flow 16.0 Meter 518322	<input checked="" type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> Yes <input type="radio"/> No
1202	TW4-21	71.86	Flow 16.0 Meter 1347842.55	<input checked="" type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> Yes <input type="radio"/> No
1221	TW4-37	64.30	Flow 16.5 Meter 1191025.7	<input checked="" type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> Yes <input type="radio"/> No
1231	TW4-39	65.12	Flow 18.0 Meter 333314.1	<input checked="" type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> Yes <input type="radio"/> No
1250	TW4-41	88.77	Flow 2.5 Meter 54546.56	<input checked="" type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> Yes <input type="radio"/> No

Operational Problems (Please list well number): _____

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

* Depth is measured to the nearest 0.01 feet.

Weekly Inspection Form

Date 6/8/18

Name Garrin Tanner

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)
1300	MW-4	80.40	Flow 4.4	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
			Meter 1767200.10	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1235	MW-26	80.80	Flow 10.0	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
			Meter 286091.00	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1415	TW4-19	66.21	Flow 18.0	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
			Meter 1351603.20	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1218	TW4-20	67.10	Flow 7.1	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
			Meter 247907.96	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1318	TW4-4	74.89	Flow 18.0 10.0	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
			Meter 584710.80	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1011	TWN-2	39.73	Flow 18.5	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
			Meter 998619.70	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1026	TW4-22	60.70	Flow 17.0	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
			Meter 519729.70	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1018	TW4-24	62.90	Flow 15.0	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
			Meter 1351603.30 789782.10	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1003	TW4-25	68.80	Flow 14.5	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
			Meter 2401549.00	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1307	TW4-1	105.30	Flow 14.0	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
			Meter 251929.90	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1252	TW4-2	106.40	Flow 16.0	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
			Meter 272463.40	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1244	TW4-11	93.20	Flow 16.0	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
			Meter 52199.6	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
0953	TW4-21	71.26	Flow 16.0	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
			Meter 1360396.35	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1210	TW4-37	64.41	Flow 17.2	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
			Meter 1200182.40	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1226	TW4-39	64.37	Flow 18.0	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
			Meter 337906.8	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1311	TW4-41	90.80	Flow 4.2	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
			Meter 61307.07	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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 6/11/2018

Name Tanner Holliday

9494408

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

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)
0744	MW-4	86.29	Flow 8.4 Meter 1770290.80	Yes No Yes No
0733	MW-26	71.24	Flow 10.0 Meter 286899.3	Yes No Yes No
0800	TW4-19	67.46	Flow 18.0 Meter 1354912.3	Yes No Yes No
0725	TW4-20	67.23	Flow 7.0 Meter 248322.75	Yes No Yes No
0734	TW4-4	73.91	Flow 15.0 Meter 585241.5	Yes No Yes No
0708	TWN-2	36.44	Flow 18.5 Meter 1000096.0	Yes No Yes No
0716	TW4-22	60.53	Flow 17.0 Meter 520431.8	Yes No Yes No
0713	TW4-24	63.01	Flow 16.0 Meter 762878.14	Yes No Yes No
0704	TW4-25	69.77	Flow 14.5 Meter 2405249.3	Yes No Yes No
0748	TW4-1	91.46	Flow 14.0 Meter 252238.8	Yes No Yes No
0741	TW4-2	87.32	Flow 14.0 Meter 272819.0	Yes No Yes No
0737	TW4-11	93.28	Flow 16.0 Meter 52176.4	Yes No Yes No
0700	TW4-21	71.30	Flow 16.0 Meter 1364075.47	Yes No Yes No
0720	TW4-37	64.38	Flow 16.5 Meter 1202610.4	Yes No Yes No
0729	TW4-39	64.99	Flow 18.0 Meter 338971.1	Yes No Yes No
0751	TW4-41	87.32	Flow 2.5 Meter 63105.28	Yes No 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 6/22/18

Name Garrin/Tanner

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)
1323	MW-4	82.80	Flow 4.5	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
			Meter 1782967.20	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1314	MW-26	72.18	Flow 10.0	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
			Meter 290022.20	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1450	TW4-19	66.81	Flow 18.0	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
			Meter 1368449.40	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1308	TW4-20	66.72	Flow 7.0	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
			Meter 249968.70	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1329	TW4-4	81.70	Flow 14.5	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
			Meter 587397.20	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1288	TWN-2	40.20	Flow 18.5	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
			Meter 1005387.00	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1302	TW4-22	60.58	Flow 17.0	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
			Meter 523415.60	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1259	TW4-24	63.00	Flow 15.6	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
			Meter 769881.07	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1257	TW4-25	69.65	Flow 14.5	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
			Meter 2419647.90	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1326	TW4-1	102.80	Flow 14.4	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
			Meter 253591.20	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1320	TW4-2	103.12	Flow 14.1	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
			Meter 274871.60	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1317	TW4-11	93.26	Flow 16.0	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
			Meter 52475.50	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1250	TW4-21	71.18	Flow 16.0	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
			Meter 1378299.61	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1305	TW4-37	63.98	Flow 16.5	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
			Meter 1212868.00	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1311	TW4-39	99.85	Flow 18.0	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
			Meter 342171.80	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1332	TW4-41	88.78	Flow 2.6	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
			Meter 70277.98	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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 6/28/18

Name Garcia Palmer

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)
1010	MW-4	88.60	Flow 4.5 Meter 1789346.68	Yes No Yes No
0959	MW-26	72.12	Flow 10.0 Meter 291705.80	Yes No Yes No
1019	TW4-19	66.43	Flow 18.0 Meter 1375517.80	Yes No Yes No
0951	TW4-20	66.95	Flow 7.0 Meter 250825.26	Yes No Yes No
1017	TW4-4	76.40	Flow 14.4 Meter 588459.00	Yes No Yes No
0935	TWN-2	36.97	Flow 18.5 Meter 1008110.00	Yes No Yes No
0945	TW4-22	59.80	Flow 17.2 Meter 523713.80	Yes No Yes No
0940	TW4-24	61.78	Flow 15.2 Meter 770577.98	Yes No Yes No
0932	TW4-25	68.86	Flow 14.4 Meter 2427134.30	Yes No Yes No
1014	TW4-1	95.40	Flow 14.4 Meter 254145.40	Yes No Yes No
1006	TW4-2	90.31	Flow 14.0 Meter 275876.40	Yes No Yes No
1003	TW4-11	93.40	Flow 16.0 Meter 52634.60	Yes No Yes No
0929	TW4-21	69.98	Flow 16.0 Meter 1385686.09	Yes No Yes No
0950	TW4-37	65.29	Flow 16.2 Meter 1218130.60	Yes No Yes No
0956	TW4-39	78.02	Flow 18.0 Meter 344268.60	Yes No Yes No
1026	TW4-41	92.50	Flow 2.5 Meter 73711.22	Yes No Yes No

Operational Problems (Please list well number): TW4-24, 22 found without power.

Corrective Action(s) Taken (Please list well number): Electricians were notified and a fuse was repaired to regain power to wells TW4-24, 22.

* Depth is measured to the nearest 0.01 feet.

Tab D

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

NAME: Garrin Palmer, Tanner Holliday

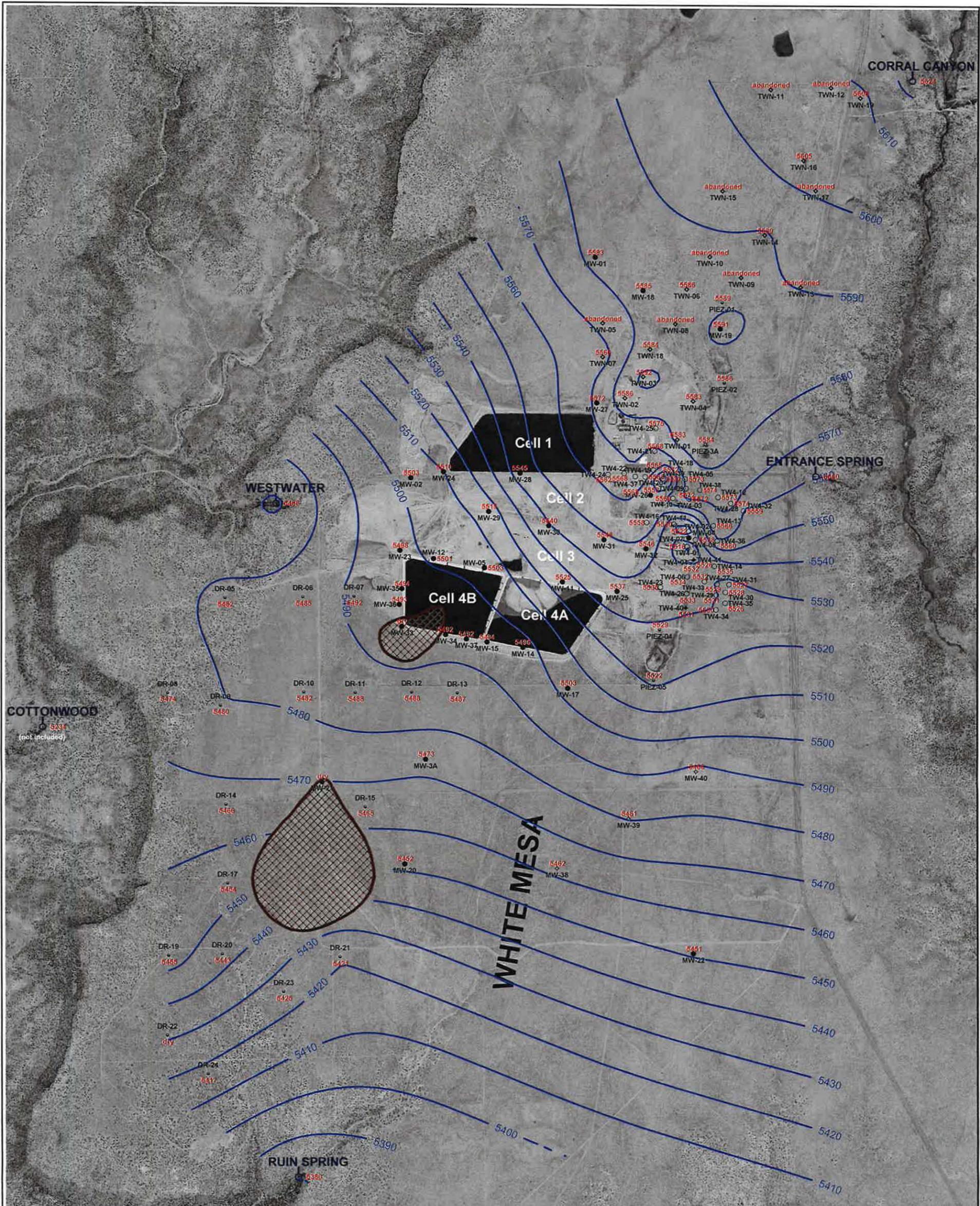
Date: 6/21-22/2018

Date	Time	Well	Depth to Water (ft.)	Date	Time	Well	Depth to Water (ft.)	Date	Time	Well	Depth to Water (ft.)
6/22/2018	1002	MW-01	64.44	6/22/2018	1323	MW-04	82.80	6/22/2018	947	PIEZ-01	66.13
6/22/2018	1021	MW-02	109.61	6/22/2018	1326	TW4-01	102.80	6/22/2018	943	PIEZ-02	42.25
6/21/2018	1409	MW-03A	84.21	6/22/2018	1320	TW4-02	103.12	6/22/2018	940	PIEZ-03A	53.48
6/22/2018	1218	MW-05	108.52	6/22/2018	1326	TW4-03	60.40	6/22/2018	1045	PIEZ-04	62.70
6/22/2018	1056	MW-11	85.42	6/22/2018	1329	TW4-04	81.70	6/22/2018	1048	PIEZ-05	62.20
6/22/2018	1220	MW-12	107.87	6/22/2018	1330	TW4-05	68.02	6/22/2018	1012	TWN-01	65.30
6/22/2018	1040	MW-14	102.41	6/22/2018	1322	TW4-06	74.86	6/22/2018	1256	TWN-02	40.20
6/22/2018	1038	MW-15	105.65	6/22/2018	1324	TW4-07	80.95	6/22/2018	935	TWN-03	42.05
6/21/2018	1416	MW-17	71.75	6/22/2018	1325	TW4-08	83.67	6/22/2018	938	TWN-04	58.40
6/22/2018	959	MW-18	72.79	6/22/2018	1329	TW4-09	65.90	6/22/2018	957	TWN-06	79.35
6/22/2018	946	MW-19	63.77	6/22/2018	1337	TW4-10	65.43	6/22/2018	1004	TWN-07	83.05
6/21/2018	928	MW-20	88.42	6/22/2018	1317	TW4-11	93.26	6/22/2018	950	TWN-14	60.34
6/22/2018	910	MW-22	66.51	6/22/2018	726	TW4-12	51.65	6/22/2018	952	TWN-16	47.51
6/22/2018	1025	MW-23	114.00	6/22/2018	709	TW4-13	53.91	6/22/2018	1009	TWN-18	61.22
6/22/2018	1019	MW-24	111.77	6/22/2018	705	TW4-14	78.10	6/21/2018	1044	TWN-19	53.65
6/22/2018	1043	MW-25	75.75	6/22/2018	1103	TW4-16	70.71	6/21/2018	1016	DR-05	83.15
6/22/2018	1314	MW-26	72.18	6/22/2018	1014	TW4-18	69.00	6/21/2018	1014	DR-06	94.15
6/22/2018	933	MW-27	55.64	6/22/2018	1450	TW4-19	66.81	6/21/2018	1031	DR-07	91.92
6/22/2018	1214	MW-28	74.66	6/22/2018	1308	TW4-20	66.72	6/21/2018	1008	DR-08	51.31
6/22/2018	1239	MW-29	108.01	6/22/2018	1251	TW4-21	71.18	6/21/2018	1003	DR-09	86.60
6/22/2018	1236	MW-30	74.87	6/22/2018	1302	TW4-22	60.58	6/21/2018	1001	DR-10	78.44
6/22/2018	1059	MW-31	68.45	6/22/2018	1054	TW4-23	72.03	6/21/2018	1403	DR-11	98.00
6/22/2018	1101	MW-32	79.25	6/22/2018	1259	TW4-24	63.00	6/21/2018	1405	DR-12	91.47
6/22/2018	1030	MW-33	DRY	6/22/2018	1253	TW4-25	69.65	6/21/2018	1412	DR-13	69.85
6/22/2018	1035	MW-34	107.50	6/22/2018	1052	TW4-26	68.94	6/21/2018	956	DR-14	76.28
6/22/2018	1027	MW-35	112.23	6/21/2018	1428	TW4-27	78.88	6/21/2018	924	DR-15	92.89
6/22/2018	1029	MW-36	110.39	6/22/2018	727	TW4-28	43.08	6/21/2018	952	DR-17	64.75
6/22/2018	1036	MW-37	106.89	6/21/2018	1437	TW4-29	75.50	6/21/2018	942	DR-19	63.14
6/22/2018	914	MW-38	70.69	6/21/2018	1431	TW4-30	74.95	6/21/2018	940	DR-20	55.37
6/22/2018	916	MW-39	65.92	6/21/2018	1430	TW4-31	77.22	6/21/2018	933	DR-21	100.89
6/22/2018	1310	MW-40	80.31	6/22/2018	729	TW4-32	53.32	6/21/2018	947	DR-22	DRY
				6/21/2018	1425	TW4-33	74.60	6/21/2018	936	DR-23	70.50
				6/21/2018	1435	TW4-34	73.70	6/21/2018	946	DR-24	44.44
				6/21/2018	1433	TW4-35	74.31				
				6/22/2018	707	TW4-36	56.48				
				6/22/2018	1305	TW4-37	63.98				
				6/22/2018	1327	TW4-38	55.74				
				6/22/2018	1311	TW4-39	99.65				
				6/22/2018	1050	TW4-40	66.75				
				6/22/2018	1332	TW4-41	88.78				

MW-26 = TW4-15

MW-32 = TW4-17

Comments:

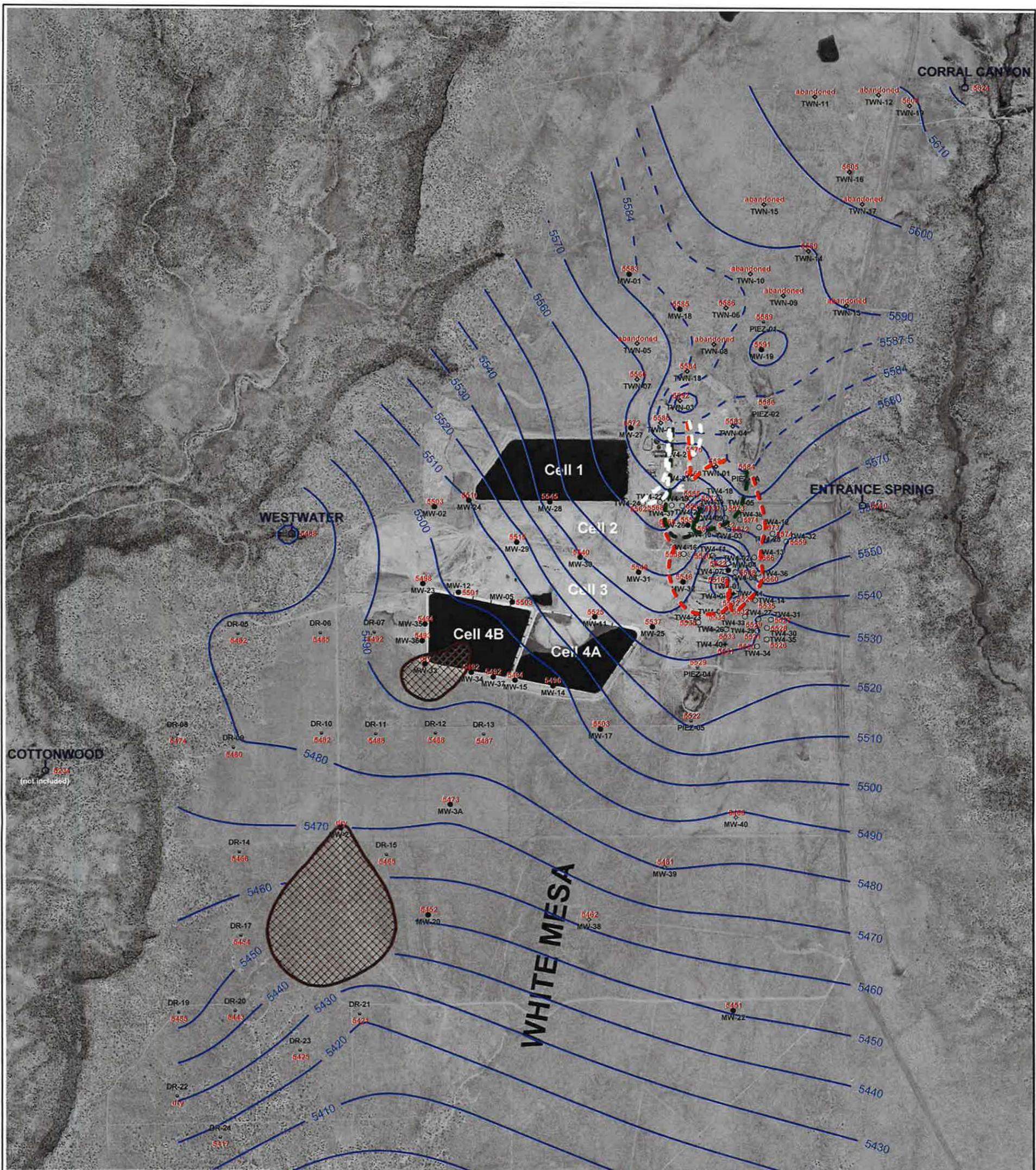


- EXPLANATION**
-  estimated dry area
 -  MW-38 perched monitoring well installed February, 2018 showing elevation in feet amsl
 -  TW4-40 temporary perched monitoring well installed February, 2018 showing elevation in feet amsl
 -  PIEZ-3A May, 2016 replacement of perched piezometer Piez-03 showing elevation in feet amsl
 -  MW-5 perched monitoring well showing elevation in feet amsl
 -  TW4-12 temporary perched monitoring well showing elevation in feet amsl
 -  TWN-7 temporary perched nitrate monitoring well showing elevation in feet amsl
 -  PIEZ-1 perched piezometer showing elevation in feet amsl
 -  RUIN SPRING seep or spring showing elevation in feet amsl

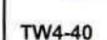
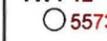

 1 mile

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 2nd QUARTER, 2018 WATER LEVELS WHITE MESA SITE	
	APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/aug18/WL/Uw0618.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, TW4-11 and TW4-41; for TW4-22 and TW4-24; and for TW4-19, TW4-20, TW4-37 and TW4-39)
-  estimated nitrate capture zone boundary stream tubes resulting from pumping
-  estimated dry area
- MW-38**
 perched monitoring well installed February, 2018 showing elevation in feet amsl
- TW4-40**
 temporary perched monitoring well installed February, 2018 showing elevation in feet amsl
- PIEZ-3A**
 May, 2016 replacement of perched piezometer Piez-03 showing elevation in feet amsl
- MW-5**
 perched monitoring well showing elevation in feet amsl
- TW4-12**
 temporary perched monitoring well showing elevation in feet amsl
- TWN-7**
 temporary perched nitrate monitoring well showing elevation in feet amsl
- PIEZ-1**
 perched piezometer showing elevation in feet amsl
- RUIN SPRING**
 seep or spring showing elevation in feet amsl

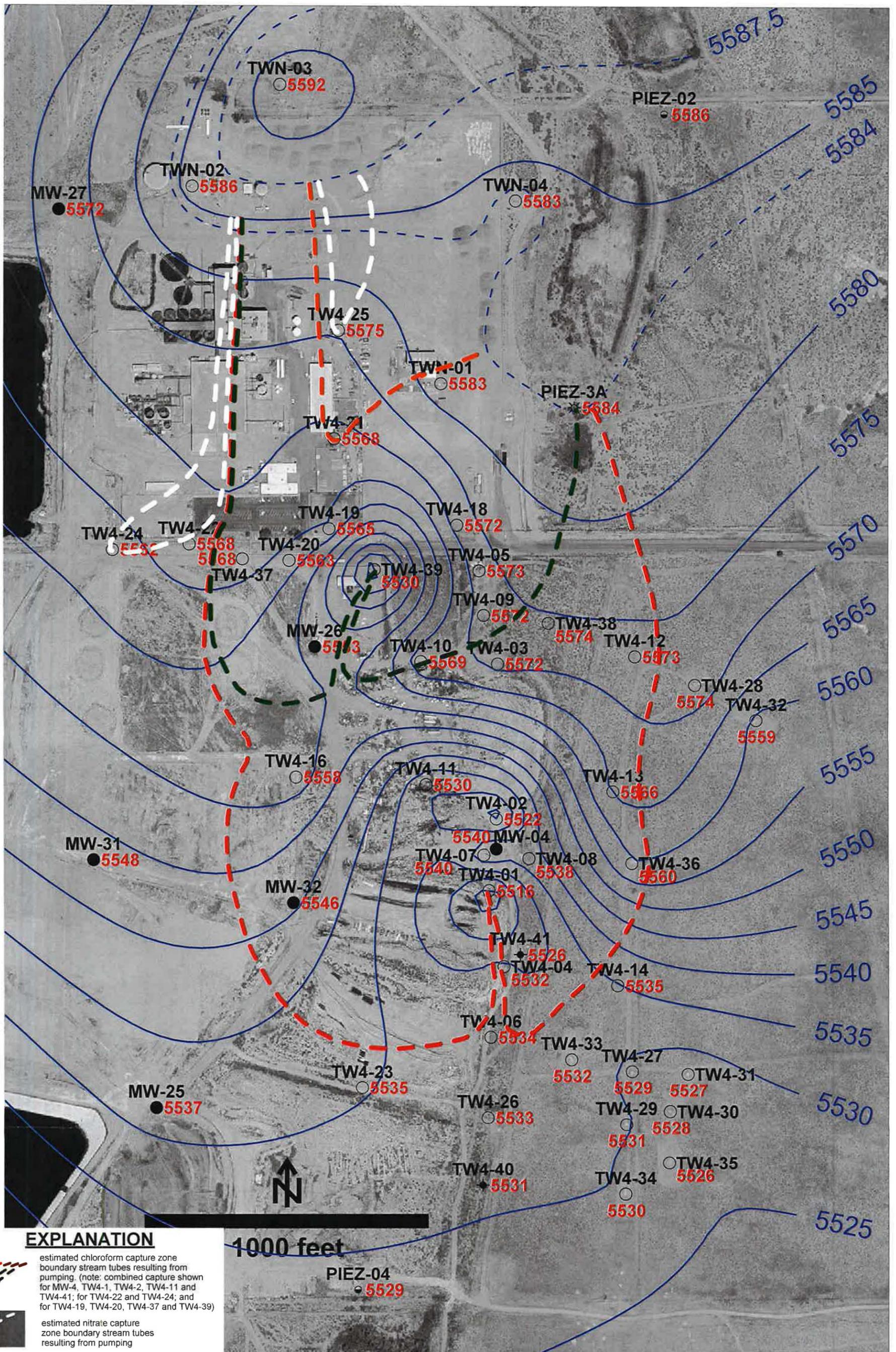
NOTES: MW-4, MW-26, TW4-1, TW4-2, TW4-4, TW4-11, TW4-19, TW4-20, TW4-21, TW4-37 and TW4-39 are chloroform pumping wells; TW4-22, TW4-24, TW4-25 and TWN-2 are nitrate pumping wells; TW4-11 water level is below the base of the Burro Canyon Formation



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**KRIGED 2nd QUARTER, 2018 WATER LEVELS
AND ESTIMATED CAPTURE ZONES
WHITE MESA SITE**

APPROVED	DATE	REFERENCE	FIGURE
		H:718000/aug18/WL/Uwl0618cz2.srf	D-2



EXPLANATION

-  estimated chloroform capture zone boundary stream tubes resulting from pumping. (note: combined capture shown for MW-4, TW4-1, TW4-2, TW4-11 and TW4-41; for TW4-22 and TW4-24; and for TW4-19, TW4-20, TW4-37 and TW4-39)
-  estimated nitrate capture zone boundary stream tubes resulting from pumping
-  TW4-38 5574 temporary perched monitoring well installed October, 2016 showing elevation in feet amsl
-  PIEZ-3A 5584 May, 2016 replacement of perched piezometer Piez-03 showing elevation in feet amsl
-  MW-25 5537 perched monitoring well showing elevation in feet amsl
-  TW4-7 5540 temporary perched monitoring well showing elevation in feet amsl
-  PIEZ-2 5586 perched piezometer showing elevation in feet amsl

1000 feet

NOTES: MW-4, MW-26, TW4-1, TW4-2, TW4-4, TW4-11, TW4-19, TW4-20, TW4-21, TW4-37, TW4-39 and TW4-41 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



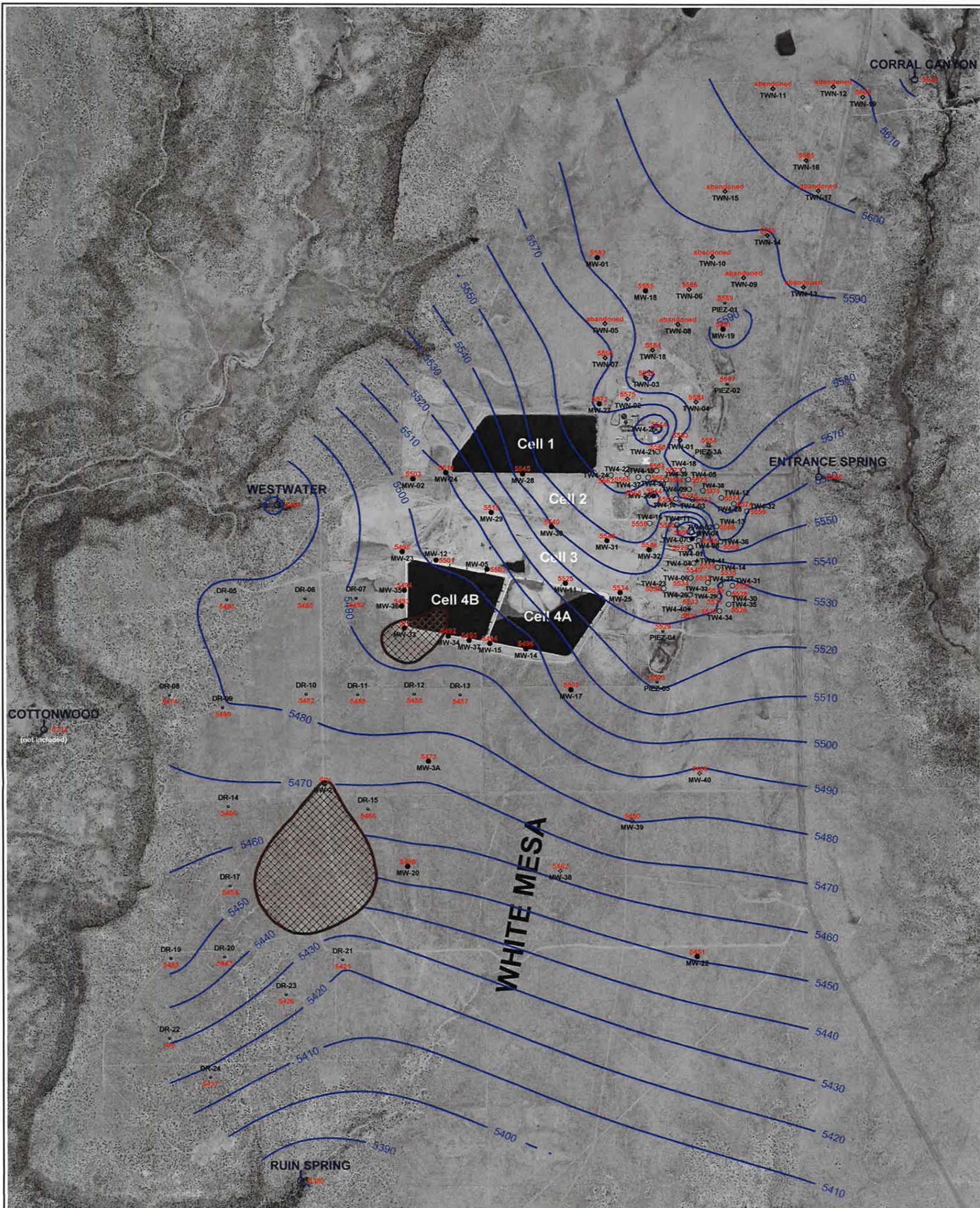
**HYDRO
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**KRIGED 2nd QUARTER, 2018 WATER LEVELS
AND ESTIMATED CAPTURE ZONES
WHITE MESA SITE
(detail map)**

APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/aug18/WL/Uwl0618cz.srf	D-3

Tab E

Kriged Previous Quarter Groundwater Contour Map



EXPLANATION

-  estimated dry area
- MW-38**
 perched monitoring well installed February, 2018 showing elevation in feet amsl
- TW4-40**
 temporary perched monitoring well installed February, 2018 showing elevation in feet amsl
- PIEZ-3A**
 May, 2016 replacement of perched piezometer Piez-03 showing elevation in feet amsl
- MW-5**
 perched monitoring well showing elevation in feet amsl
- TW4-12**
 temporary perched monitoring well showing elevation in feet amsl
- TWN-7**
 temporary perched nitrate monitoring well showing elevation in feet amsl
- PIEZ-1**
 perched piezometer showing elevation in feet amsl
- RUIN SPRING**
 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 1st QUARTER, 2018 WATER LEVELS
WHITE MESA SITE**

APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/may18/WL/Uwl0318.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	

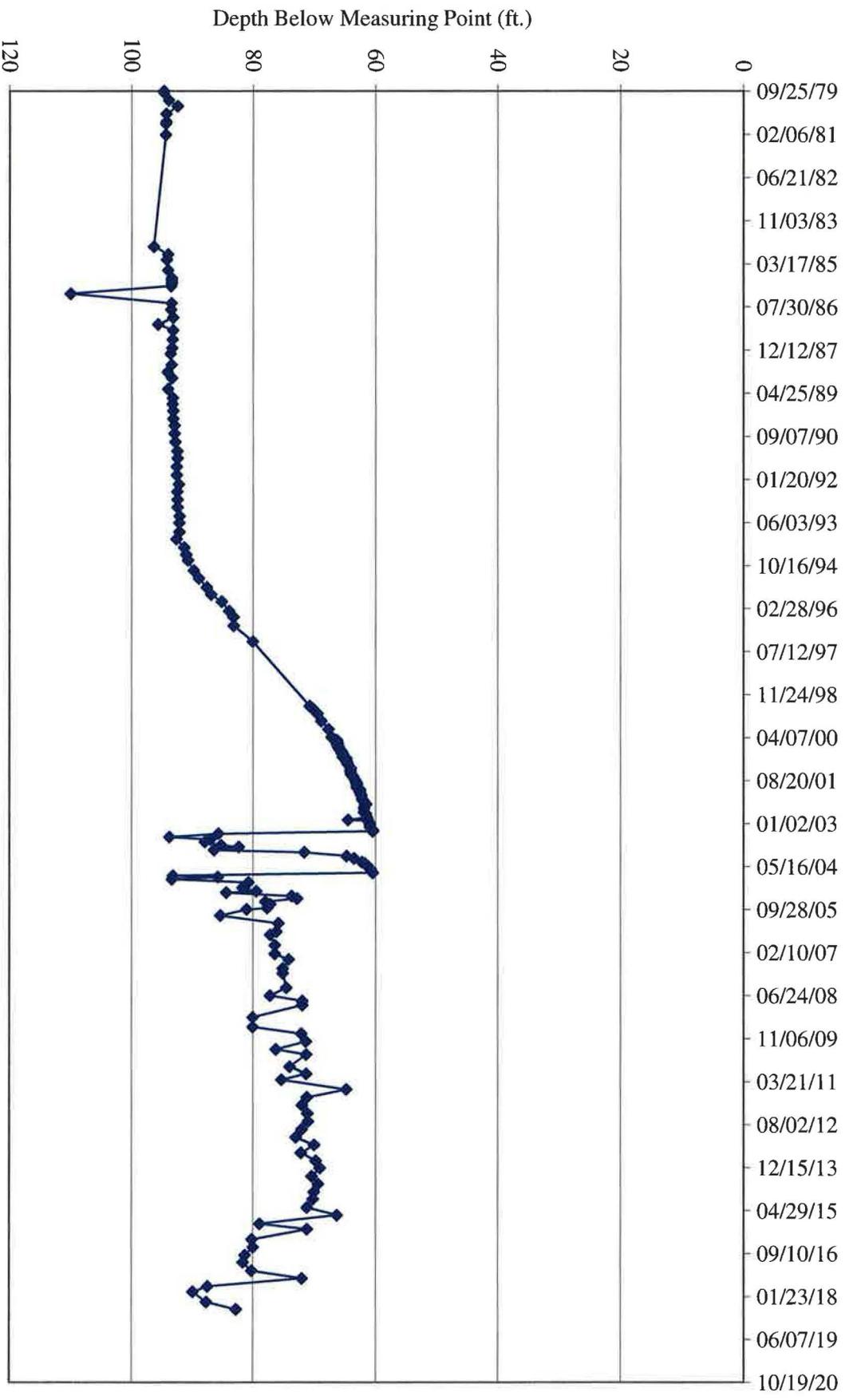
**Water Levels and Data over Time
White Mesa Mill - Well MW4**

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	
5,550.28				6/27/2017	72.05	70.49	
5,534.84				9/28/2017	87.49	85.93	
5,532.41				11/30/2017	89.92	88.36	
5,534.64				3/28/2018	87.69	86.13	
5,539.53				6/22/2018	82.80	81.24	

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				111.30
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**

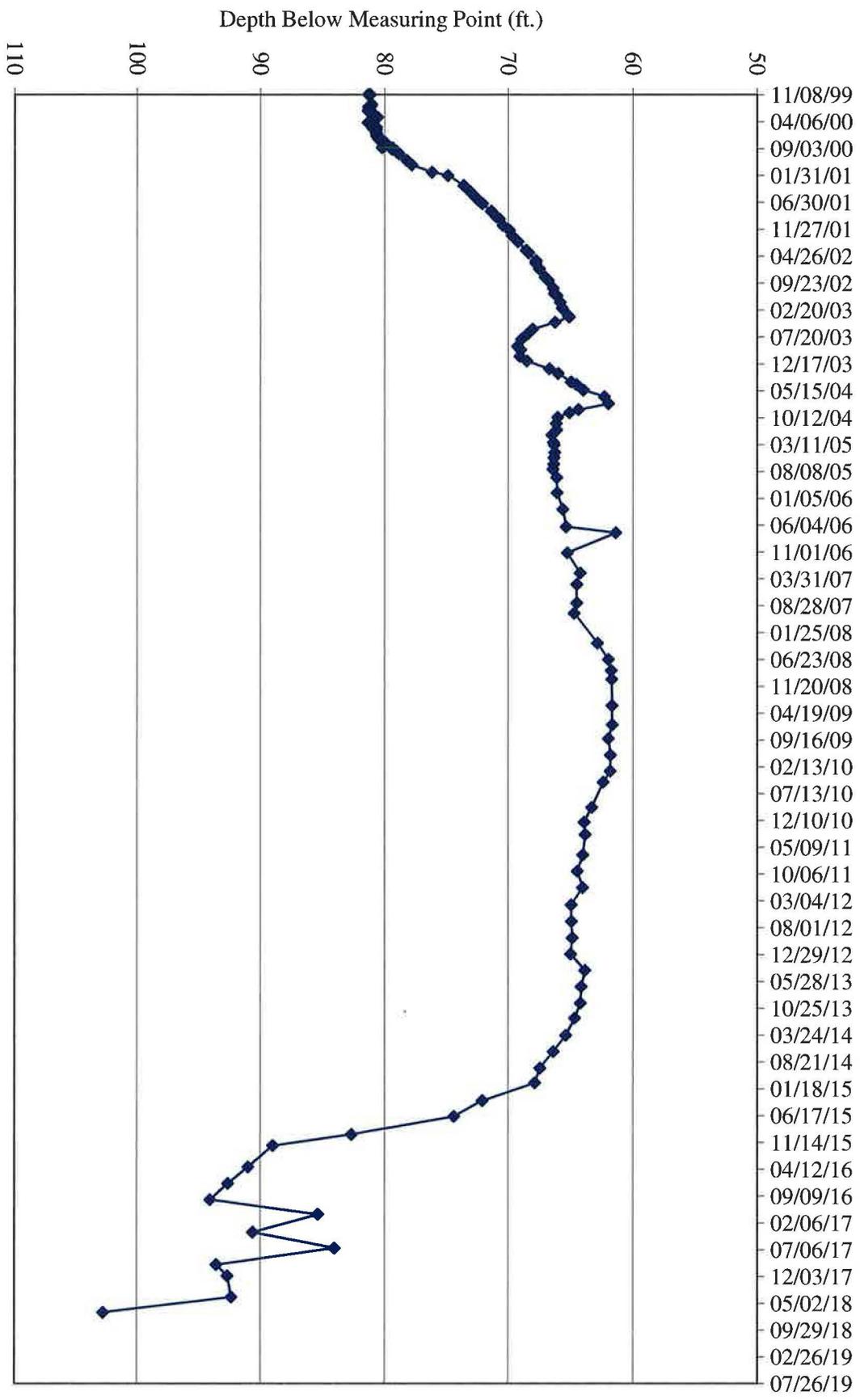
Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
z	5,620.77	5,618.58	1.02				111.30
5,544.96				03/29/01	73.62	72.60	
5,545.45				04/30/01	73.13	72.11	
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				111.30
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) 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
	5,620.77	5,618.58	1.02				111.30
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	
5,534.48				6/27/2017	84.10	83.08	
5,524.98				9/28/2017	93.60	92.58	
5,525.88				11/30/2017	92.70	91.68	
5,526.18				3/28/2018	92.40	91.38	
5,515.78				6/22/2018	102.80	101.78	



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				120.900
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				120.900
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	

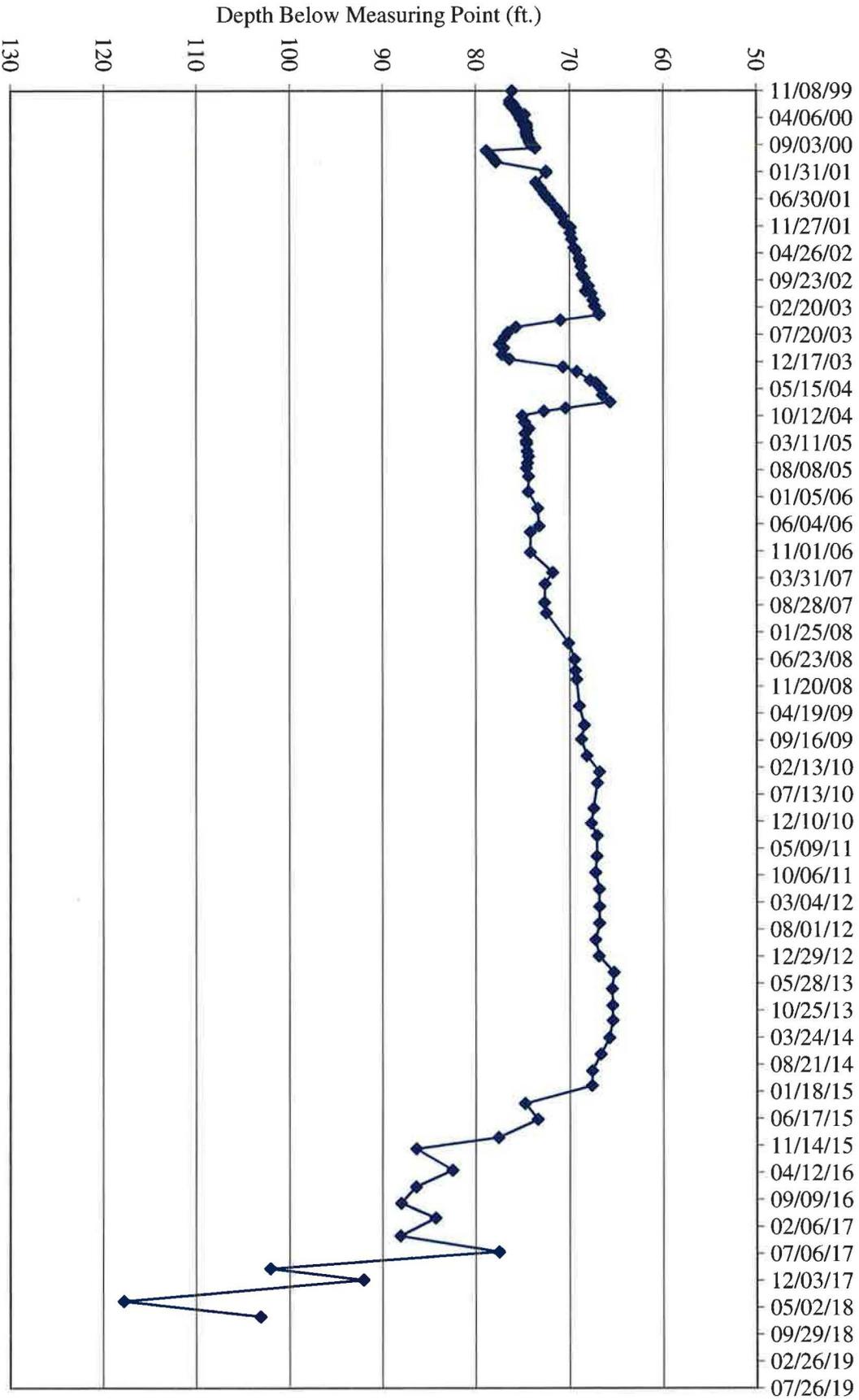
**Water Levels and Data over Time
White Mesa Mill - Well TW4-2**

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				120.900
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				120.900
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	
5,547.16				6/27/2017	77.56	75.94	
5,522.65				9/28/2017	102.07	100.45	
5,532.64				11/30/2017	92.08	90.46	
5,506.94				3/28/2018	117.78	116.16	
5521.60				6/22/2018	103.12	101.50	

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				140.30
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				140.30
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	

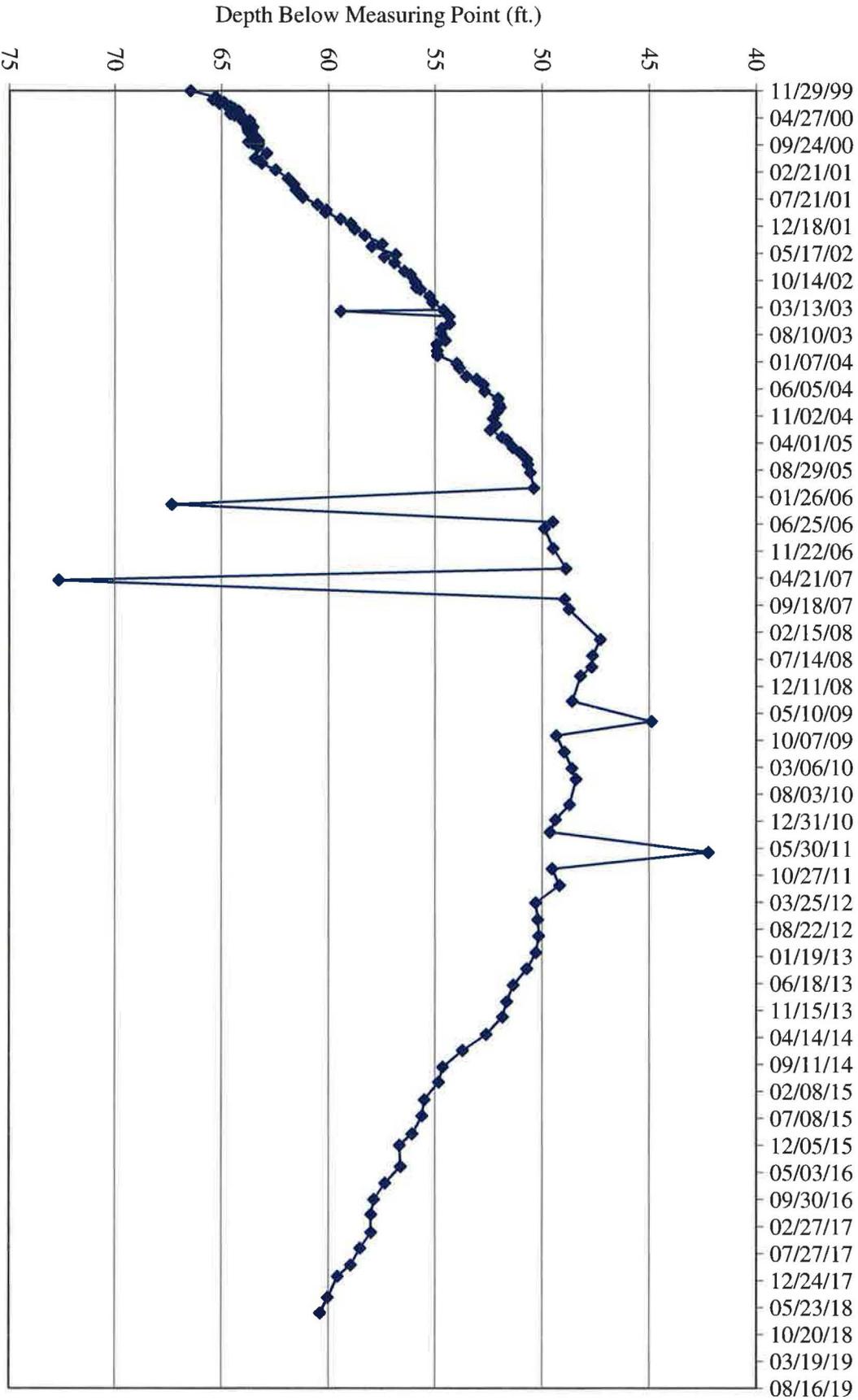
**Water Levels and Data over Time
White Mesa Mill - Well TW4-3**

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				140.30
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				140.30
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	
5,573.72				6/27/2017	58.51	57.49	
5,573.28				9/28/2017	58.95	57.93	
5,572.66				11/30/2017	59.57	58.55	
5,572.19				3/28/2018	60.04	59.02	
5571.83				6/22/2018	60.4	59.38	

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	

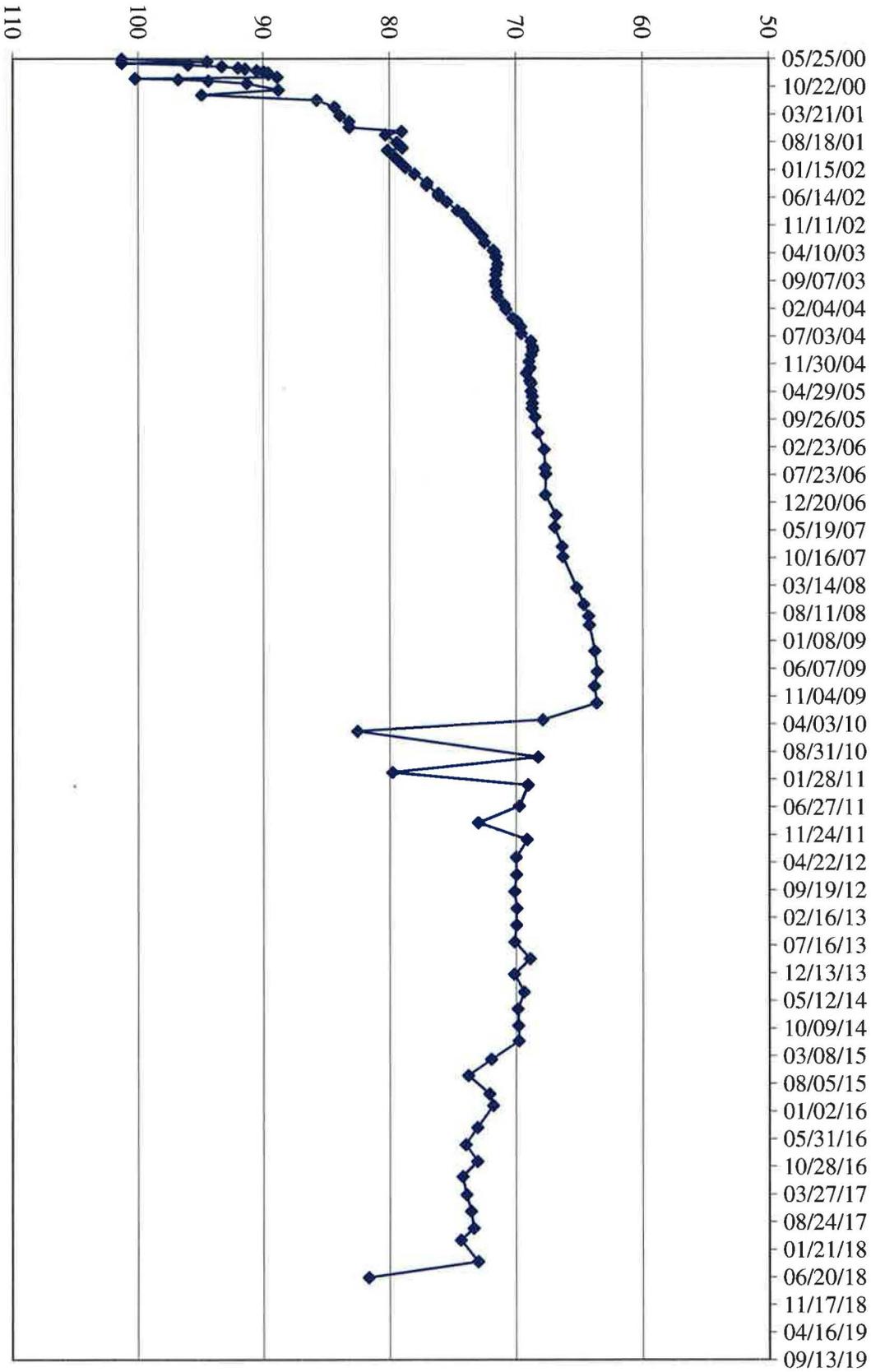
**Water Levels and Data over Time
White Mesa Mill - Well TW4-4**

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	
5,539.89				06/27/17	73.60	72.42	
5,540.09				09/28/17	73.40	72.22	
5,539.07				11/30/17	74.42	73.24	
5,540.45				03/28/18	73.04	71.86	
5,531.79				06/22/18	81.70	80.52	

Depth Below Measuring Point (ft.)



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				121.85
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	
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	

**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				121.85
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	
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	

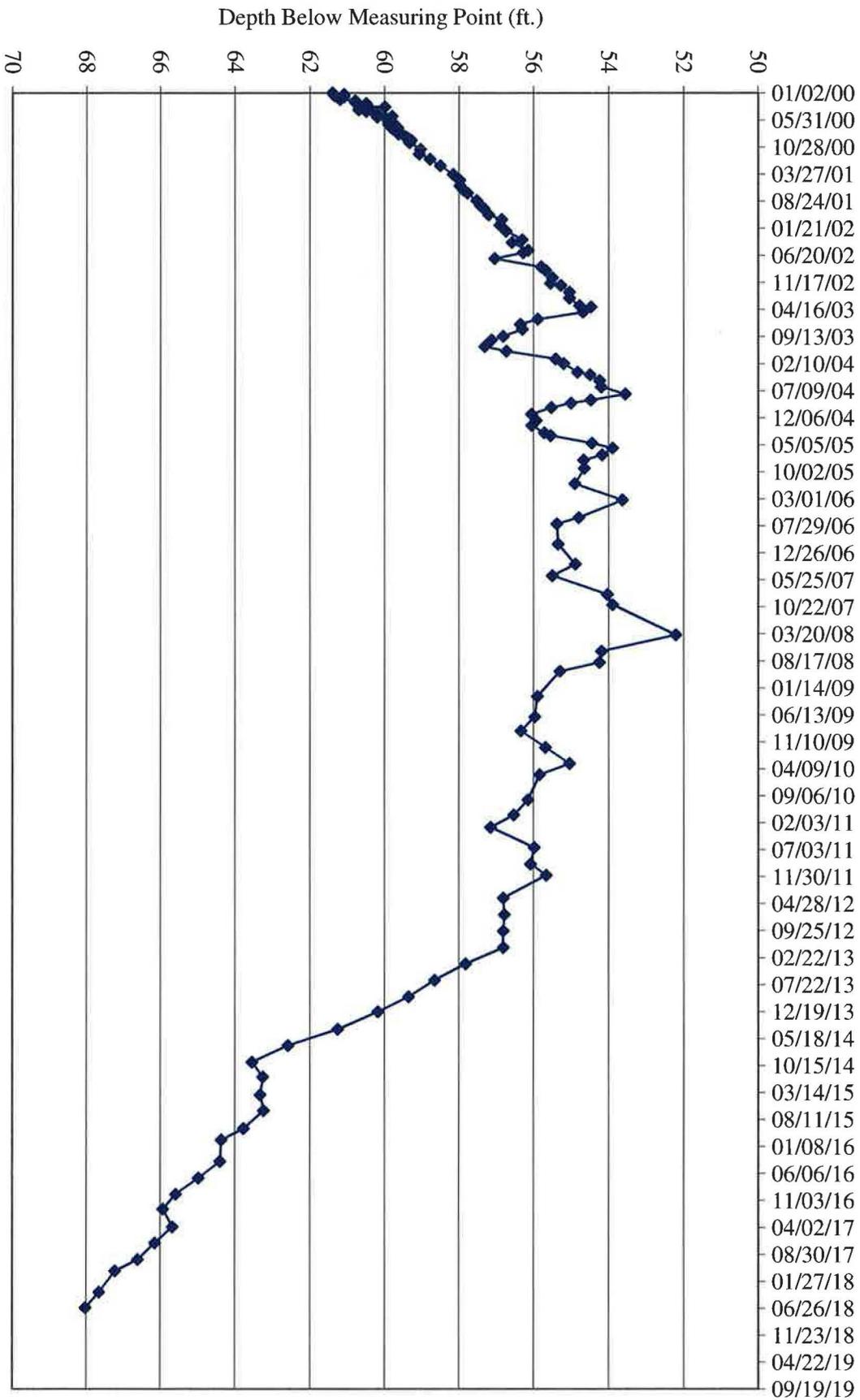
Water Levels and Data over Time
White Mesa Mill - Well TW4-5

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				121.85
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	
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	

**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				121.85
5,574.77				12/21/16	65.93	63.98	
5,575.03				03/30/17	65.67	63.72	
5,574.55				06/27/17	66.15	64.20	
5,574.09				09/28/17	66.61	64.66	
5,573.48				11/30/17	67.22	65.27	
5,573.05				03/28/18	67.65	65.70	
5572.68				06/22/18	68.02	66.07	

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



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

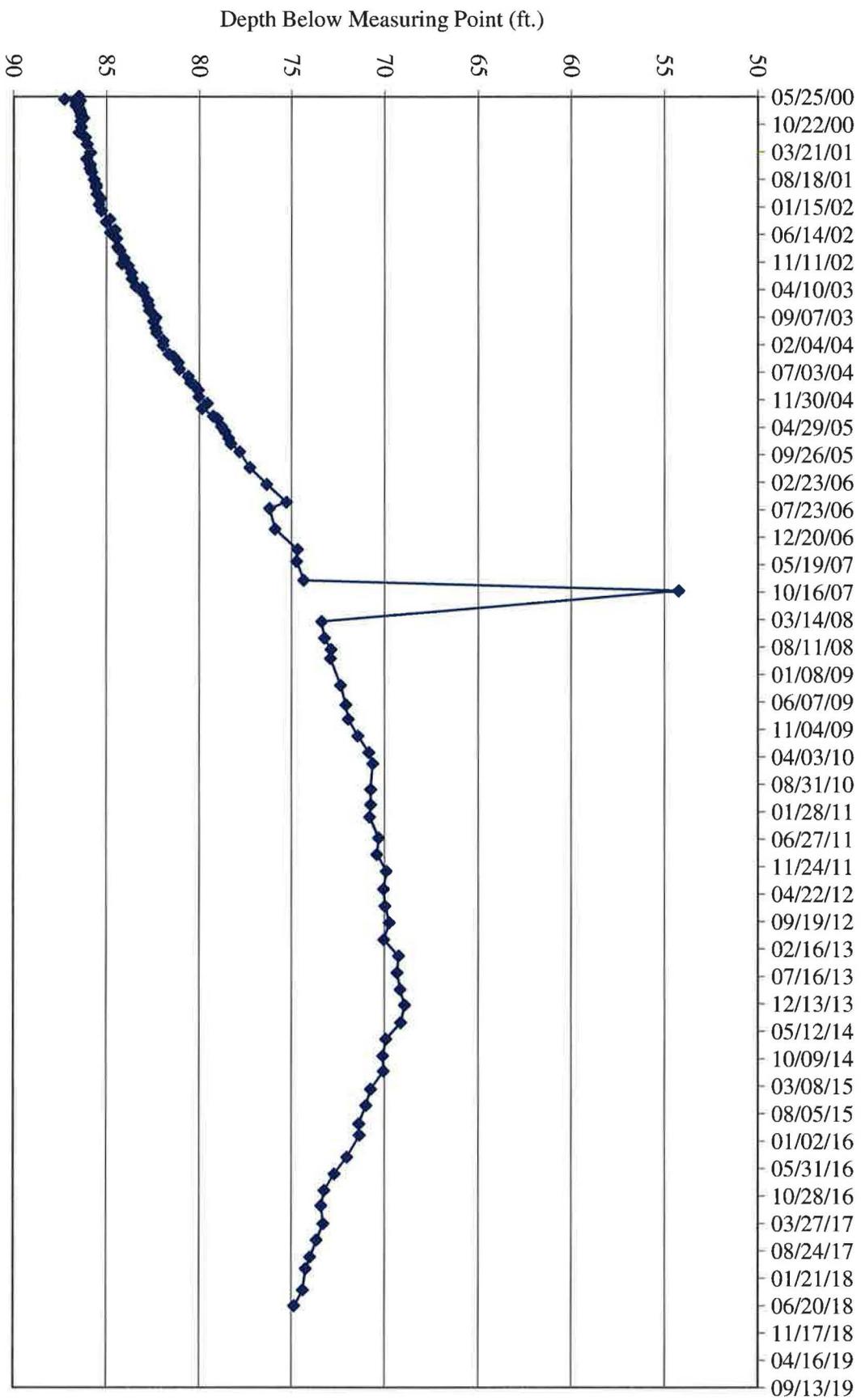
Water Elevation (z)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well (blw.LSD)
	5,607.33	5,608.78	1.450				99.60
5,522.28				05/25/00	86.50	85.05	
5,521.51				06/09/00	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				99.60
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				99.60
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	
5,535.13				06/27/17	73.65	72.20	
5,534.78				09/28/17	74.00	72.55	
5,534.54				11/30/17	74.24	72.79	
5,534.38				03/28/18	74.40	72.95	
5,533.92				06/22/18	74.86	73.41	



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				121.0
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	
5,556.15				12/06/00	64.92	63.72	

**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				121.0
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	
5,561.64				07/28/04	59.43	58.23	
5,543.00				08/30/04	78.07	76.87	

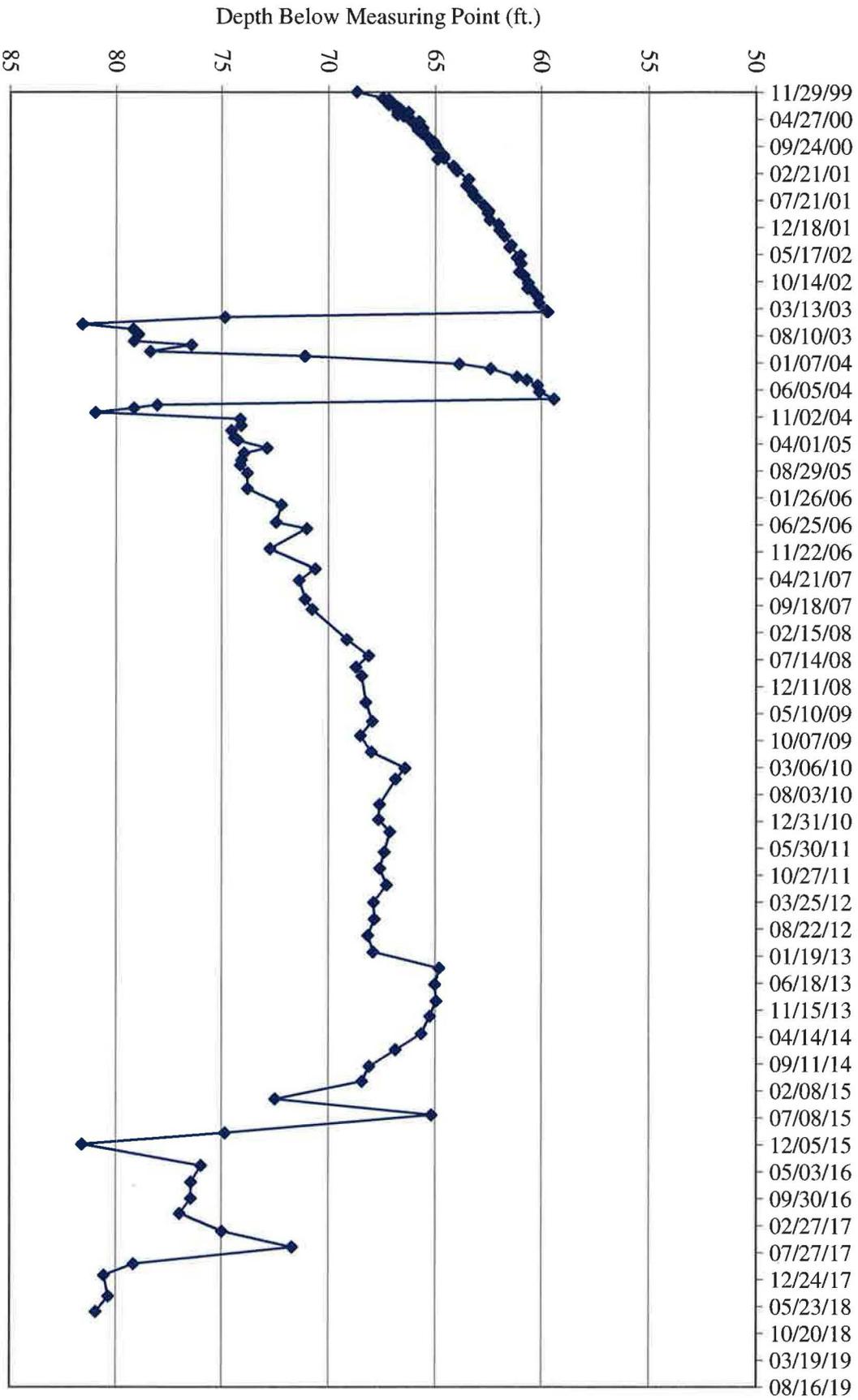
**Water Levels and Data over Time
White Mesa Mill - Well TW4-7**

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				121.0
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	
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	

**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				121.0
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	
5,549.36				06/27/17	71.71	70.51	
5,541.91				09/28/17	79.16	77.96	
5,540.51				11/30/17	80.56	79.36	
5,540.71				03/28/18	80.36	79.16	
5,540.12				06/22/18	80.95	79.75	

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				126.2
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	

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				126.2
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	
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	

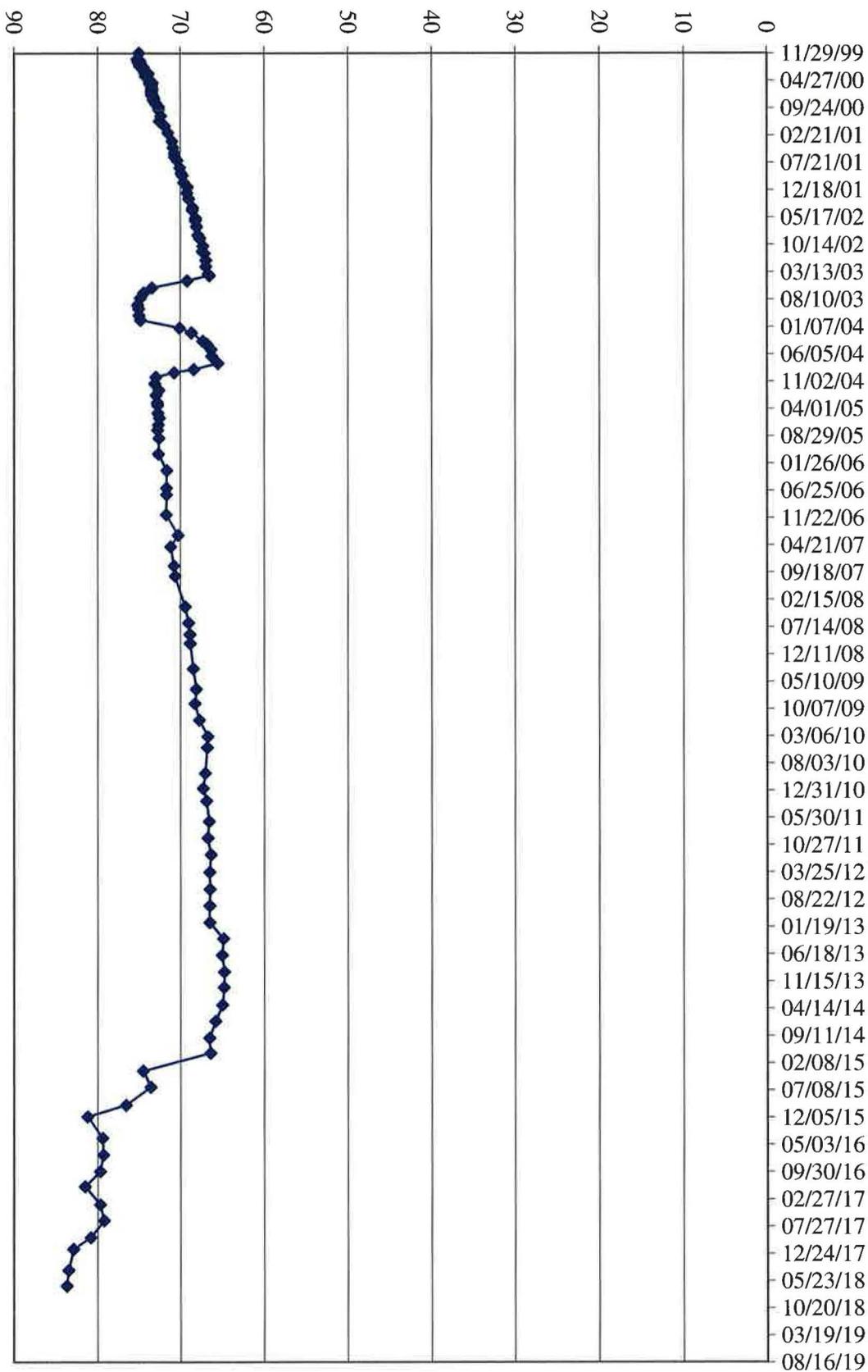
**Water Levels and Data over Time
White Mesa Mill - Well TW4-8**

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				126.2
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	
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	

**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				126.2
5,553.63				12/11/09	67.77	63.17	
5,554.65				03/11/10	66.75	62.15	
5,554.57				05/11/10	66.83	62.23	
5,554.34				09/29/10	67.06	62.46	
5,554.09				12/21/10	67.31	62.71	
5,554.50				02/28/11	66.9	62.30	
5,554.79				06/21/11	66.61	62.01	
5,554.63				09/20/11	66.77	62.17	
5,555.01				12/21/11	66.39	61.79	
5,554.85				03/27/12	66.55	61.95	
5,554.90				06/28/12	66.5	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	
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	73.6	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	79.4	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	
5,542.19				06/27/17	79.21	74.61	
5,540.58				09/28/17	80.82	76.22	
5,538.52				11/30/17	82.88	78.28	
5,537.95				03/28/18	83.45	78.85	
5,537.73				06/22/18	83.67	79.07	

Depth Below Measuring Point (ft.)



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				120.1
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				120.1
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	

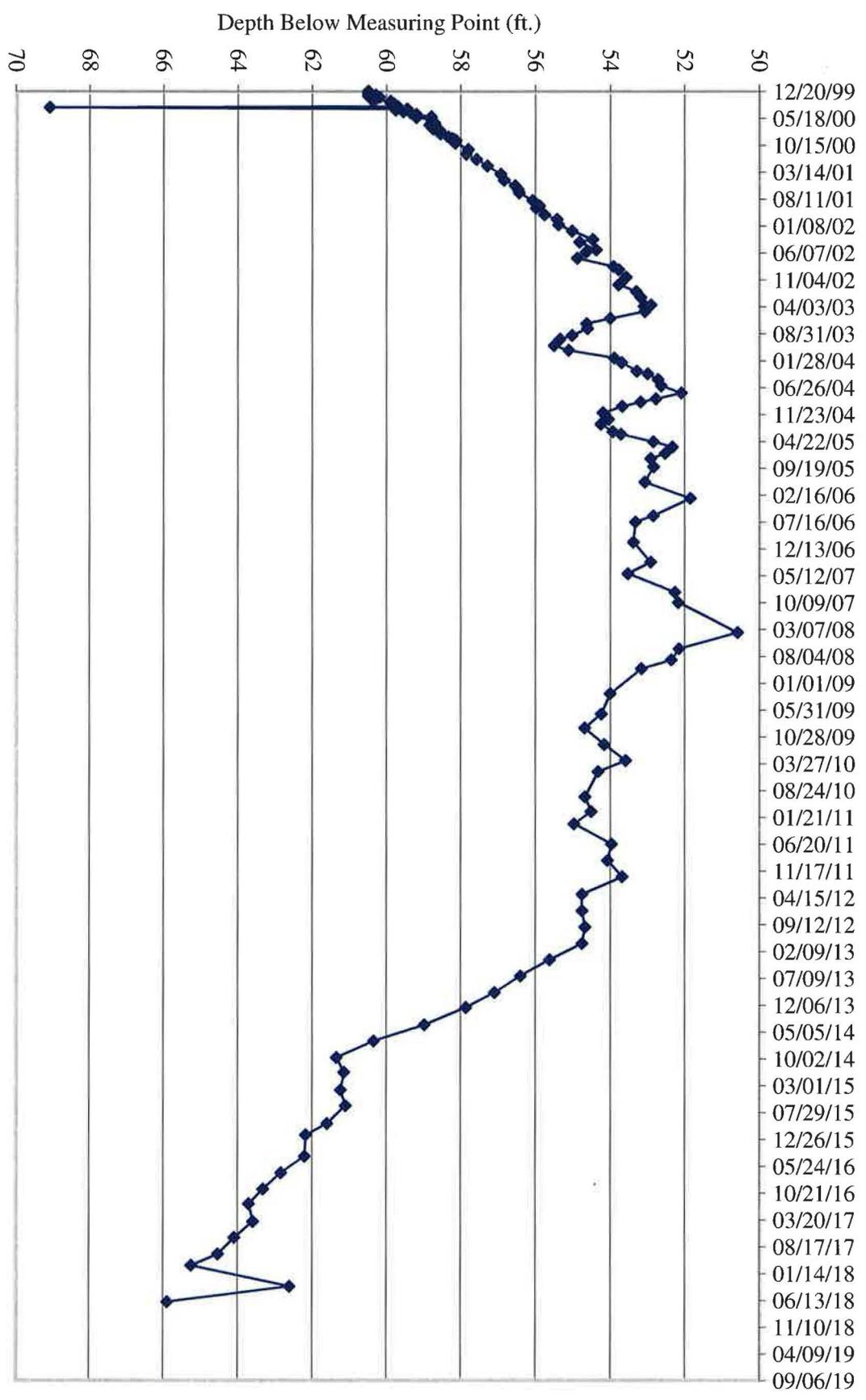
**Water Levels and Data over Time
White Mesa Mill - Well TW4-9**

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				120.1
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				120.1
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	
5,573.49				06/27/17	64.10	62.62	
5,573.05				09/28/17	64.54	63.06	
5,572.34				11/30/17	65.25	63.77	
5,574.97				03/28/18	62.62	61.14	
5571.69				06/22/18	65.90	64.42	

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				113.2
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	

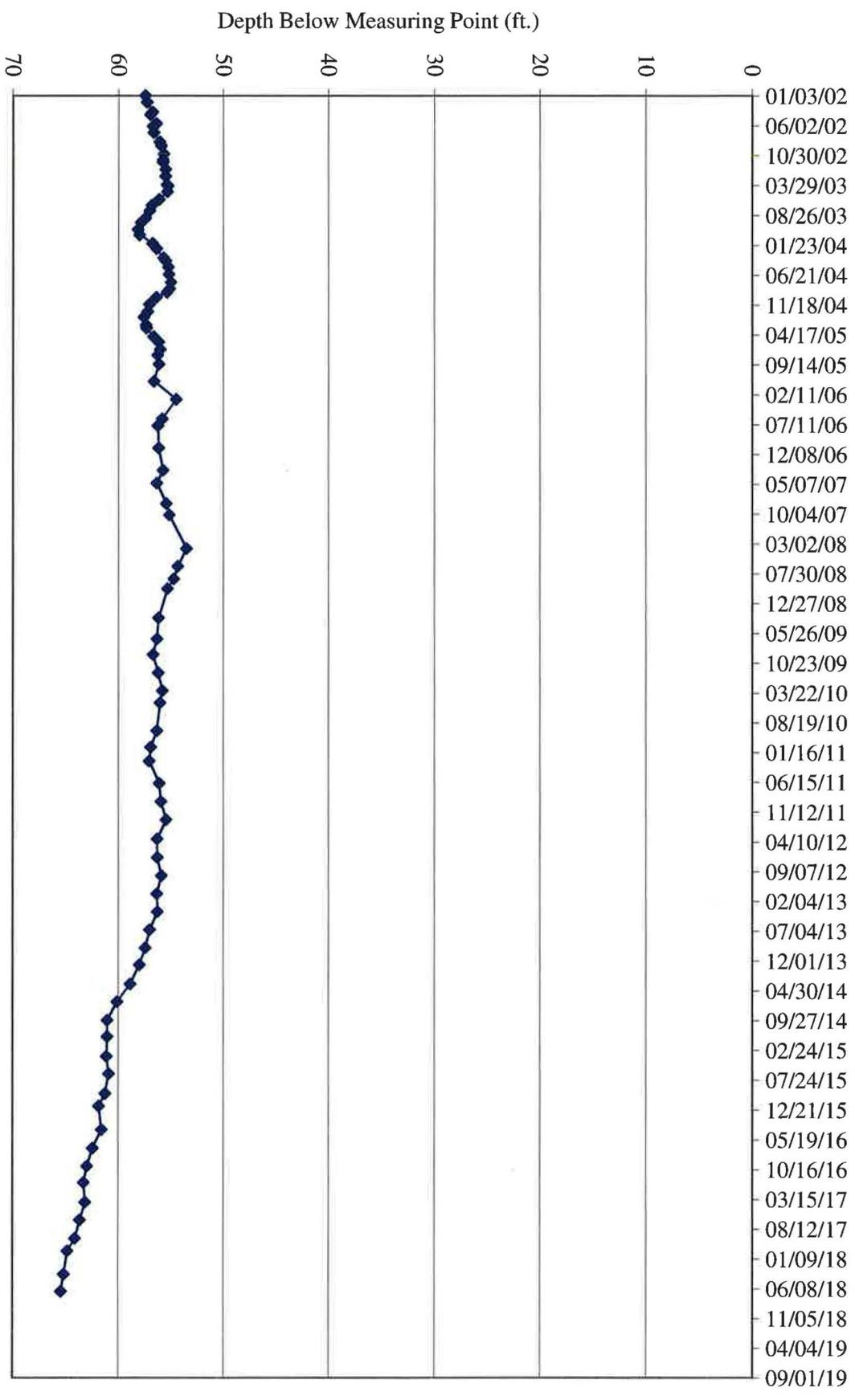
**Water Levels and Data over Time
White Mesa Mill - Well TW4-10**

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				113.2
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				113.2
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	
5,570.59				06/27/17	63.65	61.40	
5,570.12				09/28/17	64.12	61.87	
5,569.42				11/30/17	64.82	62.57	
5,569.06				03/28/18	65.18	62.93	
5568.81				06/22/18	65.43	63.18	

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				102.4
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	

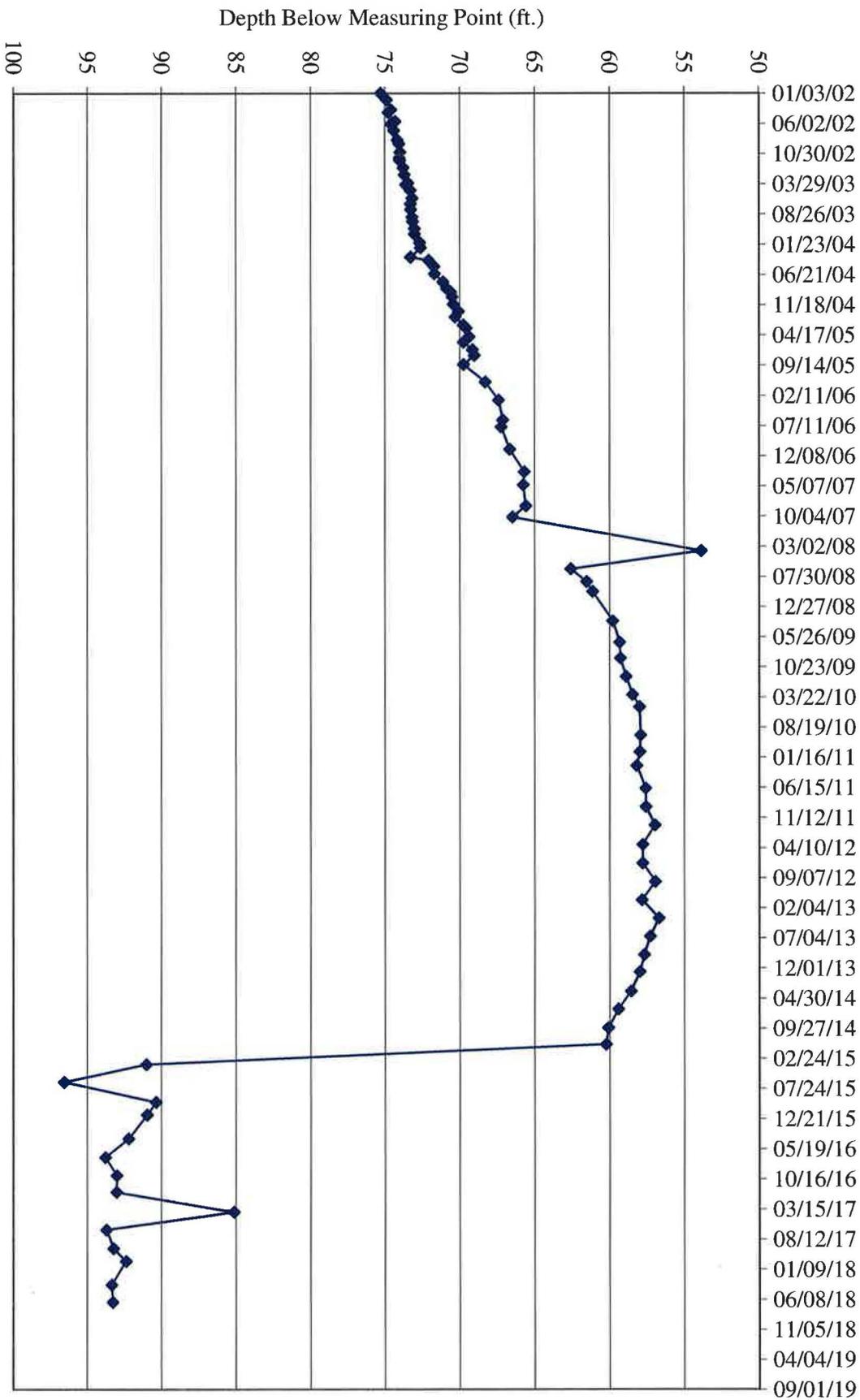
**Water Levels and Data over Time
White Mesa Mill - Well TW4-11**

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				102.4
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	
5,557.92				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				102.4
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	
5,529.93				06/27/17	93.69	91.99	
5,530.41				09/28/17	93.21	91.51	
5,531.26				11/30/17	92.36	90.66	
5,530.28				03/28/18	93.34	91.64	
5530.36				06/22/18	93.26	91.56	

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		Date Of Monitoring	Total or Measured	Total	Total Depth Of Well
		Elevation (MP)	Length Of Riser (L)		Depth to Water (blw.MP)	Depth to Water (blw.LSD)	
	5,622.38	5,624.23	1.85				103.2
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	

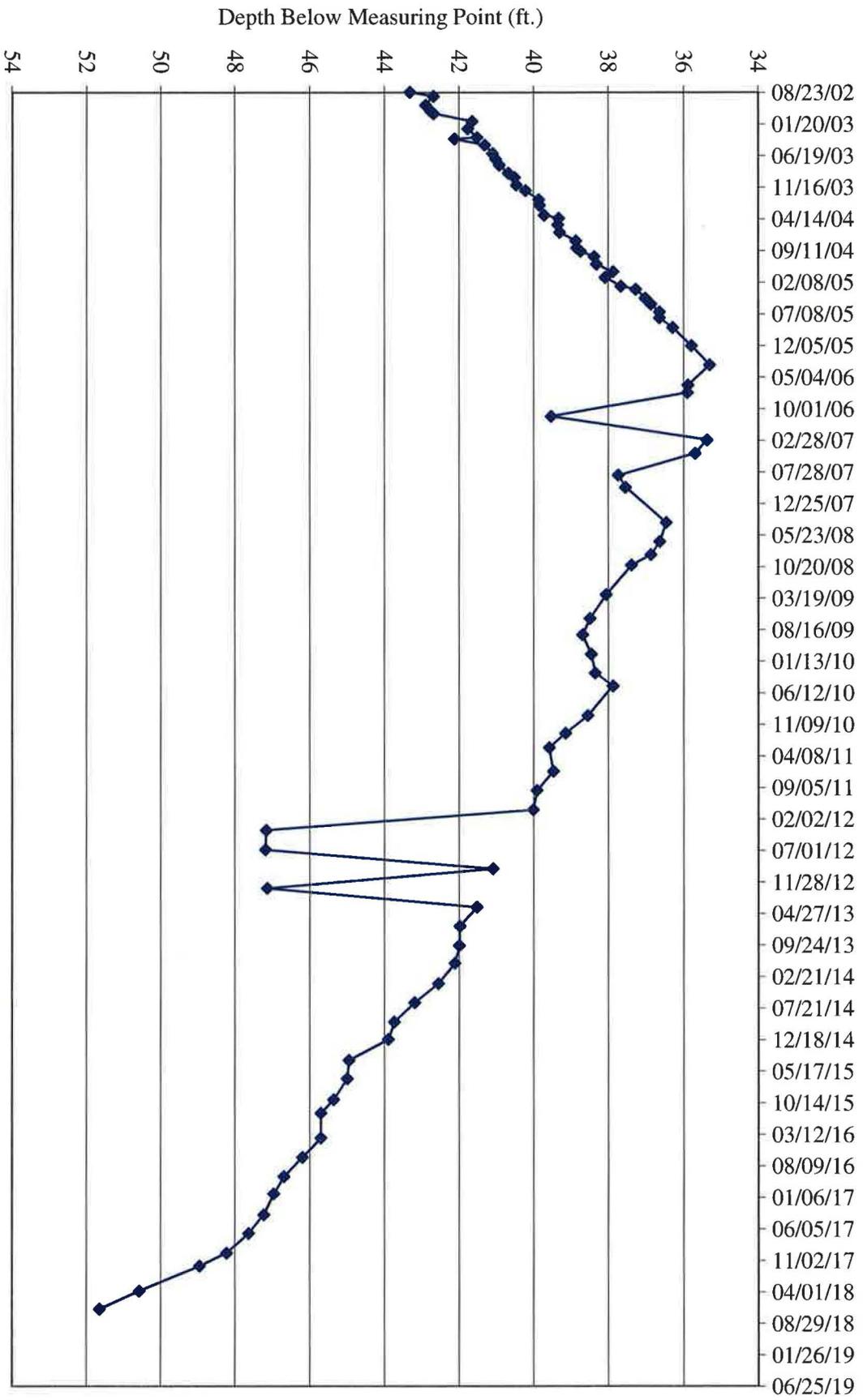
**Water Levels and Data over Time
White Mesa Mill - Well TW4-12**

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				103.2
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	
5,576.59				06/27/17	47.64	45.79	
5,576.00				09/28/17	48.23	46.38	
5,575.27				11/29/17	48.96	47.11	

**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				103.2
5,573.64				03/28/18	50.59	48.74	
5,572.58				06/22/18	51.65	49.80	

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



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

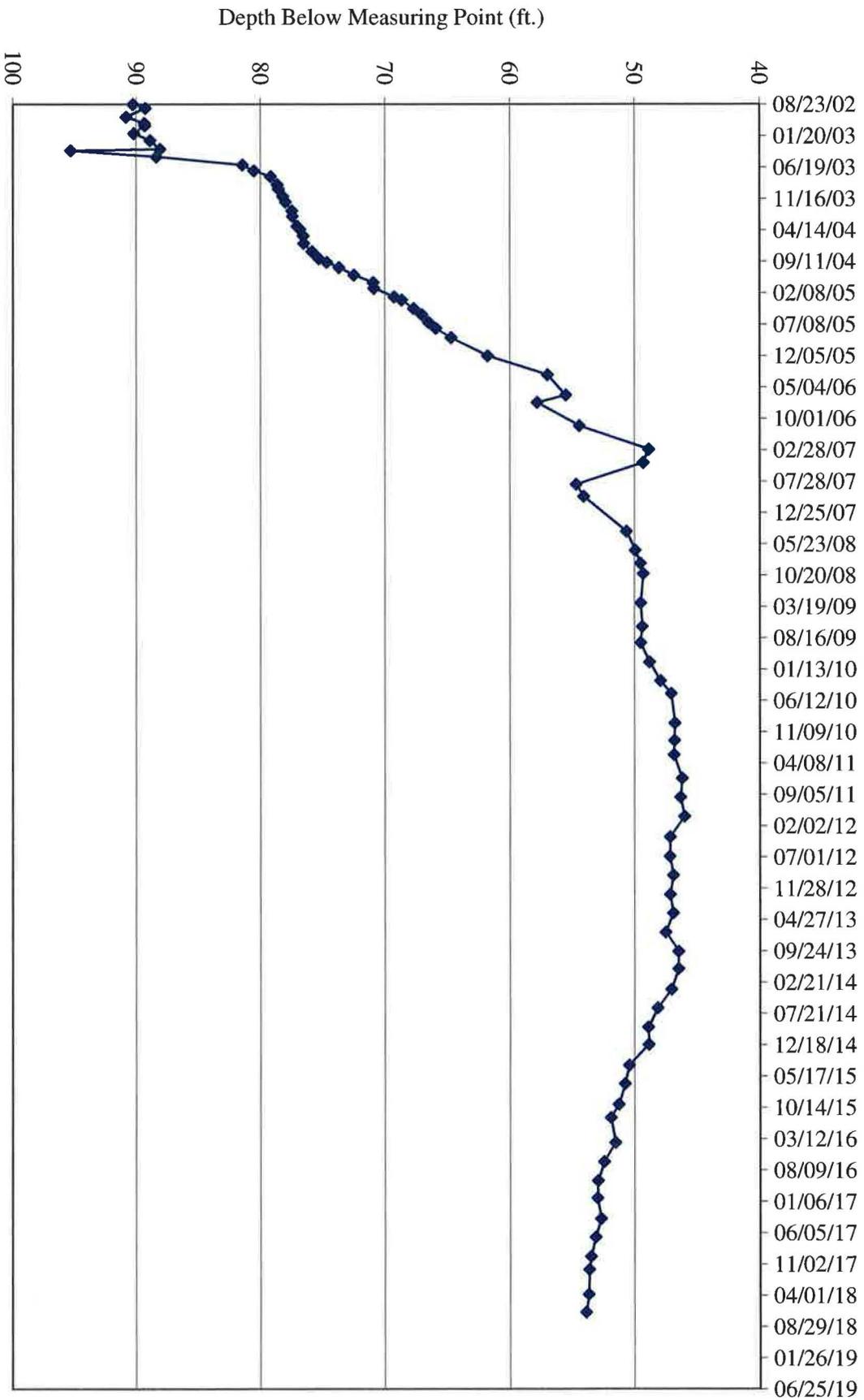
Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,618.09	5,619.94	1.85				105.7
5,529.66				08/23/02	90.28	88.43	
5,530.66				09/11/02	89.28	87.43	
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				105.7
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	
5,566.79				06/27/17	53.15	51.30	
5,566.43				09/28/17	53.51	51.66	
5,566.28				11/29/17	53.66	51.81	

**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				105.7
5,566.24				03/28/18	53.70	51.85	
5,566.03				06/22/18	53.91	52.06	



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

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,610.92	5,612.77	1.85				95.1
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	

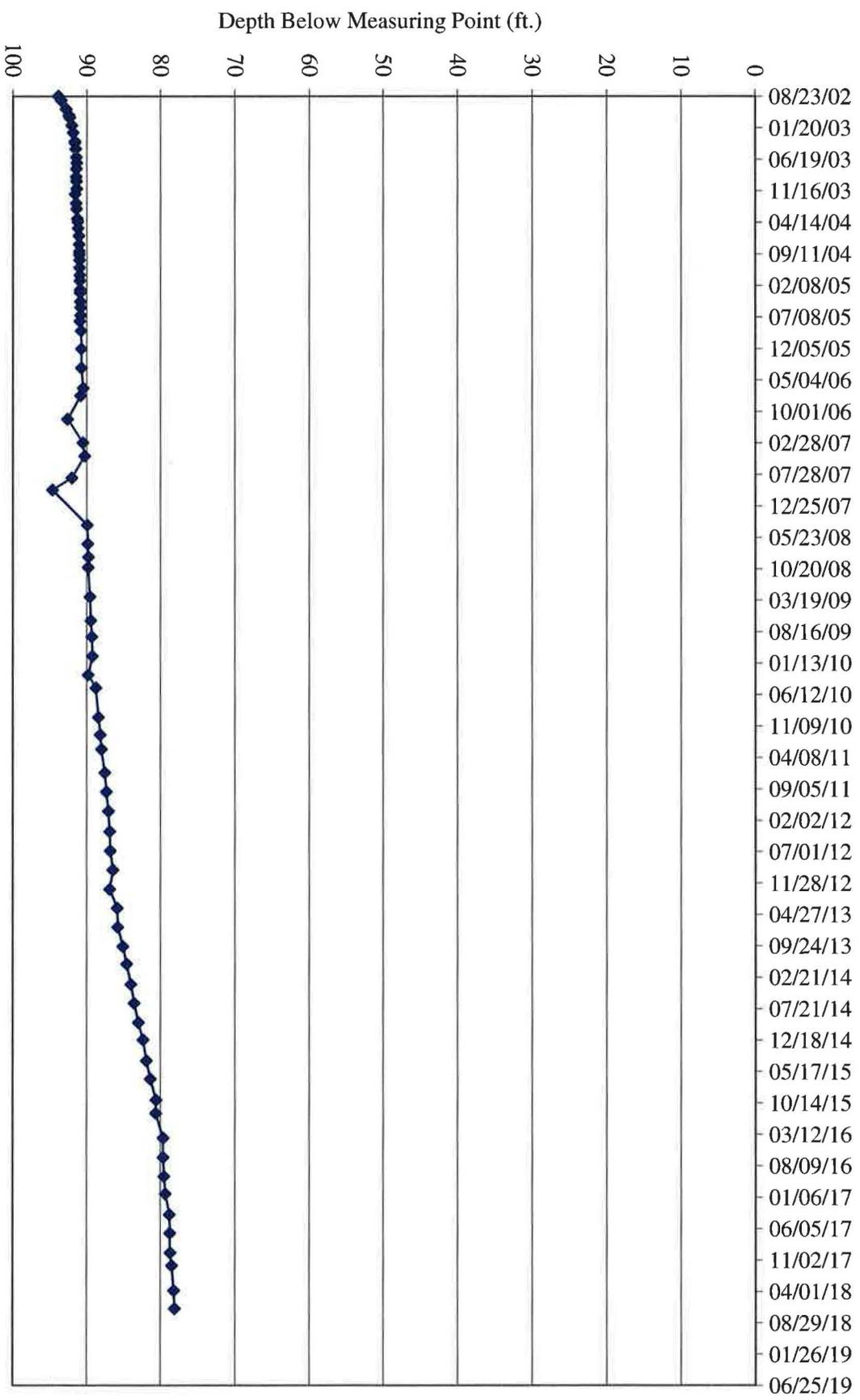
**Water Levels and Data over Time
White Mesa Mill - Well TW4-14**

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				95.1
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	
5,534.05				06/27/17	78.72	76.87	
5,534.07				09/28/17	78.70	76.85	
5,534.29				11/29/17	78.48	76.63	

**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				95.1
5,534.56				03/28/18	78.21	76.36	
5,534.67				06/22/18	78.1	76.25	

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

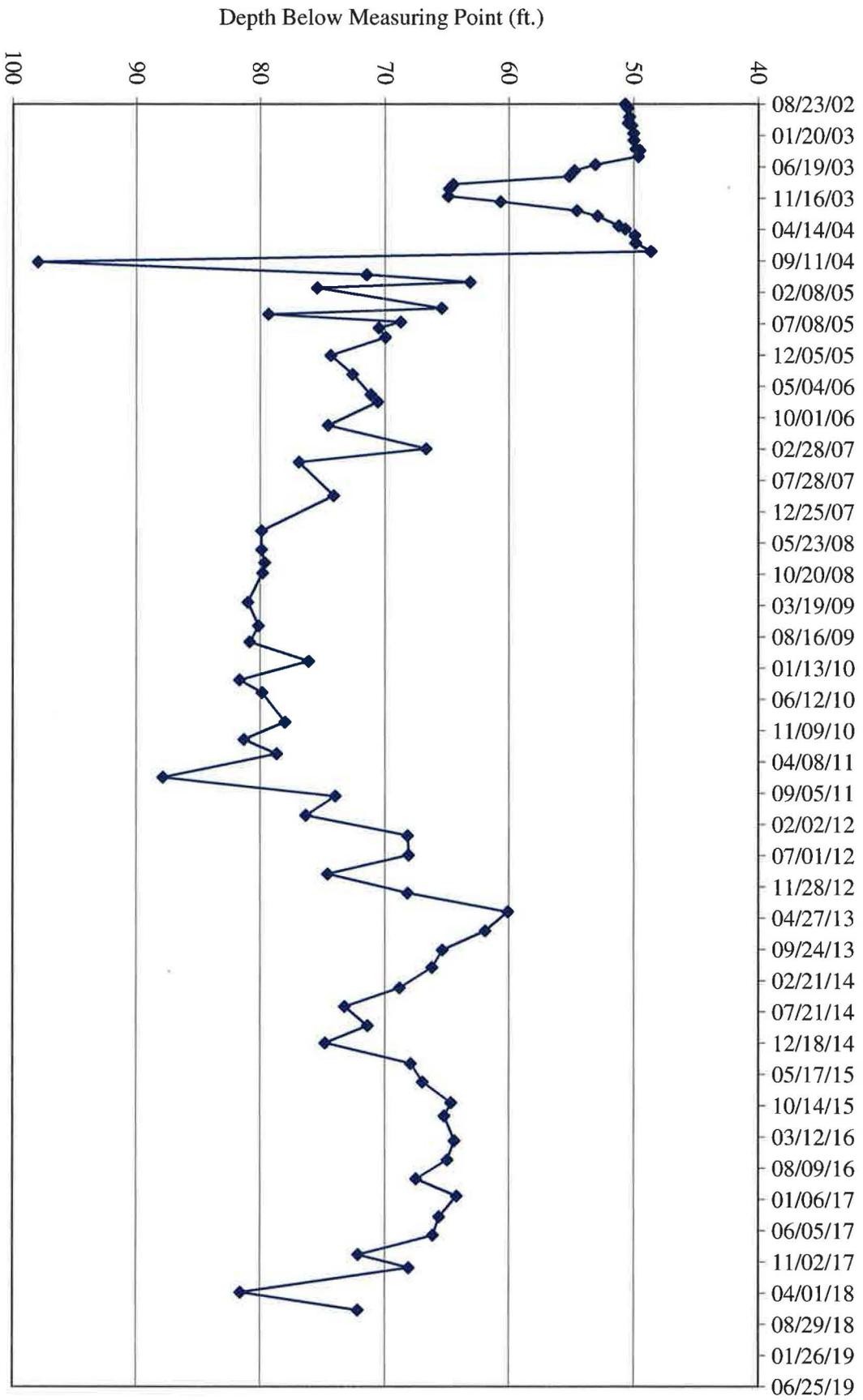


**Water Levels and Data over Time
White Mesa Mill - Well MW-26**

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	
5,559.35				06/27/17	66.10	64.80	
5,553.30				09/28/17	72.15	70.85	
5,557.38				11/30/17	68.07	66.77	
5,543.85				03/28/18	81.60	80.30	
5,553.27				06/22/18	72.18	70.88	



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

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

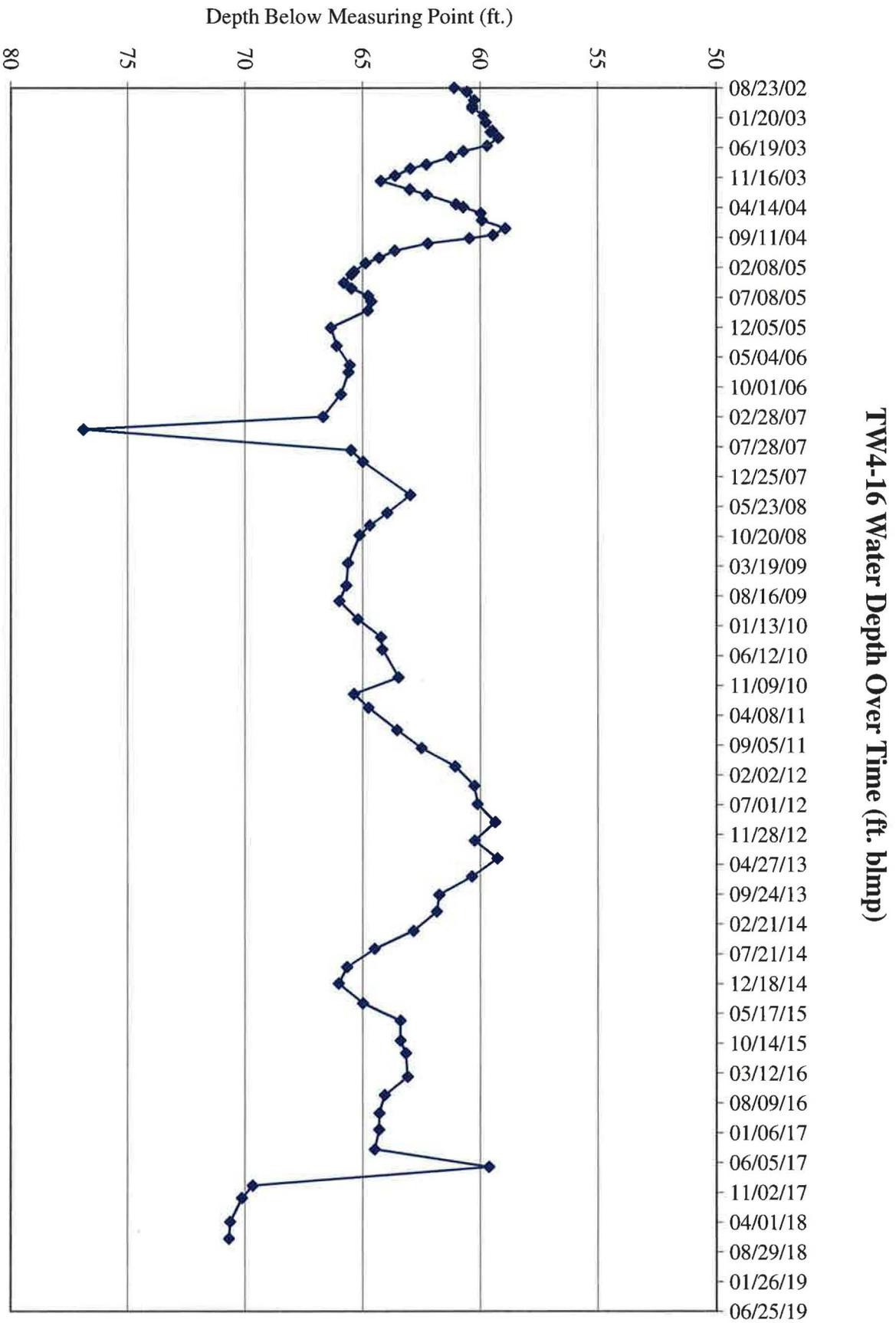
Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,625.28	5,628.65	3.37				147.6
5,562.91				08/23/02	61.11	57.74	
5,563.45				09/11/02	60.57	57.20	
5,563.75				10/23/02	60.27	56.90	
5,563.68				11/22/02	60.34	56.97	
5,563.68				12/03/02	60.34	56.97	
5,564.16				01/09/03	59.86	56.49	
5,564.25				02/12/03	59.77	56.40	
5,564.53				03/26/03	59.49	56.12	
5,564.46				04/02/03	59.56	56.19	
5,564.79				05/01/03	59.23	55.86	
5,564.31				06/09/03	59.71	56.34	
5,563.29				07/07/03	60.73	57.36	
5,562.76				08/04/03	61.26	57.89	
5,561.73				09/11/03	62.29	58.92	
5,561.04				10/02/03	62.98	59.61	
5,560.39				11/07/03	63.63	60.26	
5,559.79				12/03/03	64.23	60.86	
5,561.02				01/15/04	63.00	59.63	
5,561.75				02/10/04	62.27	58.90	
5,562.98				03/28/04	61.04	57.67	
5,563.29				04/12/04	60.73	57.36	
5,564.03				05/13/04	59.99	56.62	
5,564.09				06/18/04	59.93	56.56	
5,565.08				07/28/04	58.94	55.57	
5,564.56				08/30/04	59.46	56.09	
5,563.55				09/16/04	60.47	57.10	
5,561.79				10/11/04	62.23	58.86	
5,560.38				11/16/04	63.64	60.27	
5,559.71				12/22/04	64.31	60.94	
5,559.14				01/18/05	64.88	61.51	
5,558.65				02/28/05	65.37	62.00	
5,558.54				03/15/05	65.48	62.11	
5,558.22				04/26/05	65.80	62.43	
5,558.54				05/24/05	65.48	62.11	
5,559.24				06/30/05	64.78	61.41	
5,559.38				07/29/05	64.64	61.27	
5,559.23				09/12/05	64.79	61.42	
5,557.67				12/07/05	66.35	62.98	
5,557.92				03/08/06	66.10	62.73	
5,558.47				06/13/06	65.55	62.18	
5,558.42				07/18/06	65.60	62.23	
5,558.09				11/07/06	65.93	62.56	
5,557.34				02/27/07	66.68	63.31	

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	Total	Total Depth Of Well
					Measured Depth to Water (blw.MP)	Depth to Water (blw.LSD)	
	5,625.28	5,628.65	3.37				147.6
5,547.11				05/02/07	76.91	73.54	
5,558.52				08/14/07	65.50	62.13	
5,559.02				10/10/07	65.00	61.63	
5,561.04				03/26/08	62.98	59.61	
5,560.06				06/24/08	63.96	60.59	
5,559.32				08/26/08	64.70	61.33	
5,558.89				10/14/08	65.13	61.76	
5,558.40				03/03/09	65.62	62.25	
5,558.32				06/24/09	65.70	62.33	
5,558.03				09/10/09	65.99	62.62	
5,558.81				12/11/09	65.21	61.84	
5,559.80				03/11/10	64.22	60.85	
5,559.85				05/11/10	64.17	60.80	
5,560.54				09/29/10	63.48	60.11	
5,558.65				12/21/10	65.37	62.00	
5,559.26				02/28/11	64.76	61.39	
5,560.48				06/21/11	63.54	60.17	
5,561.52				09/20/11	62.50	59.13	
5,562.95				12/21/11	61.07	57.70	
5,563.76				03/27/12	60.26	56.89	
5,563.90				06/28/12	60.12	56.75	
5,564.65				09/27/12	59.37	56.00	
5,563.77				12/28/12	60.25	56.88	
5,564.74				03/28/13	59.28	55.91	
5,563.66				06/27/13	60.36	56.99	
5,562.27				09/27/13	61.75	58.38	
5,562.17				12/20/13	61.85	58.48	
5,561.17				03/27/14	62.85	59.48	
5,559.53				06/25/14	64.49	61.12	
5,558.36				09/25/14	65.66	62.29	
5,558.00				12/17/14	66.02	62.65	
5,559.02				03/26/15	65.00	61.63	
5,560.62				06/22/15	63.40	60.03	
5,560.62				09/30/15	63.40	60.03	
5,560.85				12/02/15	63.17	59.80	
5,560.92				03/30/16	63.10	59.73	
5,559.95				06/30/16	64.07	60.70	
5,559.72				09/29/16	64.30	60.93	
5,559.71				12/21/16	64.31	60.94	
5,559.53				03/30/17	64.49	61.12	
5,569.02				06/27/17	59.63	56.26	
5,558.97				09/28/17	69.68	66.31	
5,558.51				11/30/17	70.14	66.77	

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
	5,625.28	5,628.65	3.37				147.6
5,558.00				03/29/18	70.65	67.28	
5,557.94				06/22/18	70.71	67.34	



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

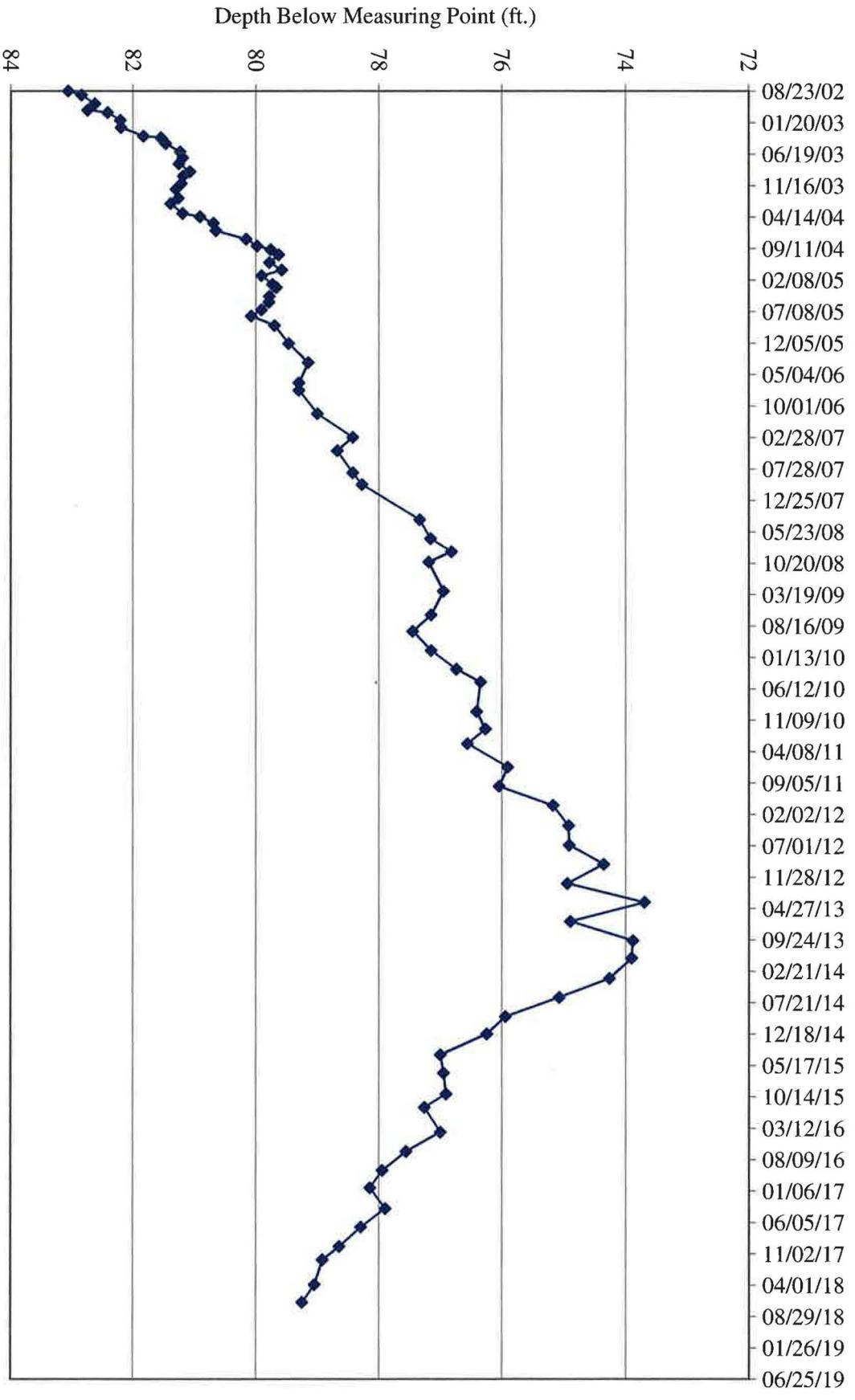
Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,623.41	5,625.24	1.83				130.6
5,542.17				08/23/02	83.07	81.24	
5,542.39				09/11/02	82.85	81.02	
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	
5,546.94				06/27/17	78.30	76.47	
5,546.59				09/28/17	78.65	76.82	
5,546.32				11/30/17	78.92	77.09	

**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
5,546.19				03/29/18	79.05	77.22	
5545.99				06/22/18	79.25	77.42	



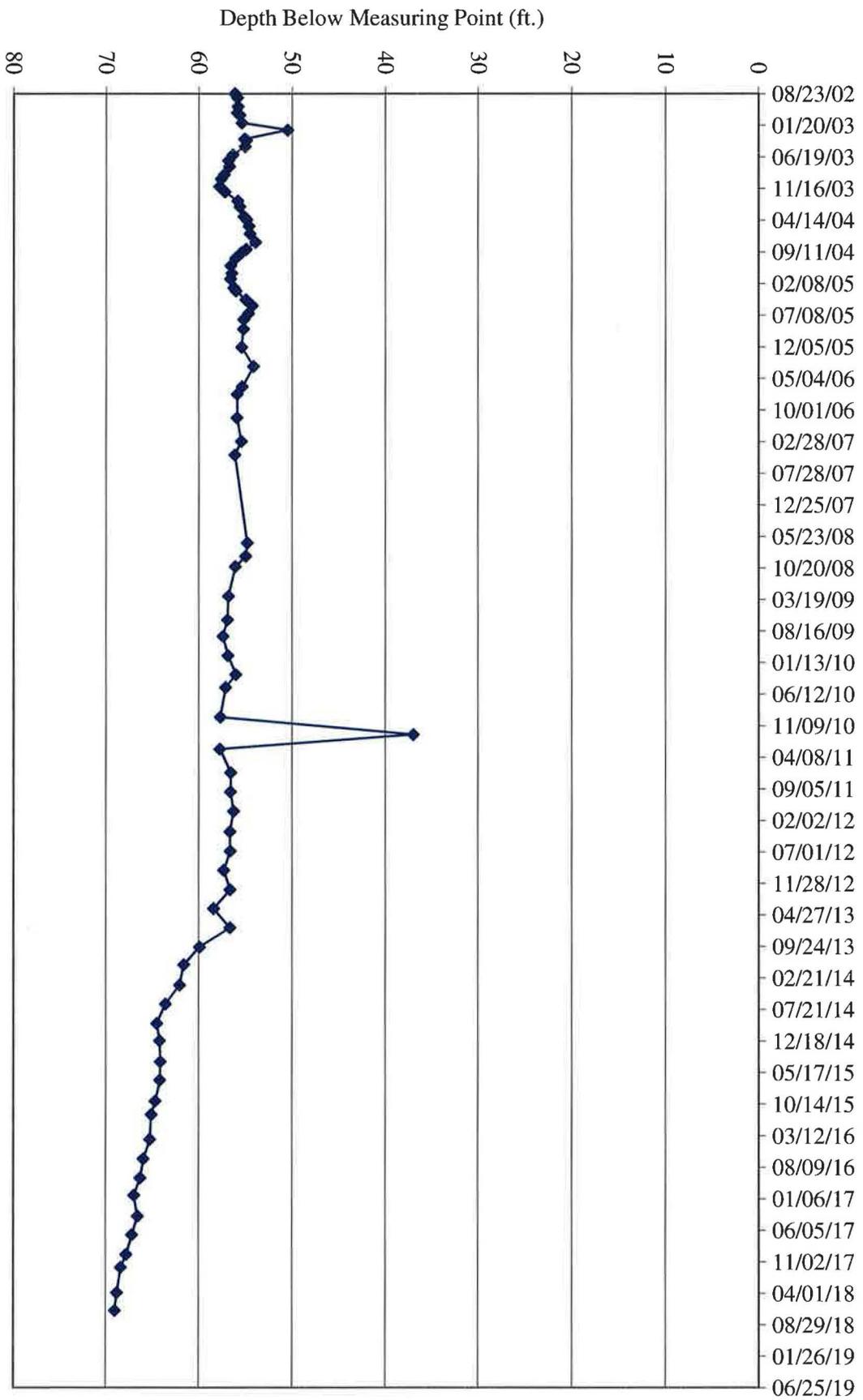
MW-32 Water Depth Over Time (ft. blmp)

**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				136.9
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				136.9
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	
5,574.13				06/27/17	67.15	65.00	
5,573.51				09/28/17	67.77	65.62	
5,572.93				11/29/17	68.35	66.20	
5,572.51				03/29/18	68.77	66.62	
5,572.28				06/22/18	69.00	66.85	



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

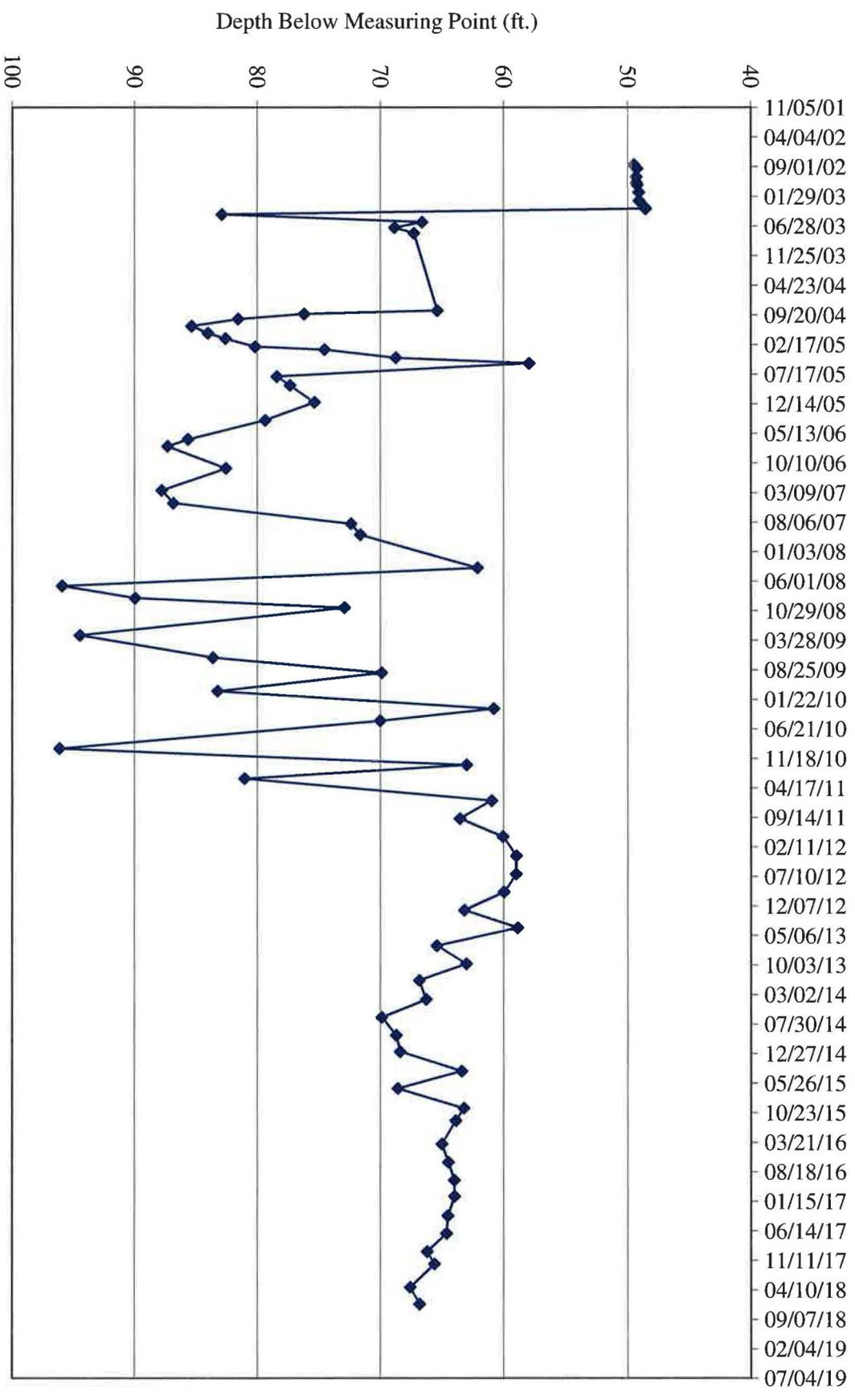
**Water Levels and Data over Time
White Mesa Mill - Well TW4-19**

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				126.86
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				126.86
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	
5,566.76				06/27/17	64.63	62.77	
5,565.19				09/28/17	66.20	64.34	
5,565.79				11/30/17	65.60	63.74	
5,563.79				03/28/18	67.60	65.74	
5,564.58				06/22/18	66.81	64.95	

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



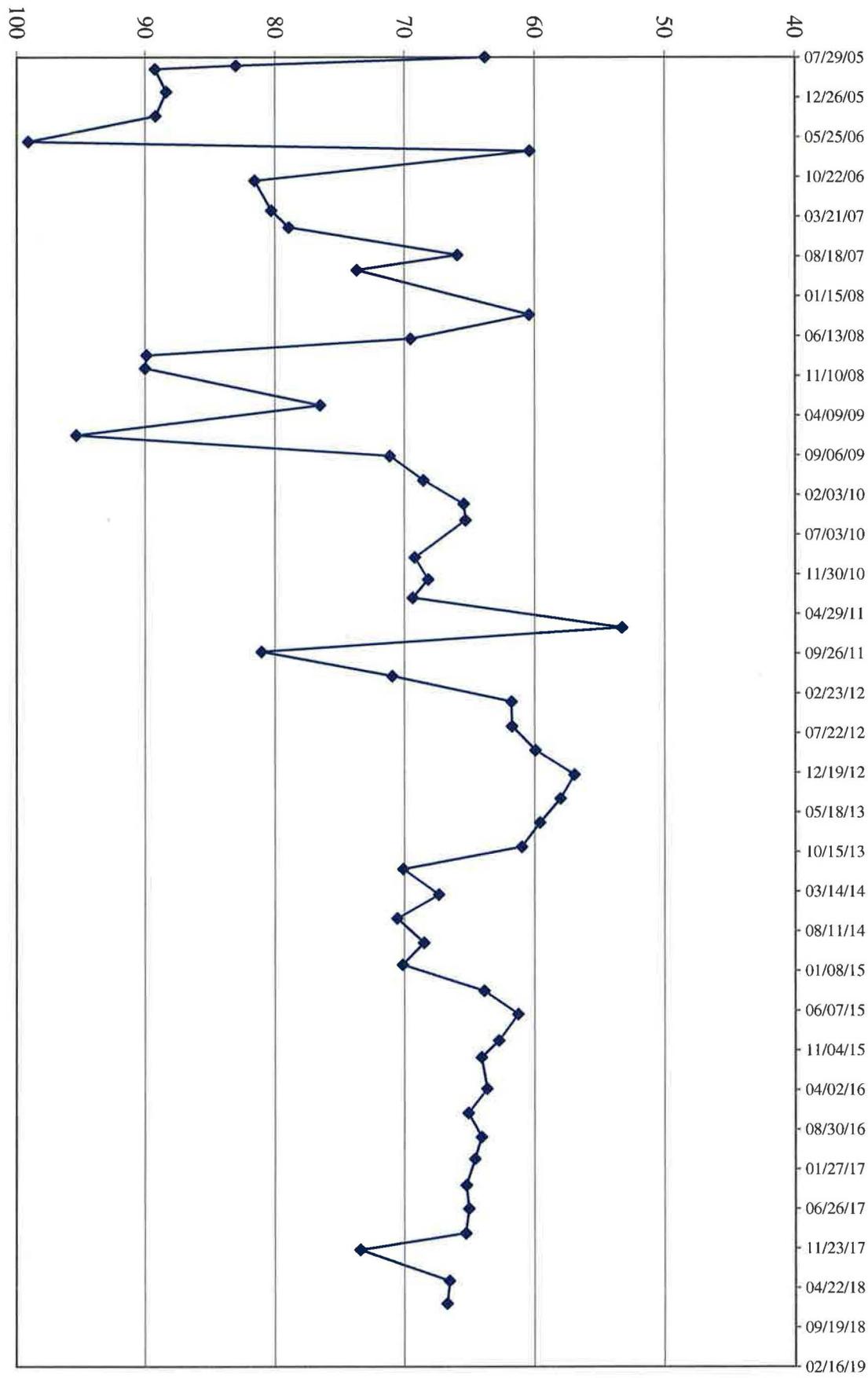
**Water Levels and Data over Time
White Mesa Mill - Well TW4-20**

Water Elevation (WL)	Land Surface (LSD)	Measuring		Date Of Monitoring	Total or Measured		Total Depth Of Well
		Point Elevation (MP)	Length Of Riser (L)		Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	
	5,628.52	5,629.53	1.01				105.9
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				105.9
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	
5,564.46				06/27/17	65.07	64.06	
5,564.23				09/28/17	65.30	64.29	
5,556.13				11/30/17	73.40	72.39	
5,562.98				03/28/18	66.55	65.54	
5,562.81				06/22/18	66.72	65.71	

Depth Below Measuring Point (ft.)



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

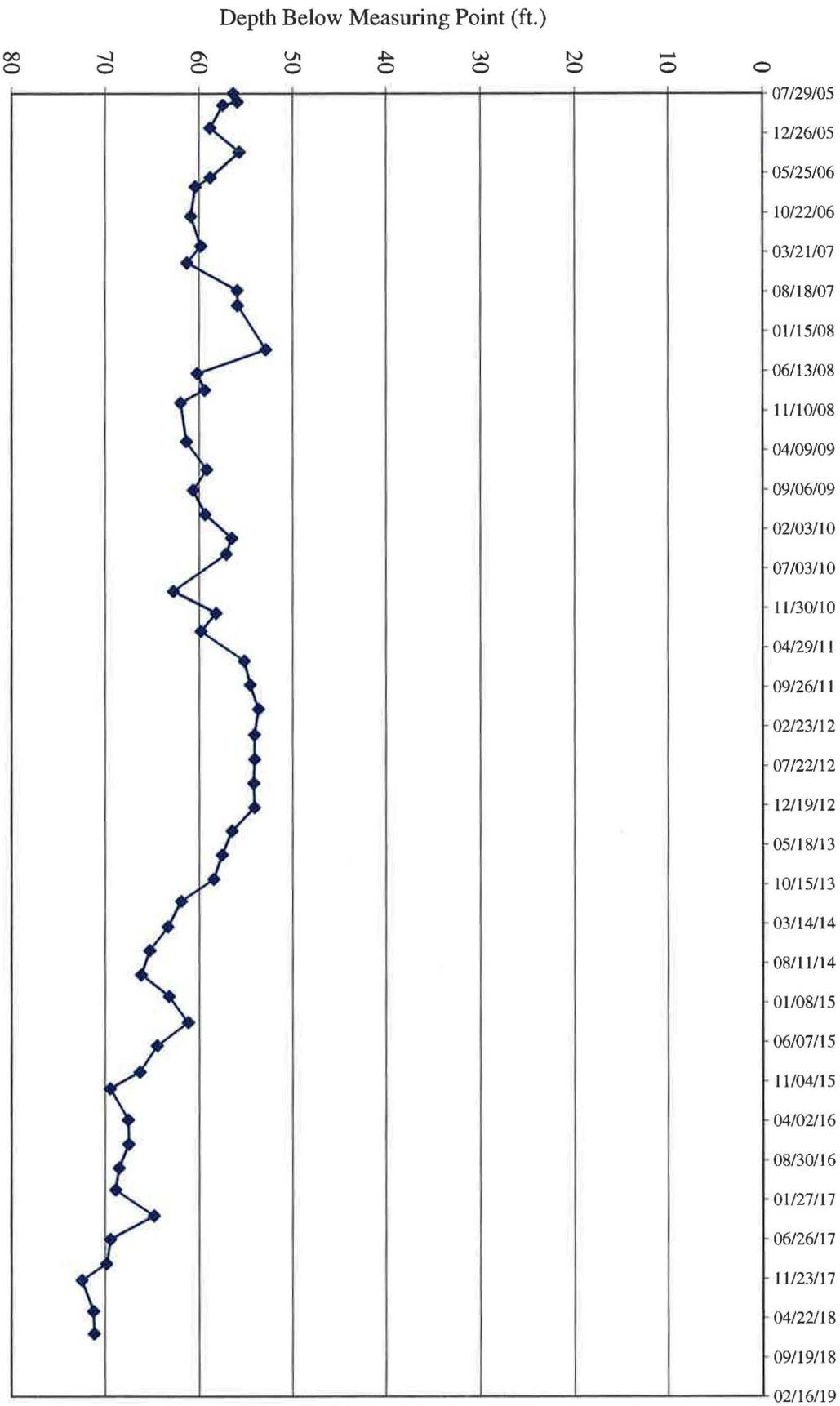
**Water Levels and Data over Time
White Mesa Mill - Well TW4-21**

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				118.8
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				118.8
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	
5,569.91				06/27/17	69.44	68.29	
5,569.49				09/28/17	69.86	68.71	
5,566.87				11/30/17	72.48	71.33	
5,568.10				03/28/18	71.25	70.10	
5,568.17				06/22/18	71.18	70.03	

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

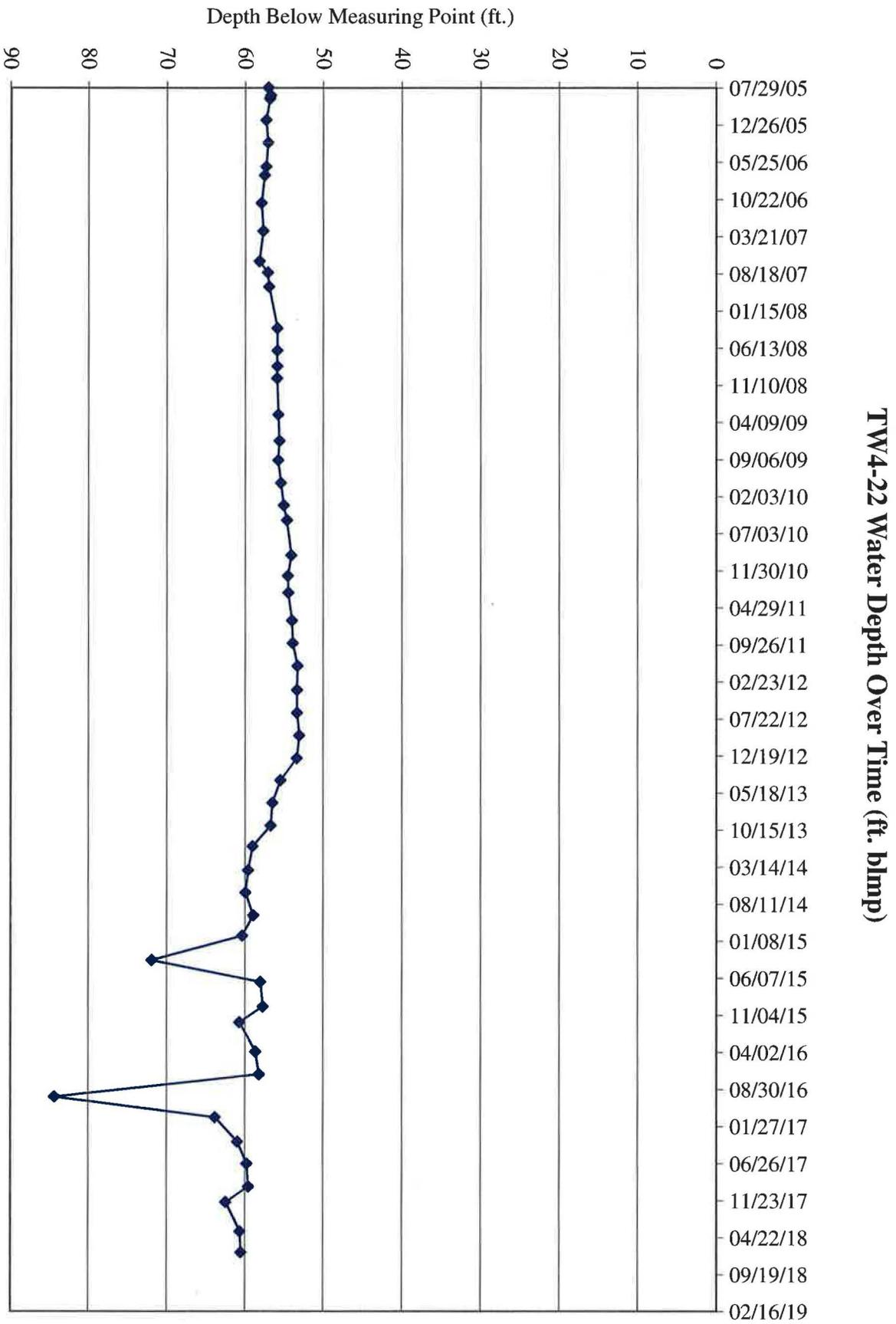


**Water Levels and Data over Time
White Mesa Mill - Well TW4-22**

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				114.7
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				114.7
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	
5,569.17				06/27/17	59.83	58.66	
5,569.37				09/28/17	59.63	58.46	
5,566.48				11/30/17	62.52	61.35	
5,568.30				03/28/18	60.70	59.53	
5,568.42				06/22/18	60.58	59.41	

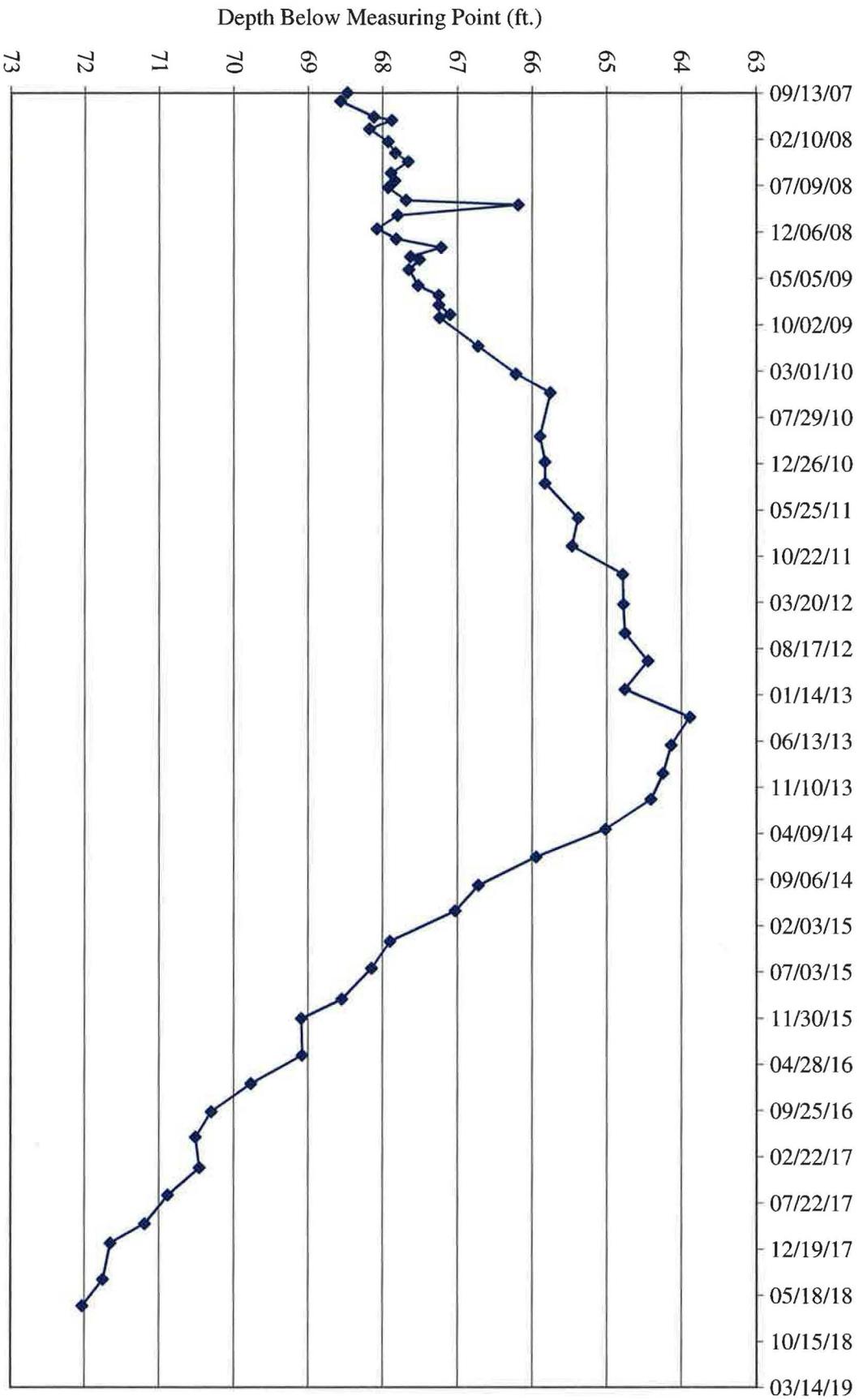


**Water Levels and Data over Time
White Mesa Mill - Well TW4-23**

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				116.4
5,538.89				09/13/07	68.48	66.88	
5,538.80				10/10/07	68.57	66.97	
5,539.25				11/30/07	68.12	66.52	
5,539.49				12/11/07	67.88	66.28	
5,539.19				01/08/08	68.18	66.58	
5,539.44				02/18/08	67.93	66.33	
5,539.54				03/26/08	67.83	66.23	
5,539.71				04/23/08	67.66	66.06	
5,539.48				05/30/08	67.89	66.29	
5,539.53				06/24/08	67.84	66.24	
5,539.44				07/16/08	67.93	66.33	
5,539.68				08/26/08	67.69	66.09	
5,541.18				09/10/08	66.19	64.59	
5,539.57				10/14/08	67.80	66.20	
5,539.29				11/26/08	68.08	66.48	
5,539.55				12/29/08	67.82	66.22	
5,540.15				01/26/09	67.22	65.62	
5,539.74				02/24/09	67.63	66.03	
5,539.86				03/06/09	67.51	65.91	
5,539.72				04/07/09	67.65	66.05	
5,539.84				05/29/09	67.53	65.93	
5,540.12				06/30/09	67.25	65.65	
5,540.12				07/31/09	67.25	65.65	
5,540.27				08/31/09	67.10	65.50	
5,540.13				09/10/09	67.24	65.64	
5,540.64				12/11/09	66.73	65.13	
5,541.15				03/11/10	66.22	64.62	
5,541.61				05/11/10	65.76	64.16	
5,541.47				09/29/10	65.90	64.30	
5,541.54				12/21/10	65.83	64.23	
5,541.54				02/28/11	65.83	64.23	
5,541.98				06/21/11	65.39	63.79	
5,541.90				09/20/11	65.47	63.87	
5,542.58				12/21/11	64.79	63.19	
5,542.59				03/27/12	64.78	63.18	
5,542.61				06/28/12	64.76	63.16	
5,542.92				09/27/12	64.45	62.85	
5,542.61				12/28/12	64.76	63.16	
5,543.48				03/28/13	63.89	62.29	
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				116.4
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	
5,536.49				06/27/17	70.88	69.28	
5,536.18				09/28/17	71.19	69.59	
5,535.72				11/30/17	71.65	70.05	
5,535.62				03/28/18	71.75	70.15	
5,535.34				06/22/18	72.03	70.43	



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

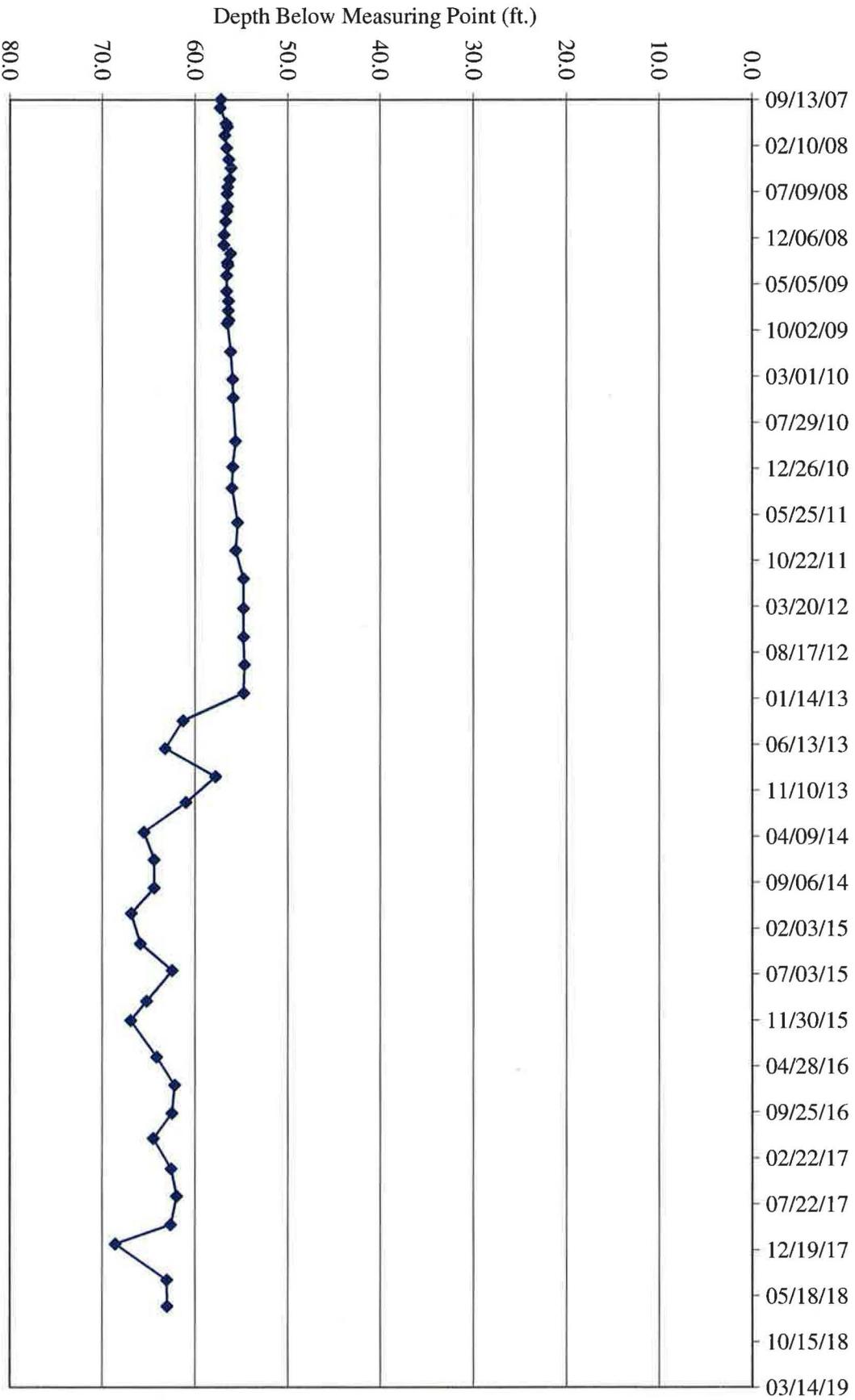
**Water Levels and Data over Time
White Mesa Mill - Well TW4-24**

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				114.8
5,570.61				09/13/07	57.22	55.09	
5,570.53				10/10/07	57.30	55.17	
5,571.16				11/30/07	56.67	54.54	
5,571.30				12/11/07	56.53	54.40	
5,571.03				01/08/08	56.80	54.67	
5,571.22				02/18/08	56.61	54.48	
5,571.43				03/26/08	56.40	54.27	
5,571.68				04/23/08	56.15	54.02	
5,571.52				05/30/08	56.31	54.18	
5,571.34				06/24/08	56.49	54.36	
5,571.28				07/16/08	56.55	54.42	
5,571.34				08/26/08	56.49	54.36	
5,571.23				09/10/08	56.60	54.47	
5,571.12				10/14/08	56.71	54.58	
5,570.95				11/26/08	56.88	54.75	
5,570.92				12/29/08	56.91	54.78	
5,571.65				01/26/09	56.18	54.05	
5,571.31				02/24/09	56.52	54.39	
5,571.37				03/06/09	56.46	54.33	
5,571.21				04/07/09	56.62	54.49	
5,571.23				05/29/09	56.60	54.47	
5,571.42				06/30/09	56.41	54.28	
5,571.38				07/31/09	56.45	54.32	
5,571.48				08/31/09	56.35	54.22	
5,571.28				09/10/09	56.55	54.42	
5,571.64				12/11/09	56.19	54.06	
5,571.86				03/11/10	55.97	53.84	
5,571.91				05/11/10	55.92	53.79	
5,572.18				09/29/10	55.65	53.52	
5,571.86				12/21/10	55.97	53.84	
5,571.78				02/28/11	56.05	53.92	
5,572.40				06/21/11	55.43	53.30	
5,572.19				09/20/11	55.64	53.51	
5,573.02				12/21/11	54.81	52.68	
5,573.03				03/27/12	54.80	52.67	
5,573.02				06/28/12	54.81	52.68	
5,573.13				09/27/12	54.70	52.57	
5,573.05				12/28/12	54.78	52.65	
5,566.53				03/28/13	61.30	59.17	
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				114.8
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	
5,565.86				06/27/17	61.97	59.84	
5,565.21				09/28/17	62.62	60.49	
5,559.24				11/30/17	68.59	66.46	
5,564.78				03/28/18	63.05	60.92	
5,564.83				06/22/18	63.00	60.87	

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

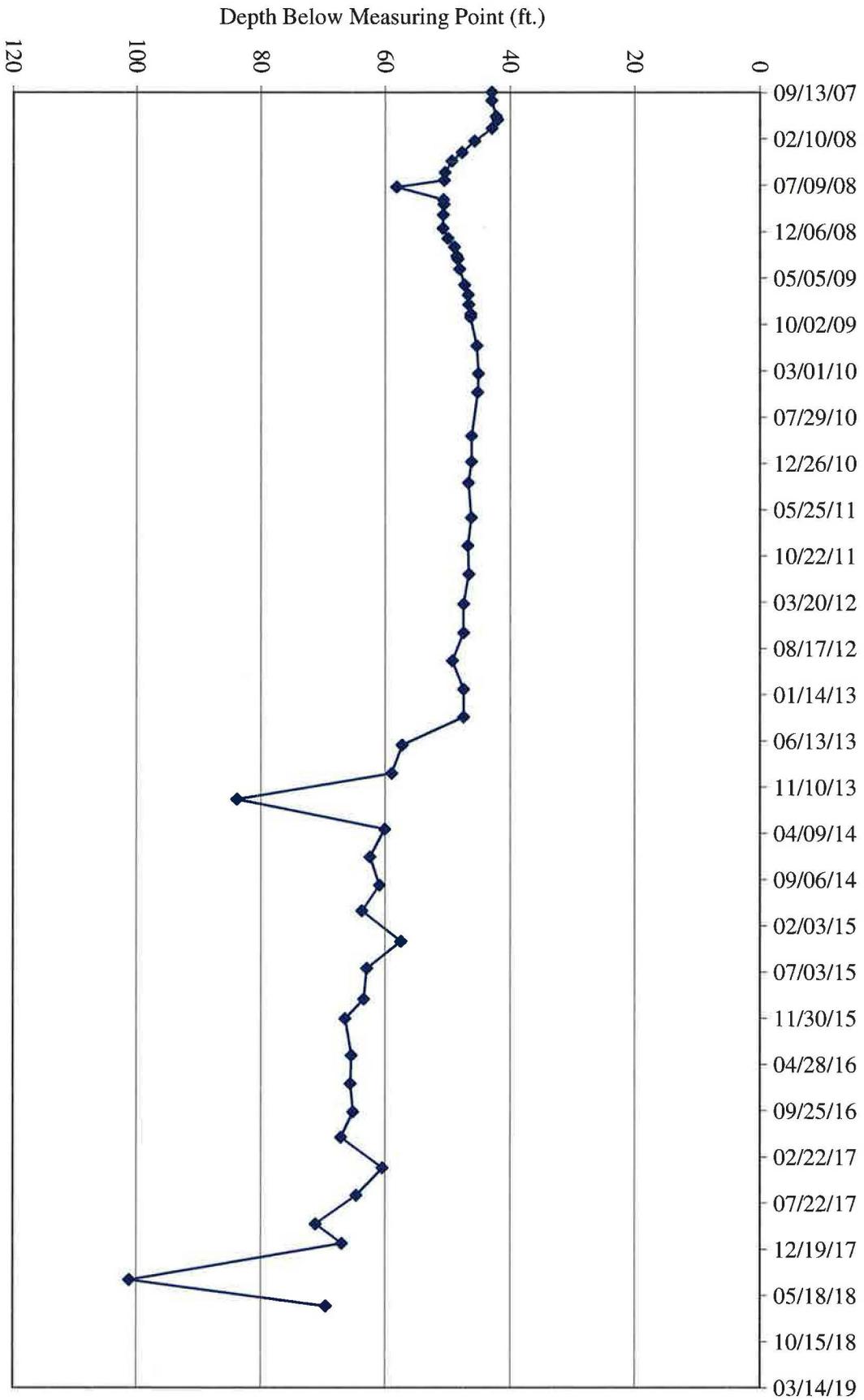


**Water Levels and Data over Time
White Mesa Mill - Well TW4-25**

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
	5,642.82	5,644.91	2.09				136.7
5,601.86				09/13/07	43.05	40.96	
5,601.89				10/10/07	43.02	40.93	
5,602.57				11/30/07	42.34	40.25	
5,602.82				12/11/07	42.09	40.00	
5,601.94				01/08/08	42.97	40.88	
5,599.13				02/18/08	45.78	43.69	
5,597.11				03/26/08	47.80	45.71	
5,595.51				04/23/08	49.40	47.31	
5594.42				05/30/08	50.49	48.40	
5,594.26				06/24/08	50.65	48.56	
5,586.67				07/16/08	58.24	56.15	
5,594.17				08/26/08	50.74	48.65	
5,594.23				09/10/08	50.68	48.59	
5,594.12				10/14/08	50.79	48.70	
5,594.06				11/26/08	50.85	48.76	
5,594.87				12/29/08	50.04	47.95	
5,595.89				01/26/09	49.02	46.93	
5,596.27				02/24/09	48.64	46.55	
5,596.47				03/06/09	48.44	46.35	
5,596.74				04/07/09	48.17	46.08	
5,597.55				05/29/09	47.36	45.27	
5,598.11				06/30/09	46.80	44.71	
5,598.22				07/31/09	46.69	44.60	
5,598.52				08/31/09	46.39	44.30	
5,598.49				09/10/09	46.42	44.33	
5,599.48				12/11/09	45.43	43.34	
5,599.75				03/11/10	45.16	43.07	
5,599.63				05/11/10	45.28	43.19	
5,598.68				09/29/10	46.23	44.14	
5,598.66				12/21/10	46.25	44.16	
5,598.18				02/28/11	46.73	44.64	
5,598.61				06/21/11	46.30	44.21	
5,598.08				09/20/11	46.83	44.74	
5,598.23				12/21/11	46.68	44.59	
5,597.41				03/27/12	47.50	45.41	
5,597.41				06/28/12	47.50	45.41	
5,595.60				09/27/12	49.31	47.22	
5,597.41				12/28/12	47.50	45.41	
5,597.43				03/28/13	47.48	45.39	
5,587.61				06/27/13	57.30	55.21	
5,585.91				09/27/13	59.00	56.91	
5,561.00				12/20/13	83.91	81.82	

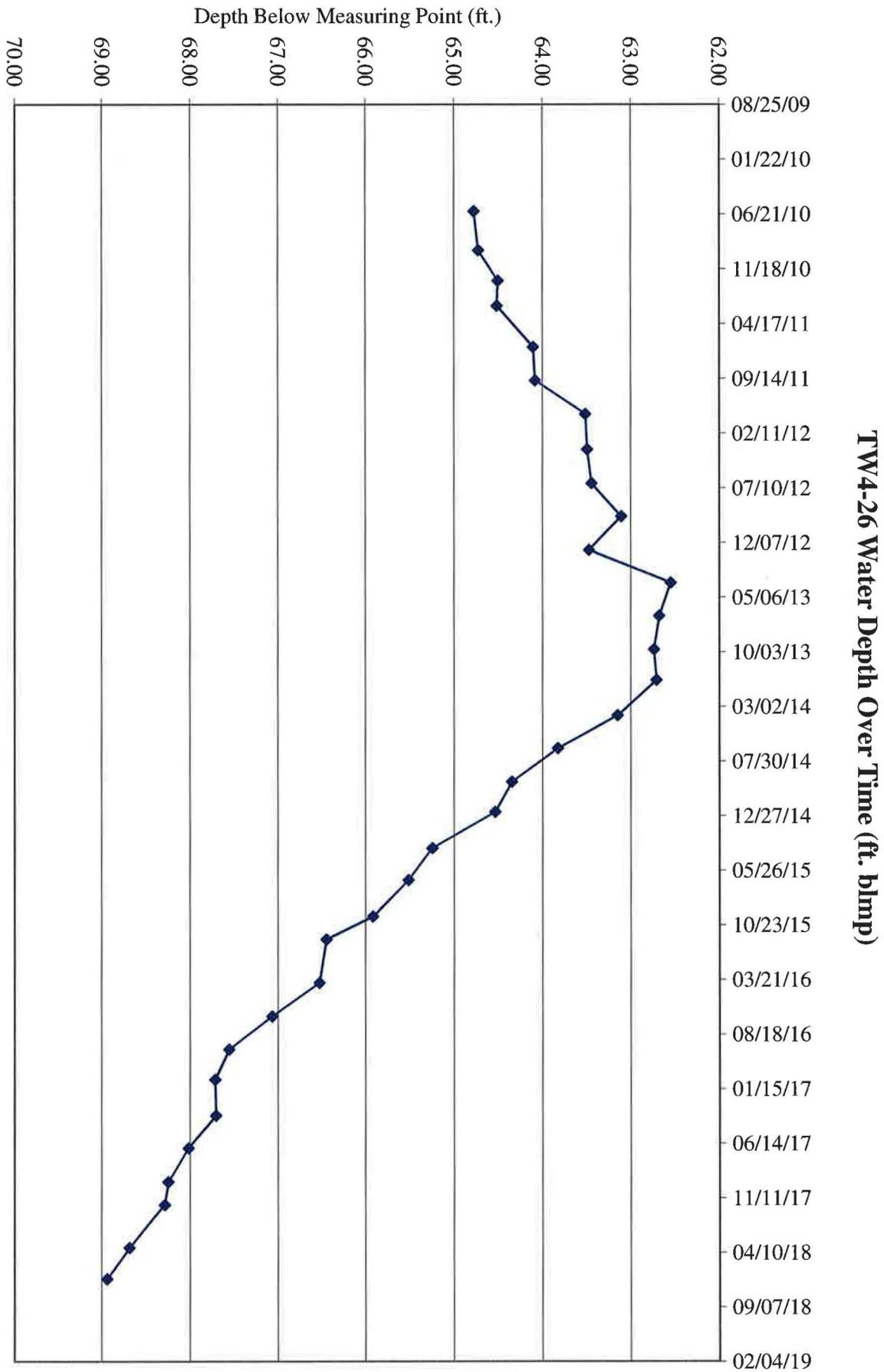
**Water Levels and Data over Time
White Mesa Mill - Well TW4-25**

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
	5,642.82	5,644.91	2.09				136.7
5,584.79				03/27/14	60.12	58.03	
5,582.44				06/25/14	62.47	60.38	
5,583.95				09/25/14	60.96	58.87	
5,581.13				12/17/14	63.78	61.69	
5,587.40				03/26/15	57.51	55.42	
5,581.91				06/22/15	63.00	60.91	
5,581.40				09/30/15	63.51	61.42	
5,578.42				12/02/15	66.49	64.40	
5,579.42				03/30/16	65.49	63.40	
5,579.25				06/30/16	65.66	63.57	
5,579.68				09/29/16	65.23	63.14	
5,577.73				12/21/16	67.18	65.09	
5,584.44				03/30/17	60.47	58.38	
5,580.19				06/27/17	64.72	62.63	
5,573.63				09/28/17	71.28	69.19	
5,577.88				11/30/17	67.03	64.94	
5,543.71				03/28/18	101.20	99.11	
5,575.26				06/22/18	69.65	67.56	



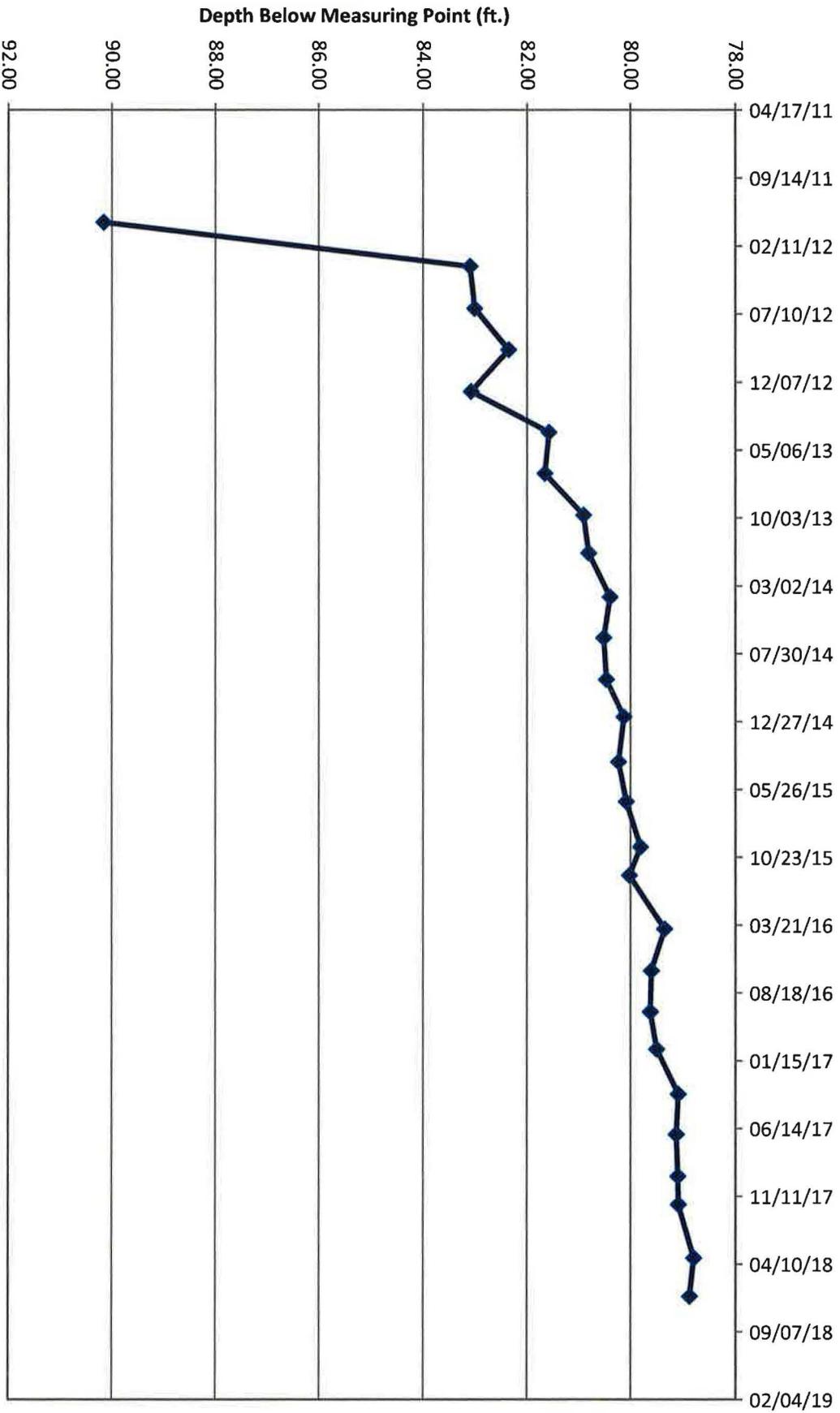
**Water Levels and Data over Time
White Mesa Mill - Well TW4-26**

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				87.7
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	
5,538.23				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	
5,533.66				06/27/17	68.02	66.32	
5,533.43				09/28/17	68.25	66.55	
5,533.39				11/30/17	68.29	66.59	
5,532.99				03/28/18	68.69	66.99	
5,532.74				06/22/18	68.94	67.24	



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

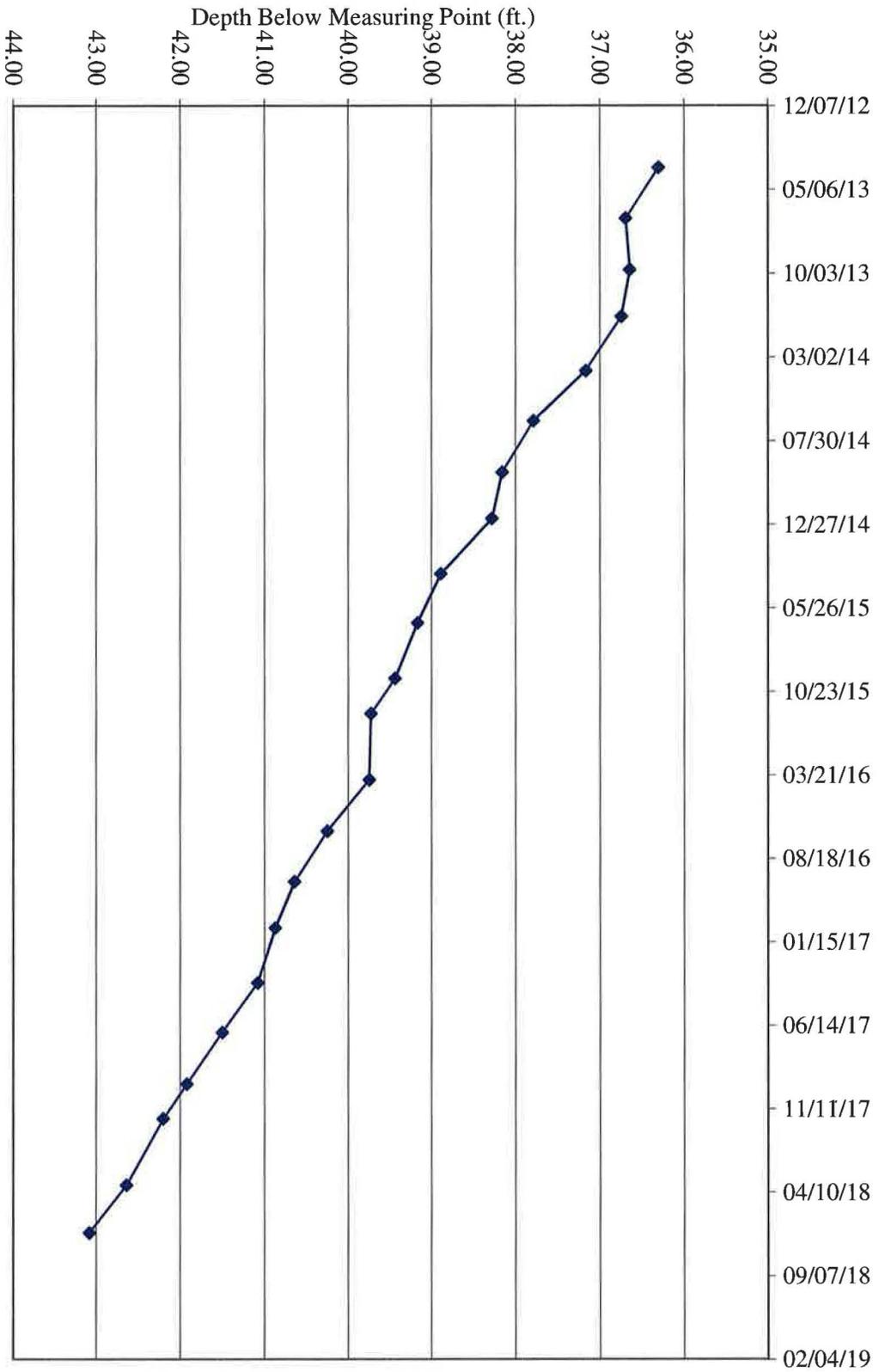
Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,606.19	5,607.94	1.75				95.75
5,517.78				12/21/11	90.16	88.41	
5,524.84				03/27/12	83.10	81.35	
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	
5,528.81				06/27/17	79.13	77.38	
5,528.84				09/28/17	79.10	77.35	
5,528.85				11/29/17	79.09	77.34	
5,529.14				03/28/18	78.80	77.05	
5,529.06				06/21/18	78.88	77.13	



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

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

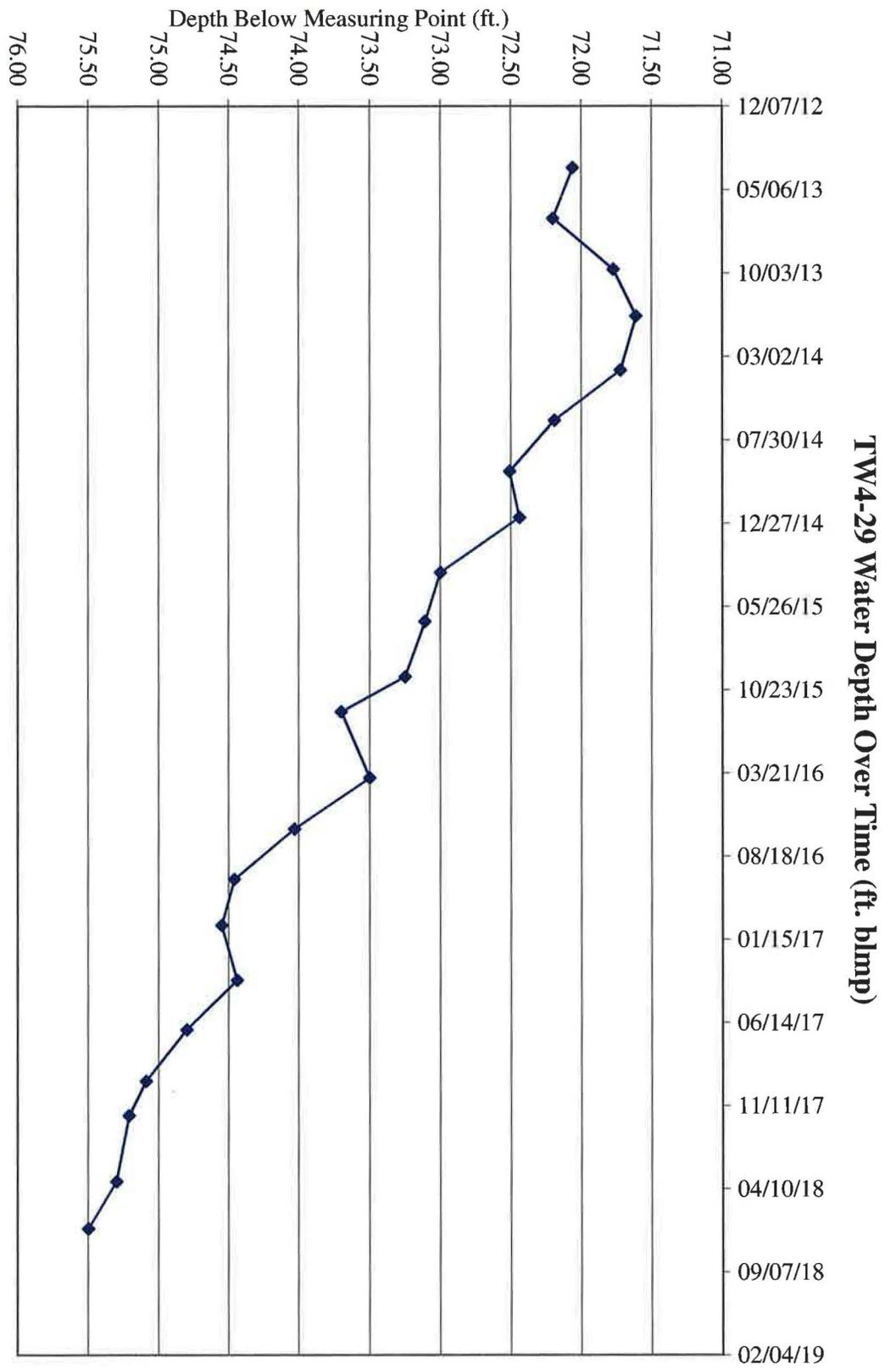
Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,613.52	5,617.00	3.48				108.48
5,580.69				03/28/13	36.31	32.83	
5,580.30				06/27/13	36.70	33.22	
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	
5,575.50				06/27/17	41.50	38.02	
5,575.08				09/28/17	41.92	38.44	
5,574.80				11/29/17	42.20	38.72	
5,574.36				03/28/18	42.64	39.16	
5,573.92				06/22/18	43.08	39.60	



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

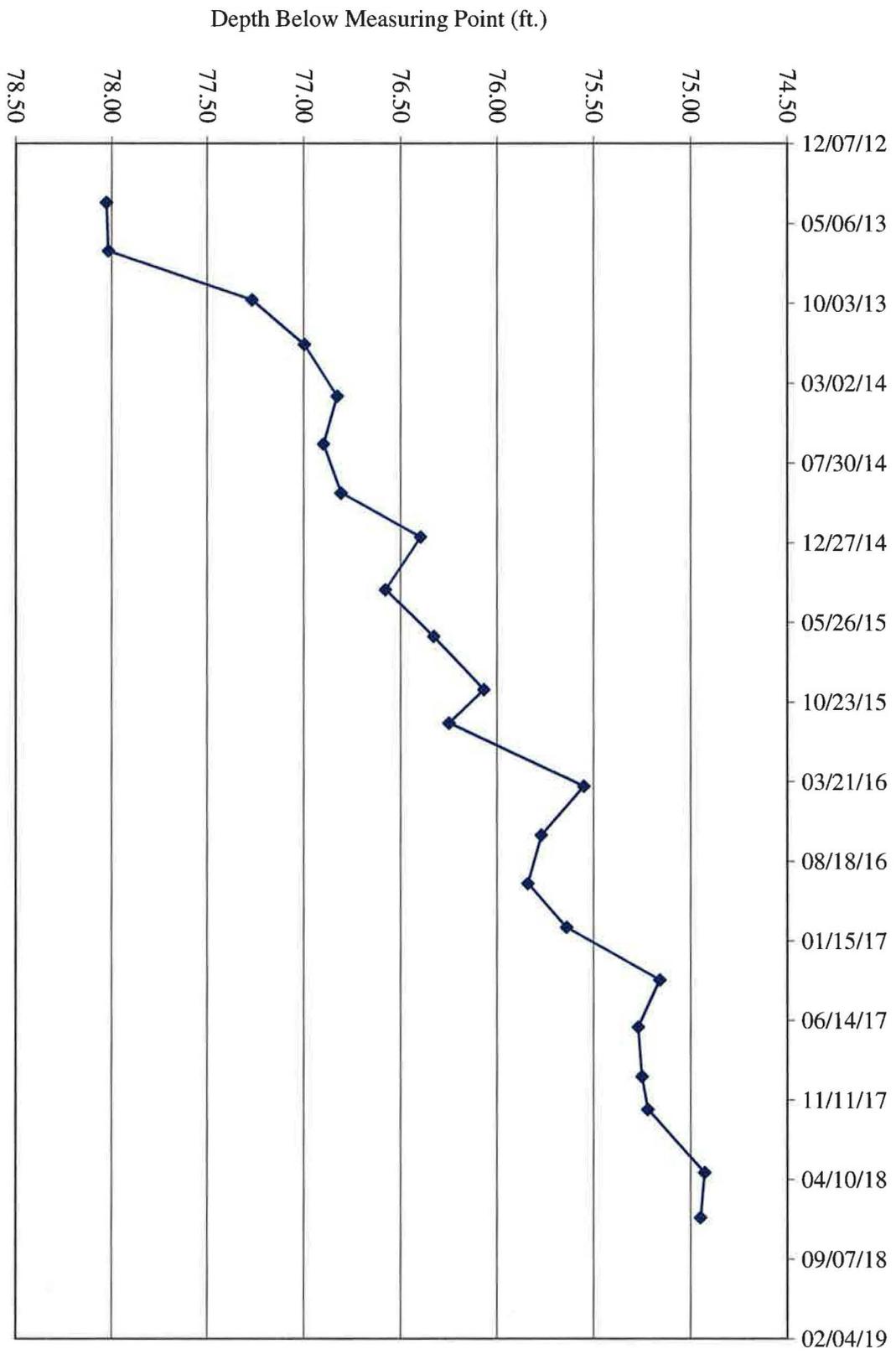
**Water Levels and Data over Time
White Mesa Mill - Well TW4-29**

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,602.56	5,606.04	3.48				94.48
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	
5,531.24				06/27/17	74.80	71.32	
5,530.95				09/28/17	75.09	71.61	
5,530.83				11/29/17	75.21	71.73	
5,530.74				03/28/18	75.30	71.82	
5,530.54				06/21/18	75.50	72.02	



**Water Levels and Data over Time
White Mesa Mill - Well TW4-30**

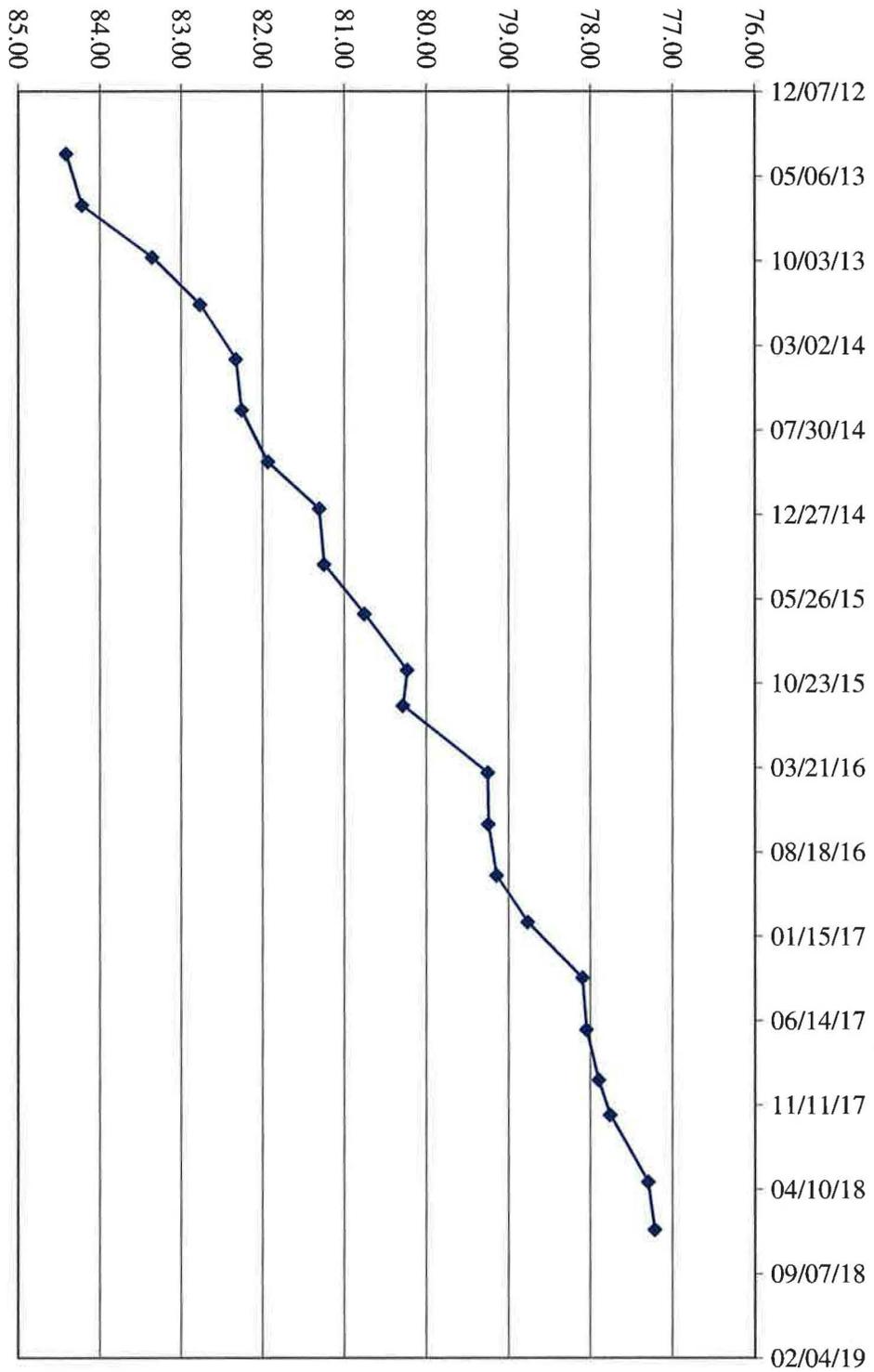
Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,599.33	5,602.81	3.48				93.48
5,524.78				03/28/13	78.03	74.55	
5,524.79				06/27/13	78.02	74.54	
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	
5,527.54				06/27/17	75.27	71.79	
5,527.56				09/28/17	75.25	71.77	
5,527.59				11/29/17	75.22	71.74	
5,527.88				03/28/18	74.93	71.45	
5,527.86				06/21/18	74.95	71.47	



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				107.48
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	
5,526.53				06/30/17	78.05	74.57	
5,526.68				09/28/17	77.90	74.42	
5,526.82				11/29/17	77.76	74.28	
5,527.28				03/28/18	77.30	73.82	
5,527.36				06/21/18	77.22	73.74	

Depth Below Measuring Point (ft.)

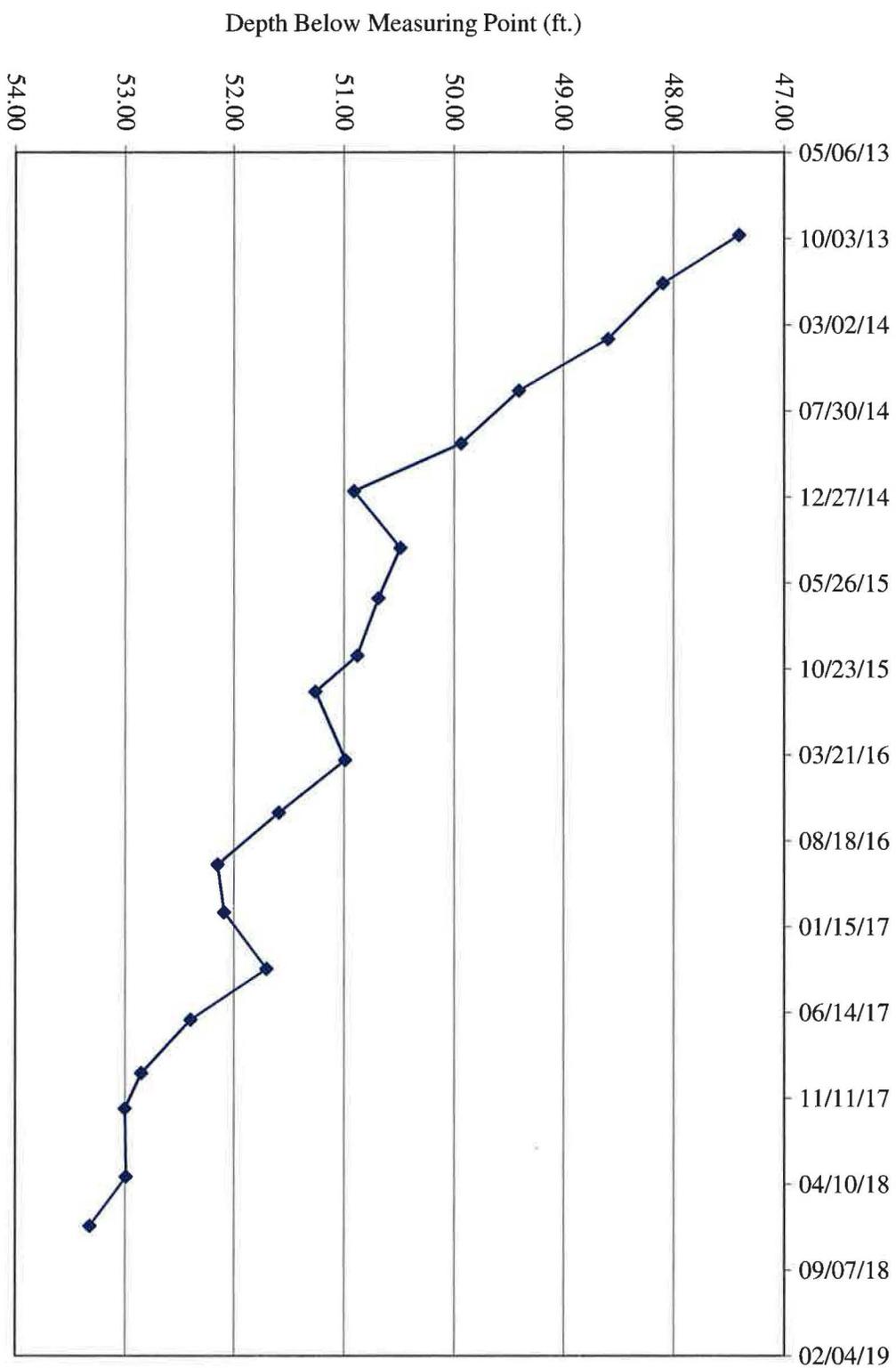


TW4-31 Water Depth Over Time (ft. blmp)

**Water Levels and Data over Time
White Mesa Mill - Well TW4-32**

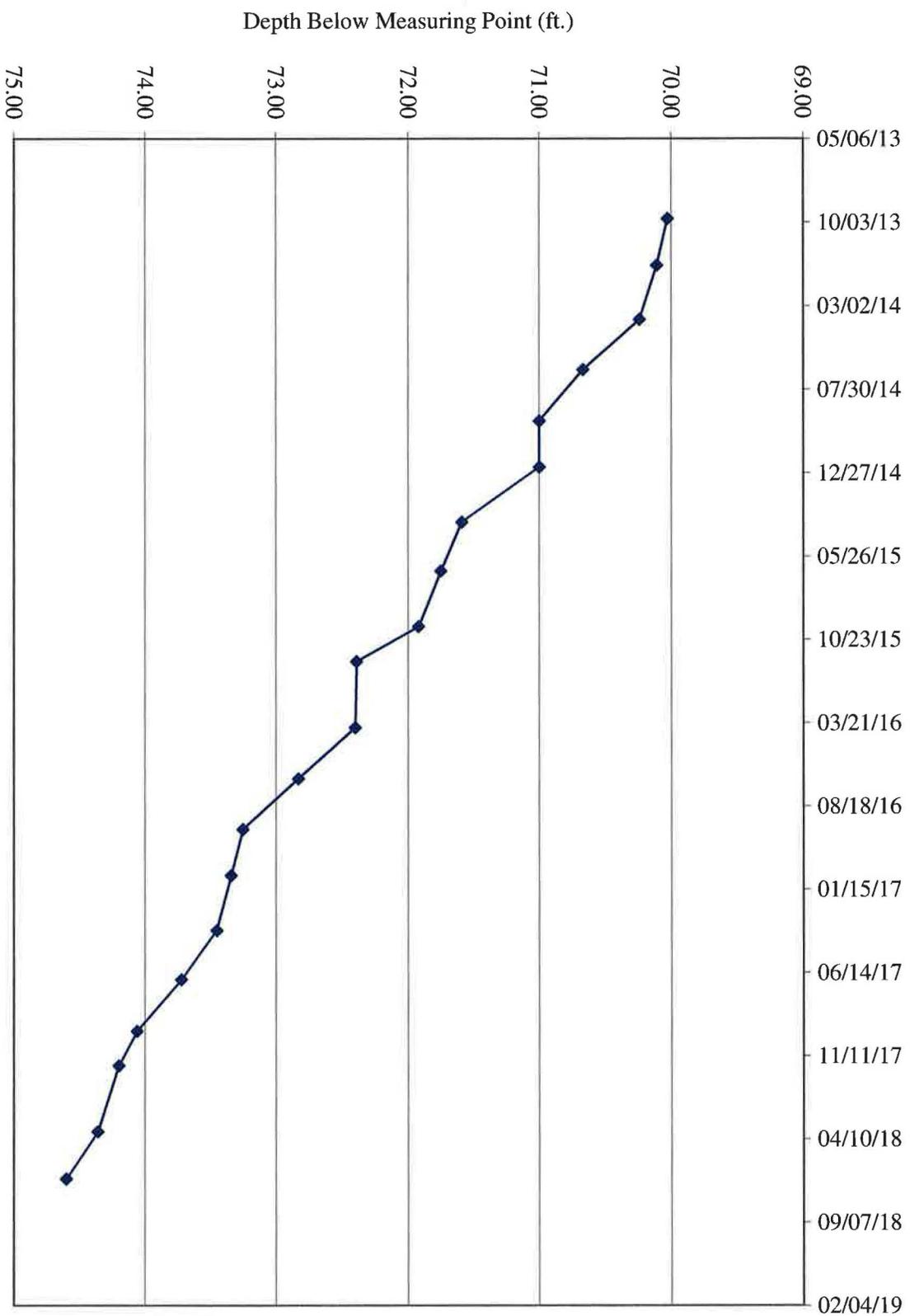
Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,610.20	5,611.84	1.64				114.64
5,564.43				09/27/13	47.41	45.77	
5,563.74				12/20/13	48.10	46.46	
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	
5,559.44				06/27/17	52.40	50.76	
5,558.99				09/28/17	52.85	51.21	
5,558.84				11/29/17	53.00	51.36	
5,558.85				03/28/18	52.99	51.35	
5,558.52				06/22/18	53.32	51.68	

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



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

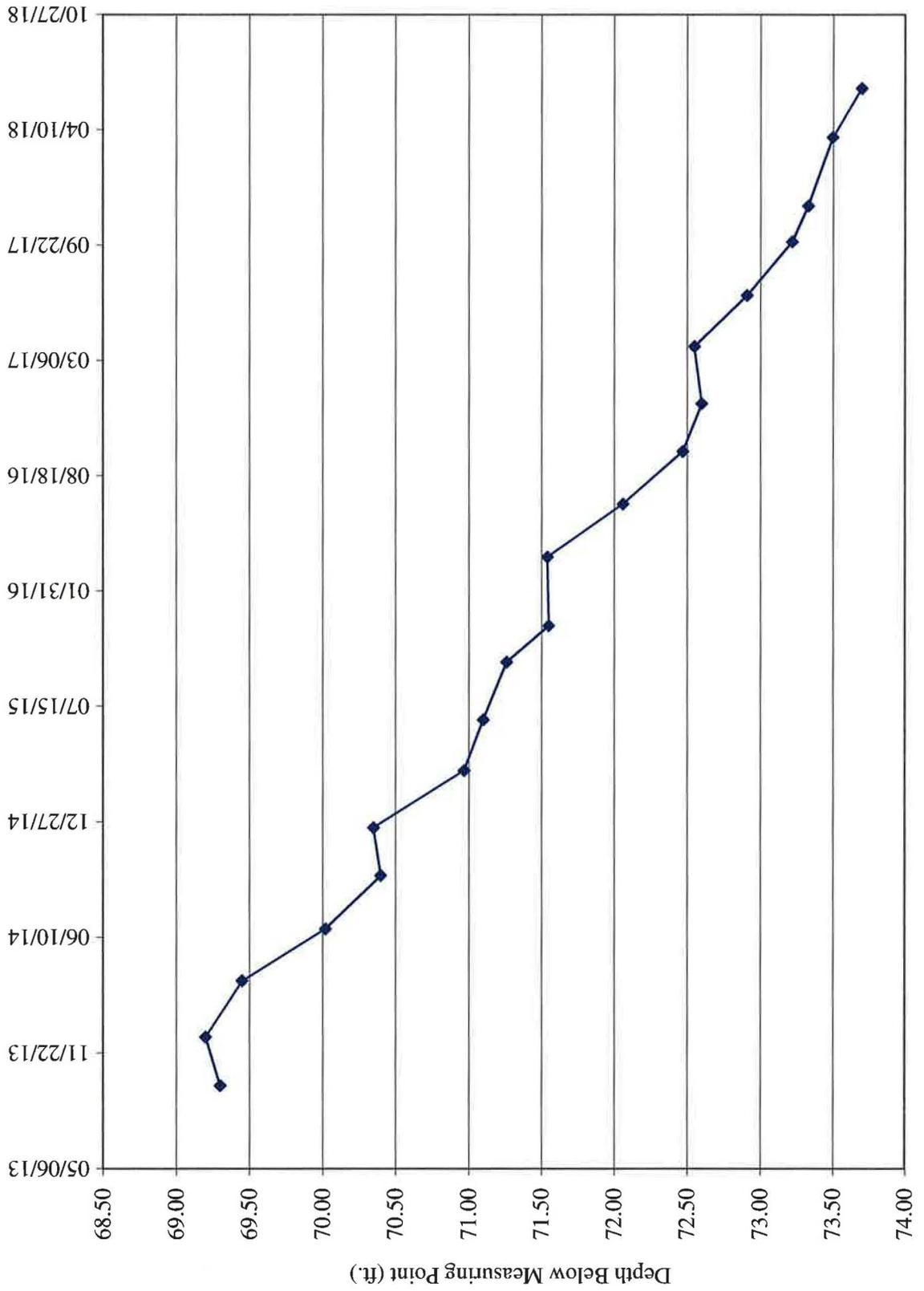
Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,605.20	5,606.73	1.53				86.23
5,536.70				09/27/13	70.03	68.50	
5,536.62				12/20/13	70.11	68.58	
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	
5,533.01				06/27/17	73.72	72.19	
5,532.67				09/28/17	74.06	72.53	
5,532.53				11/29/17	74.20	72.67	
5,532.37				03/28/18	74.36	72.83	
5,532.13				06/21/18	74.60	73.07	



**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				95.74
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	
5,530.43				06/27/17	72.91	71.17	
5,530.12				09/28/17	73.22	71.48	
5,530.01				11/29/17	73.33	71.59	
5,529.84				03/28/18	73.50	71.76	
5,529.64				06/21/18	73.70	71.96	

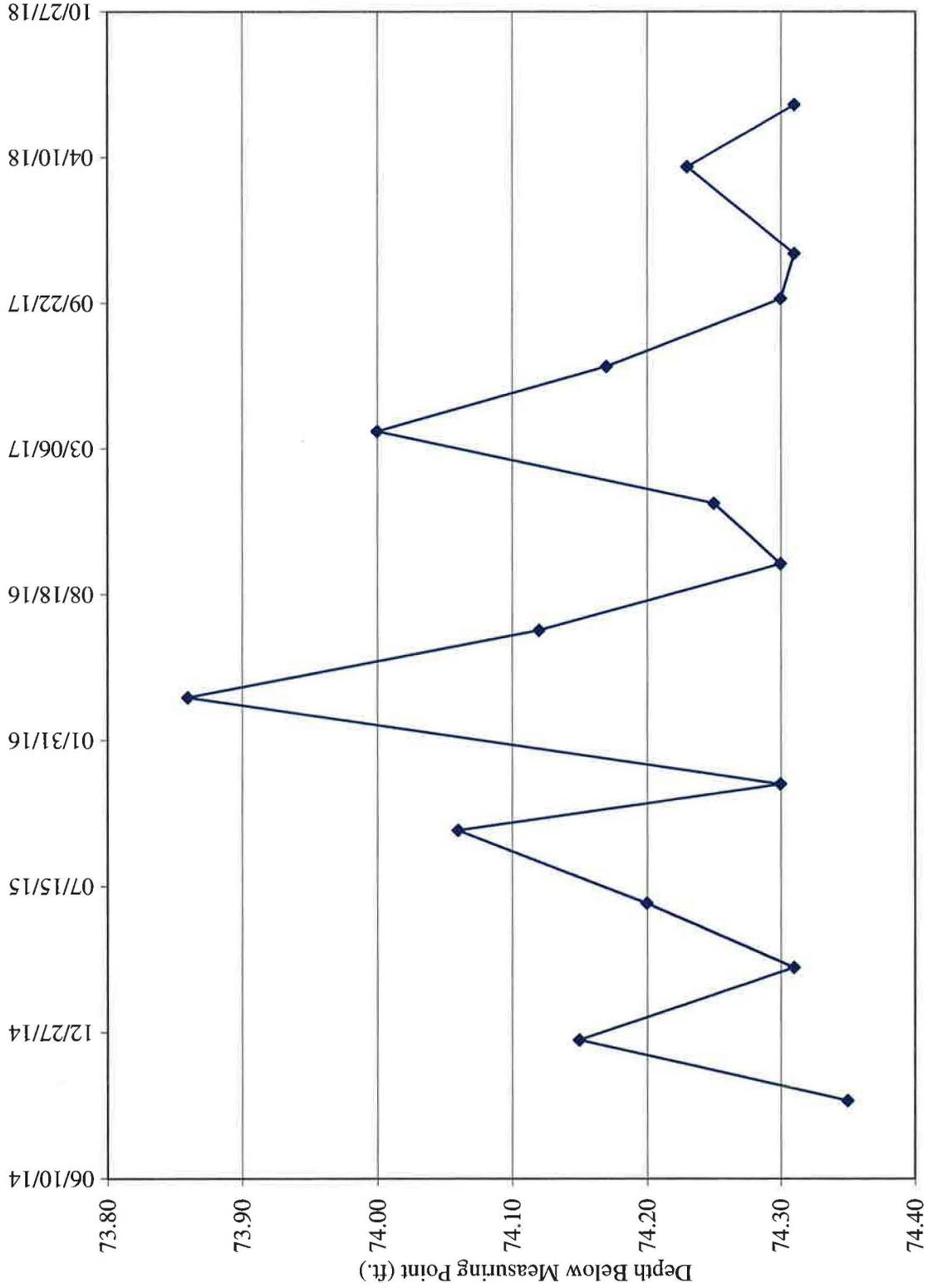
TW4-34 Water Depth Over Time (ft. blmp)



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

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,598.67	5,599.87	1.20				86.5
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	
5,525.70				06/27/17	74.17	72.97	
5,525.57				09/28/17	74.30	73.10	
5,525.56				11/29/17	74.31	73.11	
5,525.64				03/28/18	74.23	73.03	
5,525.56				06/21/18	74.31	73.11	

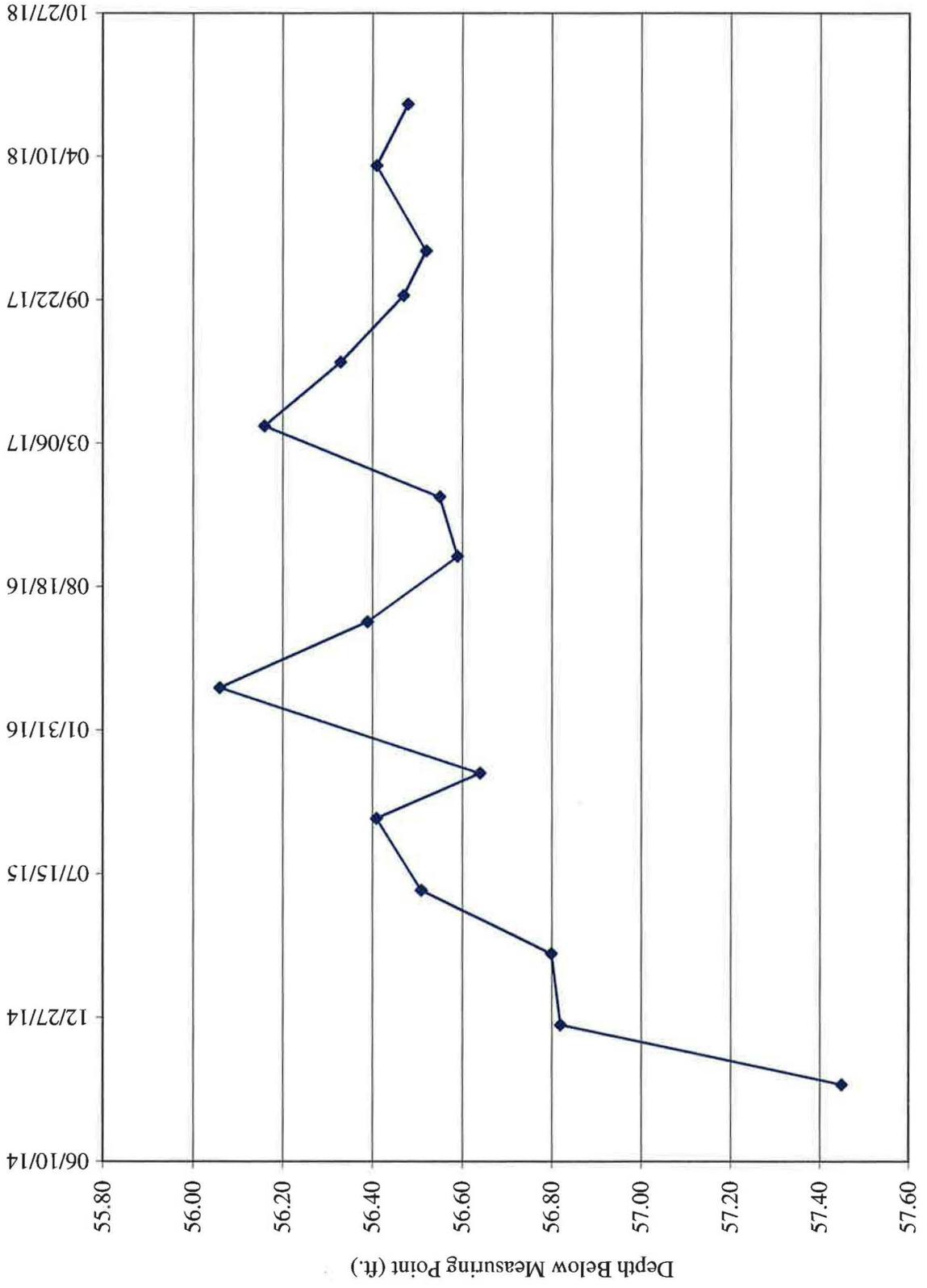
TW4-35 Water Depth Over Time (ft. blmp)



**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				99.41
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	
5,560.26				06/27/17	56.33	54.92	
5,560.12				09/28/17	56.47	55.06	
5,560.07				11/29/17	56.52	55.11	
5,560.18				03/28/18	56.41	55.00	
5,560.11				06/22/18	56.48	55.07	

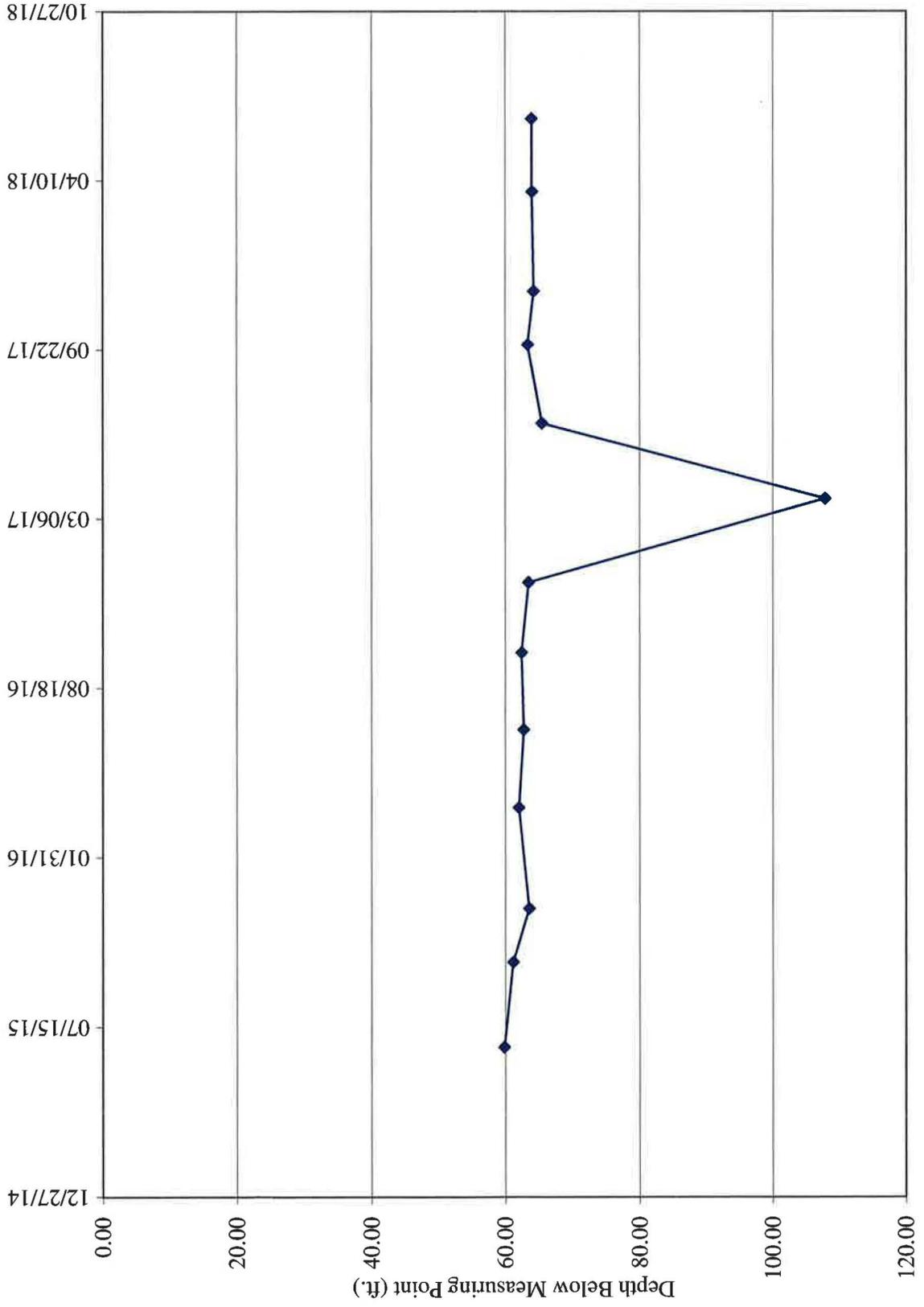
TW4-36 Water Depth Over Time (ft. blmp)



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				113.72
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	
5,566.35				06/27/17	65.50	63.78	
5,568.47				09/28/17	63.38	61.66	
5,567.57				11/30/17	64.28	62.56	
5,567.83				03/28/18	64.02	62.30	
5,567.87				06/22/18	63.98	62.26	

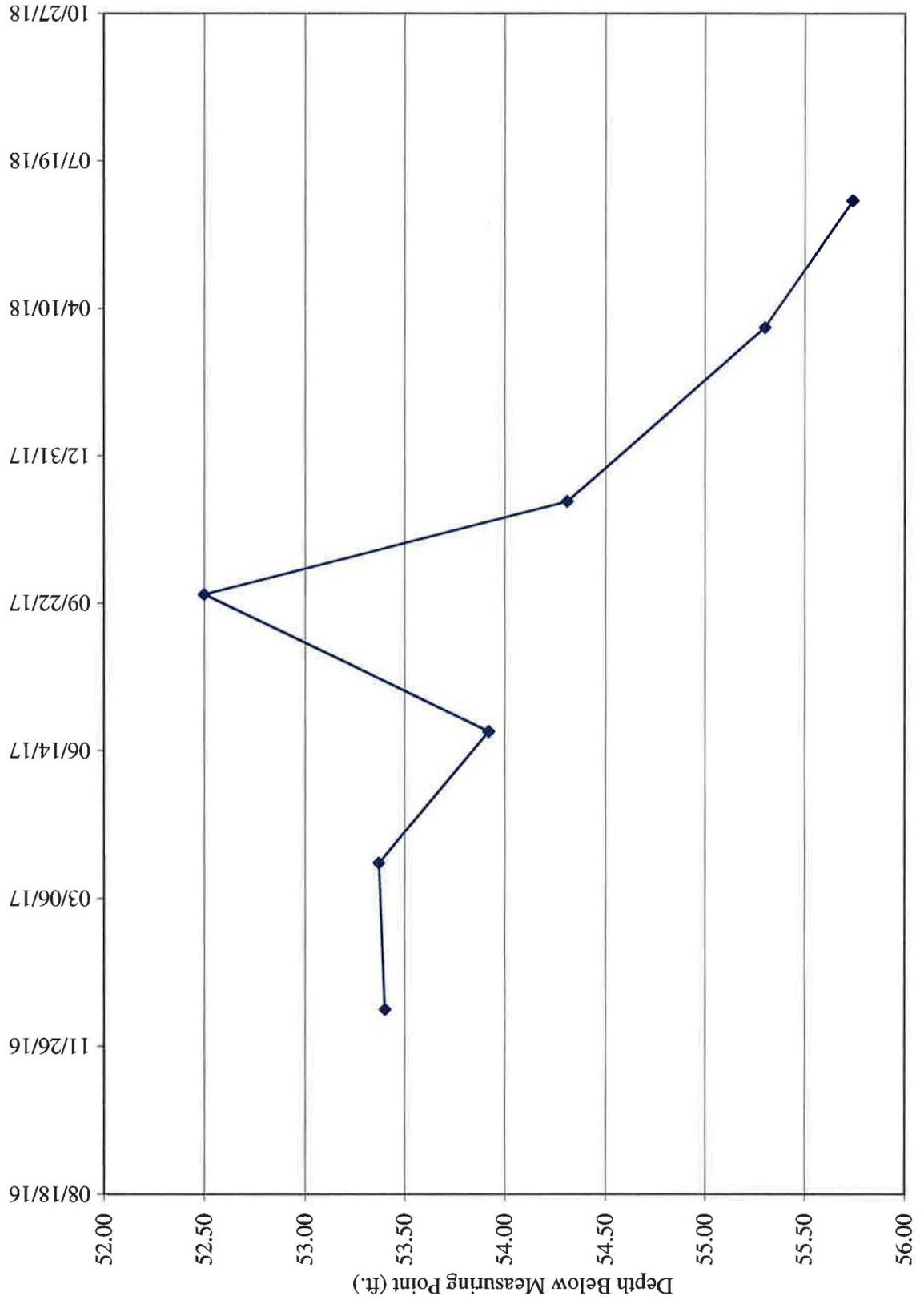
TW4-37 Water Depth Over Time (ft. blmp)



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				113.92
5,576.59				12/21/16	53.40	52.23	
5,576.62				03/30/17	53.37	52.20	
5,576.07				06/27/17	53.92	52.75	
5,577.49				09/28/17	52.50	51.33	
5,575.68				11/30/17	54.31	53.14	
5,574.69				03/28/18	55.30	54.13	
5,574.25				06/22/18	55.74	54.57	

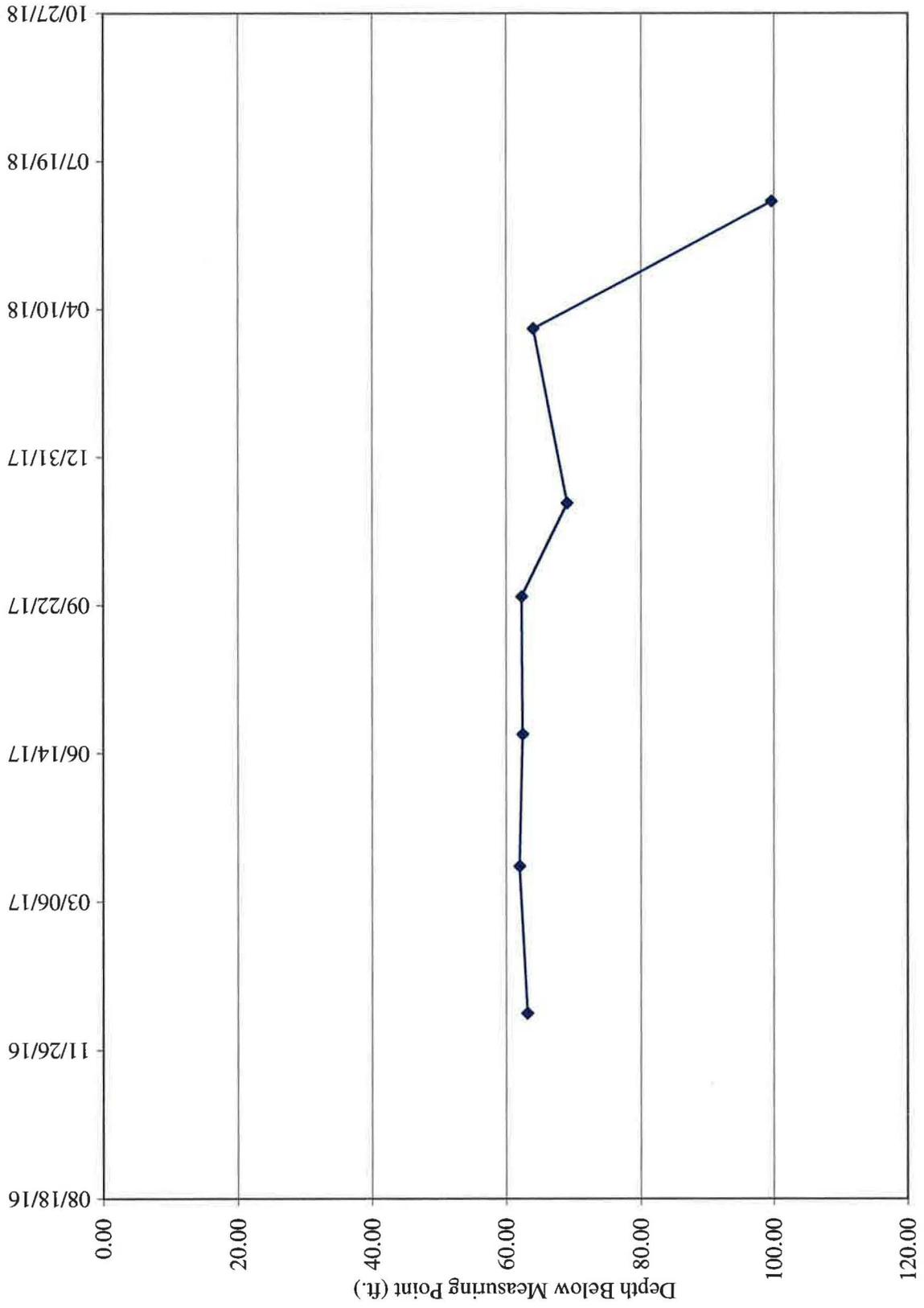
TW4-38 Water Depth Over Time (ft. blmp)



**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				120.74
5,566.39				12/21/16	63.17	62.43	
5,567.57				03/30/17	61.99	61.25	
5,567.11				06/27/17	62.45	61.71	
5,567.26				09/28/17	62.30	61.56	
5,560.52				11/30/17	69.04	68.30	
5,565.51				03/28/18	64.05	63.31	
5,529.91				06/22/18	99.65	98.91	

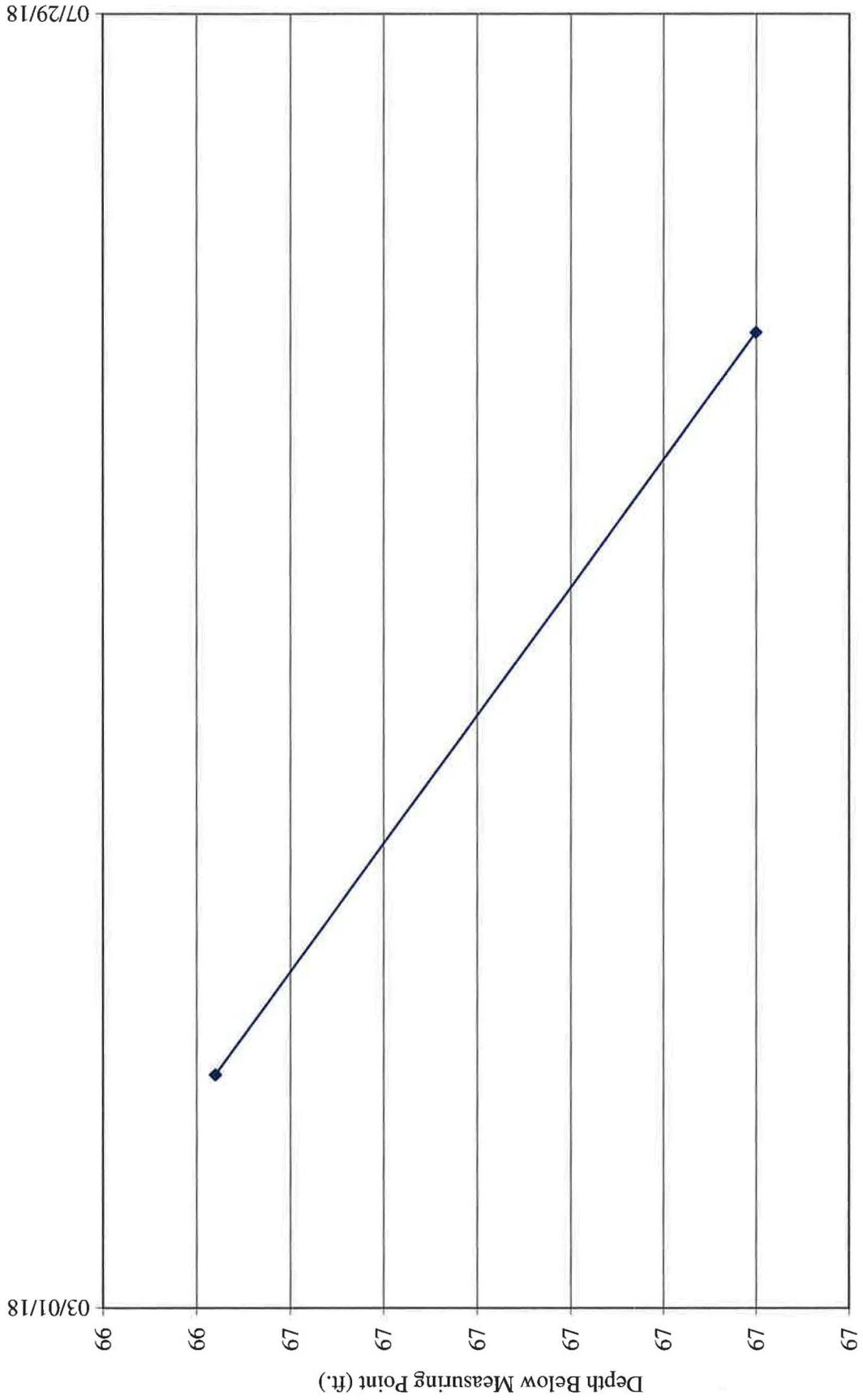
TW4-39 Water Depth Over Time (ft. blmp)



**Water Levels and Data over Time
White Mesa Mill - Well TW4-40**

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
	5,595.66	5,597.58	1.92				86
5,531.12				03/28/18	66.46	64.54	
5,530.83				06/22/18	66.75	64.83	

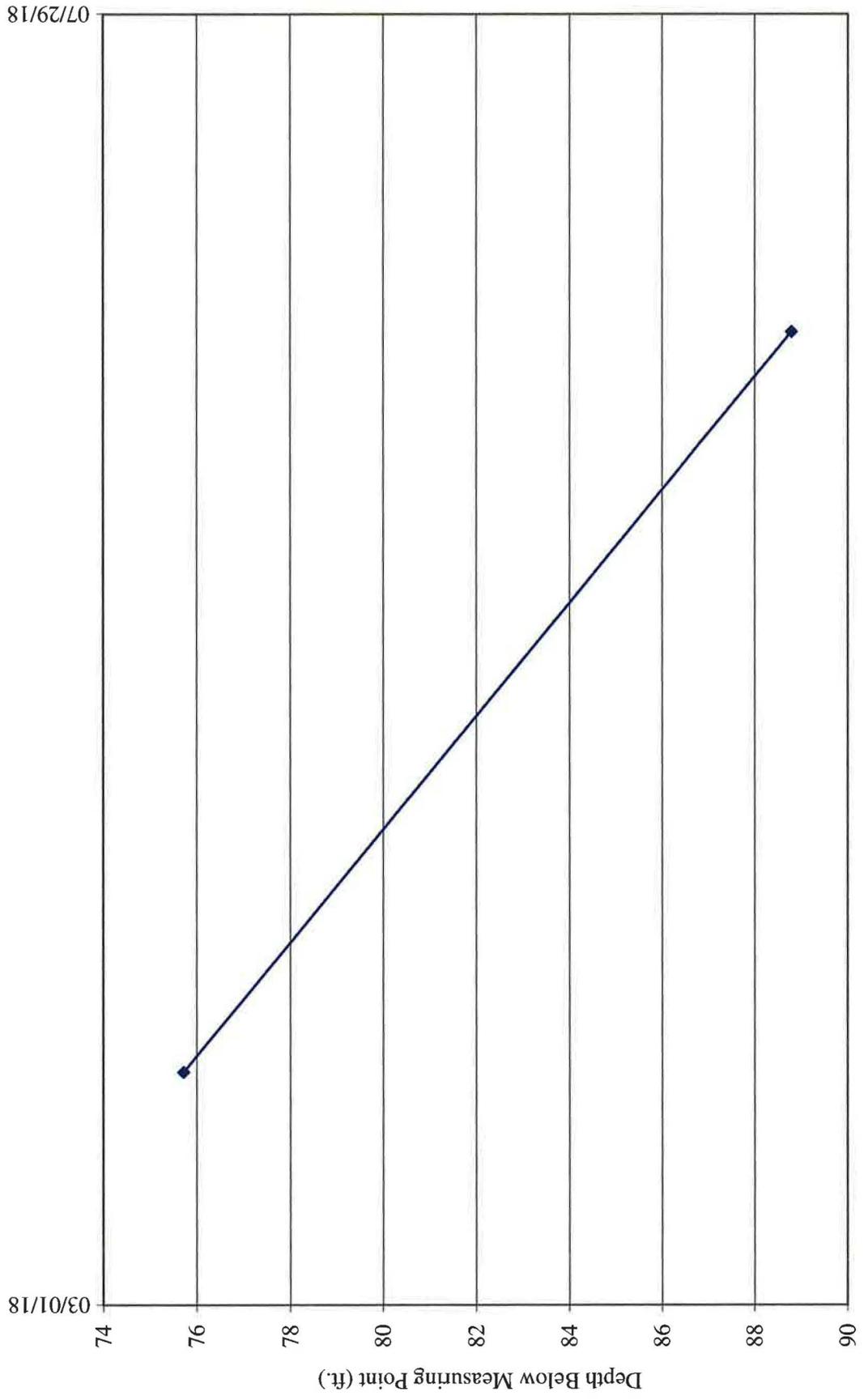
TW4-40 Water Depth Over Time (ft. blmp)



**Water Levels and Data over Time
White Mesa Mill - Well TW4-41**

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
	5,613.31	5,614.96	1.65				97.8
5,539.24				03/28/18	75.72	74.07	
5,526.18				06/22/18	88.78	87.13	

TW4-41 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

Quarter	MW-4						TW4-15 (formerly MW-26)					
	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	4947411.4	1.6673E+10	16673	36.8	930510	1660	3521980.4	5846487381	5846	12.9
Q2 2007	81230	2000	307455.6	614911100	615	1.4	54400	300	205904.0	61771200	62	0.1
Q3 2007	100700	2600	381149.5	990988700	991	2.2	72080	1400	272822.8	381951920	382	0.8
Q4 2007	90830	2300	343791.6	790720565	791	1.7	61750	2000	233723.8	467447500	467	1.0
Q1 2008	83950	2400	317750.8	762601800	763	1.7	47780	930	180847.3	168187989	168	0.4
Q2 2008	62780	2500	237622.3	594055750	594	1.3	44840	1300	169719.4	220635220	221	0.5
Q3 2008	81400	1800	308099.0	554578200	555	1.2	61280	630	231944.8	146125224	146	0.3
Q4 2008	91320	1700	345646.2	587598540	588	1.3	55700	630	210824.5	132819435	133	0.3
Q1 2009	90710	2200	343337.4	755342170	755	1.7	52970	950	200491.5	190466878	190	0.4
Q2 2009	450040	1800	1703401.4	3066122520	3066	6.8	58050	410	219719.3	90084892.5	90	0.2
Q3 2009	90420	2000	342239.7	684479400	684	1.5	57610	850	218053.9	185345773	185	0.4
Q4 2009	322380	1800	1220208.3	2196374940	2196	4.8	61960	1100	234518.6	257970460	258	0.6
Q1 2010	68125	1600	257853.1	412565000	413	0.9	61320	780	232096.2	181035036	181	0.4
Q2 2010	84005.33	2100	317960.2	667716366	668	1.5	60500	1900	228992.5	435085750	435	1.0
Q3 2010	79859.1	1900	302266.7	574306718	574	1.3	63850	2200	241672.3	531678950	532	1.2
Q4 2010	90042.2	1500	340809.7	511214591	511	1.1	60180	970	227781.3	220947861	221	0.5
Q1 2011	76247.6	1700	288597.2	490615182	491	1.1	55130	450	208667.1	93900172.5	94	0.2
Q2 2011	85849.3	1700	324939.6	552397321	552	1.2	55800.6	1800	211205.3	380169488	380	0.8
Q3 2011	85327.7	1700	322965.3	549041086	549	1.2	65618	720	248364.1	178822174	179	0.4
Q4 2011	89735.0	1600	339647.0	543435160	543	1.2	50191.3	1800	189974.1	341953327	342	0.8
Q1 2012	90376.4	1500	342074.7	513112011	513	1.1	31440.1	2400	119000.8	285601868	286	0.6
Q2 2012	90916.5	1400	344118.8	481766269	482	1.1	26701.2	3000	101064.1	303192353	303	0.7
Q3 2012	91607.0	1500	346732.5	520098743	520	1.1	25246	3100	95556.1	296223941	296	0.7
Q4 2012	78840.0	1300	298409.4	387932220	388	0.9	30797	1200	116566.6	139879974	140	0.3
Q1 2013	62943.7	1670	238241.9	397863981	398	0.9	22650.7	2120	85732.9	181753747	182	0.4
Q2 2013	71187.3	1490	269443.9	401471456	401	0.9	25343.4	4030	95924.8	386576819	387	0.9
Q3 2013	72898.8	1520	275922.0	419401376	419	0.9	25763	2940	97513.0	286688088	287	0.6
Q4 2013	70340.4	1410	266238.4	375396164	375	0.8	24207.6	1410	91625.8	129192330	129	0.3
Q1 2014	69833.8	1390	264320.9	367406097	367	0.8	23263.1	1400	88050.8	123271167	123	0.3
Q2 2014	71934.9	1390	272273.6	378460299	378	0.8	23757.5	1960	89922.1	176247390	176	0.4
Q3 2014	74788.2	1490	283073.3	421779272	422	0.9	24062.4	2120	91076.2	193081510	193	0.4
Q4 2014	63093.0	1440	238807.0	343882087	344	0.8	21875.8	2090	82799.9	173051797	173	0.4
Q1 2015	76454.3	1400	289379.5	405131336	405	0.9	24004.9	1980	90858.5	179899922	180	0.4
Q2 2015	60714.7	1300	229805.1	298746681	299	0.7	27804.6	1980	105240.4	208376014	208	0.5
Q3 2015	89520.8	1290	338836.2	437098734	437	1.0	21042.0	2350	79644.0	187163330	187	0.4
Q4 2015	99633.4	1200	377112.4	452534903	453	1.0	19355.6	2680	73260.9	196339335	196	0.4
Q1 2016	90882.1	1240	343988.7	426546048	427	0.9	19150.8	2650	72485.8	192087312	192	0.4
Q2 2016	96540.5	1580	365405.8	577341152	577	1.3	22105.7	2220	83670.1	185747565	186	0.4
Q3 2016	79786.4	1430	301991.5	431847879	432	1.0	17149.5	3190	64910.9	207065635	207	0.5
Q4 2016	85414.0	1470	323292.0	475239225	475	1.0	18541.6	2510	70180.0	176151690	176	0.4
Q1 2017	76642.3	1450	290091.1	420632103	421	0.9	26107.0	1290	98815.0	127471344	127	0.3
Q2 2017	72299.8	1430	273654.7	391326282	391	0.9	25921.8	2450	98114.0	240379332	240	0.5
Q3 2017	95349.3	1400	360897.1	505255941	505	1.1	27489.9	1230	104049.3	127980604	128	0.3
Q4 2017	106679.8	1320	403783.0	532993617	533	1.2	26445.8	2570	100097.4	257250197	257	0.6
Q1 2018	105060.4	1320	397653.6	524902770	525	1.2	27004.7	1210	102212.8	123677475	124	0.3
Q2 2018	101786.2	1240	385260.8	477723351	478	1.1	26654.7	1870	100888.0	188660634	189	0.4
Totals	5657585.18					96.9	2665406.3					34.8

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

Quarter	TW4-19						TW4-20					
	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	68150827947	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	519666578.8	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	365954806.8	366	0.8	76306	11000	288818.2	3177000310	3177	7.0
Q2 2012	172082.03	460	651330.5	299612022.4	300	0.7	22956.43	36000	86890.1	3128043152	3128	6.9
Q3 2012	171345	950	648540.8	616113783.8	616	1.4	22025	13000	83364.6	1083740125	1084	2.4
Q4 2012	156653	1500	592931.6	889397407.5	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	10100752476	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	676162566.5	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	446294633.9	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	518229739.8	518	1.1	13552.8	23400	51297.3	1200357943	1200	2.6
Q2 2017	109943.0	510	416134.3	212228470.1	212	0.5	12475.3	18100	47219.0	854664090	855	1.9
Q3 2017	112626.4	8840	426290.9	3768411768	3768	8.3	14556.8	27600	55097.5	1520690669	1521	3.4
Q4 2017	108891.2	129	412153.2	53167761.77	53	0.1	14271.0	11600	54015.7	626582526	627	1.4
Q1 2018	109856.3	2640	415806.1	1097728092	1098	2.4	14258.4	15400	53968.0	831107878	831	1.8
Q2 2018	111271.4	2980	421162.2	1255063502	1255	2.8	13367.6	12000	50596.4	607156392	607	1.3
Totals	18399139.23					399.7	2384250.49					282.8

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

Quarter	TW4-4						TW4-22					
	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	639770223	640	1.4	NA	NA	NA	NA	NA	NA
Q3 2010	76916.8	2100	291130.1	611373184.8	611	1.3	NA	NA	NA	NA	NA	NA
Q4 2010	86872.1	1700	328810.9	558978527.5	559	1.2	NA	NA	NA	NA	NA	NA
Q1 2011	73360.0	1800	277667.6	499801680	500	1.1	NA	NA	NA	NA	NA	NA
Q2 2011	80334.6	1700	304066.5	516912983.7	517	1.1	NA	NA	NA	NA	NA	NA
Q3 2011	97535.0	1500	369170.0	553754962.5	554	1.2	NA	NA	NA	NA	NA	NA
Q4 2011	109043.5	1500	412729.6	619094471.3	619	1.4	NA	NA	NA	NA	NA	NA
Q1 2012	101616.8	1200	384619.6	461543505.6	462	1.0	NA	NA	NA	NA	NA	NA
Q2 2012	87759.1	1500	332168.2	498252290.3	498	1.1	NA	NA	NA	NA	NA	NA
Q3 2012	80006.0	1600	302822.7	484516336	485	1.1	NA	NA	NA	NA	NA	NA
Q4 2012	71596	1400	270990.9	379387204	379	0.8	NA	NA	NA	NA	NA	NA
Q1 2013	58716.8	1460	222243.1	324474908.5	324	0.7	16677.4	10600	63124.0	669113965.4	669.1	1.5
Q2 2013	65603.4	1330	248308.9	330250795.8	330	0.7	25523.2	12500	96605.3	1207566400.0	1207.6	2.7
Q3 2013	63515.4	1380	240405.8	331759988.8	332	0.7	25592.9	9640	96869.1	933818379.5	933.8	2.1
Q4 2013	60233.6	1360	227984.2	310058479.4	310	0.7	24952.2	13300	94444.1	1256106224.1	1256.1	2.8
Q1 2014	58992.9	1260	223288.1	281343039.4	281	0.6	24532.0	12100	92853.6	1123528802.0	1123.5	2.5
Q2 2014	60235.3	1220	227990.6	278148544.8	278	0.6	24193.9	12400	91573.9	1135516502.6	1135.5	2.5
Q3 2014	69229.4	1320	262033.3	345883928.3	346	0.8	24610.9	12400	93152.3	1155087980.6	1155.1	2.5
Q4 2014	64422.6	1130	243839.5	275538681.3	276	0.6	23956.9	12400	90676.9	1124393144.6	1124.4	2.5
Q1 2015	36941.3	1350	139822.8	188760807.7	189	0.4	22046.9	12700	83447.5	1059783459.6	1059.8	2.3
Q2 2015	68162.8	1280	257996.2	330235133.4	330	0.7	23191.6	8050	87780.2	706630658.3	706.6	1.6
Q3 2015	64333.0	1220	243500.4	297070494.1	297	0.7	24619.9	7810	93186.3	727785170.9	727.8	1.6
Q4 2015	59235.1	1190	224204.9	266803775.7	267	0.6	23657.6	7530	89544.0	674266440.5	674.3	1.5
Q1 2016	57274.0	1190	216782.1	257970687.1	258	0.6	24517.8	6070	92799.9	563295229.1	563.3	1.2
Q2 2016	61378.0	1780	232315.7	413521999.4	414	0.9	26506.3	8570	100326.3	859796780.9	859.8	1.9
Q3 2016	50104.2	1380	189644.4	261709267.9	262	0.6	22144.1	5840	83815.4	489482044.0	489.5	1.1
Q4 2016	31656.0	1430	119818.0	171339682.8	171	0.4	23646.8	3370	89503.1	301625575.1	301.6	0.7
Q1 2017	23526.8	1290	89048.9	114873130	115	0.3	24066.2	5320	91090.6	484601816.4	484.6	1.1
Q2 2017	23244.9	1290	87981.9	113496711	113	0.3	23685.0	3670	89647.7	329007150.8	329.0	0.7
Q3 2017	23937.3	1290	90602.7	116877457.8	117	0.3	24583.2	5150	93047.4	479194171.8	479.2	1.1
Q4 2017	22900.6	1120	86678.8	97080223.52	97	0.2	23779.6	4770	90005.8	429327599.2	429.3	0.9
Q1 2018	23103.4	1160	87446.4	101437788	101	0.2	23982.8	4530	90774.9	411210287.9	411.2	0.9
Q2 2018	18137.0	1050	68648.5	72080972.25	72	0.2	23256.6	3010	88026.2	264958955.3	265.0	0.6
Totals	2014437.6					24.5	523723.8					36.1

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

Quarter	TW4-24						TW4-25					
	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	46.9	250995.5	11771687.2	11.8	0.026	124137.1	0.0	469858.9	0.0	0.0	0.0
Q4 2015	107799.1	25.3	408019.6	10322895.7	10.3	0.023	116420.1	0.0	440650.1	0.0	0.0	0.0
Q1 2016	100063.2	22.8	378739.2	8635254.0	8.6	0.019	115483.2	0.0	437103.9	0.0	0.0	0.0
Q2 2016	65233.6	69.6	246909.2	17184878.6	17.2	0.038	125606.0	0.0	475418.7	0.0	0.0	0.0
Q3 2016	51765.8	17.8	195933.6	3487617.2	3.5	0.008	104983.6	0.0	397362.9	0.0	0.0	0.0
Q4 2016	99522.5	20.8	376692.7	7835207.4	7.8	0.017	98681.2	0.0	373508.3	0.0	0.0	0.0
Q1 2017	99117.4	18.3	375159.4	6865416.3	6.9	0.015	161.2	1.15	610.1	701.7	0.0	0.0
Q2 2017	52808.7	17.2	199880.9	3437952.0	3.4	0.008	101617.2	0.0	384621.1	0.0	0.0	0.0
Q3 2017	55574.6	17.8	210349.9	3744227.5	3.7	0.008	124138.4	0.0	469863.8	0.0	0.0	0.0
Q4 2017	106021.4	16.0	401291.0	6420656.0	6.4	0.014	116731.9	0.0	441830.2	0.0	0.0	0.0
Q1 2018	96900.2	24.9	366767.3	9132504.7	9.1	0.020	116991.7	0.0	442813.6	0.0	0.0	0.0
Q2 2018	53117.9	49.2	201051.3	9891721.6	9.9	0.022	117758.3	0.0	445715.2	0.0	0.0	0.0
Totals	2808131.0				0.90		2427134.3				0.0	

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

Quarter	TW4-01						TW4-02					
	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
Q2 2017	18200.2	977	68887.8	67303338.6	67.3	0.15	18716.7	1940	70842.7	137434856.4	137.4	0.30
Q3 2017	17413.6	958	65910.5	63142236.0	63.1	0.14	19338.8	1310	73197.4	95888539.0	95.9	0.21
Q4 2017	14089.8	556	53329.9	29651420.5	29.7	0.07	17327.6	1610	65585.0	105591795.3	105.6	0.23
Q1 2018	12505.7	70.4	47334.1	3332318.8	3.3	0.01	16232.3	764	61439.3	46939591.2	46.9	0.10
Q2 2018	10814.8	942.0	40934.0	38559845.0	38.6	0.09	16051.4	949	60754.5	57656067.0	57.7	0.13
Totals	254145.4					2.07	275876.4					3.75

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

Quarter	TW4-11						TW4-21					
	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	116364.9	42589555.0	42.6	0.09
Q3 2015	3584.4	1120	13567.0	15194988.5	15.2	0.03	125285.4	281	474205.2	133251672.2	133.3	0.29
Q4 2015	4110.3	2730	15557.5	42471935.4	42.5	0.09	134774.9	339	510123.0	172931695.8	172.9	0.38
Q1 2016	3676.2	2660	13914.4	37012349.2	37.0	0.08	125513.3	390	475067.8	185276457.8	185.3	0.41
Q2 2016	3760.4	3340	14233.1	47538600.8	47.5	0.10	132248.7	545	500561.3	272805924.6	272.8	0.60
Q3 2016	2953.8	3200	11180.1	35776425.6	35.8	0.08	110381.9	456	417795.5	190514744.1	190.5	0.42
Q4 2016	3050.2	3180	11545.0	36713122.3	36.7	0.08	130311.3	434	493228.3	214061069.4	214.1	0.47
Q1 2017	2984.2	3310	11295.2	37387102.1	37.4	0.08	54333.5	598	205652.3	122980073.9	123.0	0.27
Q2 2017	2845.9	3370	10771.7	36300735.2	36.3	0.08	60969.7	224	230770.3	51692550.4	51.7	0.11
Q3 2017	2830.0	3290	10711.6	35240999.5	35.2	0.08	120116.2	537	454639.8	244141581.7	244.1	0.54
Q4 2017	2612.7	2880	9889.1	28480520.2	28.5	0.06	126492.5	466	478774.1	223108736.4	223.1	0.49
Q1 2018	2571.0	3090	9731.2	30069516.2	30.1	0.07	117832.0	421	445994.1	187763524.5	187.8	0.41
Q2 2018	2513.5	2800	9513.6	26638073.0	26.6	0.06	116681.0	532	441637.6	234951195.2	235.0	0.52
Totals	52634.6				1.22		1385684.1					5.02

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

Quarter	TW4-37						TW4-39					
	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	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Q2 2015	29206.0	30200	110544.7	3338450242.0	3338.5	7.4	NA	NA	NA	NA	NA	NA
Q3 2015	118063.9	19100	446871.9	8535252554.7	8535.3	18.8	NA	NA	NA	NA	NA	NA
Q4 2015	111737.5	19500	422926.4	8247065531.3	8247.1	18.2	NA	NA	NA	NA	NA	NA
Q1 2016	111591.0	17500	422371.9	7391508862.5	7391.5	16.3	NA	NA	NA	NA	NA	NA
Q2 2016	119241.2	16200	451327.9	7311512660.4	7311.5	16.1	NA	NA	NA	NA	NA	NA
Q3 2016	98377.6	15900	372359	5920511534.4	5920.5	13.1	NA	NA	NA	NA	NA	NA
Q4 2016	101949.1	16400	385877	6328388433.4	6328.4	14.0	3598.3	2800	13620	38134783.4	38.1	0.1
Q1 2017	97071.7	18000	367416	6613494921.0	6613.5	14.6	103117.8	6460	390301	2521343639.6	2521.3	5.56
Q2 2017	93191.3	15800	352729	5573119313.9	5573.1	12.3	41313.0	5560	156370	869415559.8	869.4	1.92
Q3 2017	81749.3	15000	309421	4641316507.5	4641.3	10.2	34546.3	10000	130758	1307577455.0	1307.6	2.9
Q4 2017	87529.6	15500	331300	5135142808.0	5135.1	11.3	68180.2	552	258062	142450255.5	142.5	0.3
Q1 2018	84769.3	12900	320852	4138988226.5	4139.0	9.1	59262.2	2870	224307	643762315.5	643.8	1.4
Q2 2018	83653.1	14400	316627	4559428562.4	4559.4	10.1	34259.8	7160	129673	928461135.9	928.5	2.0
Totals	1218130.6					171.4	344277.6					14.2

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

Quarter	TW4-41						Total Volume Pumped (gallons)	
	Total Pumped (gal)	Conc	Total Pumped (liters)	Total (ug)	Total (grams)	Total (pounds)		
Q1 2007	NA	NA	NA	NA	NA	NA	286.9	9648896.0
Q2 2007	NA	NA	NA	NA	NA	NA	4.0	904550.0
Q3 2007	NA	NA	NA	NA	NA	NA	9.0	559220.0
Q4 2007	NA	NA	NA	NA	NA	NA	10.6	550560.0
Q1 2008	NA	NA	NA	NA	NA	NA	13.8	503034.0
Q2 2008	NA	NA	NA	NA	NA	NA	14.8	527290.0
Q3 2008	NA	NA	NA	NA	NA	NA	26.8	724960.0
Q4 2008	NA	NA	NA	NA	NA	NA	22.7	786870.0
Q1 2009	NA	NA	NA	NA	NA	NA	10.0	664830.0
Q2 2009	NA	NA	NA	NA	NA	NA	13.5	1007400.0
Q3 2009	NA	NA	NA	NA	NA	NA	18.5	399710.0
Q4 2009	NA	NA	NA	NA	NA	NA	49.4	1047335.0
Q1 2010	NA	NA	NA	NA	NA	NA	4.5	492485.0
Q2 2010	NA	NA	NA	NA	NA	NA	16.5	721374.1
Q3 2010	NA	NA	NA	NA	NA	NA	10.6	376623.4
Q4 2010	NA	NA	NA	NA	NA	NA	17.9	1041817.3
Q1 2011	NA	NA	NA	NA	NA	NA	24.9	696533.0
Q2 2011	NA	NA	NA	NA	NA	NA	13.1	449131.1
Q3 2011	NA	NA	NA	NA	NA	NA	8.1	462334.5
Q4 2011	NA	NA	NA	NA	NA	NA	10.8	468706.3
Q1 2012	NA	NA	NA	NA	NA	NA	10.6	448486.3
Q2 2012	NA	NA	NA	NA	NA	NA	10.4	400415.2
Q3 2012	NA	NA	NA	NA	NA	NA	6.6	390229.0
Q4 2012	NA	NA	NA	NA	NA	NA	7.1	358000.0
Q1 2013	NA	NA	NA	NA	NA	NA	13.7	634286.1
Q2 2013	NA	NA	NA	NA	NA	NA	13.5	768953.4
Q3 2013	NA	NA	NA	NA	NA	NA	31.1	950505.6
Q4 2013	NA	NA	NA	NA	NA	NA	10.3	990119.8
Q1 2014	NA	NA	NA	NA	NA	NA	8.6	859297.5
Q2 2014	NA	NA	NA	NA	NA	NA	9.9	838057.9
Q3 2014	NA	NA	NA	NA	NA	NA	10.2	852987.2
Q4 2014	NA	NA	NA	NA	NA	NA	14.6	673905.9
Q1 2015	NA	NA	NA	NA	NA	NA	9.9	458271.4
Q2 2015	NA	NA	NA	NA	NA	NA	15.3	539592.9
Q3 2015	NA	NA	NA	NA	NA	NA	33.4	816299.8
Q4 2015	NA	NA	NA	NA	NA	NA	32.3	847567.8
Q1 2016	NA	NA	NA	NA	NA	NA	30.6	819302.3
Q2 2016	NA	NA	NA	NA	NA	NA	39.4	832418.9
Q3 2016	NA	NA	NA	NA	NA	NA	24.7	686543.4
Q4 2016	NA	NA	NA	NA	NA	NA	25.6	750667.4
Q1 2017	NA	NA	NA	NA	NA	NA	27.2	667899.1
Q2 2017	NA	NA	NA	NA	NA	NA	19.6	657232.5
Q3 2017	NA	NA	NA	NA	NA	NA	28.5	754250.1
Q4 2017	NA	NA	NA	NA	NA	NA	16.9	841953.7
Q1 2018	NA	NA	NA	NA	NA	NA	18.0	810330.4
Q2 2018	73711.2	1400	278997	390595648.8	390.6	0.9	20.1	803034.5
Totals	73711.2					0.9	1074.3	40484267.8

Table G-2
Chloroform Mass Removal Per Well Per Quarter

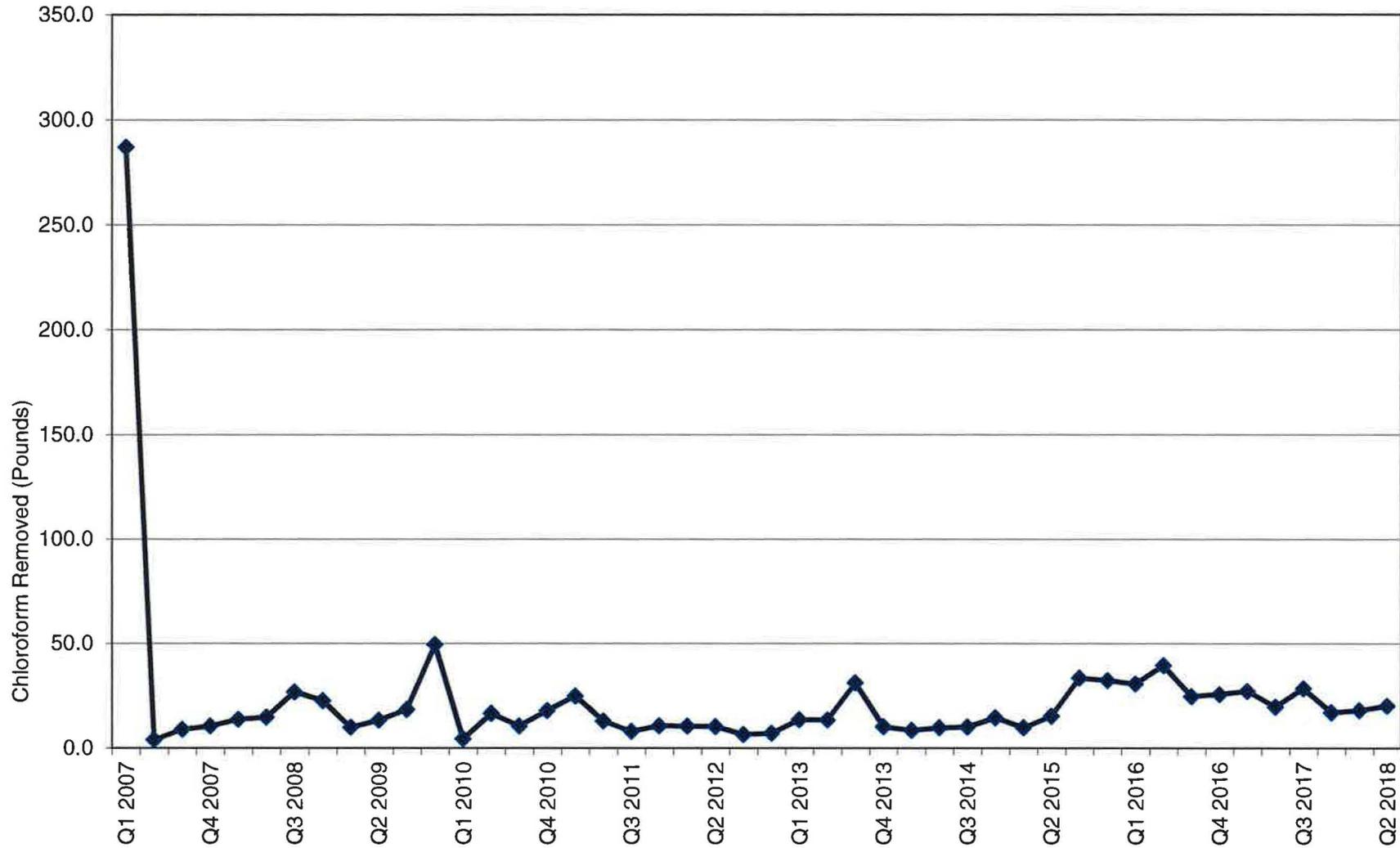
Quarter*	MW-4 (lbs.)	TW4-15 (MW-26) (lbs.)	TW4-19 (lbs.)	TW4-20 (lbs.)	TW4-4 (lbs.)	TW4-22 (lbs.)	TW4-24 (lbs.)	TW4-25 (lbs.)	TW4-01 (lbs.)	TW4-02 (lbs.)	TW4-11 (lbs.)	TW4-21 (lbs.)	TW4-37 (lbs.)	TW4-39 (lbs.)	TW4-41 (lbs.)	Quarter Totals (lbs.)
Q1 2007	36.8	12.9	150.2	87.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	286.9
Q2 2007	1.4	0.1	0.0	2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.0
Q3 2007	2.2	0.8	2.9	3.1	NA	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	NA	10.6
Q1 2008	1.7	0.4	4.6	7.2	NA	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	NA	14.8
Q3 2008	1.2	0.3	15.9	9.3	NA	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	NA	22.7
Q1 2009	1.7	0.4	4.3	3.6	NA	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	NA	13.5
Q3 2009	1.5	0.4	11.1	5.5	NA	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	NA	49.4
Q1 2010	0.9	0.4	2.7	0.4	NA	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	16.5									
Q3 2010	1.3	1.2	2.0	4.9	1.3	NA	10.6									
Q4 2010	1.1	0.5	7.7	7.4	1.2	NA	17.9									
Q1 2011	1.1	0.2	12.9	9.6	1.1	NA	24.9									
Q2 2011	1.2	0.8	5.3	4.6	1.1	NA	13.1									
Q3 2011	1.2	0.4	1.1	4.1	1.2	NA	8.1									
Q4 2011	1.2	0.8	2.7	4.8	1.4	NA	10.8									
Q1 2012	1.1	0.6	0.8	7.0	1.0	NA	10.6									
Q2 2012	1.1	0.7	0.7	6.9	1.1	NA	10.4									
Q3 2012	1.1	0.7	1.4	2.4	1.1	NA	6.6									
Q4 2012	0.9	0.3	2.0	3.2	0.8	NA	7.2									
Q1 2013	0.9	0.4	7.4	2.8	0.7	1.5	0.0	0.0	NA	13.7						
Q2 2013	0.9	0.9	3.9	4.4	0.7	2.7	0.0	0.0	NA	13.5						
Q3 2013	0.9	0.6	22.3	4.4	0.7	2.1	0.1	0.0	NA	31.1						
Q4 2013	0.8	0.3	3.2	2.5	0.7	2.8	0.1	0.0	NA	10.3						
Q1 2014	0.8	0.3	1.5	2.8	0.6	2.5	0.2	0.0	NA	8.6						
Q2 2014	0.8	0.4	2.0	3.4	0.6	2.5	0.1	0.0	NA	9.9						
Q3 2014	0.9	0.4	3.6	1.8	0.8	2.5	0.1	0.0	NA	10.2						
Q4 2014	0.8	0.4	7.1	3.2	0.6	2.5	0.04	0.0	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	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	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	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	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	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	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	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	NA	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	NA	27.2
Q2 2017	0.9	0.5	0.5	1.9	0.3	0.7	0.008	0.0	0.15	0.30	0.08	0.11	12.3	1.9	NA	19.6
Q3 2017	1.1	0.3	8.3	3.4	0.3	1.1	0.008	0.0	0.14	0.21	0.08	0.54	10.2	2.9	NA	28.5
Q4 2017	1.2	0.6	0.1	1.4	0.2	0.9	0.014	0.0	0.07	0.23	0.06	0.49	11.3	0.3	NA	16.9
Q1 2018	1.2	0.3	2.4	1.8	0.2	0.9	0.020	0.0	0.01	0.10	0.07	0.41	9.1	1.4	NA	18.0
Q2 2018	1.1	0.4	2.8	1.3	0.2	0.6	0.022	0.0	0.09	0.13	0.06	0.52	10.1	2.0	0.9	20.1
Well Totals	96.9	34.8	399.7	282.8	24.5	36.1	0.90	0.0	2.07	3.75	1.22	5.02	171.4	14.2	0.9	1074.3

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

Table G-3 Well Pumping Rates and Volumes

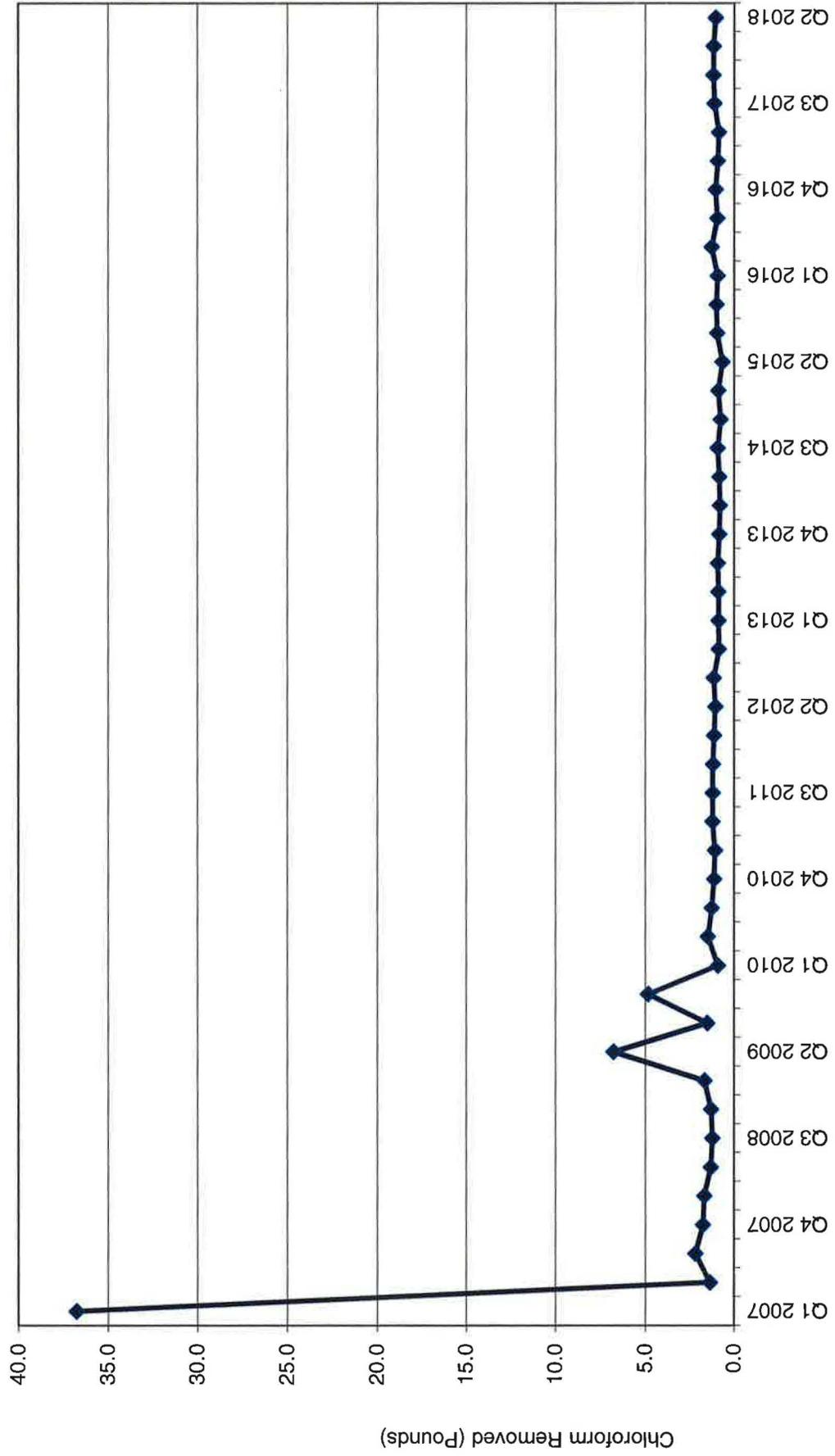
Pumping Well Name	Volume of Water Pumped During the Quarter (gals)	Average Pump Rate (gpm)
MW-4	101786.2	4.4
MW-26	26654.7	10.4
TW4-19	111271.4	18.0
TW4-20	13367.6	7.1
TW4-4	18137.0	14.5
TWN-2	43697.0	18.5
TW4-22	23256.6	17.0
TW4-24	53117.9	15.8
TW4-25	117758.3	14.5
TW4-01	10814.8	14.1
TW4-02	16051.4	14.3
TW4-11	2513.5	16.0
TW4-21	116681.0	16.0
TW4-37	83653.1	16.5
TW4-39	34259.8	18.0
TW4-41	73711.2	2.7

Mass of Chloroform Removed by Quarter (lbs.)



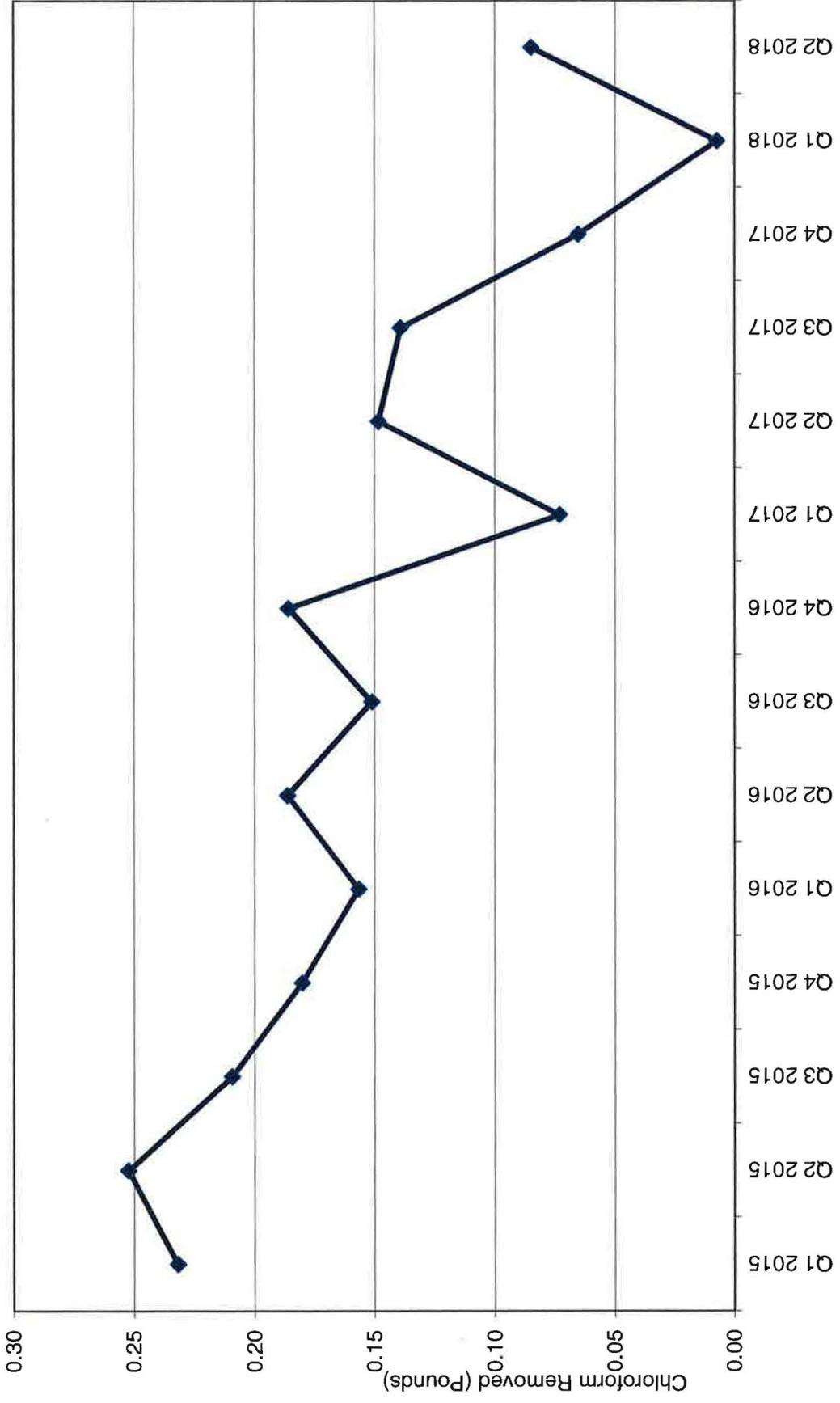
Q1 2007 represents the cumulative total prior to and including Q1 2007.

MW-04 Mass of Chloroform Removed by Quarter (lbs.)

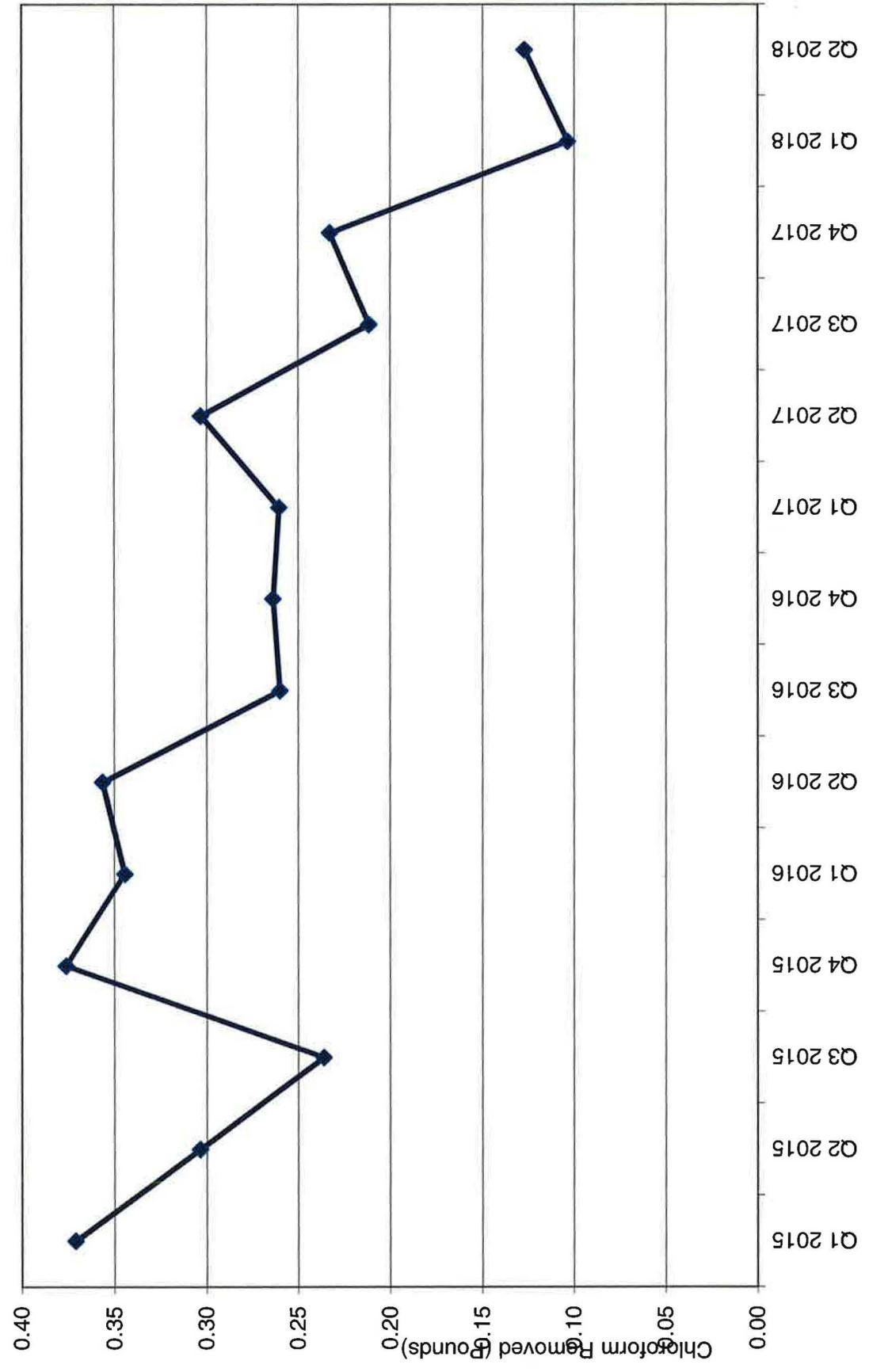


Q1 2007 represents the cumulative total prior to and including Q1 2007.

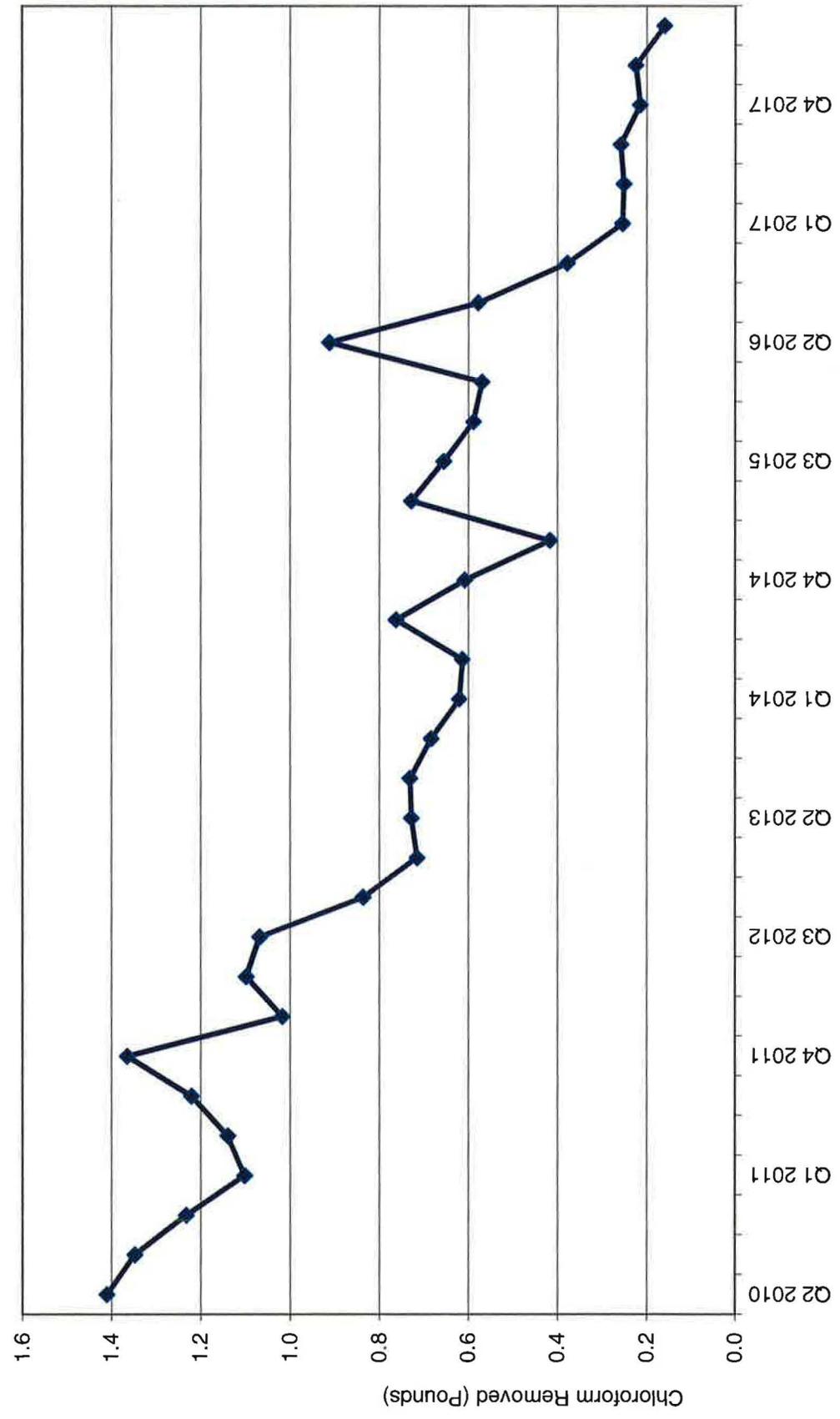
TW4-01 Mass of Chloroform Removed by Quarter (lbs.)



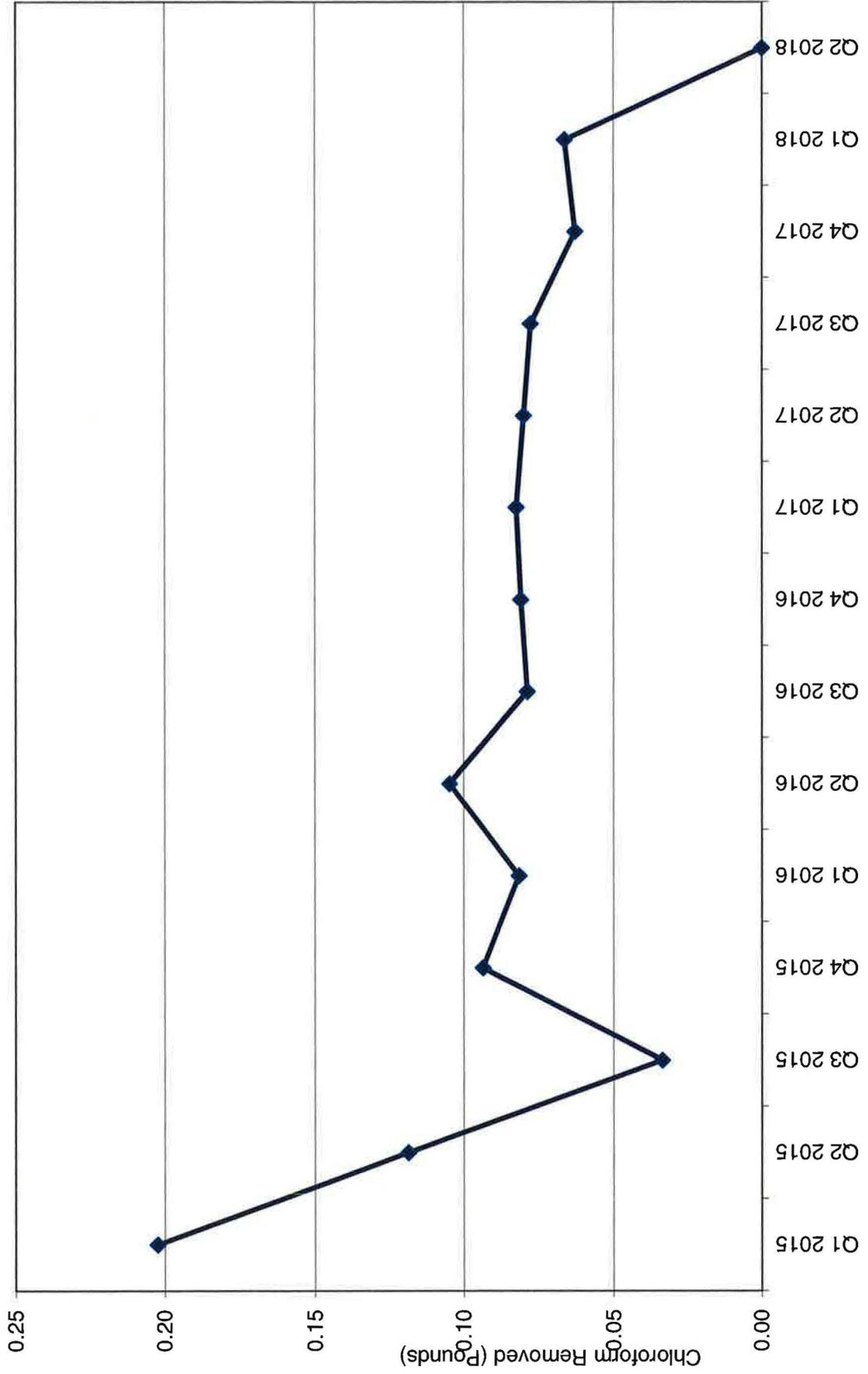
TW4-02 Mass of Chloroform Removed by Quarter (lbs.)



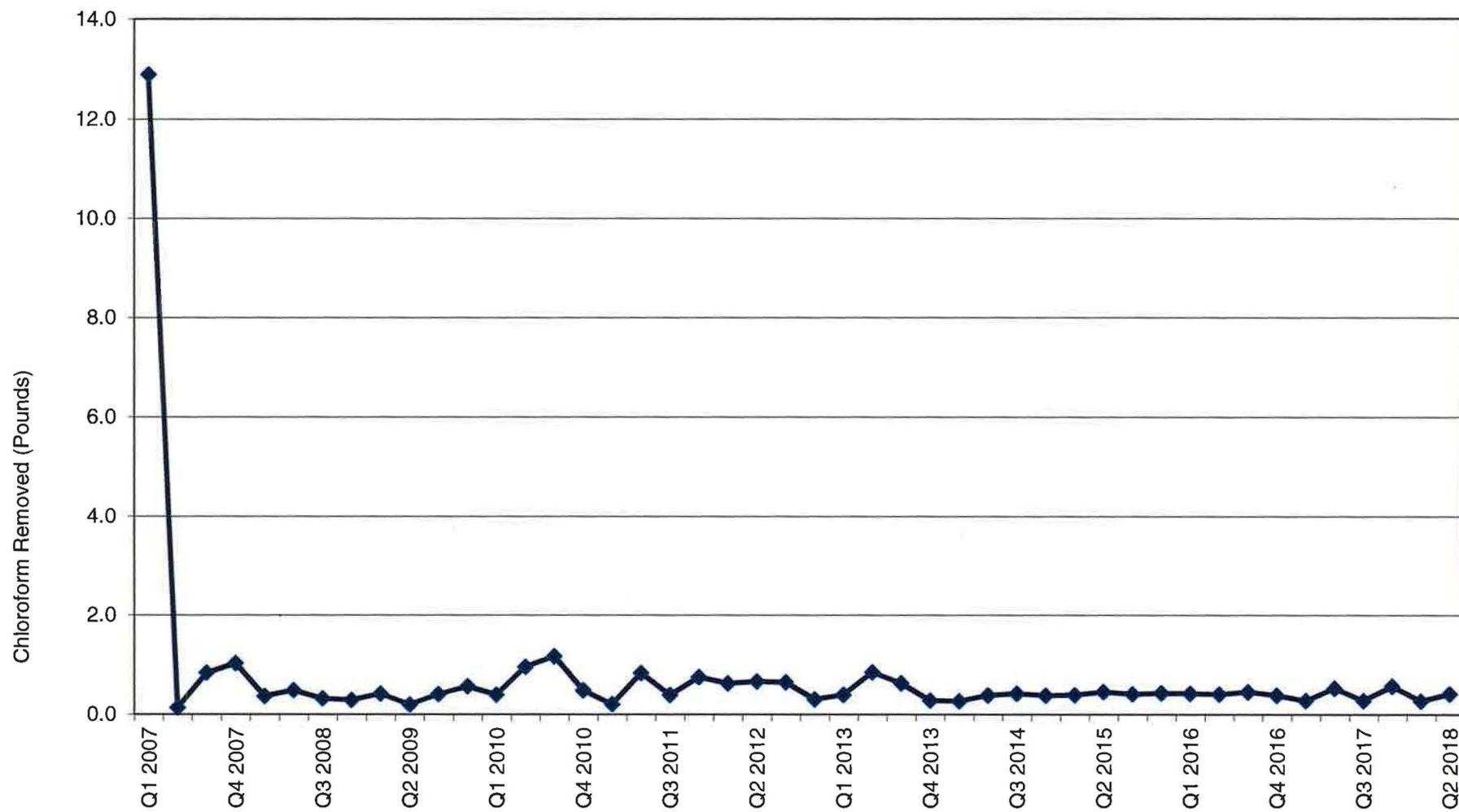
TW4-04 Mass of Chloroform Removed by Quarter (lbs.)



TW4-11 Mass of Chloroform Removed by Quarter (lbs.)

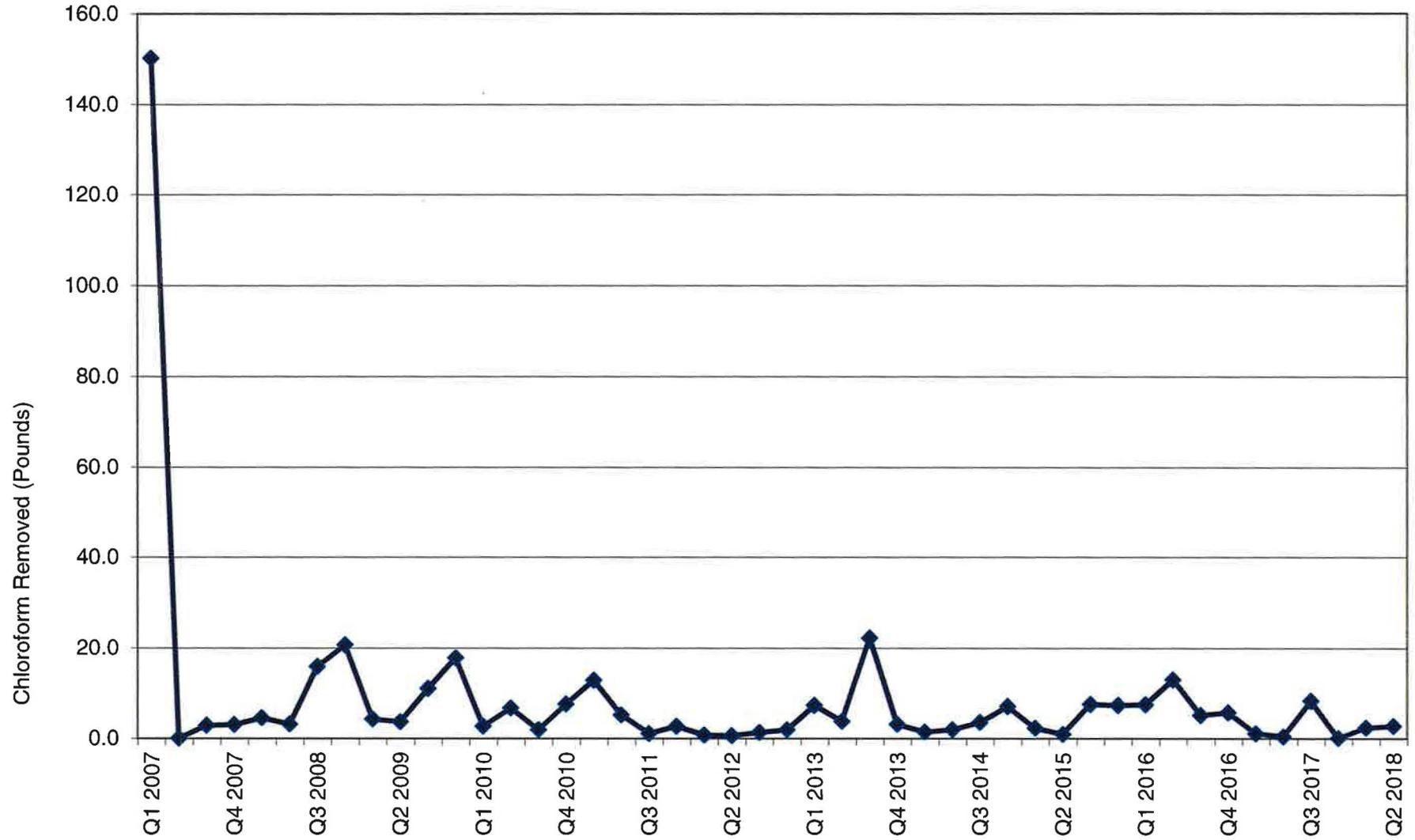


MW-26 Mass of Chloroform Removed by Quarter (lbs.)



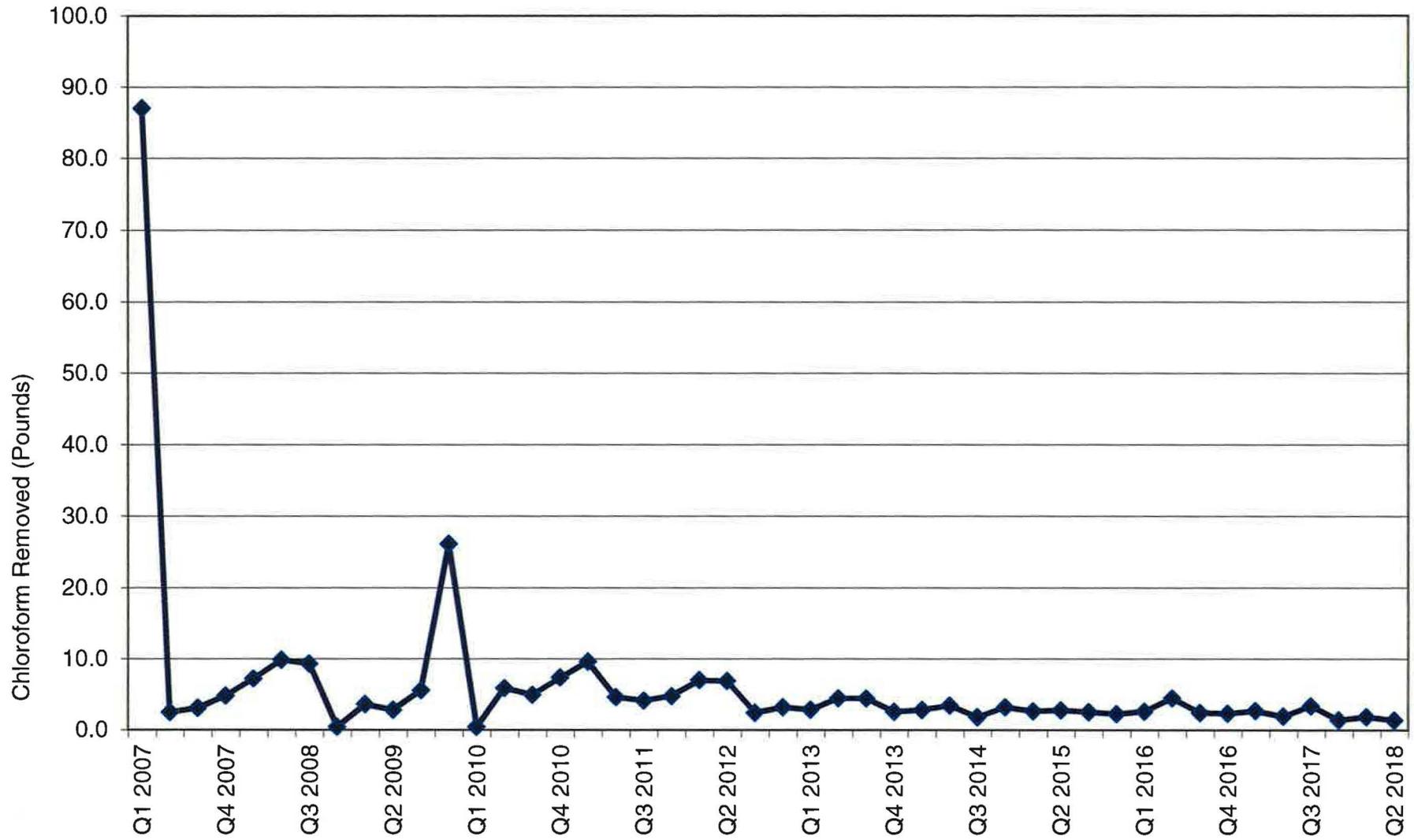
Q1 2007 represents the cumulative total prior to and including Q1 2007.

TW4-19 Mass of Chloroform Removed by Quarter (lbs.)



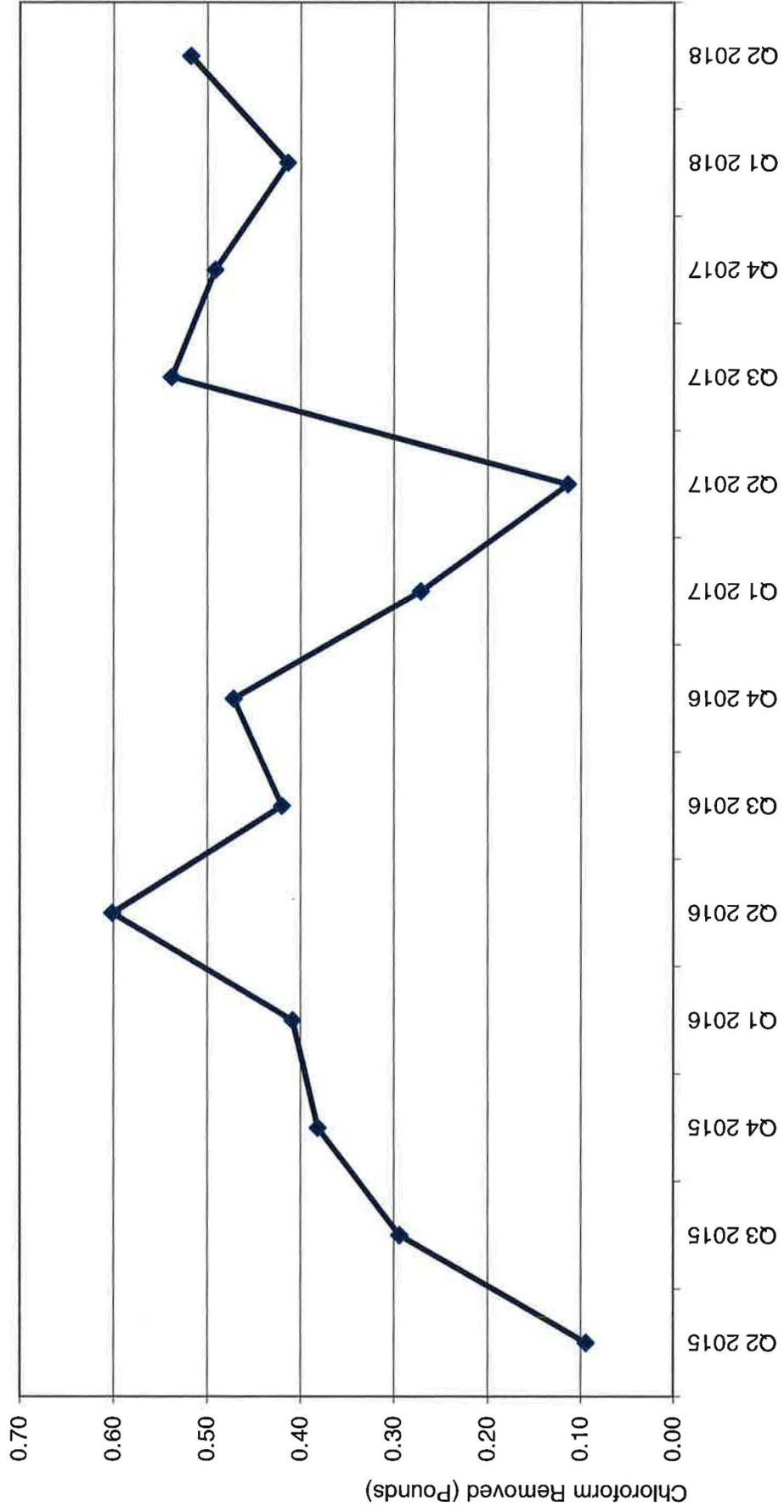
Q1 2007 represents the cumulative total prior to and including Q1 2007.

TW4-20 Mass of Chloroform Removed by Quarter (lbs.)

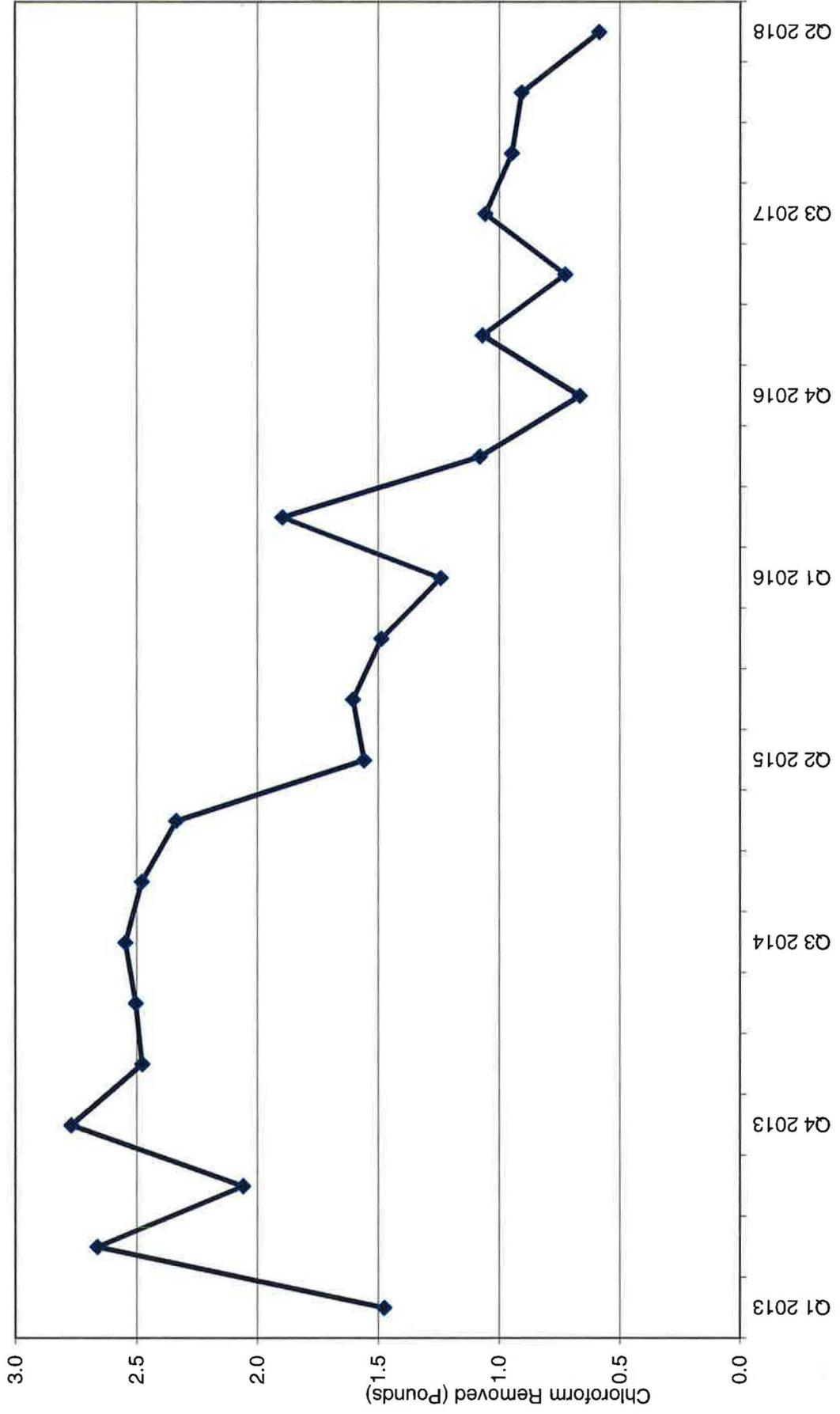


Q1 2007 represents the cumulative total prior to and including Q1 2007.

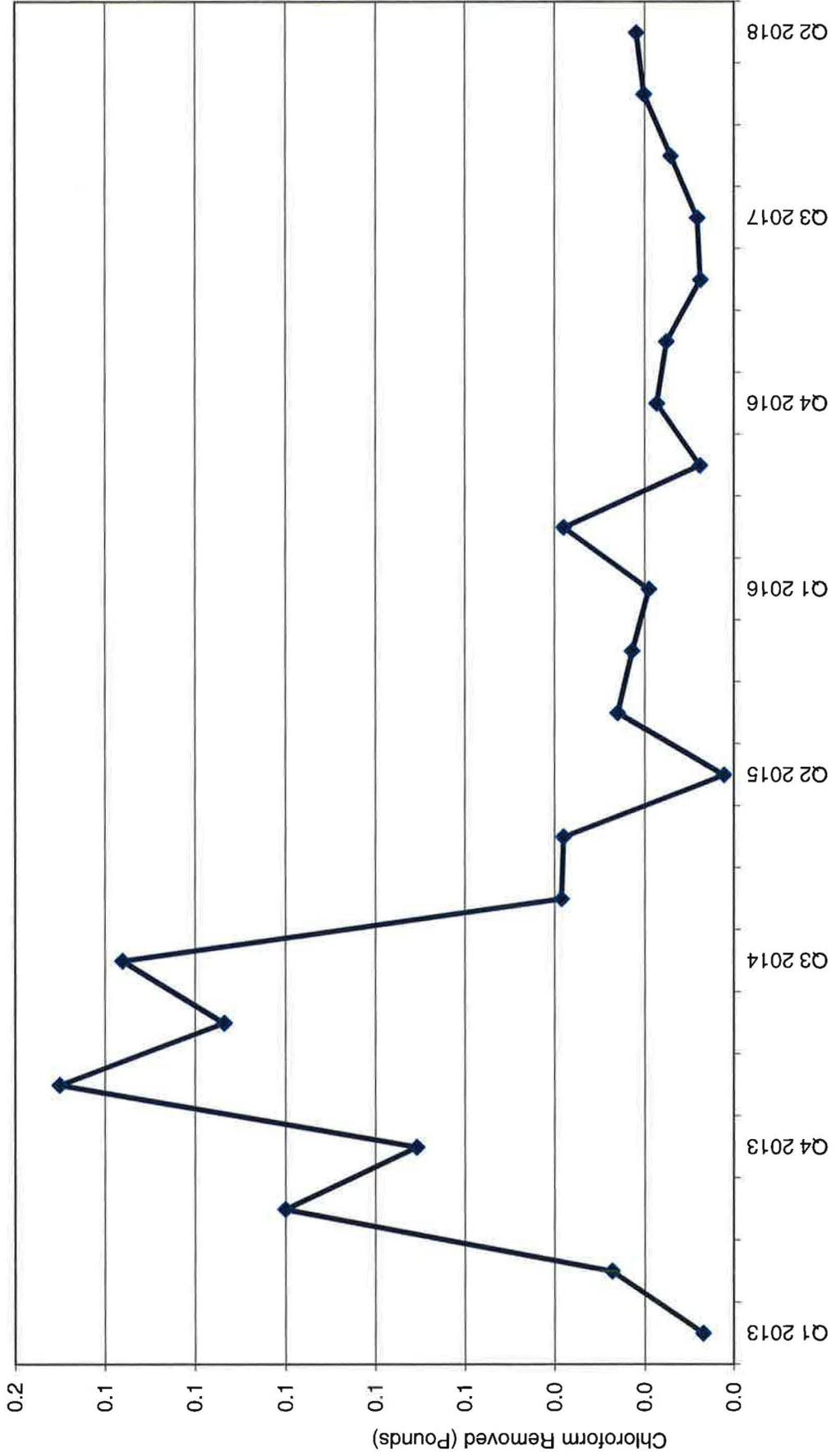
TW4-21 Mass of Chloroform Removed by Quarter (lbs.)



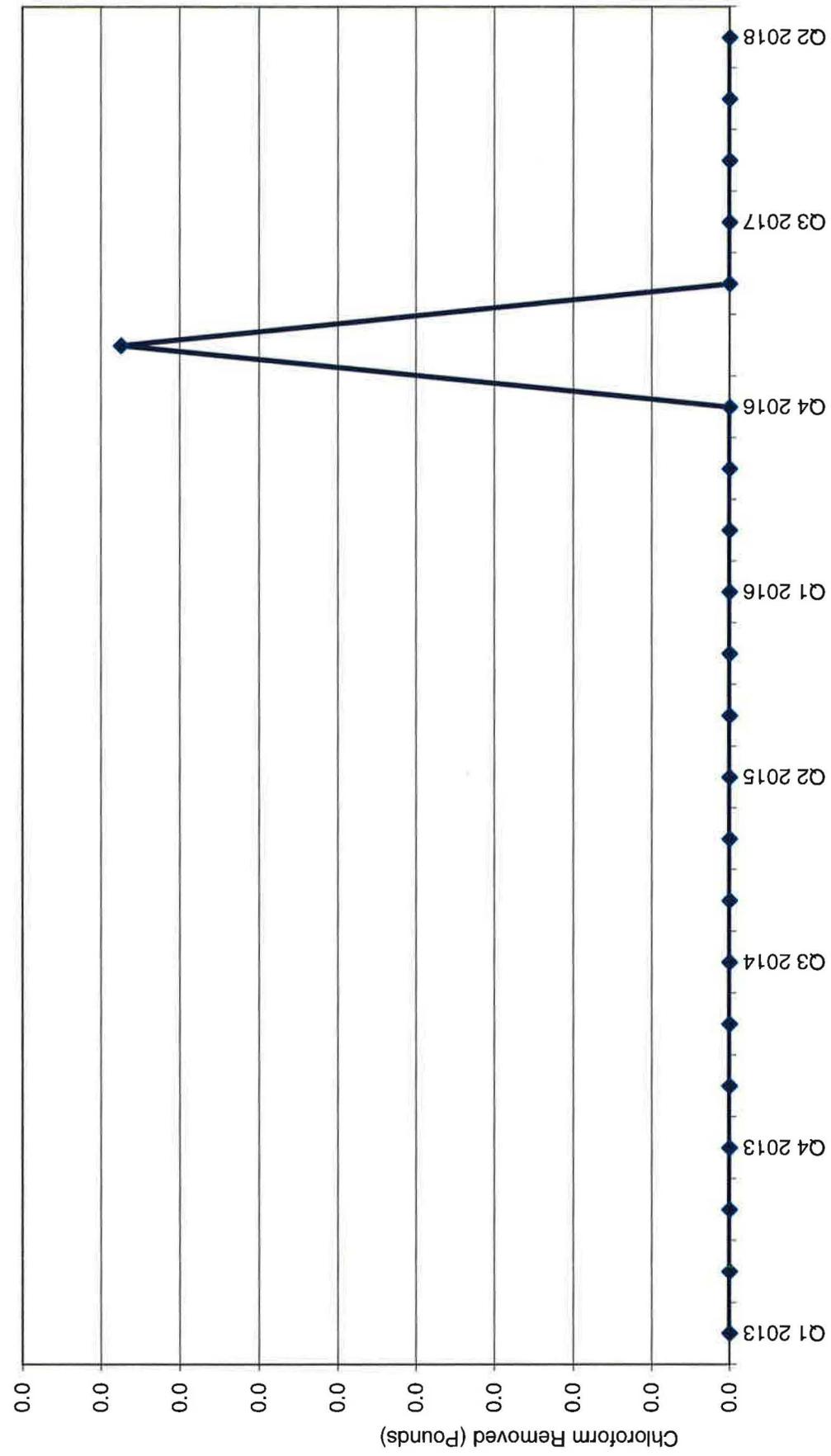
TW4-22 Mass of Chloroform Removed by Quarter (lbs.)



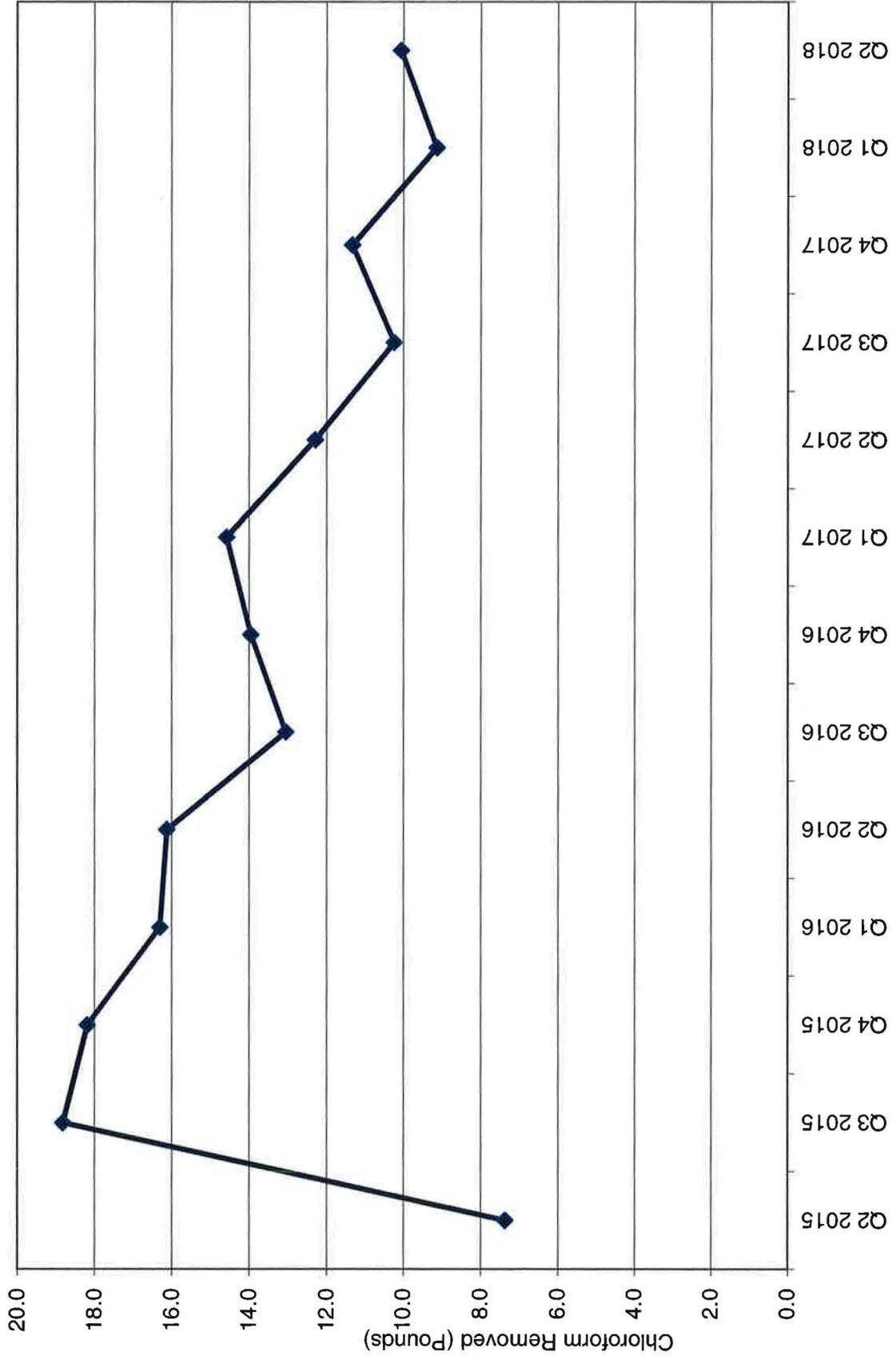
TW4-24 Mass of Chloroform Removed by Quarter (lbs.)



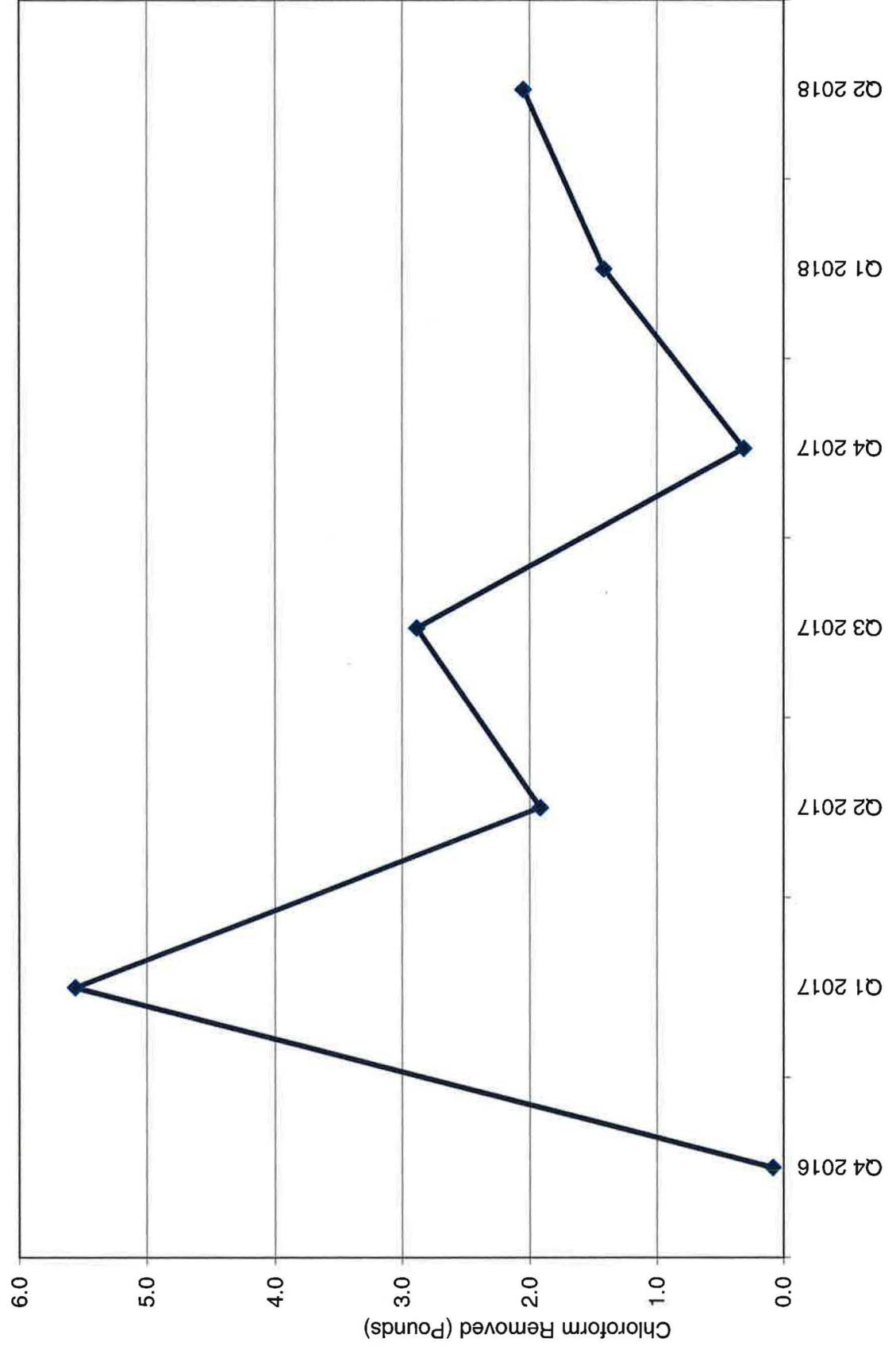
TW4-25 Mass of Chloroform Removed by Quarter (lbs.)



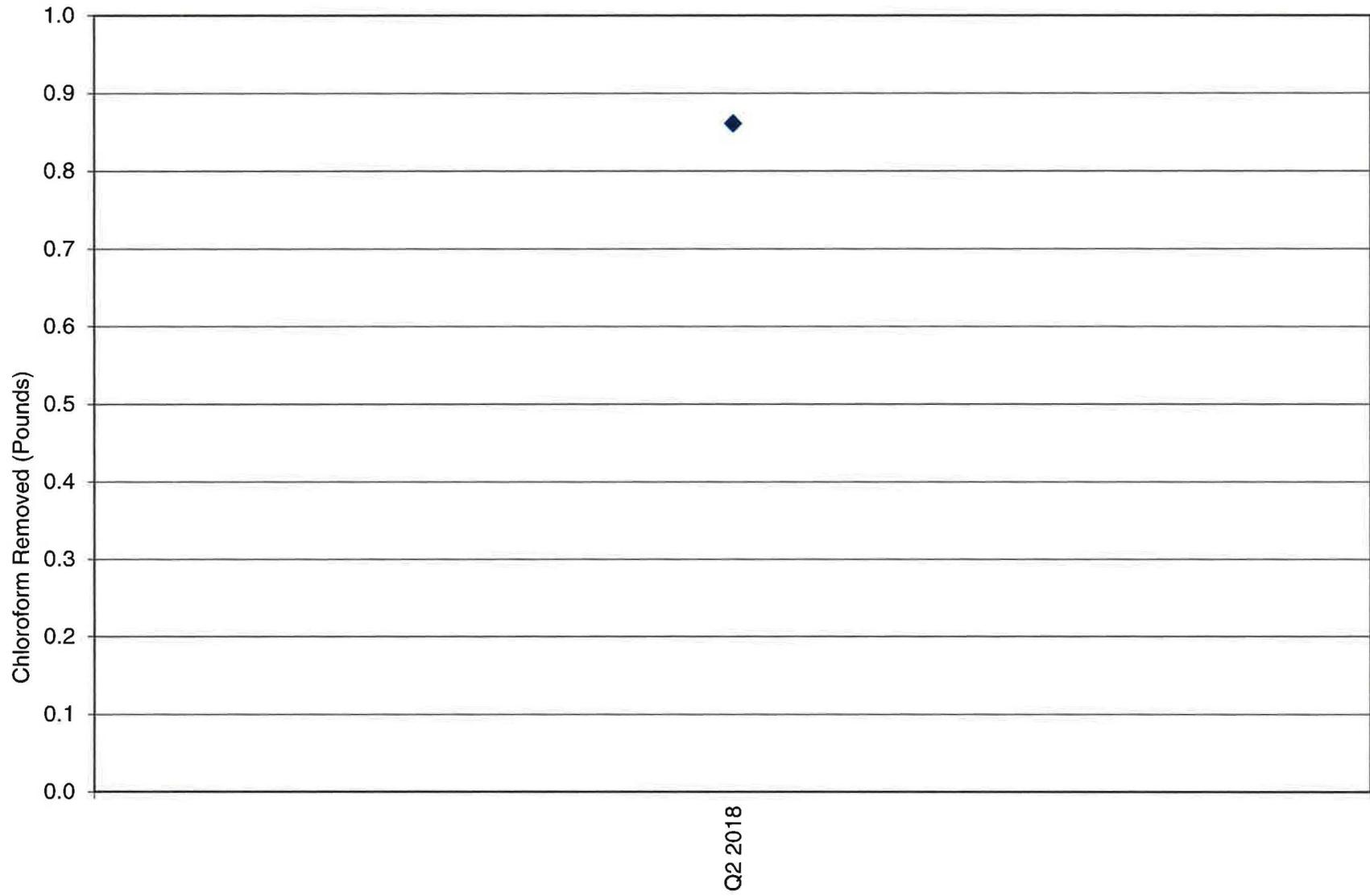
TW4-37 Mass of Chloroform Removed by Quarter (lbs.)



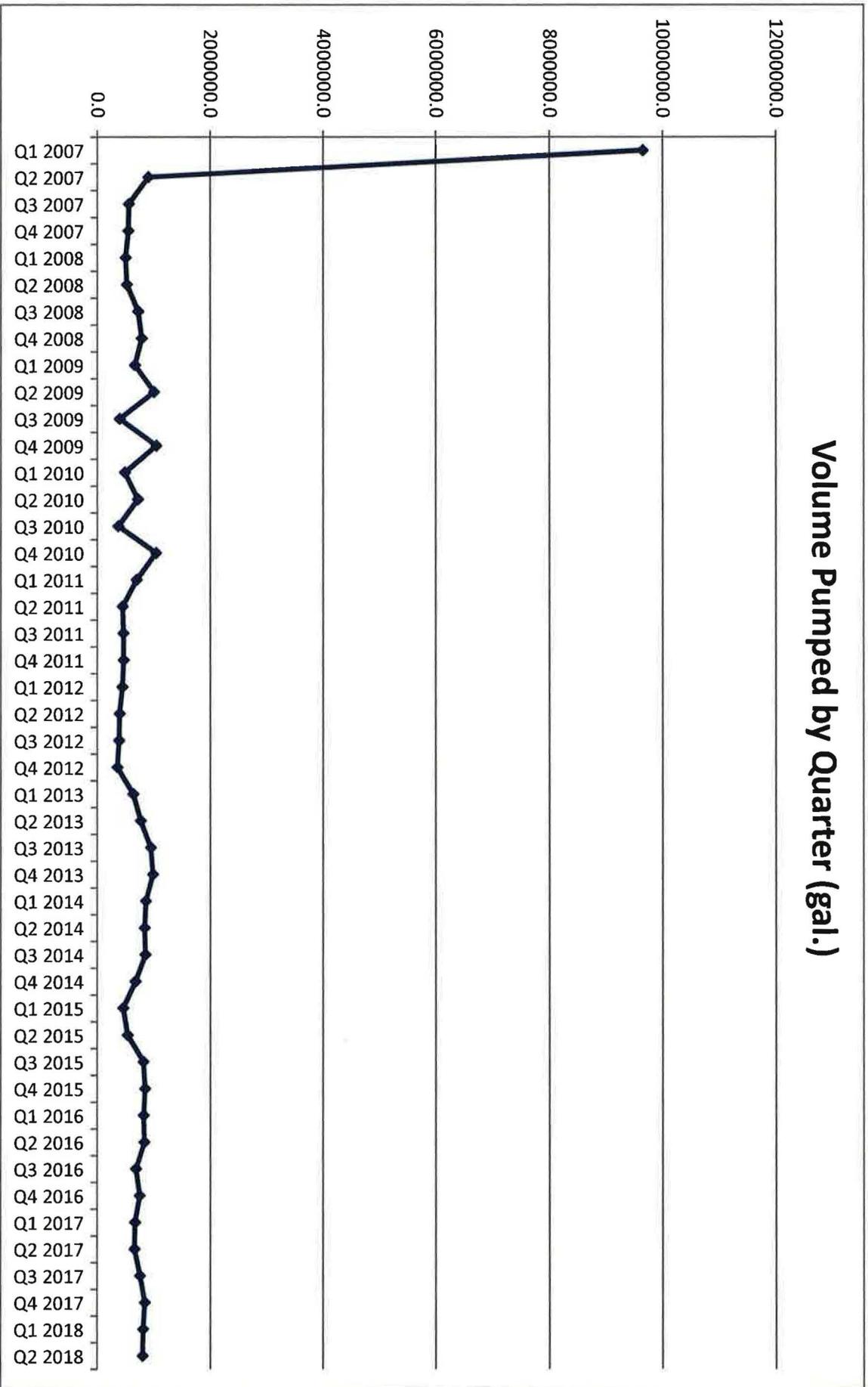
TW4-39 Mass of Chloroform Removed by Quarter (lbs.)



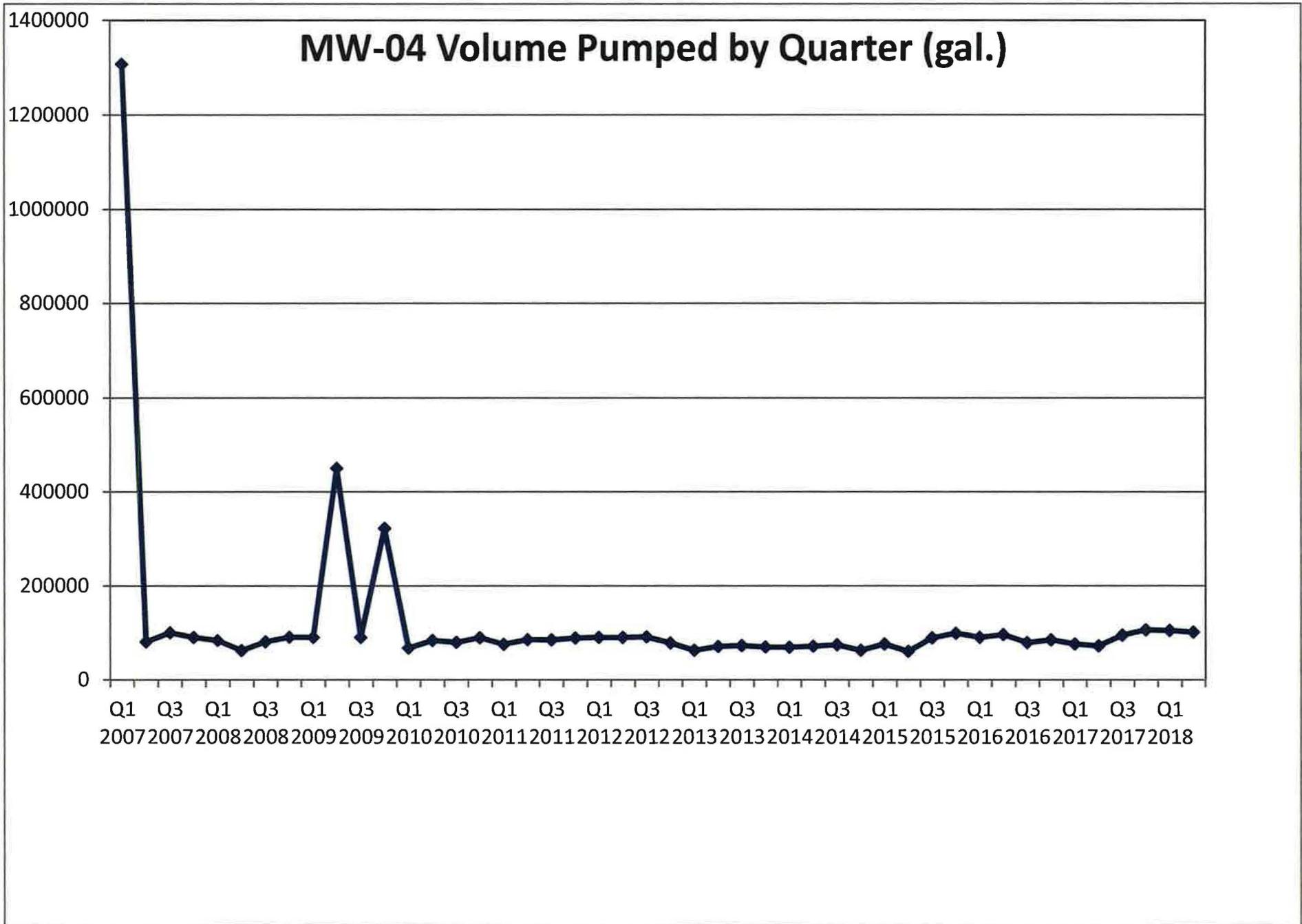
TW4-41 Mass of Chloroform Removed by Quarter (lbs.)



Volume Pumped by Quarter (gal.)

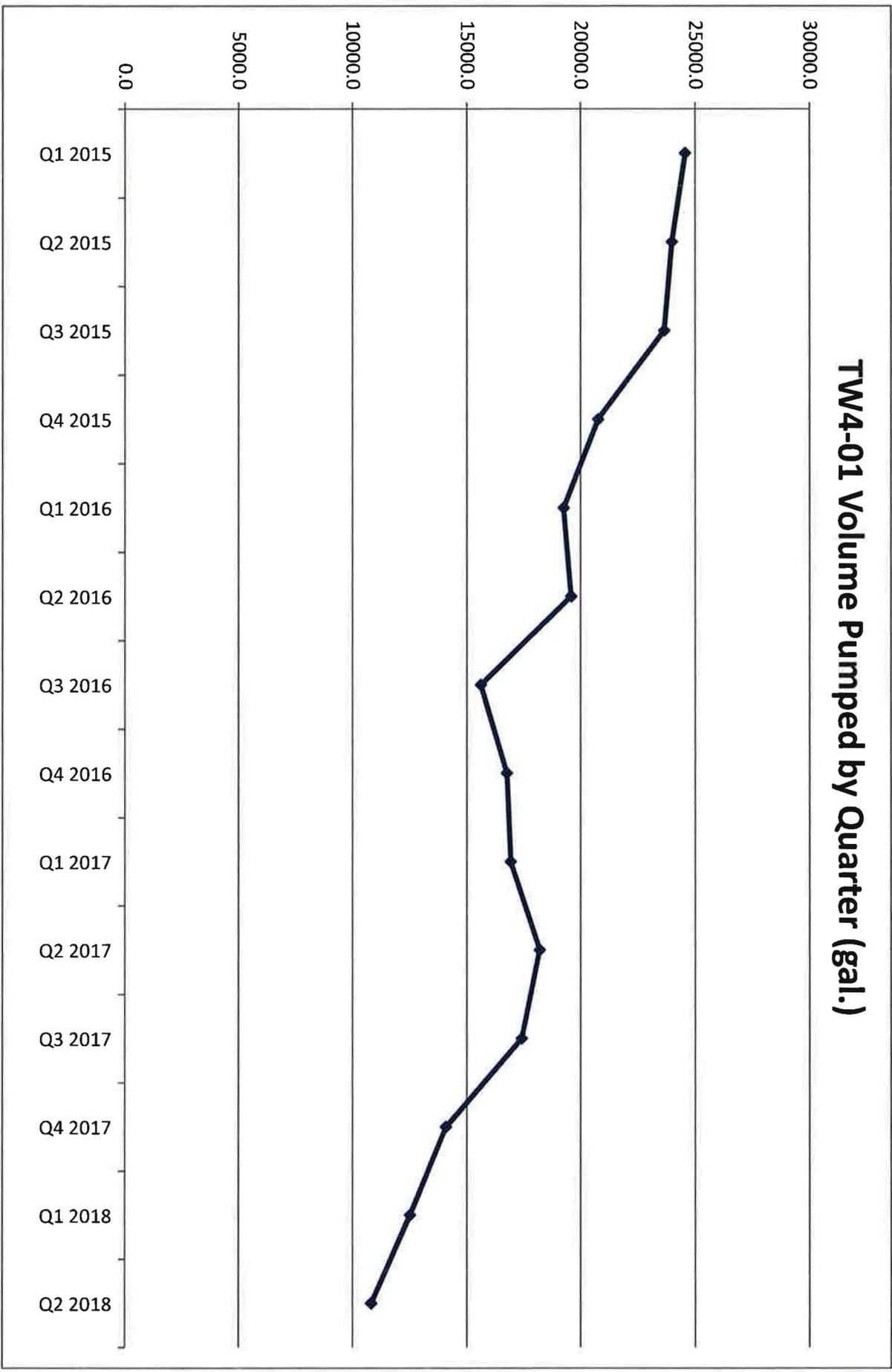


Q1 2007 represents the cumulative total prior to and including Q1 2007.

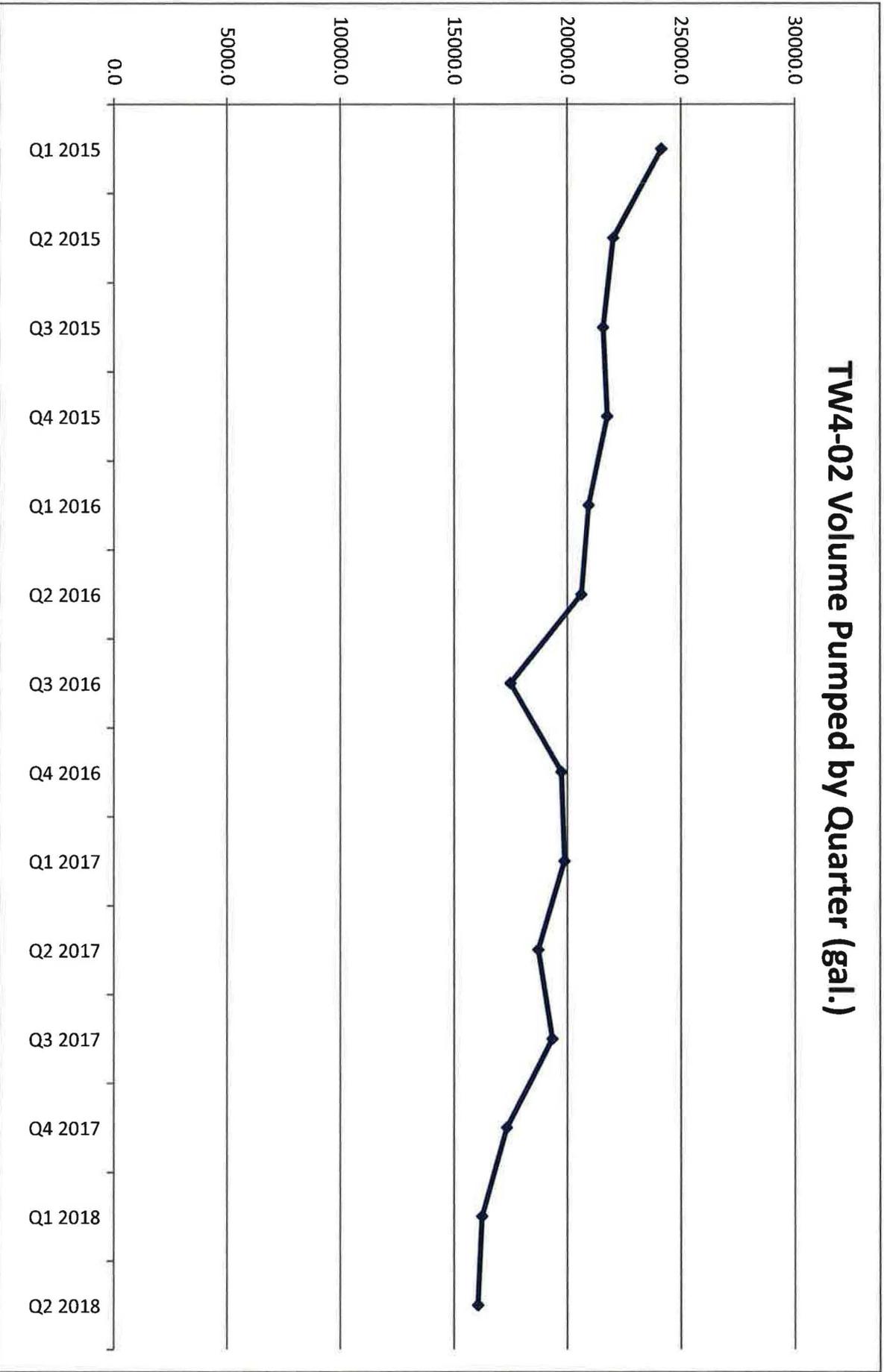


Q1 2007 represents the cumulative total prior to and including Q1 2007.

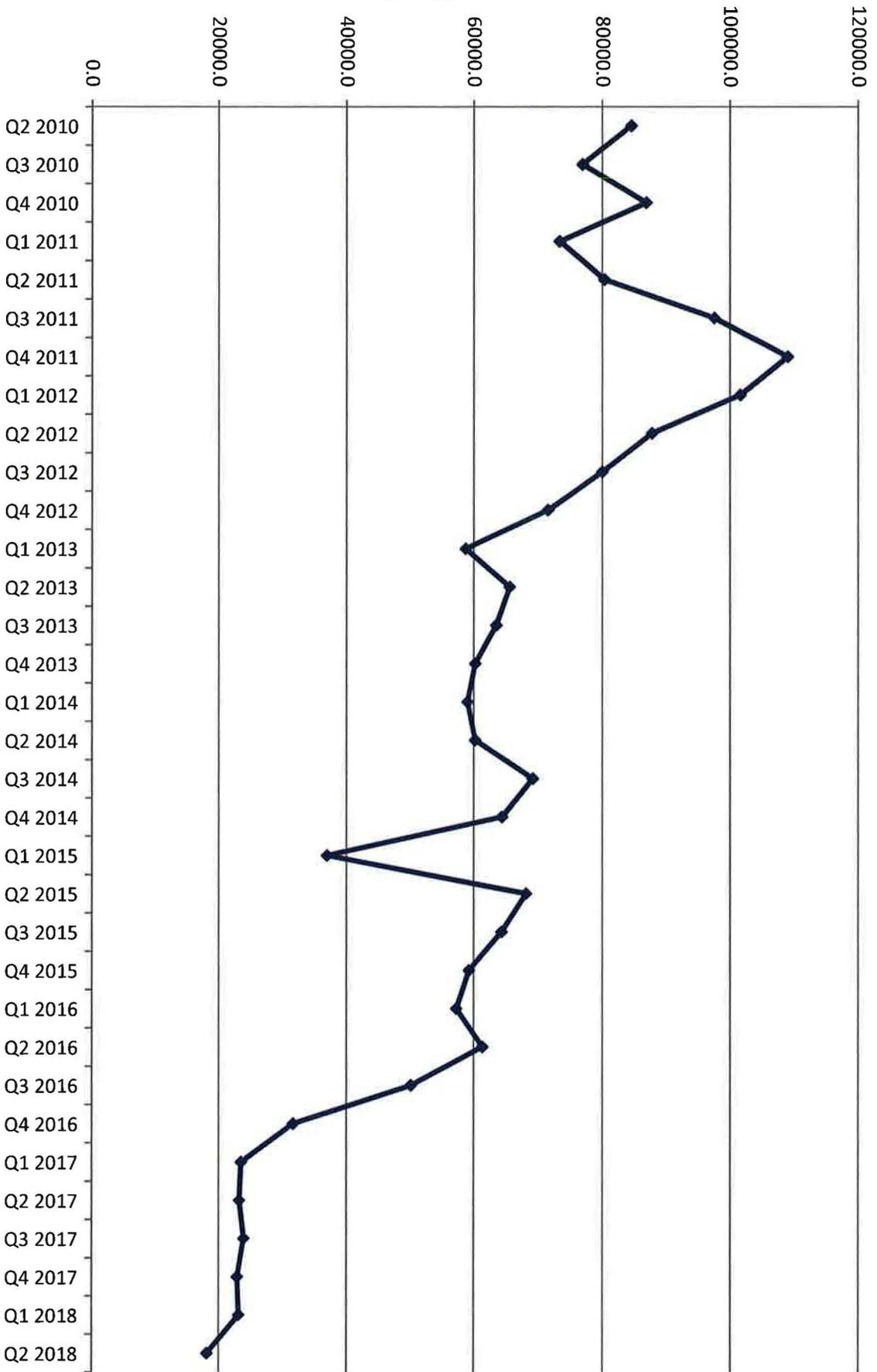
TW4-01 Volume Pumped by Quarter (gal.)



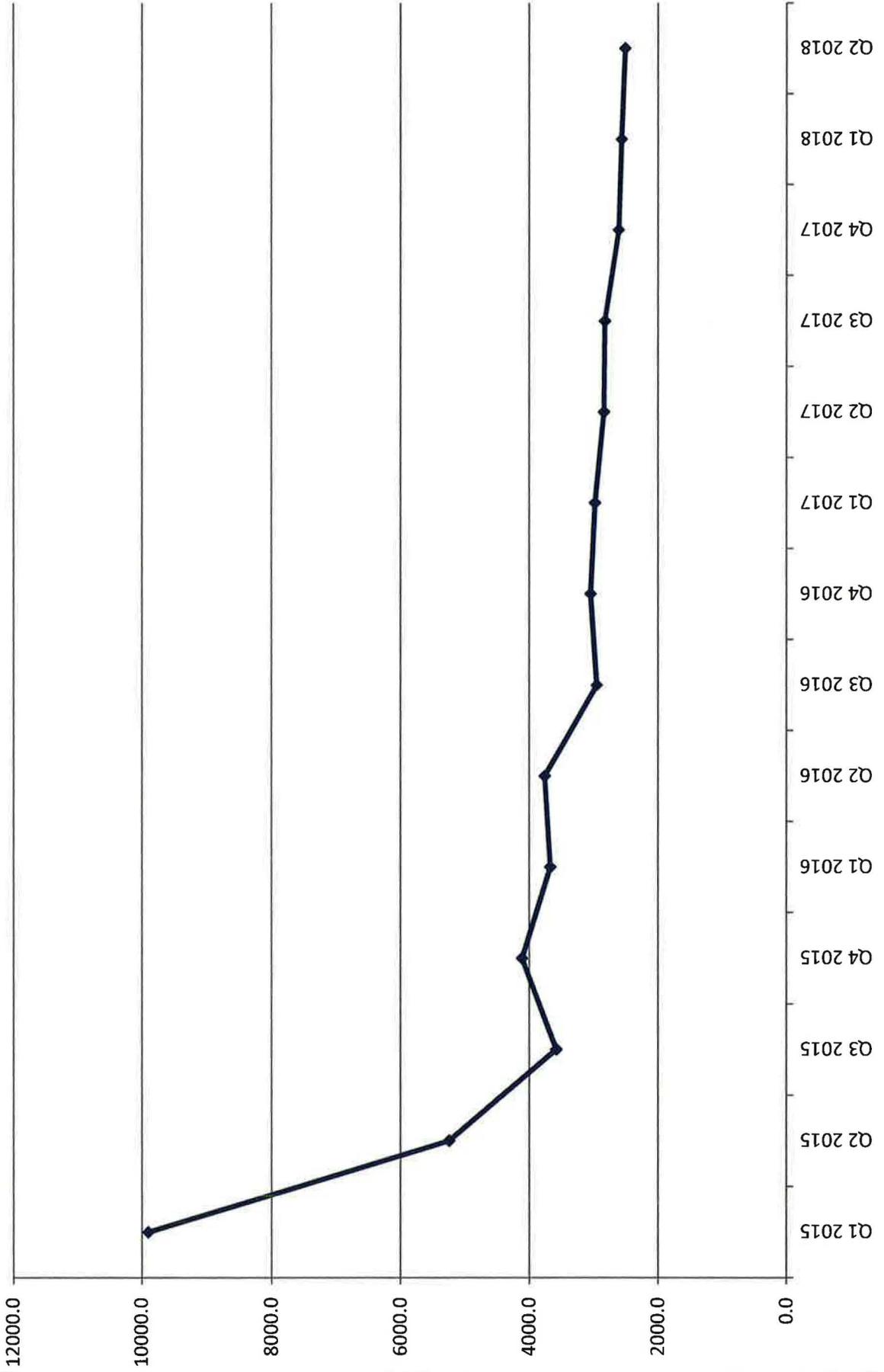
TW4-02 Volume Pumped by Quarter (gal.)



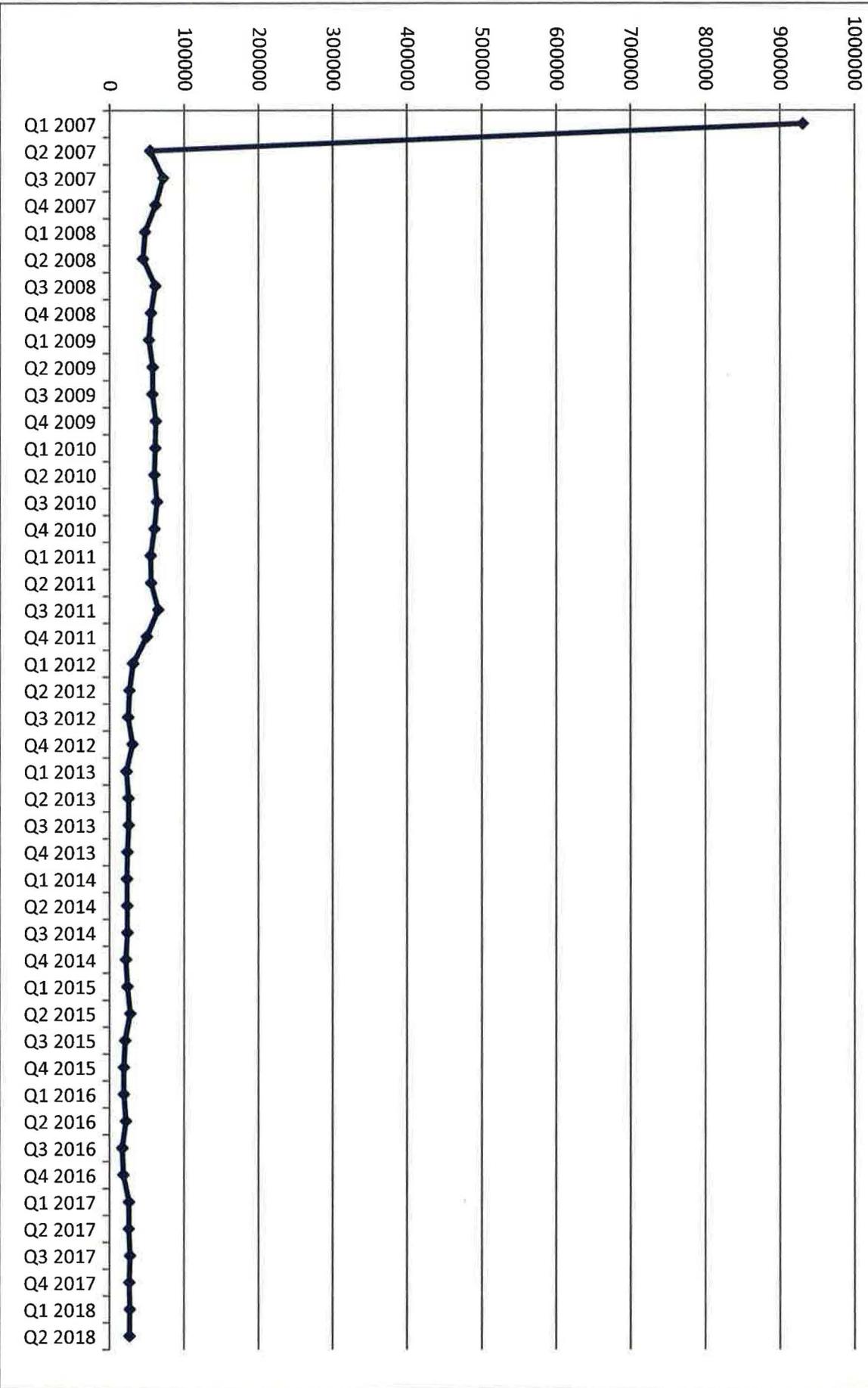
TW4-04 Volume Pumped by Quarter (gal.)



TW4-11 Volume Pumped by Quarter (gal.)

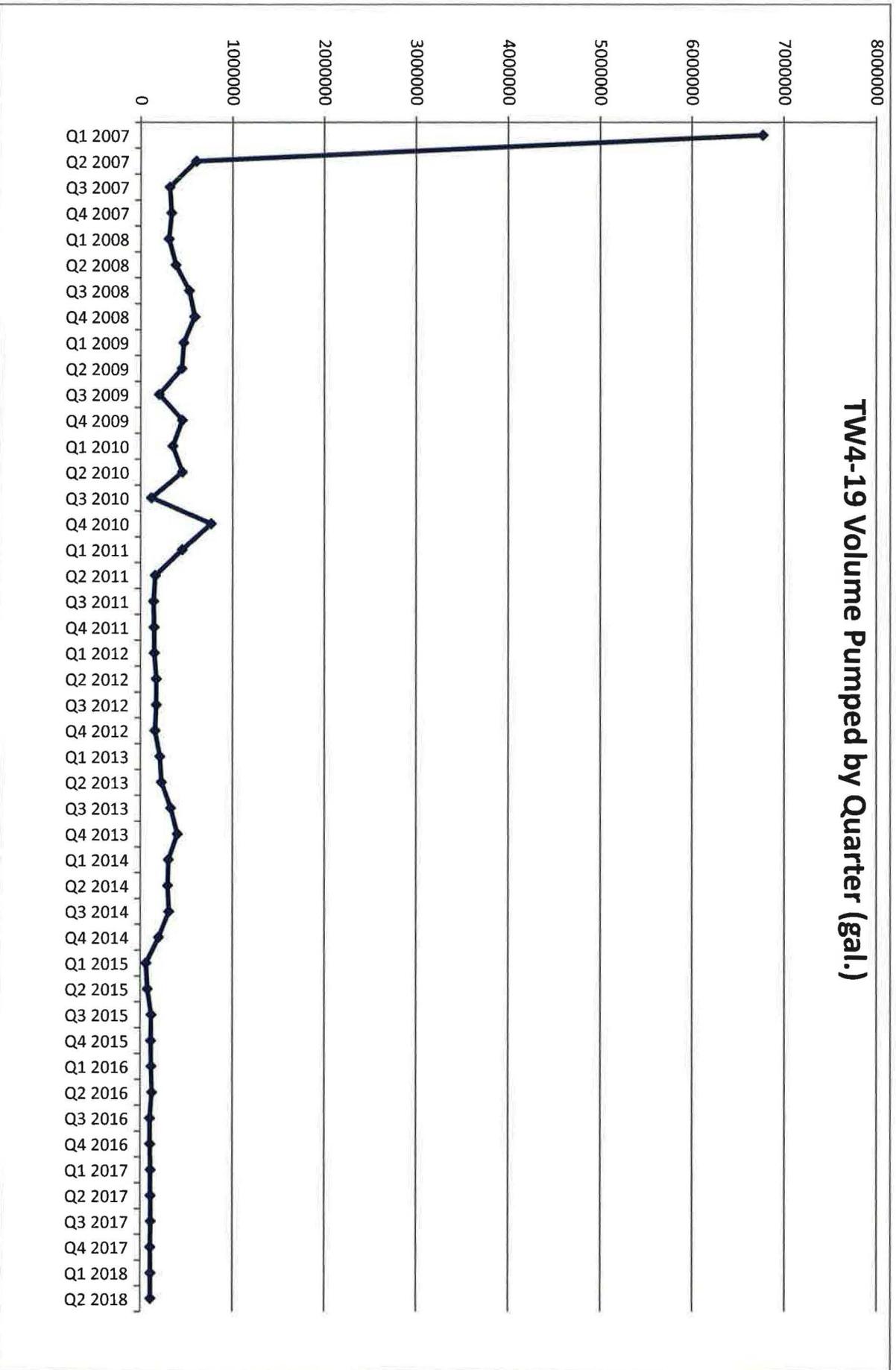


MW-26 Volume Pumped by Quarter (gal.)



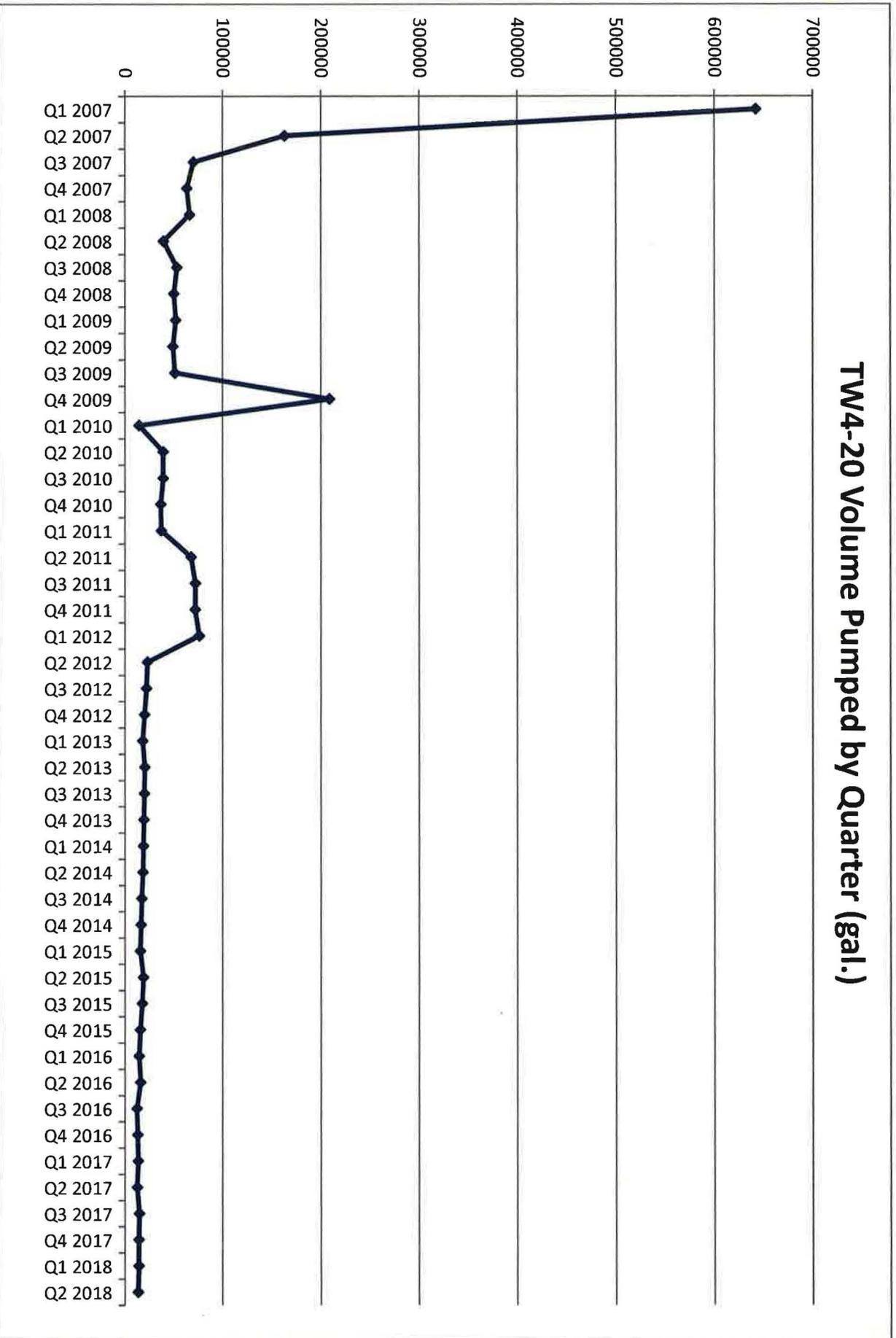
Q1 2007 represents the cumulative total prior to and including Q1 2007.

TW4-19 Volume Pumped by Quarter (gal.)



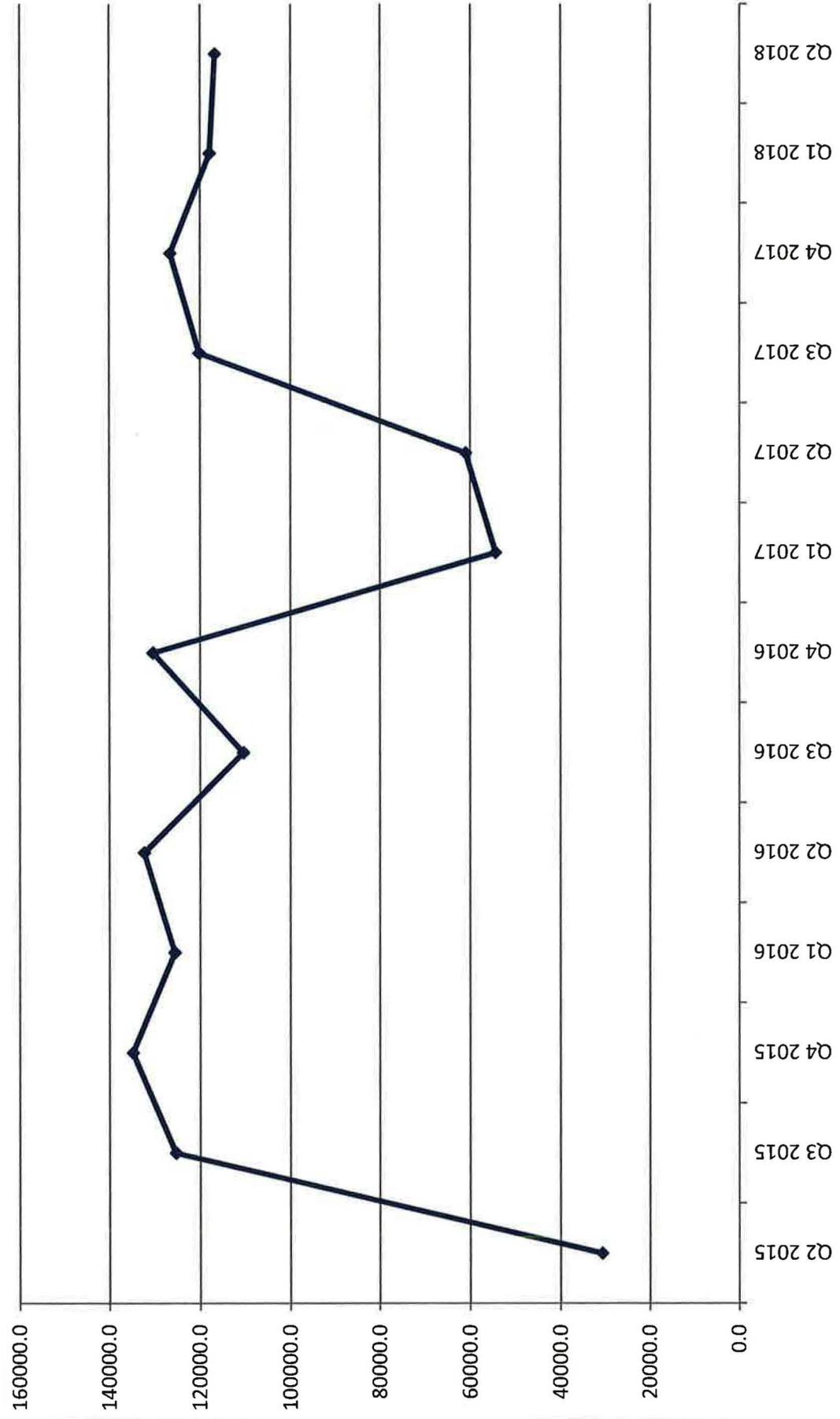
Q1 2007 represents the cumulative total prior to and including Q1 2007.

TW4-20 Volume Pumped by Quarter (gal.)

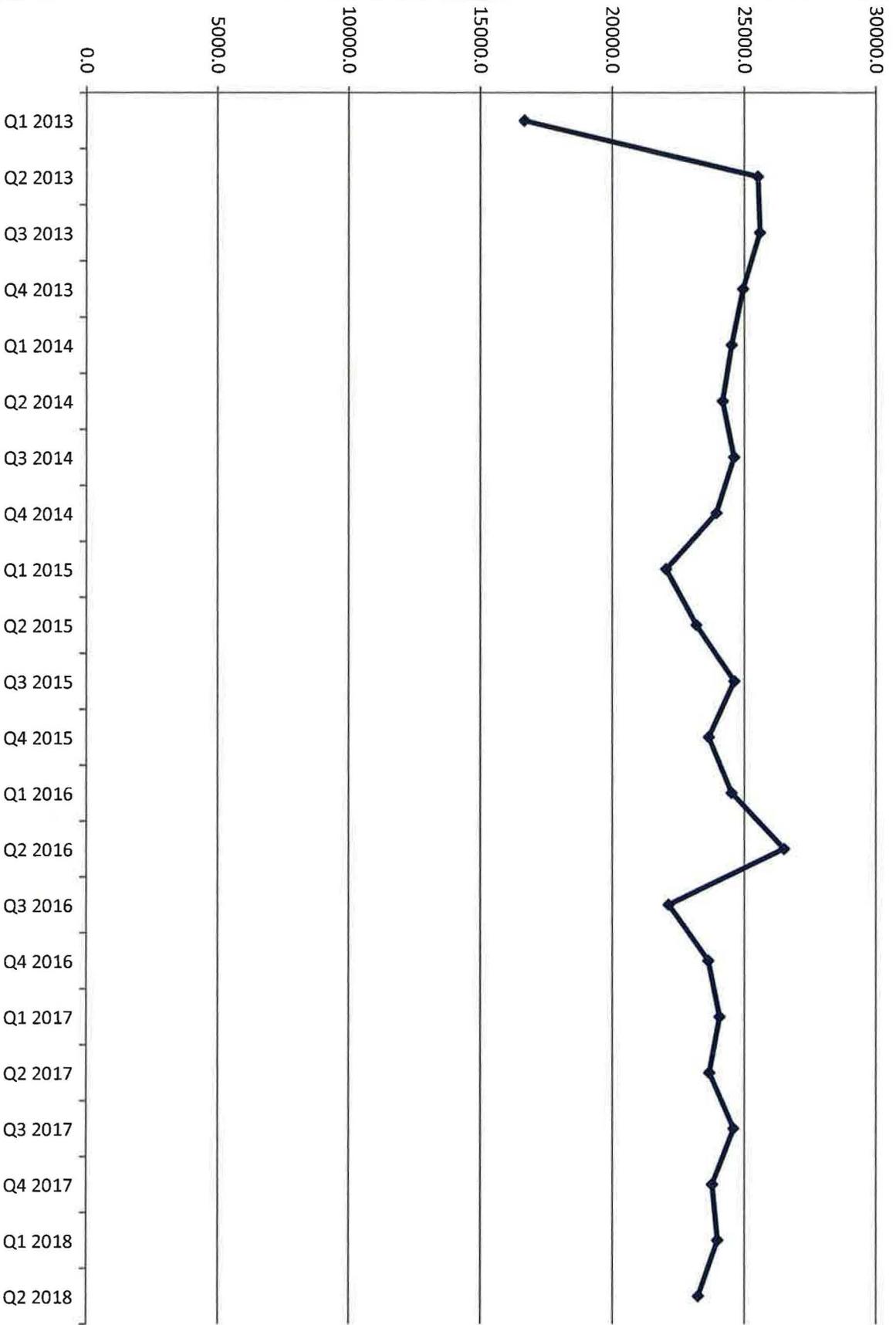


Q1 2007 represents the cumulative total prior to and including Q1 2007.

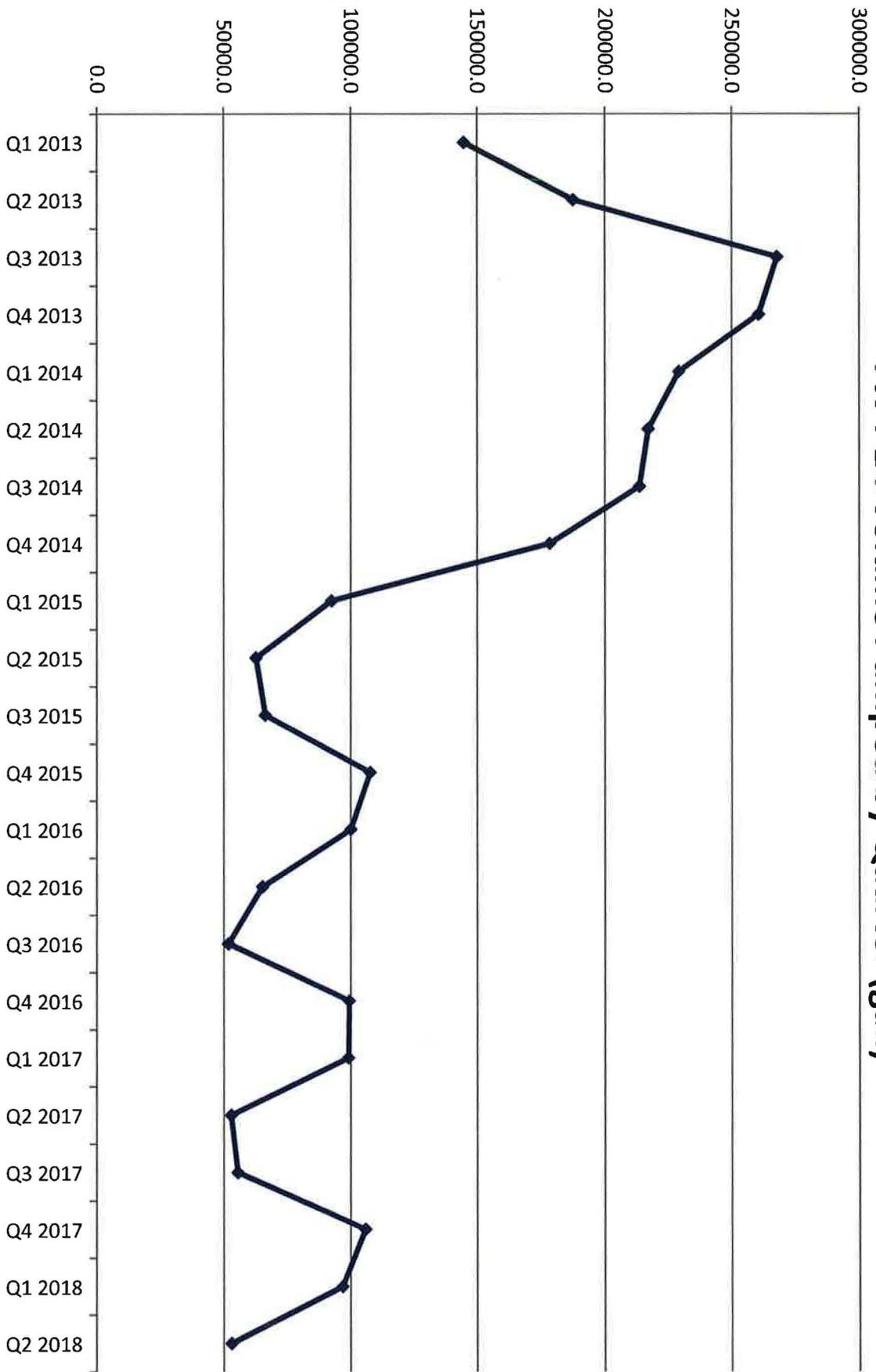
TW4-21 Volume Pumped by Quarter (gal.)



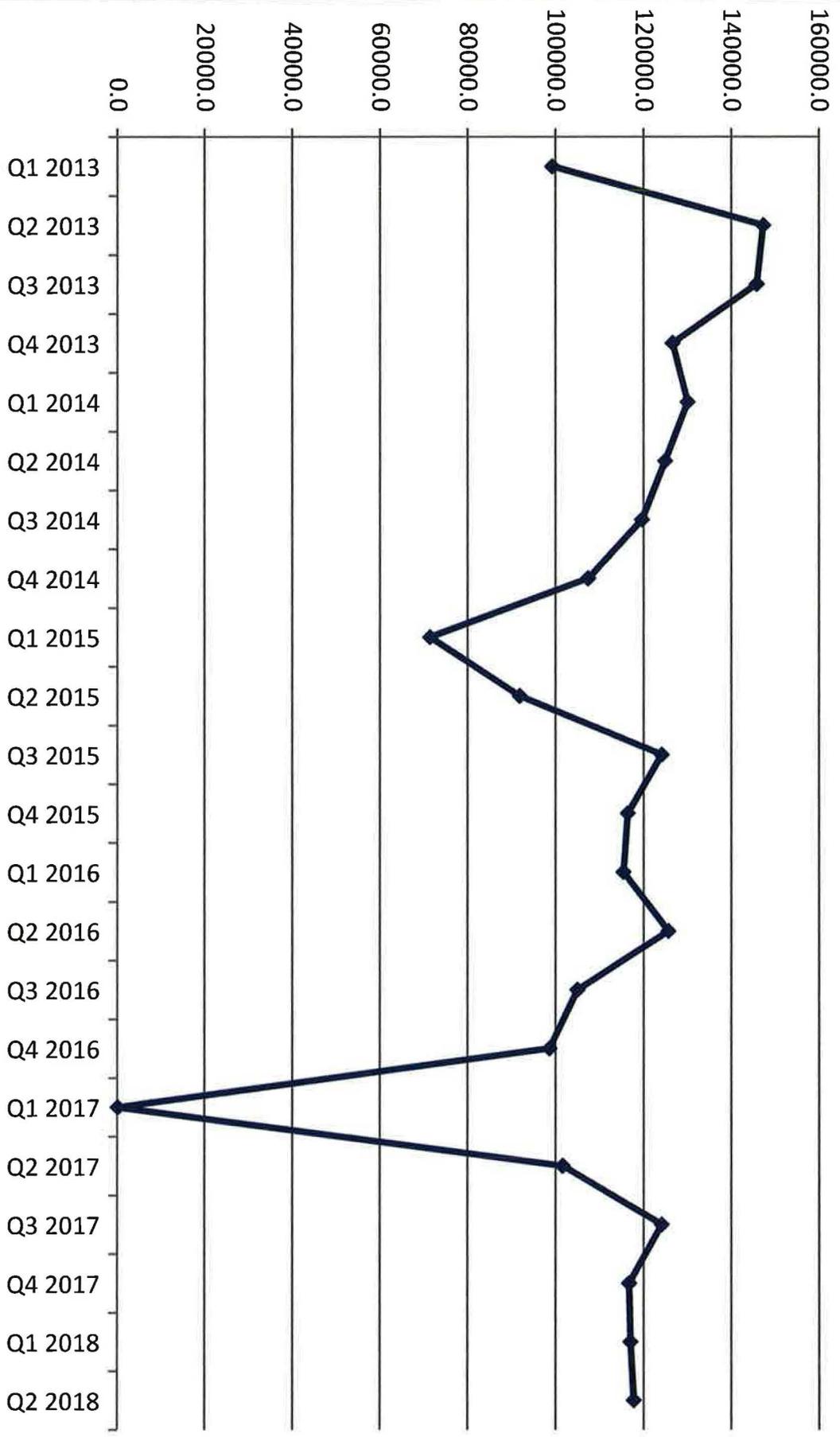
TW4-22 Volume Pumped by Quarter (gal.)



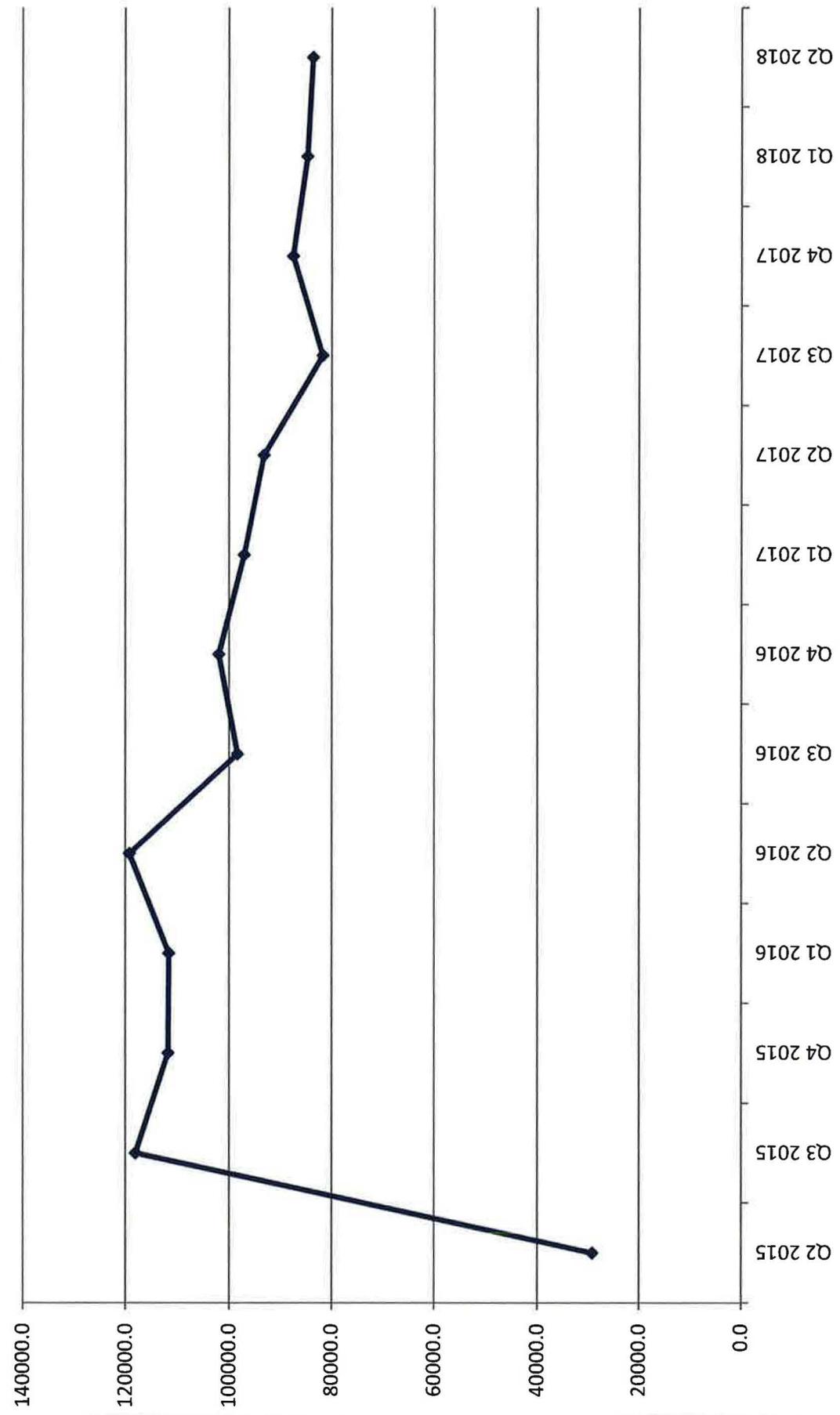
TW4-24 Volume Pumped by Quarter (gal.)



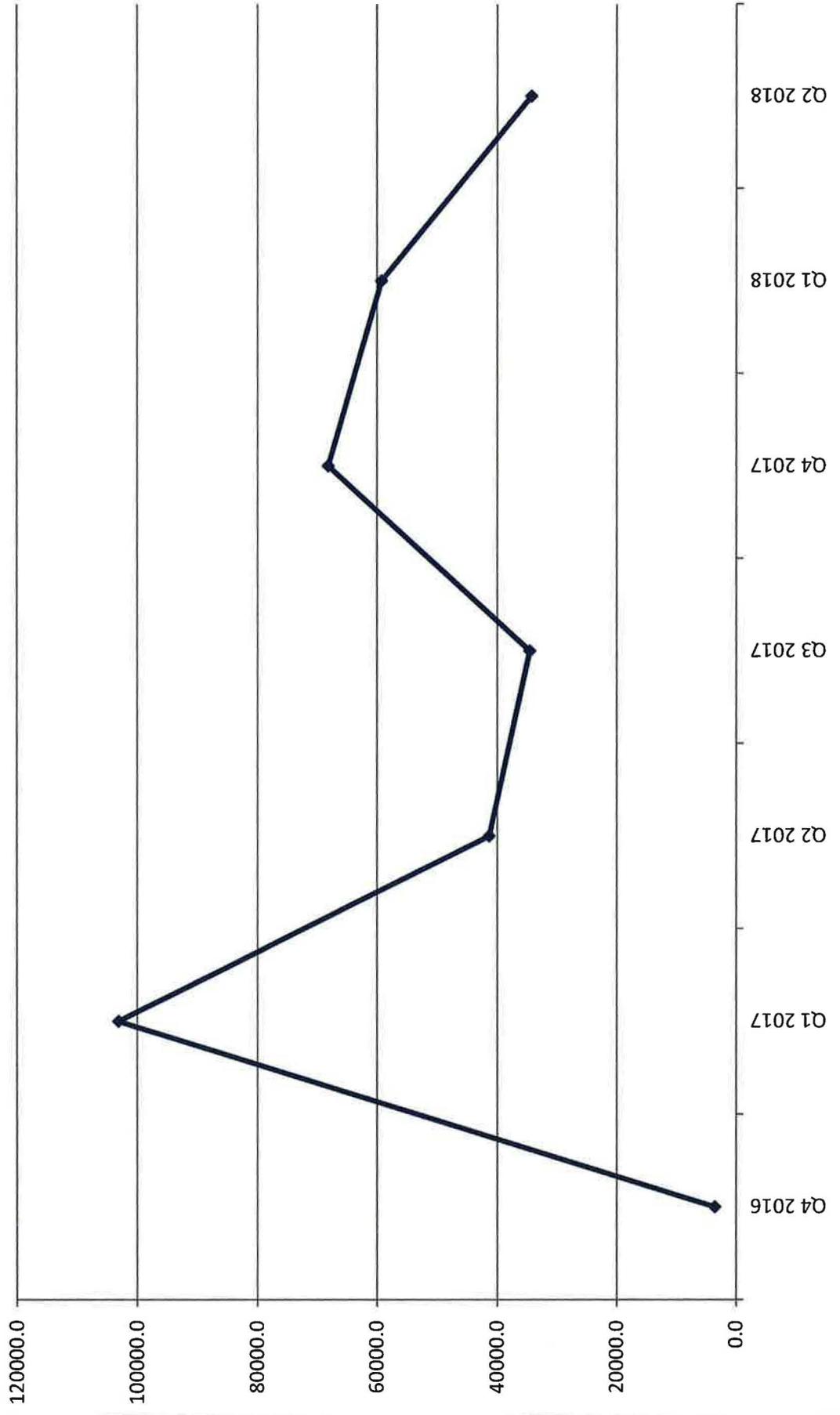
TW4-25 Volume Pumped by Quarter (gal.)



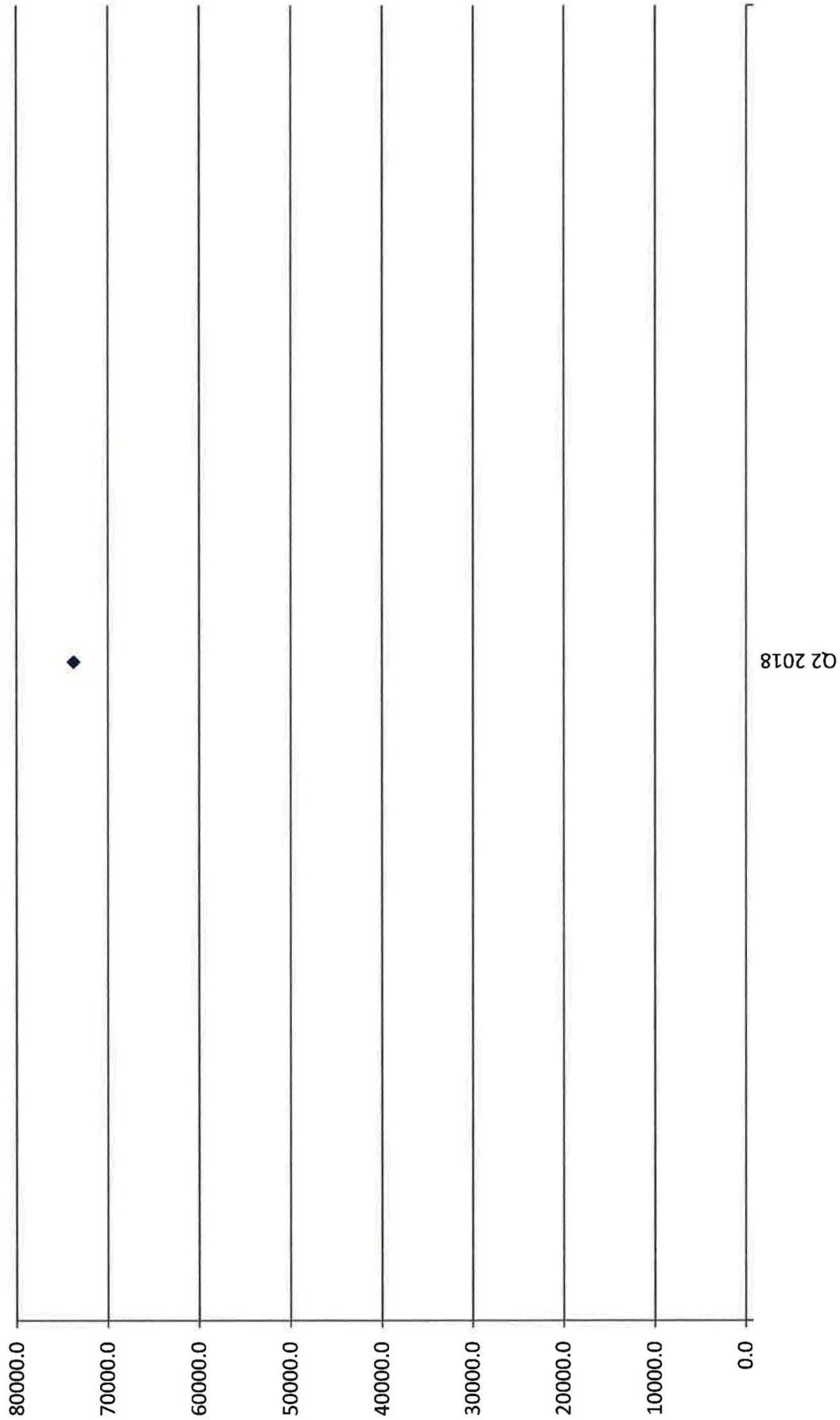
TW4-37 Volume Pumped by Quarter (gal.)



TW4-39 Volume Pumped by Quarter (gal.)



TW4-41 Volume Pumped by Quarter (gal.)



Tab H

Laboratory Analytical Reports



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 2nd Quarter Chloroform 2018
Lab Sample ID: 1806233-008C
Client Sample ID: MW-04_06082018
Collection Date: 6/8/2018 1300h
Received Date: 6/12/2018 1015h

Contact: Garrin Palmer

Test Code: 8260-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/13/2018 1824h

Units: µg/L **Dilution Factor:** 50 **Method:** SW8260C

3440 South 700 West
Salt Lake City, UT 84119

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	50.0	1,240	~

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	2,190	2,500	87.7	72-151	
Surr: 4-Bromofluorobenzene		460-00-4	2,740	2,500	110	80-152	
Surr: Dibromofluoromethane		1868-53-7	2,240	2,500	89.7	72-135	
Surr: Toluene-d8		2037-26-5	2,690	2,500	107	80-124	

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

Analyzed: 6/13/2018 050h

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

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 e-mail: awal@awal-labs.com

web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

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

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	44.2	50.00	88.4	72-151	
Surr: 4-Bromofluorobenzene		460-00-4	49.0	50.00	98.1	80-152	
Surr: Dibromofluoromethane		1868-53-7	47.2	50.00	94.5	72-135	
Surr: Toluene-d8		2037-26-5	48.0	50.00	95.9	80-124	



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 2nd Quarter Chloroform 2018
Lab Sample ID: 1806233-008
Client Sample ID: MW-04_06082018
Collection Date: 6/8/2018 1300h
Received Date: 6/12/2018 1015h

Contact: Garrin Palmer

Analytical Results

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Chloride	mg/L		6/14/2018 2050h	E300.0	10.0	43.5	
Nitrate/Nitrite (as N)	mg/L		6/13/2018 1748h	E353.2	0.100	4.64	

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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: 2nd Quarter Chloroform 2018
Lab Sample ID: 1806233-003C
Client Sample ID: TW4-01_06082018
Collection Date: 6/8/2018 1307h
Received Date: 6/12/2018 1015h

Test Code: 8260-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/12/2018 2053h

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

Compound	CAS Number	Reporting Limit	Analytical Result	Qual			
Chloroform	67-66-3	10.0	942	~			
Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	462	500.0	92.5	72-151	
Surr: 4-Bromofluorobenzene		460-00-4	544	500.0	109	80-152	~
Surr: Dibromofluoromethane		1868-53-7	491	500.0	98.2	72-135	
Surr: Toluene-d8		2037-26-5	524	500.0	105	80-124	

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

Analyzed: 6/12/2018 1914h

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	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	44.4	50.00	88.9	72-151	
Surr: 4-Bromofluorobenzene		460-00-4	53.2	50.00	106	80-152	
Surr: Dibromofluoromethane		1868-53-7	49.1	50.00	98.1	72-135	
Surr: Toluene-d8		2037-26-5	51.8	50.00	104	80-124	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 2nd Quarter Chloroform 2018
Lab Sample ID: 1806233-003
Client Sample ID: TW4-01_06082018
Collection Date: 6/8/2018 1307h
Received Date: 6/12/2018 1015h

Analytical Results

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Chloride	mg/L		6/14/2018 1457h	E300.0	10.0	42.0	
Nitrate/Nitrite (as N)	mg/L		6/13/2018 1736h	E353.2	0.100	4.38	

3440 South 700 West

Salt Lake City, UT 84119

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Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 2nd Quarter Chloroform 2018
Lab Sample ID: 1806233-005C
Client Sample ID: TW4-02_06082018
Collection Date: 6/8/2018 1252h
Received Date: 6/12/2018 1015h

Contact: Garrin Palmer

Test Code: 8260-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/13/2018 1724h

Units: µg/L **Dilution Factor:** 50 **Method:** SW8260C

3440 South 700 West
Salt Lake City, UT 84119

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	50.0	949	~

Phone: (801) 263-8686
 Toll Free: (888) 263-8686
 Fax: (801) 263-8687
 e-mail: awal@awal-labs.com

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	2,170	2,500	86.7	72-151	
Surr: 4-Bromofluorobenzene		460-00-4	2,740	2,500	109	80-152	
Surr: Dibromofluoromethane		1868-53-7	2,290	2,500	91.4	72-135	
Surr: Toluene-d8		2037-26-5	2,700	2,500	108	80-124	

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

Analyzed: 6/12/2018 2350h

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

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

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

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	47.0	50.00	94.0	72-151	
Surr: 4-Bromofluorobenzene		460-00-4	53.5	50.00	107	80-152	
Surr: Dibromofluoromethane		1868-53-7	49.9	50.00	99.7	72-135	
Surr: Toluene-d8		2037-26-5	51.5	50.00	103	80-124	



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 2nd Quarter Chloroform 2018
Lab Sample ID: 1806233-005
Client Sample ID: TW4-02_06082018
Collection Date: 6/8/2018 1252h
Received Date: 6/12/2018 1015h

Analytical Results

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Chloride	mg/L		6/14/2018 2000h	E300.0	10.0	41.3	
Nitrate/Nitrite (as N)	mg/L		6/13/2018 1742h	E353.2	0.100	3.50	

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Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 2nd Quarter Chloroform 2018
Lab Sample ID: 1806343-002C
Client Sample ID: TW4-03_06122018
Collection Date: 6/12/2018 657h
Received Date: 6/15/2018 900h

Contact: Garrin Palmer

Test Code: 8260-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/18/2018 1953h

Units: µg/L

Dilution Factor: 1

Method: SW8260C

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

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	53.1	50.00	106	72-151	
Surr: 4-Bromofluorobenzene		460-00-4	51.2	50.00	102	80-152	
Surr: Dibromofluoromethane		1868-53-7	45.3	50.00	90.6	72-135	
Surr: Toluene-d8		2037-26-5	50.0	50.00	100	80-124	

Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 2nd Quarter Chloroform 2018
Lab Sample ID: 1806343-002
Client Sample ID: TW4-03_06122018
Collection Date: 6/12/2018 657h
Received Date: 6/15/2018 900h

Analytical Results

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Chloride	mg/L		6/20/2018 1520h	E300.0	10.0	26.1	
Nitrate/Nitrite (as N)	mg/L		6/18/2018 934h	E353.2	0.100	6.52	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 2nd Quarter Chloroform 2018
Lab Sample ID: 1806343-001C
Client Sample ID: TW4-03R_06112018
Collection Date: 6/11/2018 1010h
Received Date: 6/15/2018 900h

Contact: Garrin Palmer

Test Code: 8260-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/18/2018 1933h

Units: µg/L

Dilution Factor: 1

Method: SW8260C

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

Surrogate	Units: µg/L	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	49.8	50.00	99.7	80-152	
Surr: Dibromofluoromethane		1868-53-7	45.9	50.00	91.8	72-135	
Surr: Toluene-d8		2037-26-5	49.2	50.00	98.4	80-124	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 2nd Quarter Chloroform 2018
Lab Sample ID: 1806343-001
Client Sample ID: TW4-03R_06112018
Collection Date: 6/11/2018 1010h
Received Date: 6/15/2018 900h

Contact: Garrin Palmer

Analytical Results

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Chloride	mg/L		6/21/2018 830h	E300.0	1.00	< 1.00	
Nitrate/Nitrite (as N)	mg/L		6/18/2018 933h	E353.2	0.100	< 0.100	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 2nd Quarter Chloroform 2018
Lab Sample ID: 1806233-006C
Client Sample ID: TW4-04_06082018
Collection Date: 6/8/2018 1320h
Received Date: 6/12/2018 1015h

Contact: Garrin Palmer

Test Code: 8260-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/13/2018 1744h

Units: µg/L **Dilution Factor:** 50 **Method:** SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	50.0	1,050	~

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Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	2,160	2,500	86.3	72-151	
Surr: 4-Bromofluorobenzene		460-00-4	2,690	2,500	108	80-152	
Surr: Dibromofluoromethane		1868-53-7	2,240	2,500	89.5	72-135	
Surr: Toluene-d8		2037-26-5	2,680	2,500	107	80-124	

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

web: www.awal-labs.com

Analyzed: 6/13/2018 010h

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

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

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	46.8	50.00	93.6	72-151	
Surr: 4-Bromofluorobenzene		460-00-4	54.0	50.00	108	80-152	
Surr: Dibromofluoromethane		1868-53-7	49.7	50.00	99.3	72-135	
Surr: Toluene-d8		2037-26-5	51.3	50.00	103	80-124	



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 2nd Quarter Chloroform 2018
Lab Sample ID: 1806233-006
Client Sample ID: TW4-04_06082018
Collection Date: 6/8/2018 1320h
Received Date: 6/12/2018 1015h

Contact: Garrin Palmer

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		6/14/2018 2017h	E300.0	10.0	39.0	
Nitrate/Nitrite (as N)	mg/L		6/13/2018 1743h	E353.2	0.100	6.34	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 2nd Quarter Chloroform 2018
Lab Sample ID: 1806343-017C
Client Sample ID: TW4-05_06132018
Collection Date: 6/13/2018 746h
Received Date: 6/15/2018 900h

Contact: Garrin Palmer

Test Code: 8260-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/19/2018 049h

Units: µg/L

Dilution Factor: 1

Method: SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	13.9	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	54.4	50.00	109	72-151	
Surr: 4-Bromofluorobenzene		460-00-4	49.4	50.00	98.7	80-152	
Surr: Dibromofluoromethane		1868-53-7	44.7	50.00	89.4	72-135	
Surr: Toluene-d8		2037-26-5	49.2	50.00	98.5	80-124	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 2nd Quarter Chloroform 2018
Lab Sample ID: 1806343-017
Client Sample ID: TW4-05_06132018
Collection Date: 6/13/2018 746h
Received Date: 6/15/2018 900h

Analytical Results

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Chloride	mg/L		6/20/2018 2147h	E300.0	10.0	47.4	
Nitrate/Nitrite (as N)	mg/L		6/18/2018 1002h	E353.2	0.100	9.24	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 2nd Quarter Chloroform 2018
Lab Sample ID: 1806343-022C
Client Sample ID: TW4-06_06142018
Collection Date: 6/14/2018 820h
Received Date: 6/15/2018 900h

Contact: Garrin Palmer

Test Code: 8260-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/18/2018 2013h

Units: µg/L

Dilution Factor: 1

Method: SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	74.9	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	51.6	50.00	103	72-151	
Surr: 4-Bromofluorobenzene		460-00-4	52.5	50.00	105	80-152	
Surr: Dibromofluoromethane		1868-53-7	50.8	50.00	102	72-135	
Surr: Toluene-d8		2037-26-5	50.6	50.00	101	80-124	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 2nd Quarter Chloroform 2018
Lab Sample ID: 1806343-022
Client Sample ID: TW4-06_06142018
Collection Date: 6/14/2018 820h
Received Date: 6/15/2018 900h

Contact: Garrin Palmer

Analytical Results

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Chloride	mg/L		6/20/2018 2345h	E300.0	10.0	40.2	
Nitrate/Nitrite (as N)	mg/L		6/18/2018 1010h	E353.2	0.100	1.48	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 2nd Quarter Chloroform 2018
Lab Sample ID: 1806343-023C
Client Sample ID: TW4-06R_06132018
Collection Date: 6/13/2018 845h
Received Date: 6/15/2018 900h

Contact: Garrin Palmer

Test Code: 8260-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/18/2018 2032h

Units: µg/L

Dilution Factor: 1

Method: SW8260C

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

Surrogate	Units: µg/L	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	52.8	50.00	106	80-152	
Surr: Dibromofluoromethane		1868-53-7	50.7	50.00	101	72-135	
Surr: Toluene-d8		2037-26-5	50.8	50.00	102	80-124	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 2nd Quarter Chloroform 2018
Lab Sample ID: 1806343-023
Client Sample ID: TW4-06R_06132018
Collection Date: 6/13/2018 845h
Received Date: 6/15/2018 900h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		6/21/2018 847h	E300.0	1.00	< 1.00	
Nitrate/Nitrite (as N)	mg/L		7/9/2018 1628h	E353.2	0.100	< 0.100	^

^ - Reissue of a previously generated report. Information has been added, updated, or revised. Information herein supersedes that of the previously issued reports.

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 2nd Quarter Chloroform 2018
Lab Sample ID: 1806343-029C
Client Sample ID: TW4-07_06142018
Collection Date: 6/14/2018 912h
Received Date: 6/15/2018 900h Test Code: 8260-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/19/2018 1311h

Units: µg/L **Dilution Factor:** 20 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	20.0	751	~

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	1,080	1,000	108	72-151	
Surr: 4-Bromofluorobenzene		460-00-4	1,080	1,000	108	80-152	
Surr: Dibromofluoromethane		1868-53-7	1,030	1,000	103	72-135	
Surr: Toluene-d8		2037-26-5	1,040	1,000	104	80-124	

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

Analyzed: 6/18/2018 2229h

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	Units: µg/L	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	53.3	50.00	107	80-152	
Surr: Dibromofluoromethane		1868-53-7	51.6	50.00	103	72-135	
Surr: Toluene-d8		2037-26-5	51.3	50.00	103	80-124	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 2nd Quarter Chloroform 2018
Lab Sample ID: 1806343-029
Client Sample ID: TW4-07_06142018
Collection Date: 6/14/2018 912h
Received Date: 6/15/2018 900h

Analytical Results

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Chloride	mg/L		6/21/2018 250h	E300.0	10.0	41.5	
Nitrate/Nitrite (as N)	mg/L		6/18/2018 1023h	E353.2	0.100	4.45	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 2nd Quarter Chloroform 2018
Lab Sample ID: 1806343-026C
Client Sample ID: TW4-08_06142018
Collection Date: 6/14/2018 847h
Received Date: 6/15/2018 900h

Contact: Garrin Palmer

Test Code: 8260-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/18/2018 2130h

Units: µg/L

Dilution Factor: 1

Method: SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	155	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate	Units: µg/L	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	52.7	50.00	105	80-152	
Surr: Dibromofluoromethane		1868-53-7	51.0	50.00	102	72-135	
Surr: Toluene-d8		2037-26-5	51.2	50.00	102	80-124	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 2nd Quarter Chloroform 2018
Lab Sample ID: 1806343-026
Client Sample ID: TW4-08_06142018
Collection Date: 6/14/2018 847h
Received Date: 6/15/2018 900h

Contact: Garrin Palmer

Analytical Results

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Chloride	mg/L		6/21/2018 200h	E300.0	10.0	53.8	
Nitrate/Nitrite (as N)	mg/L		6/18/2018 1020h	E353.2	0.100	1.31	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 2nd Quarter Chloroform 2018
Lab Sample ID: 1806343-024C
Client Sample ID: TW4-09_06142018
Collection Date: 6/14/2018 831h
Received Date: 6/15/2018 900h

Contact: Garrin Palmer

Test Code: 8260-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/18/2018 2052h

Units: µg/L

Dilution Factor: 1

Method: SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	134	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	52.2	50.00	104	72-151	
Surr: 4-Bromofluorobenzene		460-00-4	52.3	50.00	105	80-152	
Surr: Dibromofluoromethane		1868-53-7	51.1	50.00	102	72-135	
Surr: Toluene-d8		2037-26-5	50.9	50.00	102	80-124	

Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 2nd Quarter Chloroform 2018
Lab Sample ID: 1806343-024
Client Sample ID: TW4-09_06142018
Collection Date: 6/14/2018 831h
Received Date: 6/15/2018 900h

Contact: Garrin Palmer

Analytical Results

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Chloride	mg/L		6/21/2018 126h	E300.0	10.0	35.7	
Nitrate/Nitrite (as N)	mg/L		6/18/2018 1017h	E353.2	0.100	1.85	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 2nd Quarter Chloroform 2018
Lab Sample ID: 1806343-031C
Client Sample ID: TW4-10_06142018
Collection Date: 6/14/2018 1001h
Received Date: 6/15/2018 900h

Contact: Garrin Palmer

Test Code: 8260-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/18/2018 1834h

Units: µg/L **Dilution Factor:** 100 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual			
Chloroform	67-66-3	100	914	~			
Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	5,190	5,000	104	72-151	
Surr: 4-Bromofluorobenzene		460-00-4	5,130	5,000	103	80-152	
Surr: Dibromofluoromethane		1868-53-7	4,500	5,000	90.0	72-135	
Surr: Toluene-d8		2037-26-5	4,950	5,000	99.0	80-124	

Analyzed: 6/19/2018 129h

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	Units: µg/L	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	51.9	50.00	104	80-152	
Surr: Dibromofluoromethane		1868-53-7	48.5	50.00	97.0	72-135	
Surr: Toluene-d8		2037-26-5	49.0	50.00	98.1	80-124	

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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 ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 2nd Quarter Chloroform 2018
Lab Sample ID: 1806343-031
Client Sample ID: TW4-10_06142018
Collection Date: 6/14/2018 1001h
Received Date: 6/15/2018 900h

Analytical Results

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Chloride	mg/L		6/21/2018 433h	E300.0	10.0	64.5	
Nitrate/Nitrite (as N)	mg/L		6/18/2018 1028h	E353.2	0.100	11.2	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 2nd Quarter Chloroform 2018
Lab Sample ID: 1806233-011C
Client Sample ID: TW4-11_06082018
Collection Date: 6/8/2018 1244h
Received Date: 6/12/2018 1015h

Contact: Garrin Palmer

Test Code: 8260-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/13/2018 1923h

Units: µg/L **Dilution Factor:** 50 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	50.0	2,800	~

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	2,160	2,500	86.4	72-151	
Surr: 4-Bromofluorobenzene		460-00-4	2,580	2,500	103	80-152	
Surr: Dibromofluoromethane		1868-53-7	2,190	2,500	87.7	72-135	
Surr: Toluene-d8		2037-26-5	2,660	2,500	106	80-124	

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

Analyzed: 6/13/2018 149h

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

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	1.34	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	48.0	50.00	96.1	72-151	
Surr: 4-Bromofluorobenzene		460-00-4	55.0	50.00	110	80-152	
Surr: Dibromofluoromethane		1868-53-7	51.4	50.00	103	72-135	
Surr: Toluene-d8		2037-26-5	52.1	50.00	104	80-124	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 2nd Quarter Chloroform 2018
Lab Sample ID: 1806233-011
Client Sample ID: TW4-11_06082018
Collection Date: 6/8/2018 1244h
Received Date: 6/12/2018 1015h

Contact: Garrin Palmer

Analytical Results

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Chloride	mg/L		6/14/2018 2141h	E300.0	10.0	52.6	
Nitrate/Nitrite (as N)	mg/L		6/13/2018 1758h	E353.2	0.100	7.51	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 2nd Quarter Chloroform 2018
Lab Sample ID: 1806343-005C
Client Sample ID: TW4-12_06122018
Collection Date: 6/12/2018 723h
Received Date: 6/15/2018 900h

Contact: Garrin Palmer

Test Code: 8260-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/18/2018 2052h

Units: µg/L

Dilution Factor: 1

Method: SW8260C

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

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	53.6	50.00	107	72-151	
Surr: 4-Bromofluorobenzene		460-00-4	51.5	50.00	103	80-152	
Surr: Dibromofluoromethane		1868-53-7	44.7	50.00	89.5	72-135	
Surr: Toluene-d8		2037-26-5	50.1	50.00	100	80-124	

Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 2nd Quarter Chloroform 2018
Lab Sample ID: 1806343-005
Client Sample ID: TW4-12_06122018
Collection Date: 6/12/2018 723h
Received Date: 6/15/2018 900h

Contact: Garrin Palmer

Analytical Results

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Chloride	mg/L		6/20/2018 1644h	E300.0	10.0	53.6	
Nitrate/Nitrite (as N)	mg/L		6/18/2018 940h	E353.2	0.500	18.4	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 2nd Quarter Chloroform 2018
Lab Sample ID: 1806343-006C
Client Sample ID: TW4-13_06122018
Collection Date: 6/12/2018 730h
Received Date: 6/15/2018 900h

Contact: Garrin Palmer

Test Code: 8260-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/18/2018 2112h

Units: µg/L

Dilution Factor: 1

Method: SW8260C

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

Surrogate	Units: µg/L	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	51.6	50.00	103	80-152	
Surr: Dibromofluoromethane		1868-53-7	42.8	50.00	85.5	72-135	
Surr: Toluene-d8		2037-26-5	49.2	50.00	98.4	80-124	

Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 2nd Quarter Chloroform 2018
Lab Sample ID: 1806343-006
Client Sample ID: TW4-13_06122018
Collection Date: 6/12/2018 730h
Received Date: 6/15/2018 900h

Contact: Garrin Palmer

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		6/20/2018 1701h	E300.0	10.0	65.0	
Nitrate/Nitrite (as N)	mg/L		6/18/2018 941h	E353.2	0.100	6.24	

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Laboratory Director

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 2nd Quarter Chloroform 2018
Lab Sample ID: 1806343-015C
Client Sample ID: TW4-14_06132018
Collection Date: 6/13/2018 728h
Received Date: 6/15/2018 900h

Contact: Garrin Palmer

Test Code: 8260-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/19/2018 009h

Units: µg/L

Dilution Factor: 1

Method: SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	5.12	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate	Units: µg/L	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	51.2	50.00	102	80-152	
Surr: Dibromofluoromethane		1868-53-7	42.4	50.00	84.8	72-135	
Surr: Toluene-d8		2037-26-5	48.3	50.00	96.7	80-124	

Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 2nd Quarter Chloroform 2018
Lab Sample ID: 1806343-015
Client Sample ID: TW4-14_06132018
Collection Date: 6/13/2018 728h
Received Date: 6/15/2018 900h

Analytical Results

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Chloride	mg/L		6/20/2018 2113h	E300.0	10.0	46.9	
Nitrate/Nitrite (as N)	mg/L		6/18/2018 959h	E353.2	0.100	6.36	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 2nd Quarter Chloroform 2018
Lab Sample ID: 1806233-007C
Client Sample ID: MW-26_06082018
Collection Date: 6/8/2018 1235h
Received Date: 6/12/2018 1015h

Contact: Garrin Palmer

Test Code: 8260-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/13/2018 1804h

Units: µg/L **Dilution Factor:** 50 **Method:** SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	50.0	1,870	~

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Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	2,160	2,500	86.5	72-151	
Surr: 4-Bromofluorobenzene		460-00-4	2,590	2,500	104	80-152	
Surr: Dibromofluoromethane		1868-53-7	2,230	2,500	89.1	72-135	
Surr: Toluene-d8		2037-26-5	2,630	2,500	105	80-124	

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

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Analyzed: 6/13/2018 030h

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

Kyle F. Gross
Laboratory Director

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	9.19	

Jose Rocha
QA Officer

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	46.2	50.00	92.4	72-151	
Surr: 4-Bromofluorobenzene		460-00-4	52.6	50.00	105	80-152	
Surr: Dibromofluoromethane		1868-53-7	49.2	50.00	98.5	72-135	
Surr: Toluene-d8		2037-26-5	50.3	50.00	101	80-124	



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 2nd Quarter Chloroform 2018
Lab Sample ID: 1806233-007
Client Sample ID: MW-26_06082018
Collection Date: 6/8/2018 1235h
Received Date: 6/12/2018 1015h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		6/14/2018 2034h	E300.0	10.0	58.7	
Nitrate/Nitrite (as N)	mg/L		6/13/2018 1747h	E353.2	0.100	0.901	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 2nd Quarter Chloroform 2018
Lab Sample ID: 1806343-025C
Client Sample ID: TW4-16_06142018
Collection Date: 6/14/2018 841h
Received Date: 6/15/2018 900h

Contact: Garrin Palmer

Test Code: 8260-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/18/2018 2111h

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

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	54.5	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

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Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	50.0	50.00	100	72-151	
Surr: 4-Bromofluorobenzene		460-00-4	49.2	50.00	98.4	80-152	
Surr: Dibromofluoromethane		1868-53-7	48.8	50.00	97.6	72-135	
Surr: Toluene-d8		2037-26-5	48.8	50.00	97.7	80-124	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 2nd Quarter Chloroform 2018
Lab Sample ID: 1806343-025
Client Sample ID: TW4-16_06142018
Collection Date: 6/14/2018 841h
Received Date: 6/15/2018 900h

Contact: Garrin Palmer

Analytical Results

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Chloride	mg/L		6/21/2018 143h	E300.0	10.0	62.5	
Nitrate/Nitrite (as N)	mg/L		6/18/2018 1019h	E353.2	0.100	2.83	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 2nd Quarter Chloroform 2018
Lab Sample ID: 1806343-012C
Client Sample ID: MW-32_06142018
Collection Date: 6/14/2018 1300h
Received Date: 6/15/2018 900h

Contact: Garrin Palmer

Test Code: 8260-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/18/2018 2033h

Units: µg/L

Dilution Factor: 1

Method: SW8260C

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

Surrogate	Units: µg/L	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	52.5	50.00	105	80-152	
Surr: Dibromofluoromethane		1868-53-7	44.6	50.00	89.1	72-135	
Surr: Toluene-d8		2037-26-5	49.7	50.00	99.4	80-124	

Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 2nd Quarter Chloroform 2018
Lab Sample ID: 1806343-012
Client Sample ID: MW-32_06142018
Collection Date: 6/14/2018 1300h
Received Date: 6/15/2018 900h

Contact: Garrin Palmer

Analytical Results

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Chloride	mg/L		6/20/2018 1916h	E300.0	10.0	34.4	
Nitrate/Nitrite (as N)	mg/L		6/18/2018 953h	E353.2	0.100	< 0.100	

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Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 2nd Quarter Chloroform 2018
Lab Sample ID: 1806343-020C
Client Sample ID: TW4-18_06132018
Collection Date: 6/13/2018 809h
Received Date: 6/15/2018 900h

Contact: Garrin Palmer

Test Code: 8260-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/18/2018 1934h

Units: µg/L

Dilution Factor: 1

Method: SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	59.9	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	51.6	50.00	103	72-151	
Surr: 4-Bromofluorobenzene		460-00-4	50.4	50.00	101	80-152	
Surr: Dibromofluoromethane		1868-53-7	51.0	50.00	102	72-135	
Surr: Toluene-d8		2037-26-5	50.6	50.00	101	80-124	

Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 2nd Quarter Chloroform 2018
Lab Sample ID: 1806343-020
Client Sample ID: TW4-18_06132018
Collection Date: 6/13/2018 809h
Received Date: 6/15/2018 900h

Contact: Garrin Palmer

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		6/20/2018 2238h	E300.0	10.0	39.5	
Nitrate/Nitrite (as N)	mg/L		6/18/2018 1005h	E353.2	0.200	4.09	

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Laboratory Director

Jose Rocha

QA Officer



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 2nd Quarter Chloroform 2018
Lab Sample ID: 1806233-009C
Client Sample ID: TW4-19_06082018
Collection Date: 6/8/2018 1415h
Received Date: 6/12/2018 1015h

Contact: Garrin Palmer

Test Code: 8260-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/13/2018 1844h

Units: µg/L **Dilution Factor:** 50 **Method:** SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	50.0	2,980	~

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Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	2,170	2,500	86.7	72-151	
Surr: 4-Bromofluorobenzene		460-00-4	2,750	2,500	110	80-152	
Surr: Dibromofluoromethane		1868-53-7	2,230	2,500	89.3	72-135	
Surr: Toluene-d8		2037-26-5	2,680	2,500	107	80-124	

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

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Analyzed: 6/13/2018 109h

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

Kyle F. Gross
Laboratory Director

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	3.45	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Jose Rocha
QA Officer

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	47.3	50.00	94.7	72-151	
Surr: 4-Bromofluorobenzene		460-00-4	53.7	50.00	107	80-152	
Surr: Dibromofluoromethane		1868-53-7	50.6	50.00	101	72-135	
Surr: Toluene-d8		2037-26-5	51.4	50.00	103	80-124	



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 2nd Quarter Chloroform 2018
Lab Sample ID: 1806233-009
Client Sample ID: TW4-19_06082018
Collection Date: 6/8/2018 1415h
Received Date: 6/12/2018 1015h

Analytical Results

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Chloride	mg/L		6/14/2018 2107h	E300.0	100	138	
Nitrate/Nitrite (as N)	mg/L		6/13/2018 1749h	E353.2	0.100	0.494	

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Laboratory Director

Jose Rocha

QA Officer



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 2nd Quarter Chloroform 2018
Lab Sample ID: 1806343-032C
Client Sample ID: TW4-20_06142018
Collection Date: 6/14/2018 1010h
Received Date: 6/15/2018 900h

Contact: Garrin Palmer

Test Code: 8260-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/18/2018 1757h

Units: µg/L **Dilution Factor:** 500 **Method:** SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	500	12,000	~ ²

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	26,000	25,000	104	72-151	
Surr: 4-Bromofluorobenzene		460-00-4	26,400	25,000	106	80-152	
Surr: Dibromofluoromethane		1868-53-7	25,600	25,000	102	72-135	
Surr: Toluene-d8		2037-26-5	25,700	25,000	103	80-124	

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

² - Analyte concentration is too high for accurate matrix spike recovery.

Analyzed: 6/19/2018 006h

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

Kyle F. Gross
Laboratory Director

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	7.77	

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	50.9	50.00	102	72-151	
Surr: 4-Bromofluorobenzene		460-00-4	51.0	50.00	102	80-152	
Surr: Dibromofluoromethane		1868-53-7	46.1	50.00	92.3	72-135	
Surr: Toluene-d8		2037-26-5	50.2	50.00	101	80-124	

Jose Rocha
QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 2nd Quarter Chloroform 2018
Lab Sample ID: 1806343-032
Client Sample ID: TW4-20_06142018
Collection Date: 6/14/2018 1010h
Received Date: 6/15/2018 900h

Contact: Garrin Palmer

Analytical Results

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Chloride	mg/L		6/21/2018 812h	E300.0	100	258	
Nitrate/Nitrite (as N)	mg/L		6/18/2018 1029h	E353.2	0.100	10.4	

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Laboratory Director

Jose Rocha

QA Officer



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 2nd Quarter Chloroform 2018
Lab Sample ID: 1806233-004C
Client Sample ID: TW4-21_06082018
Collection Date: 6/8/2018 953h
Received Date: 6/12/2018 1015h

Contact: Garrin Palmer

Test Code: 8260-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/13/2018 1704h

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

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	10.0	532	~

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	427	500.0	85.4	72-151	
Surr: 4-Bromofluorobenzene		460-00-4	541	500.0	108	80-152	
Surr: Dibromofluoromethane		1868-53-7	469	500.0	93.9	72-135	
Surr: Toluene-d8		2037-26-5	532	500.0	106	80-124	

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

Analyzed: 6/12/2018 2331h

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	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	47.1	50.00	94.2	72-151	
Surr: 4-Bromofluorobenzene		460-00-4	54.2	50.00	108	80-152	
Surr: Dibromofluoromethane		1868-53-7	49.2	50.00	98.4	72-135	
Surr: Toluene-d8		2037-26-5	52.0	50.00	104	80-124	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 2nd Quarter Chloroform 2018
Lab Sample ID: 1806233-004
Client Sample ID: TW4-21_06082018
Collection Date: 6/8/2018 953h
Received Date: 6/12/2018 1015h

Contact: Garrin Palmer

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		6/14/2018 1909h	E300.0	100	387	
Nitrate/Nitrite (as N)	mg/L		6/13/2018 1741h	E353.2	0.100	14.1	

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Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 2nd Quarter Chloroform 2018
Lab Sample ID: 1806233-012C
Client Sample ID: TW4-22_06082018
Collection Date: 6/8/2018 1026h
Received Date: 6/12/2018 1015h

Contact: Garrin Palmer

Test Code: 8260-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/13/2018 1943h

Units: µg/L

Dilution Factor: 50

Method: SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	50.0	3,010	~

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Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	2,180	2,500	87.0	72-151	
Surr: 4-Bromofluorobenzene		460-00-4	2,710	2,500	109	80-152	
Surr: Dibromofluoromethane		1868-53-7	2,180	2,500	87.3	72-135	
Surr: Toluene-d8		2037-26-5	2,670	2,500	107	80-124	

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

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Analyzed: 6/13/2018 209h

Units: µg/L

Dilution Factor: 1

Method: SW8260C

Kyle F. Gross
Laboratory Director

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

Jose Rocha
QA Officer

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	47.2	50.00	94.4	72-151	
Surr: 4-Bromofluorobenzene		460-00-4	52.4	50.00	105	80-152	
Surr: Dibromofluoromethane		1868-53-7	50.6	50.00	101	72-135	
Surr: Toluene-d8		2037-26-5	50.7	50.00	101	80-124	



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 2nd Quarter Chloroform 2018
Lab Sample ID: 1806233-012
Client Sample ID: TW4-22_06082018
Collection Date: 6/8/2018 1026h
Received Date: 6/12/2018 1015h

Contact: Garrin Palmer

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		6/14/2018 2232h	E300.0	100	580	
Nitrate/Nitrite (as N)	mg/L		6/13/2018 1812h	E353.2	1.00	72.5	

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Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 2nd Quarter Chloroform 2018
Lab Sample ID: 1806343-011C
Client Sample ID: TW4-23_06132018
Collection Date: 6/13/2018 707h
Received Date: 6/15/2018 900h

Contact: Garrin Palmer

Test Code: 8260-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/18/2018 2251h

Units: µg/L

Dilution Factor: 1

Method: SW8260C

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

<u>Surrogate</u>	<u>Units: µg/L</u>	<u>CAS</u>	<u>Result</u>	<u>Amount Spiked</u>	<u>% REC</u>	<u>Limits</u>	<u>Qual</u>
Surr: 1,2-Dichloroethane-d4		17060-07-0	53.3	50.00	107	72-151	
Surr: 4-Bromofluorobenzene		460-00-4	51.8	50.00	104	80-152	
Surr: Dibromofluoromethane		1868-53-7	43.2	50.00	86.3	72-135	
Surr: Toluene-d8		2037-26-5	49.2	50.00	98.3	80-124	

Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 2nd Quarter Chloroform 2018
Lab Sample ID: 1806343-011
Client Sample ID: TW4-23_06132018
Collection Date: 6/13/2018 707h
Received Date: 6/15/2018 900h

Contact: Garrin Palmer

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		6/20/2018 1859h	E300.0	10.0	47.6	
Nitrate/Nitrite (as N)	mg/L		6/18/2018 952h	E353.2	0.100	< 0.100	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 2nd Quarter Chloroform 2018
Lab Sample ID: 1806343-019C
Client Sample ID: TW4-24_06142018
Collection Date: 6/14/2018 1020h
Received Date: 6/15/2018 900h

Contact: Garrin Palmer

Test Code: 8260-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/18/2018 1914h

Units: µg/L

Dilution Factor: 1

Method: SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	49.2	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate	Units: µg/L	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	53.2	50.00	106	80-152	
Surr: Dibromofluoromethane		1868-53-7	51.5	50.00	103	72-135	
Surr: Toluene-d8		2037-26-5	51.3	50.00	103	80-124	

Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 2nd Quarter Chloroform 2018
Lab Sample ID: 1806343-019
Client Sample ID: TW4-24_06142018
Collection Date: 6/14/2018 1020h
Received Date: 6/15/2018 900h

Contact: Garrin Palmer

Analytical Results

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Chloride	mg/L		6/20/2018 2221h	E300.0	100	792	
Nitrate/Nitrite (as N)	mg/L		6/18/2018 1004h	E353.2	0.500	33.6	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 2nd Quarter Chloroform 2018
Lab Sample ID: 1806343-014C
Client Sample ID: TW4-25_06142018
Collection Date: 6/14/2018 1032h
Received Date: 6/15/2018 900h

Contact: Garrin Palmer

Test Code: 8260-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/18/2018 2350h

Units: µg/L

Dilution Factor: 1

Method: SW8260C

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

Surrogate	Units: µg/L	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	43.4	50.00	86.8	72-135	
Surr: Toluene-d8		2037-26-5	48.7	50.00	97.4	80-124	

Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 2nd Quarter Chloroform 2018
Lab Sample ID: 1806343-014
Client Sample ID: TW4-25_06142018
Collection Date: 6/14/2018 1032h
Received Date: 6/15/2018 900h

Contact: Garrin Palmer

Analytical Results

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Chloride	mg/L		6/20/2018 2023h	E300.0	20.0	60.3	
Nitrate/Nitrite (as N)	mg/L		6/18/2018 956h	E353.2	0.100	1.14	

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Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 2nd Quarter Chloroform 2018
Lab Sample ID: 1806343-030C
Client Sample ID: TW4-26_06142018
Collection Date: 6/14/2018 953h
Received Date: 6/15/2018 900h

Contact: Garrin Palmer

Test Code: 8260-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/19/2018 1330h

Units: µg/L **Dilution Factor:** 20 **Method:** SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	20.0	960	~

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Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	1,070	1,000	107	72-151	
Surr: 4-Bromofluorobenzene		460-00-4	1,070	1,000	107	80-152	
Surr: Dibromofluoromethane		1868-53-7	1,040	1,000	104	72-135	
Surr: Toluene-d8		2037-26-5	1,040	1,000	104	80-124	

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

web: www.awal-labs.com

Analyzed: 6/18/2018 2248h

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

Kyle F. Gross
Laboratory Director

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

Jose Rocha
QA Officer

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	51.7	50.00	103	72-151	
Surr: 4-Bromofluorobenzene		460-00-4	51.3	50.00	103	80-152	
Surr: Dibromofluoromethane		1868-53-7	49.6	50.00	99.2	72-135	
Surr: Toluene-d8		2037-26-5	50.3	50.00	101	80-124	



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 2nd Quarter Chloroform 2018
Lab Sample ID: 1806343-030
Client Sample ID: TW4-26_06142018
Collection Date: 6/14/2018 953h
Received Date: 6/15/2018 900h

Contact: Garrin Palmer

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		6/21/2018 416h	E300.0	10.0	33.5	
Nitrate/Nitrite (as N)	mg/L		6/18/2018 1024h	E353.2	0.100	13.2	

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Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 2nd Quarter Chloroform 2018
Lab Sample ID: 1806343-016C
Client Sample ID: TW4-27_06132018
Collection Date: 6/13/2018 737h
Received Date: 6/15/2018 900h

Contact: Garrin Palmer

Test Code: 8260-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/19/2018 029h

Units: µg/L

Dilution Factor: 1

Method: SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	5.95	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	51.5	50.00	103	72-151	
Surr: 4-Bromofluorobenzene		460-00-4	50.3	50.00	101	80-152	
Surr: Dibromofluoromethane		1868-53-7	41.4	50.00	82.8	72-135	
Surr: Toluene-d8		2037-26-5	47.5	50.00	94.9	80-124	

Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 2nd Quarter Chloroform 2018
Lab Sample ID: 1806343-016
Client Sample ID: TW4-27_06132018
Collection Date: 6/13/2018 737h
Received Date: 6/15/2018 900h

Contact: Garrin Palmer

Analytical Results

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Chloride	mg/L		6/20/2018 2130h	E300.0	10.0	28.3	
Nitrate/Nitrite (as N)	mg/L		6/18/2018 1001h	E353.2	0.500	22.0	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 2nd Quarter Chloroform 2018
Lab Sample ID: 1806343-003C
Client Sample ID: TW4-28_06122018
Collection Date: 6/12/2018 707h
Received Date: 6/15/2018 900h

Contact: Garrin Palmer

Test Code: 8260-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/18/2018 2013h

Units: µg/L

Dilution Factor: 1

Method: SW8260C

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

Surrogate	Units: µg/L	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	51.7	50.00	103	80-152	
Surr: Dibromofluoromethane		1868-53-7	44.3	50.00	88.6	72-135	
Surr: Toluene-d8		2037-26-5	49.6	50.00	99.3	80-124	

Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 2nd Quarter Chloroform 2018
Lab Sample ID: 1806343-003
Client Sample ID: TW4-28_06122018
Collection Date: 6/12/2018 707h
Received Date: 6/15/2018 900h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		6/20/2018 1610h	E300.0	10.0	55.7	
Nitrate/Nitrite (as N)	mg/L		6/18/2018 935h	E353.2	0.500	19.0	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 2nd Quarter Chloroform 2018
Lab Sample ID: 1806343-028C
Client Sample ID: TW4-29_06142018
Collection Date: 6/14/2018 903h
Received Date: 6/15/2018 900h

Contact: Garrin Palmer

Test Code: 8260-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/19/2018 1251h

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

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	10.0	474	~

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	535	500.0	107	72-151	
Surr: 4-Bromofluorobenzene		460-00-4	538	500.0	108	80-152	
Surr: Dibromofluoromethane		1868-53-7	515	500.0	103	72-135	
Surr: Toluene-d8		2037-26-5	521	500.0	104	80-124	

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

Analyzed: 6/18/2018 2209h

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

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

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

Surrogate	Units: µg/L	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	52.7	50.00	105	80-152	
Surr: Dibromofluoromethane		1868-53-7	50.3	50.00	101	72-135	
Surr: Toluene-d8		2037-26-5	51.0	50.00	102	80-124	



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 2nd Quarter Chloroform 2018
Lab Sample ID: 1806343-028
Client Sample ID: TW4-29_06142018
Collection Date: 6/14/2018 903h
Received Date: 6/15/2018 900h

Contact: Garrin Palmer

Analytical Results

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Chloride	mg/L		6/21/2018 234h	E300.0	10.0	40.1	
Nitrate/Nitrite (as N)	mg/L		6/18/2018 1022h	E353.2	0.200	2.67	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 2nd Quarter Chloroform 2018
Lab Sample ID: 1806343-018C
Client Sample ID: TW4-30_06132018
Collection Date: 6/13/2018 756h
Received Date: 6/15/2018 900h

Contact: Garrin Palmer

Test Code: 8260-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/19/2018 109h

Units: µg/L

Dilution Factor: 1

Method: SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	16.9	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate	Units: µg/L	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	51.0	50.00	102	80-152	
Surr: Dibromofluoromethane		1868-53-7	44.0	50.00	87.9	72-135	
Surr: Toluene-d8		2037-26-5	48.8	50.00	97.6	80-124	

Kyle F. Gross

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QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 2nd Quarter Chloroform 2018
Lab Sample ID: 1806343-018
Client Sample ID: TW4-30_06132018
Collection Date: 6/13/2018 756h
Received Date: 6/15/2018 900h

Contact: Garrin Palmer

Analytical Results

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Chloride	mg/L		6/20/2018 2204h	E300.0	10.0	37.4	
Nitrate/Nitrite (as N)	mg/L		6/18/2018 1003h	E353.2	0.100	3.93	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 2nd Quarter Chloroform 2018
Lab Sample ID: 1806343-008C
Client Sample ID: TW4-31_06122018
Collection Date: 6/12/2018 745h
Received Date: 6/15/2018 900h

Contact: Garrin Palmer

Test Code: 8260-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/18/2018 2151h

Units: µg/L

Dilution Factor: 1

Method: SW8260C

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

Surrogate	Units: µg/L	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	51.5	50.00	103	80-152	
Surr: Dibromofluoromethane		1868-53-7	44.3	50.00	88.7	72-135	
Surr: Toluene-d8		2037-26-5	49.1	50.00	98.2	80-124	

Kyle F. Gross

Laboratory Director

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QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 2nd Quarter Chloroform 2018
Lab Sample ID: 1806343-008
Client Sample ID: TW4-31_06122018
Collection Date: 6/12/2018 745h
Received Date: 6/15/2018 900h

Contact: Garrin Palmer

Analytical Results

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Chloride	mg/L		6/20/2018 1808h	E300.0	10.0	34.4	
Nitrate/Nitrite (as N)	mg/L		6/18/2018 946h	E353.2	0.100	0.948	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 2nd Quarter Chloroform 2018
Lab Sample ID: 1806343-004C
Client Sample ID: TW4-32_06122018
Collection Date: 6/12/2018 716h
Received Date: 6/15/2018 900h

Contact: Garrin Palmer

Test Code: 8260-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/18/2018 2310h

Units: µg/L

Dilution Factor: 1

Method: SW8260C

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

Surrogate	Units: µg/L	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	52.5	50.00	105	80-152	
Surr: Dibromofluoromethane		1868-53-7	43.2	50.00	86.4	72-135	
Surr: Toluene-d8		2037-26-5	49.4	50.00	98.7	80-124	

Kyle F. Gross

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 2nd Quarter Chloroform 2018
Lab Sample ID: 1806343-004
Client Sample ID: TW4-32_06122018
Collection Date: 6/12/2018 716h
Received Date: 6/15/2018 900h

Contact: Garrin Palmer

Analytical Results

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Chloride	mg/L		6/20/2018 1627h	E300.0	10.0	59.2	
Nitrate/Nitrite (as N)	mg/L		6/18/2018 937h	E353.2	0.100	2.51	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 2nd Quarter Chloroform 2018
Lab Sample ID: 1806343-021C
Client Sample ID: TW4-33_06132018
Collection Date: 6/13/2018 821h
Received Date: 6/15/2018 900h

Contact: Garrin Palmer

Test Code: 8260-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/18/2018 1953h

Units: µg/L

Dilution Factor: 1

Method: SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	87.8	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	51.9	50.00	104	72-151	
Surr: 4-Bromofluorobenzene		460-00-4	53.2	50.00	106	80-152	
Surr: Dibromofluoromethane		1868-53-7	50.8	50.00	102	72-135	
Surr: Toluene-d8		2037-26-5	51.6	50.00	103	80-124	

Kyle F. Gross

Laboratory Director

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 2nd Quarter Chloroform 2018
Lab Sample ID: 1806343-021
Client Sample ID: TW4-33_06132018
Collection Date: 6/13/2018 821h
Received Date: 6/15/2018 900h

Contact: Garrin Palmer

Analytical Results

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Chloride	mg/L		6/20/2018 2328h	E300.0	10.0	44.0	
Nitrate/Nitrite (as N)	mg/L		6/18/2018 1009h	E353.2	0.100	2.13	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 2nd Quarter Chloroform 2018
Lab Sample ID: 1806343-009C
Client Sample ID: TW4-34_06132018
Collection Date: 6/13/2018 650h
Received Date: 6/15/2018 900h

Contact: Garrin Palmer

Test Code: 8260-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/18/2018 2211h

Units: µg/L

Dilution Factor: 1

Method: SW8260C

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

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	50.7	50.00	101	72-151	
Surr: 4-Bromofluorobenzene		460-00-4	46.8	50.00	93.6	80-152	
Surr: Dibromofluoromethane		1868-53-7	41.5	50.00	83.0	72-135	
Surr: Toluene-d8		2037-26-5	46.0	50.00	92.0	80-124	

Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 2nd Quarter Chloroform 2018
Lab Sample ID: 1806343-009
Client Sample ID: TW4-34_06132018
Collection Date: 6/13/2018 650h
Received Date: 6/15/2018 900h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		6/20/2018 1825h	E300.0	10.0	19.5	
Nitrate/Nitrite (as N)	mg/L		6/18/2018 947h	E353.2	0.100	0.877	

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Jose Rocha

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 2nd Quarter Chloroform 2018
Lab Sample ID: 1806343-010C
Client Sample ID: TW4-35_06132018
Collection Date: 6/13/2018 657h
Received Date: 6/15/2018 900h

Contact: Garrin Palmer

Test Code: 8260-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/18/2018 2231h

Units: µg/L

Dilution Factor: 1

Method: SW8260C

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

Surrogate	Units: µg/L	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	50.0	50.00	99.9	80-152	
Surr: Dibromofluoromethane		1868-53-7	43.9	50.00	87.8	72-135	
Surr: Toluene-d8		2037-26-5	49.2	50.00	98.4	80-124	

Kyle F. Gross

Laboratory Director

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QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 2nd Quarter Chloroform 2018
Lab Sample ID: 1806343-010
Client Sample ID: TW4-35_06132018
Collection Date: 6/13/2018 657h
Received Date: 6/15/2018 900h

Contact: Garrin Palmer

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		6/20/2018 1842h	E300.0	10.0	33.7	
Nitrate/Nitrite (as N)	mg/L		6/18/2018 949h	E353.2	0.100	0.662	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.
Project: 2nd Quarter Chloroform 2018
Lab Sample ID: 1806343-007C
Client Sample ID: TW4-36_06122018
Collection Date: 6/12/2018 738h
Received Date: 6/15/2018 900h

Contact: Garrin Palmer

Test Code: 8260-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/18/2018 2132h

Units: µg/L

Dilution Factor: 1

Method: SW8260C

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

Surrogate	Units: µg/L	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	52.1	50.00	104	80-152	
Surr: Dibromofluoromethane		1868-53-7	44.6	50.00	89.1	72-135	
Surr: Toluene-d8		2037-26-5	49.8	50.00	99.5	80-124	

Kyle F. Gross

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 2nd Quarter Chloroform 2018
Lab Sample ID: 1806343-007
Client Sample ID: TW4-36_06122018
Collection Date: 6/12/2018 738h
Received Date: 6/15/2018 900h

Contact: Garrin Palmer

Analytical Results

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Chloride	mg/L		6/20/2018 1751h	E300.0	10.0	64.3	
Nitrate/Nitrite (as N)	mg/L		6/18/2018 945h	E353.2	0.100	< 0.100	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 2nd Quarter Chloroform 2018
Lab Sample ID: 1806233-013C
Client Sample ID: TW4-37_06082018
Collection Date: 6/8/2018 1210h
Received Date: 6/12/2018 1015h

Contact: Garrin Palmer

Test Code: 8260-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/13/2018 1505h

Units: µg/L **Dilution Factor:** 100 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	100	14,400	~

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

Analyzed: 6/13/2018 1306h

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

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	10.6	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	42.0	50.00	84.1	72-151	
Surr: 4-Bromofluorobenzene		460-00-4	55.1	50.00	110	80-152	
Surr: Dibromofluoromethane		1868-53-7	49.5	50.00	99.0	72-135	
Surr: Toluene-d8		2037-26-5	53.5	50.00	107	80-124	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 2nd Quarter Chloroform 2018
Lab Sample ID: 1806233-013
Client Sample ID: TW4-37_06082018
Collection Date: 6/8/2018 1210h
Received Date: 6/12/2018 1015h

Contact: Garrin Palmer

Analytical Results

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Chloride	mg/L		6/14/2018 2248h	E300.0	100	275	
Nitrate/Nitrite (as N)	mg/L		6/13/2018 1813h	E353.2	0.500	28.6	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 2nd Quarter Chloroform 2018
Lab Sample ID: 1806343-013C
Client Sample ID: TW4-38_06132018
Collection Date: 6/13/2018 720h
Received Date: 6/15/2018 900h

Contact: Garrin Palmer

Test Code: 8260-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/18/2018 2330h

Units: µg/L

Dilution Factor: 1

Method: SW8260C

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

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	54.2	50.00	108	72-151	
Surr: 4-Bromofluorobenzene		460-00-4	52.2	50.00	104	80-152	
Surr: Dibromofluoromethane		1868-53-7	44.0	50.00	88.0	72-135	
Surr: Toluene-d8		2037-26-5	49.4	50.00	98.9	80-124	

Kyle F. Gross

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Jose Rocha

QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 2nd Quarter Chloroform 2018
Lab Sample ID: 1806343-013
Client Sample ID: TW4-38_06132018
Collection Date: 6/13/2018 720h
Received Date: 6/15/2018 900h

Contact: Garrin Palmer

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		6/20/2018 1932h	E300.0	10.0	33.1	
Nitrate/Nitrite (as N)	mg/L		6/18/2018 955h	E353.2	0.100	9.48	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 2nd Quarter Chloroform 2018
Lab Sample ID: 1806233-010C
Client Sample ID: TW4-39_06082018
Collection Date: 6/8/2018 1226h
Received Date: 6/12/2018 1015h

Contact: Garrin Palmer

Test Code: 8260-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/13/2018 1903h

Units: µg/L **Dilution Factor:** 50 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	50.0	7,160	~

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	2,180	2,500	87.0	72-151	
Surr: 4-Bromofluorobenzene		460-00-4	2,590	2,500	104	80-152	
Surr: Dibromofluoromethane		1868-53-7	2,290	2,500	91.5	72-135	
Surr: Toluene-d8		2037-26-5	2,630	2,500	105	80-124	

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

Analyzed: 6/13/2018 129h

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

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	7.94	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	46.9	50.00	93.8	72-151	
Surr: 4-Bromofluorobenzene		460-00-4	51.8	50.00	104	80-152	
Surr: Dibromofluoromethane		1868-53-7	51.2	50.00	102	72-135	
Surr: Toluene-d8		2037-26-5	50.9	50.00	102	80-124	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 2nd Quarter Chloroform 2018
Lab Sample ID: 1806233-010
Client Sample ID: TW4-39_06082018
Collection Date: 6/8/2018 1226h
Received Date: 6/12/2018 1015h

Contact: Garrin Palmer

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		6/14/2018 2124h	E300.0	20.0	107	
Nitrate/Nitrite (as N)	mg/L		6/13/2018 1751h	E353.2	0.100	4.84	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 2nd Quarter Chloroform 2018
Lab Sample ID: 1806343-027C
Client Sample ID: TW4-40_06142018
Collection Date: 6/14/2018 855h
Received Date: 6/15/2018 900h

Contact: Garrin Palmer

Test Code: 8260-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/18/2018 2150h

Units: µg/L

Dilution Factor: 1

Method: SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	131	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate	Units: µg/L	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	52.8	50.00	106	80-152	
Surr: Dibromofluoromethane		1868-53-7	50.9	50.00	102	72-135	
Surr: Toluene-d8		2037-26-5	50.8	50.00	102	80-124	

Kyle F. Gross

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Jose Rocha

QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 2nd Quarter Chloroform 2018
Lab Sample ID: 1806343-027
Client Sample ID: TW4-40_06142018
Collection Date: 6/14/2018 855h
Received Date: 6/15/2018 900h

Contact: Garrin Palmer

Analytical Results

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Chloride	mg/L		6/21/2018 217h	E300.0	10.0	31.6	
Nitrate/Nitrite (as N)	mg/L		6/18/2018 1021h	E353.2	0.100	3.33	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 2nd Quarter Chloroform 2018
Lab Sample ID: 1805254-001C
Client Sample ID: TW4-41_05092018
Collection Date: 5/9/2018 930h
Received Date: 5/10/2018 1010h

Contact: Garrin Palmer

Test Code: 8260-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 5/10/2018 1630h

Units: µg/L **Dilution Factor:** 100 **Method:** SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	100	1,400	~

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Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	5,530	5,000	111	72-151	
Surr: 4-Bromofluorobenzene		460-00-4	5,390	5,000	108	80-152	
Surr: Dibromofluoromethane		1868-53-7	5,060	5,000	101	72-135	
Surr: Toluene-d8		2037-26-5	5,470	5,000	109	80-124	

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

web: www.awal-labs.com

Analyzed: 5/10/2018 1329h

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

Kyle F. Gross

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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	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	54.1	50.00	108	72-151	
Surr: 4-Bromofluorobenzene		460-00-4	51.2	50.00	103	80-152	
Surr: Dibromofluoromethane		1868-53-7	50.1	50.00	100	72-135	
Surr: Toluene-d8		2037-26-5	52.9	50.00	106	80-124	



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 2nd Quarter Chloroform 2018
Lab Sample ID: 1805254-001
Client Sample ID: TW4-41_05092018
Collection Date: 5/9/2018 930h
Received Date: 5/10/2018 1010h

Contact: Garrin Palmer

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		5/16/2018 1339h	E300.0	10.0	42.8	
Nitrate/Nitrite (as N)	mg/L		5/21/2018 1239h	E353.2	0.100	6.54	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 2nd Quarter Chloroform 2018
Lab Sample ID: 1806233-015C
Client Sample ID: TW4-60_06082018
Collection Date: 6/8/2018 1400h
Received Date: 6/12/2018 1015h

Contact: Garrin Palmer

Test Code: 8260-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/19/2018 1519h

Units: µg/L

Dilution Factor: 1

Method: SW8260C

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

Surrogate	Units: µg/L	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	53.4	50.00	107	80-152	
Surr: Dibromofluoromethane		1868-53-7	49.5	50.00	98.9	72-135	
Surr: Toluene-d8		2037-26-5	50.1	50.00	100	80-124	

Kyle F. Gross

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 2nd Quarter Chloroform 2018
Lab Sample ID: 1806233-015
Client Sample ID: TW4-60_06082018
Collection Date: 6/8/2018 1400h
Received Date: 6/12/2018 1015h

Contact: Garrin Palmer

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		6/14/2018 1547h	E300.0	1.00	< 1.00	
Nitrate/Nitrite (as N)	mg/L		6/13/2018 1802h	E353.2	0.100	< 0.100	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 2nd Quarter Chloroform 2018
Lab Sample ID: 1806343-033C
Client Sample ID: TW4-65_06122018
Collection Date: 6/12/2018 707h
Received Date: 6/15/2018 900h

Contact: Garrin Palmer

Test Code: 8260-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/18/2018 2308h

Units: µg/L

Dilution Factor: 1

Method: SW8260C

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

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	52.2	50.00	104	72-151	
Surr: 4-Bromofluorobenzene		460-00-4	52.4	50.00	105	80-152	
Surr: Dibromofluoromethane		1868-53-7	50.5	50.00	101	72-135	
Surr: Toluene-d8		2037-26-5	51.5	50.00	103	80-124	

Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 2nd Quarter Chloroform 2018
Lab Sample ID: 1806343-033
Client Sample ID: TW4-65_06122018
Collection Date: 6/12/2018 707h
Received Date: 6/15/2018 900h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		6/21/2018 508h	E300.0	10.0	56.7	
Nitrate/Nitrite (as N)	mg/L		6/18/2018 1030h	E353.2	0.500	18.7	

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Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 2nd Quarter Chloroform 2018
Lab Sample ID: 1806343-034C
Client Sample ID: TW4-70_06132018
Collection Date: 6/13/2018 707h
Received Date: 6/15/2018 900h

Contact: Garrin Palmer

Test Code: 8260-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/18/2018 2327h

Units: µg/L

Dilution Factor: 1

Method: SW8260C

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

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	52.4	50.00	105	72-151	
Surr: 4-Bromofluorobenzene		460-00-4	52.7	50.00	105	80-152	
Surr: Dibromofluoromethane		1868-53-7	50.2	50.00	100	72-135	
Surr: Toluene-d8		2037-26-5	51.0	50.00	102	80-124	

Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 2nd Quarter Chloroform 2018
Lab Sample ID: 1806343-034
Client Sample ID: TW4-70_06132018
Collection Date: 6/13/2018 707h
Received Date: 6/15/2018 900h

Analytical Results

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Chloride	mg/L		6/21/2018 525h	E300.0	10.0	47.9	
Nitrate/Nitrite (as N)	mg/L		6/18/2018 1032h	E353.2	0.100	< 0.100	

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Laboratory Director

Jose Rocha

QA Officer



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 2nd Quarter Chloroform 2018
Lab Sample ID: 1806343-035C
Client Sample ID: TW4-75_06142018
Collection Date: 6/14/2018 831h
Received Date: 6/15/2018 900h

Contact: Garrin Palmer

Test Code: 8260-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/18/2018 2347h

Units: µg/L

Dilution Factor: 1

Method: SW8260C

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<u>Compound</u>	<u>CAS Number</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	132	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

<u>Surrogate</u>	<u>Units: µg/L</u>	<u>CAS</u>	<u>Result</u>	<u>Amount Spiked</u>	<u>% REC</u>	<u>Limits</u>	<u>Qual</u>
Surr: 1,2-Dichloroethane-d4		17060-07-0	52.6	50.00	105	72-151	
Surr: 4-Bromofluorobenzene		460-00-4	53.2	50.00	106	80-152	
Surr: Dibromofluoromethane		1868-53-7	50.6	50.00	101	72-135	
Surr: Toluene-d8		2037-26-5	51.2	50.00	102	80-124	

Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 2nd Quarter Chloroform 2018
Lab Sample ID: 1806343-035
Client Sample ID: TW4-75_06142018
Collection Date: 6/14/2018 831h
Received Date: 6/15/2018 900h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		6/21/2018 542h	E300.0	10.0	35.2	
Nitrate/Nitrite (as N)	mg/L		6/18/2018 1033h	E353.2	0.100	1.91	

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Laboratory Director

Jose Rocha

QA Officer



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 2nd Quarter Chloroform 2018
Lab Sample ID: 1805254-002A
Client Sample ID: Trip Blank
Collection Date: 5/9/2018
Received Date: 5/10/2018 1010h

Contact: Garrin Palmer

Test Code: 8260-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 5/10/2018 1229h

Units: µg/L

Dilution Factor: 1

Method: SW8260C

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

Surrogate	Units: µg/L	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	54.1	50.00	108	80-152	
Surr: Dibromofluoromethane		1868-53-7	48.5	50.00	97.0	72-135	
Surr: Toluene-d8		2037-26-5	53.9	50.00	108	80-124	

Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 2nd Quarter Chloroform 2018
Lab Sample ID: 1806233-016A
Client Sample ID: Trip Blank
Collection Date: 6/8/2018
Received Date: 6/12/2018 1015h

Contact: Garrin Palmer

Test Code: 8260-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/13/2018 1445h

Units: µg/L

Dilution Factor: 1

Method: SW8260C

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

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	43.1	50.00	86.3	72-151	
Surr: 4-Bromofluorobenzene		460-00-4	52.3	50.00	105	80-152	
Surr: Dibromofluoromethane		1868-53-7	41.2	50.00	82.4	72-135	
Surr: Toluene-d8		2037-26-5	52.8	50.00	106	80-124	

Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 2nd Quarter Chloroform 2018
Lab Sample ID: 1806343-036A
Client Sample ID: Trip Blank
Collection Date: 6/11/2018
Received Date: 6/15/2018 900h

Contact: Garrin Palmer

Test Code: 8260-W-DEN100

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 6/18/2018 1855h

Units: µg/L

Dilution Factor: 1

Method: SW8260C

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

Surrogate	Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	51.6	50.00	103	72-151	
Surr: 4-Bromofluorobenzene		460-00-4	52.8	50.00	106	80-152	
Surr: Dibromofluoromethane		1868-53-7	51.0	50.00	102	72-135	
Surr: Toluene-d8		2037-26-5	51.6	50.00	103	80-124	

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: 2nd Quarter Chloroform 2018

Dear Garrin Palmer:

Lab Set ID: 1805254

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American West Analytical Laboratories received sample(s) on 5/10/2018 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.

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

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: 2018.05.22 13:57:47
-08'00'

Laboratory Director or designee



SAMPLE SUMMARY

Client: Energy Fuels Resources, Inc.
Project: 2nd Quarter Chloroform 2018
Lab Set ID: 1805254
Date Received: 5/10/2018 1010h

Contact: Garrin Palmer

<u>Lab Sample ID</u>	<u>Client Sample ID</u>	<u>Date Collected</u>	<u>Matrix</u>	<u>Analysis</u>
1805254-001A	TW4-41_05092018	5/9/2018 930h	Aqueous	Anions, E300.0
1805254-001B	TW4-41_05092018	5/9/2018 930h	Aqueous	Nitrite/Nitrate (as N), E353.2
1805254-001C	TW4-41_05092018	5/9/2018 930h	Aqueous	VOA by GC/MS Method 8260C/5030C
1805254-002A	Trip Blank	5/9/2018	Aqueous	VOA by GC/MS Method 8260C/5030C

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer



Inorganic Case Narrative

Client: Energy Fuels Resources, Inc.
Contact: Garrin Palmer
Project: 2nd Quarter Groundwater 2018
Lab Set ID: 1805254

Sample Receipt Information:

Date of Receipt: 5/10/2018
Date(s) of Collection: 5/9/2018
Sample Condition: Intact
C-O-C Discrepancies: See Chain of Custody

Holding Time and Preservation Requirements: The analysis and preparation for the samples were performed within the method holding times. The samples were properly preserved.

Preparation and Analysis Requirements: The samples were analyzed following the methods stated on the analytical reports.

Analytical QC Requirements: All instrument calibration and calibration check requirements were met. All internal standard recoveries met method criterion.

Batch QC Requirements: MB, LCS, MS, MSD, RPD, DUP:

Method Blanks (MB): No target analytes were detected above reporting limits, indicating that the procedure was free from contamination.

Laboratory Control Samples (LCS): All LCS recoveries were within control limits, indicating that the preparation and analysis were in control.

Matrix Spike / Matrix Spike Duplicates (MS/MSD): All percent recoveries and RPDs (Relative Percent Differences) were inside established limits, indicating no apparent matrix interferences.

Duplicate (DUP): The parameters that required a duplicate analysis had RPDs within the control limits.

Corrective Action: None required.

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer



Volatile Case Narrative

Client: Energy Fuels Resources, Inc.
Contact: Garrin Palmer
Project: 2nd Quarter Groundwater 2018
Lab Set ID: 1805254

3440 South 700 West
Salt Lake City, UT 84119

Sample Receipt Information:

Date of Receipt: 5/10/2018
Date(s) of Collection: 5/9/2018
Sample Condition: Intact
C-O-C Discrepancies: None
Method: SW-846 8260C/5030C
Analysis: Volatile Organic Compounds

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General Set Comments: One target analytes were observed above reporting limits.

Holding Time and Preservation Requirements: All samples were received in appropriate containers and properly preserved. The analysis and preparation of all samples were performed within the method holding times following the methods stated on the analytical reports.

Kyle F. Gross
Laboratory Director

Analytical QC Requirements: All instrument calibration and calibration check requirements were met. All internal standard recoveries met method criterion.

Jose Rocha
QA Officer

Batch QC Requirements: MB, LCS, MS, MSD, RPD, and Surrogates:

Method Blanks (MBs): No target analytes were detected above reporting limits, indicating that the procedure was free from contamination, with the following exception: Chloromethane was observed above the reporting limit in MB VOC-1 051018A. The data was deemed acceptable, as any associated samples do not have results above the reporting limit/PQL.

Laboratory Control Sample (LCSs): All LCS recoveries were within control limits, indicating that the preparation and analysis were in control.

Matrix Spike / Matrix Spike Duplicate (MS/MSD): All percent recoveries and RPDs (Relative Percent Differences) were inside established limits, indicating no apparent matrix interferences.

Surrogates: All surrogate recoveries were within established limits.

Corrective Action: None required.



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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.

Lab Set ID: 1805254

Project: 2nd Quarter Chloroform 2018

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-R113536	Date Analyzed: 05/16/2018 1215h												
Test Code: 300.0-W													
Chloride	5.28	mg/L	E300.0	0.0581	0.100	5.000	0	106	90 - 110				
Lab Sample ID: LCS-R113679	Date Analyzed: 05/21/2018 1238h												
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	0.976	mg/L	E353.2	0.00538	0.0100	1.000	0	97.6	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: 1805254
Project: 2nd Quarter Chloroform 2018

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-R113536	Date Analyzed: 05/16/2018 1249h												
Test Code:	300.0-W												
Chloride	< 0.100	mg/L	E300.0	0.0581	0.100								
Lab Sample ID: MB-R113679	Date Analyzed: 05/21/2018 1237h												
Test Code:	NO2/NO3-W-353.2												
Nitrate/Nitrite (as N)	< 0.0100	mg/L	E353.2	0.00538	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: 1805254
Project: 2nd Quarter Chloroform 2018

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: 1805254-001AMS Date Analyzed: 05/16/2018 1356h													
Test Code: 300.0-W													
Chloride	150	mg/L	E300.0	1.16	2.00	100.0	42.8	107	90 - 110				
Lab Sample ID: 1805255-009AMS Date Analyzed: 05/16/2018 1828h													
Test Code: 300.0-W													
Chloride	105	mg/L	E300.0	1.16	2.00	100.0	0	105	90 - 110				
Lab Sample ID: 1805255-001AMS Date Analyzed: 05/16/2018 1447h													
Test Code: 300.0-W													
Chloride	106	mg/L	E300.0	1.16	2.00	100.0	0	106	90 - 110				
Lab Sample ID: 1805254-001BMS Date Analyzed: 05/21/2018 1240h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	17.3	mg/L	E353.2	0.0538	0.100	10.00	6.54	108	90 - 110				
Lab Sample ID: 1805255-007BMS Date Analyzed: 05/21/2018 1252h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	71.2	mg/L	E353.2	0.269	0.500	50.00	19.8	103	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: 1805254
Project: 2nd Quarter Chloroform 2018

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: 1805254-001AMSD Date Analyzed: 05/16/2018 1413h													
Test Code: 300.0-W													
Chloride	150	mg/L	E300.0	1.16	2.00	100.0	42.8	107	90 - 110	150	0.168	20	
Lab Sample ID: 1805255-001AMSD Date Analyzed: 05/16/2018 1503h													
Test Code: 300.0-W													
Chloride	106	mg/L	E300.0	1.16	2.00	100.0	0	106	90 - 110	106	0.684	20	
Lab Sample ID: 1805255-009AMSD Date Analyzed: 05/16/2018 1845h													
Test Code: 300.0-W													
Chloride	106	mg/L	E300.0	1.16	2.00	100.0	0	106	90 - 110	105	1.38	20	
Lab Sample ID: 1805254-001BMSD Date Analyzed: 05/21/2018 1242h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	17.5	mg/L	E353.2	0.0538	0.100	10.00	6.54	109	90 - 110	17.3	0.805	10	
Lab Sample ID: 1805255-007BMSD Date Analyzed: 05/21/2018 1254h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	69.1	mg/L	E353.2	0.269	0.500	50.00	19.8	98.5	90 - 110	0	0	10	



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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1805254
Project: 2nd Quarter Chloroform 2018

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 051018A	Date Analyzed:		05/10/2018 1129h										
Test Code: 8260-W-DEN100													
Chloroform	20.6	µg/L	SW8260C	0.0998	1.00	20.00	0	103	85 - 124				
Methylene chloride	19.6	µg/L	SW8260C	0.400	1.00	20.00	0	98.0	71 - 135				
Surr: 1,2-Dichloroethane-d4	53.9	µg/L	SW8260C			50.00		108	80 - 136				
Surr: 4-Bromofluorobenzene	49.9	µg/L	SW8260C			50.00		99.9	85 - 121				
Surr: Dibromofluoromethane	50.8	µg/L	SW8260C			50.00		102	78 - 132				
Surr: Toluene-d8	52.2	µg/L	SW8260C			50.00		104	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: 1805254
Project: 2nd Quarter Chloroform 2018

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 051018A	Date Analyzed: 05/10/2018 1209h												
Test Code: 8260-W-DEN100													
Carbon tetrachloride	< 1.00	µg/L	SW8260C	0.178	1.00								
Chloroform	< 1.00	µg/L	SW8260C	0.0998	1.00								
Chloromethane	7.27	µg/L	SW8260C	0.836	1.00								B
Methylene chloride	< 1.00	µg/L	SW8260C	0.400	1.00								
Surr: 1,2-Dichloroethane-d4	54.5	µg/L	SW8260C			50.00		109	80 - 136				
Surr: 4-Bromofluorobenzene	54.0	µg/L	SW8260C			50.00		108	85 - 121				
Surr: Dibromofluoromethane	49.6	µg/L	SW8260C			50.00		99.2	78 - 132				
Surr: Toluene-d8	53.8	µg/L	SW8260C			50.00		108	81 - 123				

B - Analyte(s) were observed above the reporting limit in the method blank. The method blank was acceptable, as any associated samples do not have results above the reporting limit/PQL.



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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1805254
Project: 2nd Quarter Chloroform 2018

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: 1805254-001CMS	Date Analyzed: 05/10/2018 1650h												
Test Code: 8260-W-DEN100													
Chloroform	3,630	µg/L	SW8260C	9.98	100	2,000	1400	112	50 - 146				
Methylene chloride	2,060	µg/L	SW8260C	40.0	100	2,000	0	103	30 - 192				
Surr: 1,2-Dichloroethane-d4	5,450	µg/L	SW8260C			5,000		109	72 - 151				
Surr: 4-Bromofluorobenzene	5,040	µg/L	SW8260C			5,000		101	80 - 152				
Surr: Dibromofluoromethane	5,020	µg/L	SW8260C			5,000		100	72 - 135				
Surr: Toluene-d8	5,300	µg/L	SW8260C			5,000		106	80 - 124				



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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.

Lab Set ID: 1805254

Project: 2nd Quarter Chloroform 2018

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: 1805254-001CMSD	Date Analyzed: 05/10/2018 1710h												
Test Code: 8260-W-DEN100													
Chloroform	3,490	µg/L	SW8260C	9.98	100	2,000	1400	105	50 - 146	3630	3.90	25	
Methylene chloride	1,980	µg/L	SW8260C	40.0	100	2,000	0	99.1	30 - 192	2060	4.05	25	
Surr: 1,2-Dichloroethane-d4	5,390	µg/L	SW8260C			5,000		108	72 - 151				
Surr: 4-Bromofluorobenzene	4,930	µg/L	SW8260C			5,000		98.6	80 - 152				
Surr: Dibromofluoromethane	4,970	µg/L	SW8260C			5,000		99.3	72 - 135				
Surr: Toluene-d8	5,280	µg/L	SW8260C			5,000		106	80 - 124				

WORK ORDER Summary

Work Order: **1805254**

Page 1 of 1

Client: Energy Fuels Resources, Inc.

Due Date: 5/21/2018

Client ID: ENE300

Contact: Garrin Palmer

Project: 2nd Quarter Chloroform 2018

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	
1805254-001A	TW4-41_05092018	5/9/2018 0930h	5/10/2018 1010h	300.0-W <i>1 SEL Analytes: CL</i>	Aqueous	df - wc	1
1805254-001B				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		df - no2/no3	
1805254-001C				8260-W-DEN100 <i>Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4</i>		VOCFridge	3
1805254-002A	Trip Blank	5/9/2018	5/10/2018 1010h	8260-W-DEN100 <i>Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4</i>	Aqueous	VOCFridge	3



**American West
Analytical Laboratories**

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CHAIN OF CUSTODY

All analysis will be conducted using NELAP accredited methods and all data will be reported using AWAL's standard analyte lists and reporting limits (PQL) unless specifically requested otherwise on this Chain of Custody and/or attached documentation.

1805254
AWAL Lab Sample Set #
Page 1 of 1

QC Level: 3		Turn Around Time: Standard		Unless other arrangements have been made, signed reports will be emailed by 5:00 pm on the day they are due.		Due Date:													
				<input checked="" type="checkbox"/> Include EDD: LOCUS UPLOAD EXCEL Field Filtered For:		Laboratory Use Only Samples Were: <i>WPS</i> Shipped or hand delivered 2 Ambient or Chilled 3 Temperature <i>1.8</i> °C 4 Received Broken/Leaking (Improperly Sealed) Y <input type="checkbox"/> N <input checked="" type="checkbox"/> 5 Properly Preserved Y <input checked="" type="checkbox"/> N <input type="checkbox"/> Checked at bench Y <input type="checkbox"/> N <input type="checkbox"/> 6 Received Within Holding Times Y <input checked="" type="checkbox"/> N <input type="checkbox"/>													
				For Compliance With: <input type="checkbox"/> NELAP <input type="checkbox"/> RCRA <input type="checkbox"/> CWA <input type="checkbox"/> SDWA <input type="checkbox"/> ELAP / A2LA <input type="checkbox"/> NLLAP <input type="checkbox"/> Non-Compliance <input type="checkbox"/> Other:															
				Known Hazards & Sample Comments															
				# of Containers	Sample Matrix	NO2/NO3 (353.2)	Cl (4500 or 300.0)	VOCs (8260C)											
1	TW4-41_05092018	5/9/2018	930	6	W	X	X	X											
2	Trip Blank	5/9/2018		3	W			X											
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			

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: **2ND Quarter Chloroform 2018**
 Project #: _____
 PO #: _____
 Sampler Name: **Tanner Holliday**

Sample ID:	Date Sampled	Time Sampled	# of Containers	Sample Matrix	NO2/NO3 (353.2)	Cl (4500 or 300.0)	VOCs (8260C)													
TW4-41_05092018	5/9/2018	930	6	W	X	X	X													
Trip Blank	5/9/2018		3	W			X													

COC Tape Was:
 1 Present on Outer Package
 Y N NA
 2 Unbroken on Outer Package
 Y N NA
 3 Present on Sample
 Y N NA
 4 Unbroken on Sample
 Y N NA

Discrepancies Between Sample Labels and COC Record?
 Y N

Relinquished by: Signature: <i>Garrin Palmer</i>	Date: <i>5/9/18</i>	Received by: Signature: _____	Date: _____	Special Instructions: See the Analytical Scope of Work for Reporting Limits and VOC analyte list.
Print Name: <i>Garrin Palmer</i>	Time: <i>1200</i>	Print Name: _____	Time: _____	
Relinquished by: Signature: _____	Date: _____	Received by: Signature: <i>Elmer Hays</i>	Date: <i>5-10-18</i>	
Print Name: _____	Time: _____	Print Name: <i>Elmer Hays</i>	Time: <i>10 (1)</i>	
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: _____	



Garrin Palmer
Energy Fuels Resources, Inc.
6425 S. Hwy 191
Blanding, UT 84511
TEL: (303) 389-4134

RE: 2nd Quarter Chloroform 2018

Dear Garrin Palmer:

Lab Set ID: 1806233

3440 South 700 West

Salt Lake City, UT 84119

Phone: (801) 263-8686

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web: www.awal-labs.com

American West Analytical Laboratories received sample(s) on 6/12/2018 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.

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

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: 2018.06.21 16:52:47 -06'00'

Laboratory Director or designee



SAMPLE SUMMARY

Client: Energy Fuels Resources, Inc.
Project: 2nd Quarter Chloroform 2018
Lab Set ID: 1806233
Date Received: 6/12/2018 1015h

Contact: Garrin Palmer

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
1806233-003A	TW4-01_06082018	6/8/2018 1307h	Aqueous	Anions, E300.0
1806233-003B	TW4-01_06082018	6/8/2018 1307h	Aqueous	Nitrite/Nitrate (as N), E353.2
1806233-003C	TW4-01_06082018	6/8/2018 1307h	Aqueous	VOA by GC/MS Method 8260C/5030C
1806233-004A	TW4-21_06082018	6/8/2018 953h	Aqueous	Anions, E300.0
1806233-004B	TW4-21_06082018	6/8/2018 953h	Aqueous	Nitrite/Nitrate (as N), E353.2
1806233-004C	TW4-21_06082018	6/8/2018 953h	Aqueous	VOA by GC/MS Method 8260C/5030C
1806233-005A	TW4-02_06082018	6/8/2018 1252h	Aqueous	Anions, E300.0
1806233-005B	TW4-02_06082018	6/8/2018 1252h	Aqueous	Nitrite/Nitrate (as N), E353.2
1806233-005C	TW4-02_06082018	6/8/2018 1252h	Aqueous	VOA by GC/MS Method 8260C/5030C
1806233-006A	TW4-04_06082018	6/8/2018 1320h	Aqueous	Anions, E300.0
1806233-006B	TW4-04_06082018	6/8/2018 1320h	Aqueous	Nitrite/Nitrate (as N), E353.2
1806233-006C	TW4-04_06082018	6/8/2018 1320h	Aqueous	VOA by GC/MS Method 8260C/5030C
1806233-007A	MW-26_06082018	6/8/2018 1235h	Aqueous	Anions, E300.0
1806233-007B	MW-26_06082018	6/8/2018 1235h	Aqueous	Nitrite/Nitrate (as N), E353.2
1806233-007C	MW-26_06082018	6/8/2018 1235h	Aqueous	VOA by GC/MS Method 8260C/5030C
1806233-008A	MW-04_06082018	6/8/2018 1300h	Aqueous	Anions, E300.0
1806233-008B	MW-04_06082018	6/8/2018 1300h	Aqueous	Nitrite/Nitrate (as N), E353.2
1806233-008C	MW-04_06082018	6/8/2018 1300h	Aqueous	VOA by GC/MS Method 8260C/5030C
1806233-009A	TW4-19_06082018	6/8/2018 1415h	Aqueous	Anions, E300.0
1806233-009B	TW4-19_06082018	6/8/2018 1415h	Aqueous	Nitrite/Nitrate (as N), E353.2
1806233-009C	TW4-19_06082018	6/8/2018 1415h	Aqueous	VOA by GC/MS Method 8260C/5030C
1806233-010A	TW4-39_06082018	6/8/2018 1226h	Aqueous	Anions, E300.0
1806233-010B	TW4-39_06082018	6/8/2018 1226h	Aqueous	Nitrite/Nitrate (as N), E353.2
1806233-010C	TW4-39_06082018	6/8/2018 1226h	Aqueous	VOA by GC/MS Method 8260C/5030C
1806233-011A	TW4-11_06082018	6/8/2018 1244h	Aqueous	Anions, E300.0
1806233-011B	TW4-11_06082018	6/8/2018 1244h	Aqueous	Nitrite/Nitrate (as N), E353.2
1806233-011C	TW4-11_06082018	6/8/2018 1244h	Aqueous	VOA by GC/MS Method 8260C/5030C
1806233-012A	TW4-22_06082018	6/8/2018 1026h	Aqueous	Anions, E300.0



Client: Energy Fuels Resources, Inc.
Project: 2nd Quarter Chloroform 2018
Lab Set ID: 1806233
Date Received: 6/12/2018 1015h

Contact: Garrin Palmer

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
1806233-012B	TW4-22_06082018	6/8/2018 1026h	Aqueous	Nitrite/Nitrate (as N), E353.2
1806233-012C	TW4-22_06082018	6/8/2018 1026h	Aqueous	VOA by GC/MS Method 8260C/5030C
1806233-013A	TW4-37_06082018	6/8/2018 1210h	Aqueous	Anions, E300.0
1806233-013B	TW4-37_06082018	6/8/2018 1210h	Aqueous	Nitrite/Nitrate (as N), E353.2
1806233-013C	TW4-37_06082018	6/8/2018 1210h	Aqueous	VOA by GC/MS Method 8260C/5030C
1806233-015A	TW4-60_06082018	6/8/2018 1400h	Aqueous	Anions, E300.0
1806233-015B	TW4-60_06082018	6/8/2018 1400h	Aqueous	Nitrite/Nitrate (as N), E353.2
1806233-015C	TW4-60_06082018	6/8/2018 1400h	Aqueous	VOA by GC/MS Method 8260C/5030C
1806233-016A	Trip Blank	6/8/2018	Aqueous	VOA by GC/MS Method 8260C/5030C

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer



Inorganic Case Narrative

Client: Energy Fuels Resources, Inc.
Contact: Garrin Palmer
Project: 2nd Quarter Groundwater 2018
Lab Set ID: 1806233

Sample Receipt Information:

Date of Receipt: 6/12/2018
Date(s) of Collection: 6/8/2018
Sample Condition: Intact
C-O-C Discrepancies: See Chain of Custody

Holding Time and Preservation Requirements: The analysis and preparation for the samples were performed within the method holding times. The samples were properly preserved.

Preparation and Analysis Requirements: The samples were analyzed following the methods stated on the analytical reports.

Analytical QC Requirements: All instrument calibration and calibration check requirements were met. All internal standard recoveries met method criterion.

Batch QC Requirements: MB, LCS, MS, MSD, RPD, DUP:

Method Blanks (MB): No target analytes were detected above reporting limits, indicating that the procedure was free from contamination.

Laboratory Control Samples (LCS): All LCS recoveries were within control limits, indicating that the preparation and analysis were in control.

Matrix Spike / Matrix Spike Duplicates (MS/MSD): All percent recoveries and RPDs (Relative Percent Differences) were inside established limits, indicating no apparent matrix interferences.

Duplicate (DUP): The parameters that required a duplicate analysis had RPDs within the control limits.

Corrective Action: None required.

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer



Volatile Case Narrative

Client: Energy Fuels Resources, Inc.
Contact: Garrin Palmer
Project: 2nd Quarter Groundwater 2018
Lab Set ID: 1806233

3440 South 700 West
Salt Lake City, UT 84119

Sample Receipt Information:

Date of Receipt: 6/12/2018
Date(s) of Collection: 6/8/2018
Sample Condition: Intact
C-O-C Discrepancies: None
Method: SW-846 8260C/5030C
Analysis: Volatile Organic Compounds

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General Set Comments: Multiple target analytes were observed above reporting limits.

Holding Time and Preservation Requirements: All samples were received in appropriate containers and properly preserved. The analysis and preparation of all samples were performed within the method holding times following the methods stated on the analytical reports.

Kyle F. Gross
Laboratory Director

Analytical QC Requirements: All instrument calibration and calibration check requirements were met. All internal standard recoveries met method criterion.

Jose Rocha
QA Officer

Batch QC Requirements: MB, LCS, MS, MSD, RPD, and Surrogates:

Method Blanks (MBs): No target analytes were detected above reporting limits, indicating that the procedure was free from contamination, with the following exception: Chloromethane was observed above the reporting limit in MB VOC-1 061218B and MB VOC-1 061318A. The data was deemed acceptable, as any associated samples do not have results above the reporting limit/PQL.

Laboratory Control Sample (LCSs): All LCS recoveries were within control limits, indicating that the preparation and analysis were in control.

Matrix Spike / Matrix Spike Duplicate (MS/MSD): All percent recoveries and RPDs (Relative Percent Differences) were inside established limits, indicating no apparent matrix interferences.

Surrogates: All surrogate recoveries were within established limits.

Corrective Action: None required.



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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1806233
Project: 2nd Quarter Chloroform 2018

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-R114574													
Date Analyzed: 06/14/2018 1349h													
Test Code: 300.0-W													
Chloride	5.04	mg/L	E300.0	0.0581	0.100	5.000	0	101	90 - 110				
Lab Sample ID: LCS-R114515													
Date Analyzed: 06/13/2018 1735h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.01	mg/L	E353.2	0.00538	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: 1806233
Project: 2nd Quarter Chloroform 2018

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-R114574	Date Analyzed: 06/14/2018 1332h												
Test Code:	300.0-W												
Chloride	< 0.100	mg/L	E300.0	0.0581	0.100								
Lab Sample ID: MB-R114515	Date Analyzed: 06/13/2018 1734h												
Test Code:	NO2/NO3-W-353.2												
Nitrate/Nitrite (as N)	< 0.0100	mg/L	E353.2	0.00538	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: 1806233
Project: 2nd Quarter Chloroform 2018

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: 1806233-003AMS Date Analyzed: 06/14/2018 1513h													
Test Code: 300.0-W													
Chloride	142	mg/L	E300.0	1.16	2.00	100.0	42	99.9	90 - 110				
Lab Sample ID: 1806233-004AMS Date Analyzed: 06/14/2018 1926h													
Test Code: 300.0-W													
Chloride	1,390	mg/L	E300.0	11.6	20.0	1,000	387	100	90 - 110				
Lab Sample ID: 1806233-006BMS Date Analyzed: 06/13/2018 1745h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	15.9	mg/L	E353.2	0.0538	0.100	10.00	6.34	95.7	90 - 110				
Lab Sample ID: 1806233-010BMS Date Analyzed: 06/13/2018 1752h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	15.3	mg/L	E353.2	0.0538	0.100	10.00	4.84	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: 1806233
Project: 2nd Quarter Chloroform 2018

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: 1806233-003AMSD Date Analyzed: 06/14/2018 1530h													
Test Code: 300.0-W													
Chloride	141	mg/L	E300.0	1.16	2.00	100.0	42	98.5	90 - 110	142	0.946	20	
Lab Sample ID: 1806233-004AMSD Date Analyzed: 06/14/2018 1943h													
Test Code: 300.0-W													
Chloride	1,390	mg/L	E300.0	11.6	20.0	1,000	387	100	90 - 110	1390	0.174	20	
Lab Sample ID: 1806233-006BMSD Date Analyzed: 06/13/2018 1746h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	16.3	mg/L	E353.2	0.0538	0.100	10.00	6.34	99.6	90 - 110	15.9	2.42	10	
Lab Sample ID: 1806233-010BMSD Date Analyzed: 06/13/2018 1757h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	14.9	mg/L	E353.2	0.0538	0.100	10.00	4.84	101	90 - 110	15.3	2.51	10	



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Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1806233
Project: 2nd Quarter Chloroform 2018

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 061218B Date Analyzed: 06/12/2018 1756h													
Test Code: 8260-W-DEN100													
Chloroform	21.0	µg/L	SW8260C	0.0998	1.00	20.00	0	105	85 - 124				
Methylene chloride	18.3	µg/L	SW8260C	0.400	1.00	20.00	0	91.7	71 - 135				
Surr: 1,2-Dichloroethane-d4	43.6	µg/L	SW8260C			50.00		87.2	80 - 136				
Surr: 4-Bromofluorobenzene	53.3	µg/L	SW8260C			50.00		107	85 - 121				
Surr: Dibromofluoromethane	51.1	µg/L	SW8260C			50.00		102	78 - 132				
Surr: Toluene-d8	53.1	µg/L	SW8260C			50.00		106	81 - 123				
Lab Sample ID: LCS VOC-1 061318A Date Analyzed: 06/13/2018 1202h													
Test Code: 8260-W-DEN100													
Chloroform	20.4	µg/L	SW8260C	0.0998	1.00	20.00	0	102	85 - 124				
Methylene chloride	18.5	µg/L	SW8260C	0.400	1.00	20.00	0	92.7	71 - 135				
Surr: 1,2-Dichloroethane-d4	42.4	µg/L	SW8260C			50.00		84.8	80 - 136				
Surr: 4-Bromofluorobenzene	53.7	µg/L	SW8260C			50.00		107	85 - 121				
Surr: Dibromofluoromethane	49.8	µg/L	SW8260C			50.00		99.7	78 - 132				
Surr: Toluene-d8	53.1	µg/L	SW8260C			50.00		106	81 - 123				
Lab Sample ID: LCS VOC-1 061318A Date Analyzed: 06/19/2018 1403h													
Test Code: 8260-W-DEN100													
Chloroform	19.5	µg/L	SW8260C	0.0998	1.00	20.00	0	97.5	85 - 124				
Methylene chloride	19.7	µg/L	SW8260C	0.400	1.00	20.00	0	98.4	71 - 135				
Surr: 1,2-Dichloroethane-d4	50.5	µg/L	SW8260C			50.00		101	80 - 136				
Surr: 4-Bromofluorobenzene	50.6	µg/L	SW8260C			50.00		101	85 - 121				
Surr: Dibromofluoromethane	49.2	µg/L	SW8260C			50.00		98.4	78 - 132				
Surr: Toluene-d8	49.7	µg/L	SW8260C			50.00		99.4	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: 1806233
Project: 2nd Quarter Chloroform 2018

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 061218B Date Analyzed: 06/12/2018 1835h													
Test Code: 8260-W-DEN100													
Carbon tetrachloride	< 1.00	µg/L	SW8260C	0.178	1.00								
Chloroform	< 1.00	µg/L	SW8260C	0.0998	1.00								
Chloromethane	1.91	µg/L	SW8260C	0.836	1.00								B
Methylene chloride	< 1.00	µg/L	SW8260C	0.400	1.00								
Surr: 1,2-Dichloroethane-d4	45.3	µg/L	SW8260C			50.00		90.6	80 - 136				
Surr: 4-Bromofluorobenzene	54.7	µg/L	SW8260C			50.00		109	85 - 121				
Surr: Dibromofluoromethane	49.1	µg/L	SW8260C			50.00		98.3	78 - 132				
Surr: Toluene-d8	52.9	µg/L	SW8260C			50.00		106	81 - 123				
Lab Sample ID: MB VOC-1 061318A Date Analyzed: 06/13/2018 1241h													
Test Code: 8260-W-DEN100													
Carbon tetrachloride	< 1.00	µg/L	SW8260C	0.178	1.00								
Chloroform	< 1.00	µg/L	SW8260C	0.0998	1.00								
Chloromethane	1.80	µg/L	SW8260C	0.836	1.00								B
Methylene chloride	< 1.00	µg/L	SW8260C	0.400	1.00								
Surr: 1,2-Dichloroethane-d4	42.9	µg/L	SW8260C			50.00		85.9	80 - 136				
Surr: 4-Bromofluorobenzene	54.8	µg/L	SW8260C			50.00		110	85 - 121				
Surr: Dibromofluoromethane	49.2	µg/L	SW8260C			50.00		98.3	78 - 132				
Surr: Toluene-d8	53.7	µg/L	SW8260C			50.00		107	81 - 123				
Lab Sample ID: MB VOC-1 061318A Date Analyzed: 06/19/2018 1442h													
Test Code: 8260-W-DEN100													
Carbon tetrachloride	< 1.00	µg/L	SW8260C	0.178	1.00								
Chloroform	< 1.00	µg/L	SW8260C	0.0998	1.00								
Chloromethane	1.97	µg/L	SW8260C	0.836	1.00								B
Methylene chloride	< 1.00	µg/L	SW8260C	0.400	1.00								
Surr: 1,2-Dichloroethane-d4	51.9	µg/L	SW8260C			50.00		104	80 - 136				
Surr: 4-Bromofluorobenzene	51.9	µg/L	SW8260C			50.00		104	85 - 121				
Surr: Dibromofluoromethane	47.6	µg/L	SW8260C			50.00		95.3	78 - 132				



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1806233
Project: 2nd Quarter Chloroform 2018

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 061318A	Date Analyzed: 06/19/2018 1442h												
Test Code: 8260-W-DEN100													
Surr: Toluene-d8	49.9	µg/L	SW8260C			50.00		99.8	81 - 123				

B - Analyte(s) were observed above the reporting limit in the method blank. The method blank was acceptable, as any associated samples do not have results above the reporting limit/PQL.



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1806233
Project: 2nd Quarter Chloroform 2018

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: 1806233-003CMS Date Analyzed: 06/12/2018 2112h													
Test Code: 8260-W-DEN100													
Chloroform	1,110	µg/L	SW8260C	0.998	10.0	200.0	943	83.0	50 - 146				
Methylene chloride	210	µg/L	SW8260C	4.00	10.0	200.0	0	105	30 - 192				
Surr: 1,2-Dichloroethane-d4	468	µg/L	SW8260C			500.0		93.7	72 - 151				
Surr: 4-Bromofluorobenzene	532	µg/L	SW8260C			500.0		106	80 - 152				
Surr: Dibromofluoromethane	499	µg/L	SW8260C			500.0		99.8	72 - 135				
Surr: Toluene-d8	512	µg/L	SW8260C			500.0		102	80 - 124				
Lab Sample ID: 1806233-013CMS Date Analyzed: 06/13/2018 1525h													
Test Code: 8260-W-DEN100													
Chloroform	16,400	µg/L	SW8260C	9.98	100	2,000	14400	96.0	50 - 146				
Methylene chloride	1,750	µg/L	SW8260C	40.0	100	2,000	0	87.7	30 - 192				
Surr: 1,2-Dichloroethane-d4	4,290	µg/L	SW8260C			5,000		85.8	72 - 151				
Surr: 4-Bromofluorobenzene	5,290	µg/L	SW8260C			5,000		106	80 - 152				
Surr: Dibromofluoromethane	4,770	µg/L	SW8260C			5,000		95.4	72 - 135				
Surr: Toluene-d8	5,340	µg/L	SW8260C			5,000		107	80 - 124				
Lab Sample ID: 1806384-004AMS Date Analyzed: 06/19/2018 1619h													
Test Code: 8260-W-DEN100													
Chloroform	19.8	µg/L	SW8260C	0.0998	1.00	20.00	0	99.2	50 - 146				
Methylene chloride	21.2	µg/L	SW8260C	0.400	1.00	20.00	0	106	30 - 192				
Surr: 1,2-Dichloroethane-d4	53.1	µg/L	SW8260C			50.00		106	72 - 151				
Surr: 4-Bromofluorobenzene	51.1	µg/L	SW8260C			50.00		102	80 - 152				
Surr: Dibromofluoromethane	49.9	µg/L	SW8260C			50.00		99.9	72 - 135				
Surr: Toluene-d8	48.8	µg/L	SW8260C			50.00		97.5	80 - 124				



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1806233
Project: 2nd Quarter Chloroform 2018

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: 1806233-003CMSD Date Analyzed: 06/12/2018 2132h													
Test Code: 8260-W-DEN100													
Chloroform	1,060	µg/L	SW8260C	0.998	10.0	200.0	943	61.1	50 - 146	1110	4.02	25	
Methylene chloride	198	µg/L	SW8260C	4.00	10.0	200.0	0	99.2	30 - 192	210	5.59	25	
Surr: 1,2-Dichloroethane-d4	460	µg/L	SW8260C			500.0		92.1	72 - 151				
Surr: 4-Bromofluorobenzene	523	µg/L	SW8260C			500.0		105	80 - 152				
Surr: Dibromofluoromethane	496	µg/L	SW8260C			500.0		99.2	72 - 135				
Surr: Toluene-d8	508	µg/L	SW8260C			500.0		102	80 - 124				
Lab Sample ID: 1806233-013CMSD Date Analyzed: 06/13/2018 1545h													
Test Code: 8260-W-DEN100													
Chloroform	15,800	µg/L	SW8260C	9.98	100	2,000	14400	69.0	50 - 146	16400	3.36	25	
Methylene chloride	1,720	µg/L	SW8260C	40.0	100	2,000	0	86.2	30 - 192	1750	1.73	25	
Surr: 1,2-Dichloroethane-d4	4,260	µg/L	SW8260C			5,000		85.2	72 - 151				
Surr: 4-Bromofluorobenzene	5,200	µg/L	SW8260C			5,000		104	80 - 152				
Surr: Dibromofluoromethane	4,820	µg/L	SW8260C			5,000		96.3	72 - 135				
Surr: Toluene-d8	5,280	µg/L	SW8260C			5,000		106	80 - 124				
Lab Sample ID: 1806384-004AMSD Date Analyzed: 06/19/2018 1639h													
Test Code: 8260-W-DEN100													
Chloroform	19.5	µg/L	SW8260C	0.0998	1.00	20.00	0	97.6	50 - 146	19.8	1.63	25	
Methylene chloride	20.3	µg/L	SW8260C	0.400	1.00	20.00	0	102	30 - 192	21.2	4.23	25	
Surr: 1,2-Dichloroethane-d4	53.1	µg/L	SW8260C			50.00		106	72 - 151				
Surr: 4-Bromofluorobenzene	50.4	µg/L	SW8260C			50.00		101	80 - 152				
Surr: Dibromofluoromethane	49.3	µg/L	SW8260C			50.00		98.6	72 - 135				
Surr: Toluene-d8	49.5	µg/L	SW8260C			50.00		98.9	80 - 124				

WORK ORDER Summary

Work Order: **1806233**

Page 1 of 3

Client: Energy Fuels Resources, Inc.

Due Date: 6/21/2018

Client ID: ENE300

Contact: Garrin Palmer

Project: 2nd Quarter Chloroform 2018

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.; el

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1806233-001A	TW4-25_06082018	6/8/2018 1003h	6/12/2018 1015h		Aqueous		Cancelled	
1806233-001B							Cancelled	
1806233-001C							Cancelled	
1806233-002A	TW4-24_06082018	6/8/2018 1018h	6/12/2018 1015h		Aqueous		Cancelled	
1806233-002B							Cancelled	
1806233-002C							Cancelled	
1806233-003A	TW4-01_06082018	6/8/2018 1307h	6/12/2018 1015h	300.0-W	Aqueous		df - wc	
1806233-003B				1 SEL Analytes: CL			NO2/NO3-W-353.2	df - no2/no3
1806233-003C				1 SEL Analytes: NO3NO2N			8260-W-DEN100	VOCFridge
Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4								
1806233-004A	TW4-21_06082018	6/8/2018 0953h	6/12/2018 1015h	300.0-W	Aqueous		df - wc	
1806233-004B				1 SEL Analytes: CL			NO2/NO3-W-353.2	df - no2/no3
1806233-004C				1 SEL Analytes: NO3NO2N			8260-W-DEN100	VOCFridge
Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4								
1806233-005A	TW4-02_06082018	6/8/2018 1252h	6/12/2018 1015h	300.0-W	Aqueous		df - wc	
1806233-005B				1 SEL Analytes: CL			NO2/NO3-W-353.2	df - no2/no3
1806233-005C				1 SEL Analytes: NO3NO2N			8260-W-DEN100	VOCFridge
Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4								
1806233-006A	TW4-04_06082018	6/8/2018 1320h	6/12/2018 1015h	300.0-W	Aqueous		df - wc	
1806233-006B				1 SEL Analytes: CL			NO2/NO3-W-353.2	df - no2/no3
				1 SEL Analytes: NO3NO2N				

WORK ORDER Summary

Work Order: **1806233**

Page 2 of 3

Client: Energy Fuels Resources, Inc.

Due Date: 6/21/2018

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1806233-006C	TW4-04_06082018	6/8/2018 1320h	6/12/2018 1015h	8260-W-DEN100 <i>Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4</i>	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	3
1806233-007A	MW-26_06082018	6/8/2018 1235h	6/12/2018 1015h	300.0-W <i>1 SEL Analytes: CL</i>	Aqueous	<input checked="" type="checkbox"/>	df - wc	1
1806233-007B				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		<input checked="" type="checkbox"/>	df - no2/no3	
1806233-007C				8260-W-DEN100 <i>Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4</i>		<input checked="" type="checkbox"/>	VOCFridge	3
1806233-008A	MW-04_06082018	6/8/2018 1300h	6/12/2018 1015h	300.0-W <i>1 SEL Analytes: CL</i>	Aqueous	<input checked="" type="checkbox"/>	df - wc	1
1806233-008B				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		<input checked="" type="checkbox"/>	df - no2/no3	
1806233-008C				8260-W-DEN100 <i>Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4</i>		<input checked="" type="checkbox"/>	VOCFridge	3
1806233-009A	TW4-19_06082018	6/8/2018 1415h	6/12/2018 1015h	300.0-W <i>1 SEL Analytes: CL</i>	Aqueous	<input checked="" type="checkbox"/>	df - wc	1
1806233-009B				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		<input checked="" type="checkbox"/>	df - no2/no3	
1806233-009C				8260-W-DEN100 <i>Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4</i>		<input checked="" type="checkbox"/>	VOCFridge	3
1806233-010A	TW4-39_06082018	6/8/2018 1226h	6/12/2018 1015h	300.0-W <i>1 SEL Analytes: CL</i>	Aqueous	<input checked="" type="checkbox"/>	df - wc	1
1806233-010B				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		<input checked="" type="checkbox"/>	df - no2/no3	
1806233-010C				8260-W-DEN100 <i>Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4</i>		<input checked="" type="checkbox"/>	VOCFridge	3
1806233-011A	TW4-11_06082018	6/8/2018 1244h	6/12/2018 1015h	300.0-W <i>1 SEL Analytes: CL</i>	Aqueous	<input checked="" type="checkbox"/>	df - wc	1
1806233-011B				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		<input checked="" type="checkbox"/>	df - no2/no3	
1806233-011C				8260-W-DEN100 <i>Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4</i>		<input checked="" type="checkbox"/>	VOCFridge	3
1806233-012A	TW4-22_06082018	6/8/2018 1026h	6/12/2018 1015h	300.0-W <i>1 SEL Analytes: CL</i>	Aqueous	<input checked="" type="checkbox"/>	df - wc	1

WORK ORDER Summary

Work Order: **1806233**

Page 3 of 3

Client: Energy Fuels Resources, Inc.

Due Date: 6/21/2018

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage				
1806233-012B	TW4-22_06082018	6/8/2018 1026h	6/12/2018 1015h	NO2/NO3-W-353.2	Aqueous		df - no2/no3	1			
				1 SEL Analytes: NO3NO2N							
1806233-012C				8260-W-DEN100			VOCFridge	3			
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4							
1806233-013A	TW4-37_06082018	6/8/2018 1210h	6/12/2018 1015h	300.0-W	Aqueous		df - wc	1			
				1 SEL Analytes: CL							
1806233-013B				NO2/NO3-W-353.2			df - no2/no3				
				1 SEL Analytes: NO3NO2N							
1806233-013C				8260-W-DEN100			VOCFridge	3			
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4							
1806233-014A	TW4-20_06082018	6/8/2018 1218h	6/12/2018 1015h		Aqueous		Cancelled	1			
1806233-014B										Cancelled	
1806233-014C										Cancelled	3
1806233-015A	TW4-60_06082018	6/8/2018 1400h	6/12/2018 1015h	300.0-W	Aqueous		df - wc	1			
				1 SEL Analytes: CL							
1806233-015B				NO2/NO3-W-353.2			df - no2/no3				
				1 SEL Analytes: NO3NO2N							
1806233-015C				8260-W-DEN100			VOCFridge	3			
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4							
1806233-016A	Trip Blank	6/8/2018	6/12/2018 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

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.

1806233
 AWAL Lab Sample Set #
 Page 2 of 2

QC Level:	Turn Around Time:	Unless other arrangements have been made, signed reports will be emailed by 5:00 pm on the day they are due.	Due Date:
3	Standard		
		<input checked="" type="checkbox"/> Include EDD: LOCUS UPLOAD EXCEL Field Filtered For:	Laboratory Use Only Samples Were: <i>WPS</i> 1 Shipped or hand delivered 2 Ambient or Chilled 3 Temperature <i>3.8</i> °C 4 Received Broken/Leaking (Improperly Sealed) Y <input checked="" type="checkbox"/> N 5 Properly Preserved Y <input checked="" type="checkbox"/> N Checked at bench Y <input checked="" type="checkbox"/> N 6 Received Within Holding Times Y <input checked="" type="checkbox"/> N
		For Compliance With: <input type="checkbox"/> NELAP <input type="checkbox"/> RCRA <input type="checkbox"/> CWA <input type="checkbox"/> SDWA <input type="checkbox"/> ELAP / A2LA <input type="checkbox"/> NLLAP <input type="checkbox"/> Non-Compliance <input type="checkbox"/> Other:	
		Known Hazards & Sample Comments <i>Cancelled</i>	COC Tape Was: 1 Present on Outer Package Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA 2 Unbroken on Outer Package Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA 3 Present on Sample Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA 4 Unbroken on Sample Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA Discrepancies Between Sample Labels and COC Record? Y <input checked="" type="checkbox"/> N

Client: **Energy Fuels Resources, Inc.**
 Address: **6425 S. Hwy. 191**
Blanding, UT 84511
 Contact: **Garrin Palmer**
 Phone #: **(435) 678-2221** Cell #: **4354599463**
 Email: **gpalmer@energyfuels.com; KWeinel@energyfuels.com; dturk@energyfuels.com**
 Project Name: **2nd Quarter Chloroform 2018**
 Project #:
 PO #:
 Sampler Name: **Tanner Holliday**

Sample ID:	Date Sampled	Time Sampled	# of Containers	Sample Matrix	NO2/NO3 (353.2)	Cl (4500 or 300.0)	VOCs (8260C)											
TW4-20_06082018	6/8/2018	1218	5	W	X	X	X											
TW4-60_06082018	6/8/2018	1400	5	W	X	X	X											
Trip Blank	6/8/2018		3	W			X											
Temp Blank			1	W														

Relinquished by: Signature <i>Garrin Palmer</i>	Date: 6/11/2018 1200	Received by: Signature <i>Tanner Holliday</i>	Date: 6/12/18 1315	Special Instructions: See the Analytical Scope of Work for Reporting Limits and VOC analyte list. <i>6/12/18</i> * These samples were cancelled per Kaitlyn Weinel VOC's for these were not in wrong vials.
Print Name: <i>Garrin Palmer</i>	Time: 1200	Print Name: <i>Tanner Holliday</i>	Time: 1315	
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:	

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-SO ₄ E or E300.0	1 mg/L	28 days	None	≤ 6°C
Carbonate as CO ₃	A2320 B	1 mg/L	14 days	None	≤ 6°C
Bicarbonate as HCO ₃	A2320 B	1 mg/L	14 days	None	≤ 6°C
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



Garrin Palmer
Energy Fuels Resources, Inc.
6425 S. Hwy 191
Blanding, UT 84511
TEL: (303) 389-4134

RE: 2nd Quarter Chloroform 2018

Dear Garrin Palmer:

Lab Set ID: 1806343

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

American West Analytical Laboratories received sample(s) on 6/15/2018 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.

This is a revision to a report originally issued 6/29/2018. Information herein supersedes that of the previously issued reports. Pages 1, 6, 30, and 79-82 have been revised. Nitrate/Nitrite (as N) on sample 1806343-023B has been reanalyzed.

Thank You,

Kyle F. Gross	Digitally signed by Kyle F. Gross
	Date: 2018.07.10 13:13:38 -06'00'

Approved by:

Laboratory Director or designee

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer



SAMPLE SUMMARY

Client: Energy Fuels Resources, Inc.
Project: 2nd Quarter Chloroform 2018
Lab Set ID: 1806343
Date Received: 6/15/2018 900h

Contact: Garrin Palmer

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
1806343-001A	TW4-03R_06112018	6/11/2018 1010h	Aqueous	Anions, E300.0
1806343-001B	TW4-03R_06112018	6/11/2018 1010h	Aqueous	Nitrite/Nitrate (as N), E353.2
1806343-001C	TW4-03R_06112018	6/11/2018 1010h	Aqueous	VOA by GC/MS Method 8260C/5030C
1806343-002A	TW4-03_06122018	6/12/2018 657h	Aqueous	Anions, E300.0
1806343-002B	TW4-03_06122018	6/12/2018 657h	Aqueous	Nitrite/Nitrate (as N), E353.2
1806343-002C	TW4-03_06122018	6/12/2018 657h	Aqueous	VOA by GC/MS Method 8260C/5030C
1806343-003A	TW4-28_06122018	6/12/2018 707h	Aqueous	Anions, E300.0
1806343-003B	TW4-28_06122018	6/12/2018 707h	Aqueous	Nitrite/Nitrate (as N), E353.2
1806343-003C	TW4-28_06122018	6/12/2018 707h	Aqueous	VOA by GC/MS Method 8260C/5030C
1806343-004A	TW4-32_06122018	6/12/2018 716h	Aqueous	Anions, E300.0
1806343-004B	TW4-32_06122018	6/12/2018 716h	Aqueous	Nitrite/Nitrate (as N), E353.2
1806343-004C	TW4-32_06122018	6/12/2018 716h	Aqueous	VOA by GC/MS Method 8260C/5030C
1806343-005A	TW4-12_06122018	6/12/2018 723h	Aqueous	Anions, E300.0
1806343-005B	TW4-12_06122018	6/12/2018 723h	Aqueous	Nitrite/Nitrate (as N), E353.2
1806343-005C	TW4-12_06122018	6/12/2018 723h	Aqueous	VOA by GC/MS Method 8260C/5030C
1806343-006A	TW4-13_06122018	6/12/2018 730h	Aqueous	Anions, E300.0
1806343-006B	TW4-13_06122018	6/12/2018 730h	Aqueous	Nitrite/Nitrate (as N), E353.2
1806343-006C	TW4-13_06122018	6/12/2018 730h	Aqueous	VOA by GC/MS Method 8260C/5030C
1806343-007A	TW4-36_06122018	6/12/2018 738h	Aqueous	Anions, E300.0
1806343-007B	TW4-36_06122018	6/12/2018 738h	Aqueous	Nitrite/Nitrate (as N), E353.2
1806343-007C	TW4-36_06122018	6/12/2018 738h	Aqueous	VOA by GC/MS Method 8260C/5030C
1806343-008A	TW4-31_06122018	6/12/2018 745h	Aqueous	Anions, E300.0
1806343-008B	TW4-31_06122018	6/12/2018 745h	Aqueous	Nitrite/Nitrate (as N), E353.2
1806343-008C	TW4-31_06122018	6/12/2018 745h	Aqueous	VOA by GC/MS Method 8260C/5030C
1806343-009A	TW4-34_06132018	6/13/2018 650h	Aqueous	Anions, E300.0
1806343-009B	TW4-34_06132018	6/13/2018 650h	Aqueous	Nitrite/Nitrate (as N), E353.2
1806343-009C	TW4-34_06132018	6/13/2018 650h	Aqueous	VOA by GC/MS Method 8260C/5030C
1806343-010A	TW4-35_06132018	6/13/2018 657h	Aqueous	Anions, E300.0



Client: Energy Fuels Resources, Inc.
Project: 2nd Quarter Chloroform 2018
Lab Set ID: 1806343
Date Received: 6/15/2018 900h

Contact: Garrin Palmer

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
1806343-010B	TW4-35_06132018	6/13/2018 657h	Aqueous	Nitrite/Nitrate (as N), E353.2
1806343-010C	TW4-35_06132018	6/13/2018 657h	Aqueous	VOA by GC/MS Method 8260C/5030C
1806343-011A	TW4-23_06132018	6/13/2018 707h	Aqueous	Anions, E300.0
1806343-011B	TW4-23_06132018	6/13/2018 707h	Aqueous	Nitrite/Nitrate (as N), E353.2
1806343-011C	TW4-23_06132018	6/13/2018 707h	Aqueous	VOA by GC/MS Method 8260C/5030C
1806343-012A	MW-32_06142018	6/14/2018 1300h	Aqueous	Anions, E300.0
1806343-012B	MW-32_06142018	6/14/2018 1300h	Aqueous	Nitrite/Nitrate (as N), E353.2
1806343-012C	MW-32_06142018	6/14/2018 1300h	Aqueous	VOA by GC/MS Method 8260C/5030C
1806343-013A	TW4-38_06132018	6/13/2018 720h	Aqueous	Anions, E300.0
1806343-013B	TW4-38_06132018	6/13/2018 720h	Aqueous	Nitrite/Nitrate (as N), E353.2
1806343-013C	TW4-38_06132018	6/13/2018 720h	Aqueous	VOA by GC/MS Method 8260C/5030C
1806343-014A	TW4-25_06142018	6/14/2018 1032h	Aqueous	Anions, E300.0
1806343-014B	TW4-25_06142018	6/14/2018 1032h	Aqueous	Nitrite/Nitrate (as N), E353.2
1806343-014C	TW4-25_06142018	6/14/2018 1032h	Aqueous	VOA by GC/MS Method 8260C/5030C
1806343-015A	TW4-14_06132018	6/13/2018 728h	Aqueous	Anions, E300.0
1806343-015B	TW4-14_06132018	6/13/2018 728h	Aqueous	Nitrite/Nitrate (as N), E353.2
1806343-015C	TW4-14_06132018	6/13/2018 728h	Aqueous	VOA by GC/MS Method 8260C/5030C
1806343-016A	TW4-27_06132018	6/13/2018 737h	Aqueous	Anions, E300.0
1806343-016B	TW4-27_06132018	6/13/2018 737h	Aqueous	Nitrite/Nitrate (as N), E353.2
1806343-016C	TW4-27_06132018	6/13/2018 737h	Aqueous	VOA by GC/MS Method 8260C/5030C
1806343-017A	TW4-05_06132018	6/13/2018 746h	Aqueous	Anions, E300.0
1806343-017B	TW4-05_06132018	6/13/2018 746h	Aqueous	Nitrite/Nitrate (as N), E353.2
1806343-017C	TW4-05_06132018	6/13/2018 746h	Aqueous	VOA by GC/MS Method 8260C/5030C
1806343-018A	TW4-30_06132018	6/13/2018 756h	Aqueous	Anions, E300.0
1806343-018B	TW4-30_06132018	6/13/2018 756h	Aqueous	Nitrite/Nitrate (as N), E353.2
1806343-018C	TW4-30_06132018	6/13/2018 756h	Aqueous	VOA by GC/MS Method 8260C/5030C
1806343-019A	TW4-24_06142018	6/14/2018 1020h	Aqueous	Anions, E300.0
1806343-019B	TW4-24_06142018	6/14/2018 1020h	Aqueous	Nitrite/Nitrate (as N), E353.2
1806343-019C	TW4-24_06142018	6/14/2018 1020h	Aqueous	VOA by GC/MS Method 8260C/5030C

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web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer



Client: Energy Fuels Resources, Inc.
Project: 2nd Quarter Chloroform 2018
Lab Set ID: 1806343
Date Received: 6/15/2018 900h

Contact: Garrin Palmer

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
1806343-020A	TW4-18_06132018	6/13/2018 809h	Aqueous	Anions, E300.0
1806343-020B	TW4-18_06132018	6/13/2018 809h	Aqueous	Nitrite/Nitrate (as N), E353.2
1806343-020C	TW4-18_06132018	6/13/2018 809h	Aqueous	VOA by GC/MS Method 8260C/5030C
1806343-021A	TW4-33_06132018	6/13/2018 821h	Aqueous	Anions, E300.0
1806343-021B	TW4-33_06132018	6/13/2018 821h	Aqueous	Nitrite/Nitrate (as N), E353.2
1806343-021C	TW4-33_06132018	6/13/2018 821h	Aqueous	VOA by GC/MS Method 8260C/5030C
1806343-022A	TW4-06_06142018	6/14/2018 820h	Aqueous	Anions, E300.0
1806343-022B	TW4-06_06142018	6/14/2018 820h	Aqueous	Nitrite/Nitrate (as N), E353.2
1806343-022C	TW4-06_06142018	6/14/2018 820h	Aqueous	VOA by GC/MS Method 8260C/5030C
1806343-023A	TW4-06R_06132018	6/13/2018 845h	Aqueous	Anions, E300.0
1806343-023B	TW4-06R_06132018	6/13/2018 845h	Aqueous	Nitrite/Nitrate (as N), E353.2
1806343-023C	TW4-06R_06132018	6/13/2018 845h	Aqueous	VOA by GC/MS Method 8260C/5030C
1806343-024A	TW4-09_06142018	6/14/2018 831h	Aqueous	Anions, E300.0
1806343-024B	TW4-09_06142018	6/14/2018 831h	Aqueous	Nitrite/Nitrate (as N), E353.2
1806343-024C	TW4-09_06142018	6/14/2018 831h	Aqueous	VOA by GC/MS Method 8260C/5030C
1806343-025A	TW4-16_06142018	6/14/2018 841h	Aqueous	Anions, E300.0
1806343-025B	TW4-16_06142018	6/14/2018 841h	Aqueous	Nitrite/Nitrate (as N), E353.2
1806343-025C	TW4-16_06142018	6/14/2018 841h	Aqueous	VOA by GC/MS Method 8260C/5030C
1806343-026A	TW4-08_06142018	6/14/2018 847h	Aqueous	Anions, E300.0
1806343-026B	TW4-08_06142018	6/14/2018 847h	Aqueous	Nitrite/Nitrate (as N), E353.2
1806343-026C	TW4-08_06142018	6/14/2018 847h	Aqueous	VOA by GC/MS Method 8260C/5030C
1806343-027A	TW4-40_06142018	6/14/2018 855h	Aqueous	Anions, E300.0
1806343-027B	TW4-40_06142018	6/14/2018 855h	Aqueous	Nitrite/Nitrate (as N), E353.2
1806343-027C	TW4-40_06142018	6/14/2018 855h	Aqueous	VOA by GC/MS Method 8260C/5030C
1806343-028A	TW4-29_06142018	6/14/2018 903h	Aqueous	Anions, E300.0
1806343-028B	TW4-29_06142018	6/14/2018 903h	Aqueous	Nitrite/Nitrate (as N), E353.2
1806343-028C	TW4-29_06142018	6/14/2018 903h	Aqueous	VOA by GC/MS Method 8260C/5030C
1806343-029A	TW4-07_06142018	6/14/2018 912h	Aqueous	Anions, E300.0
1806343-029B	TW4-07_06142018	6/14/2018 912h	Aqueous	Nitrite/Nitrate (as N), E353.2

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer



Client: Energy Fuels Resources, Inc.
Project: 2nd Quarter Chloroform 2018
Lab Set ID: 1806343
Date Received: 6/15/2018 900h

Contact: Garrin Palmer

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
1806343-029C	TW4-07_06142018	6/14/2018 912h	Aqueous	VOA by GC/MS Method 8260C/5030C
1806343-030A	TW4-26_06142018	6/14/2018 953h	Aqueous	Anions, E300.0
1806343-030B	TW4-26_06142018	6/14/2018 953h	Aqueous	Nitrite/Nitrate (as N), E353.2
1806343-030C	TW4-26_06142018	6/14/2018 953h	Aqueous	VOA by GC/MS Method 8260C/5030C
1806343-031A	TW4-10_06142018	6/14/2018 1001h	Aqueous	Anions, E300.0
1806343-031B	TW4-10_06142018	6/14/2018 1001h	Aqueous	Nitrite/Nitrate (as N), E353.2
1806343-031C	TW4-10_06142018	6/14/2018 1001h	Aqueous	VOA by GC/MS Method 8260C/5030C
1806343-032A	TW4-20_06142018	6/14/2018 1010h	Aqueous	Anions, E300.0
1806343-032B	TW4-20_06142018	6/14/2018 1010h	Aqueous	Nitrite/Nitrate (as N), E353.2
1806343-032C	TW4-20_06142018	6/14/2018 1010h	Aqueous	VOA by GC/MS Method 8260C/5030C
1806343-033A	TW4-65_06122018	6/12/2018 707h	Aqueous	Anions, E300.0
1806343-033B	TW4-65_06122018	6/12/2018 707h	Aqueous	Nitrite/Nitrate (as N), E353.2
1806343-033C	TW4-65_06122018	6/12/2018 707h	Aqueous	VOA by GC/MS Method 8260C/5030C
1806343-034A	TW4-70_06132018	6/13/2018 707h	Aqueous	Anions, E300.0
1806343-034B	TW4-70_06132018	6/13/2018 707h	Aqueous	Nitrite/Nitrate (as N), E353.2
1806343-034C	TW4-70_06132018	6/13/2018 707h	Aqueous	VOA by GC/MS Method 8260C/5030C
1806343-035A	TW4-75_06142018	6/14/2018 831h	Aqueous	Anions, E300.0
1806343-035B	TW4-75_06142018	6/14/2018 831h	Aqueous	Nitrite/Nitrate (as N), E353.2
1806343-035C	TW4-75_06142018	6/14/2018 831h	Aqueous	VOA by GC/MS Method 8260C/5030C
1806343-036A	Trip Blank	6/11/2018	Aqueous	VOA by GC/MS Method 8260C/5030C

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer



Revised Inorganic Case Narrative

Client: Energy Fuels Resources, Inc.
Contact: Garrin Palmer
Project: 2nd Quarter Chloroform 2018
Lab Set ID: 1806343

Sample Receipt Information:

Date of Receipt: 6/15/2018
Date(s) of Collection: 6/11 through 6/14/2018
Sample Condition: Intact
C-O-C Discrepancies: See Chain of Custody

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
1806343-010B	NO2/NO3	MS	Sample matrix interference

Duplicate (DUP): The parameters that required a duplicate analysis had RPDs within the control limits.

Corrective Action: None required.

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Kyle F. Gross
 Laboratory Director

Jose Rocha
 QA Officer



Volatile Case Narrative

Client: Energy Fuels Resources, Inc.
Contact: Garrin Palmer
Project: 2nd Quarter Chloroform 2018
Lab Set ID: 1806343

Sample Receipt Information:

Date of Receipt: 6/15/2018
Date(s) of Collection: 6/11 through 6/14/2018
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): Chloromethane was observed above the reporting limit on sample MB VOC-1 061818A. The MB was acceptable, as any associated samples do not have results above the reporting limit/PQL. No other target analytes were detected above reporting limits, indicating that the procedure was free from contamination.

Laboratory Control Sample (LCSs): All LCS recoveries were within control limits, indicating that the preparation and analysis were in control.

Matrix Spike / Matrix Spike Duplicate (MS/MSD): All percent recoveries and RPDs (Relative Percent Differences) were inside established limits, with the following exceptions: The MS and MSD percent recoveries on chloroform were outside of control limits on sample 1806343-032C due to suspected sample non-homogeneity or matrix interference.

Surrogates: All surrogate recoveries were within established limits.

Corrective Action: None required.

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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1806343
Project: 2nd Quarter Chloroform 2018

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-R114850 Date Analyzed: 06/20/2018 1446h													
Test Code: 300.0-W													
Chloride	4.86	mg/L	E300.0	0.0581	0.100	5.000	0	97.2	90 - 110				
Lab Sample ID: LCS-R114853 Date Analyzed: 06/20/2018 2311h													
Test Code: 300.0-W													
Chloride	4.74	mg/L	E300.0	0.0581	0.100	5.000	0	94.7	90 - 110				
Lab Sample ID: LCS-R114657 Date Analyzed: 06/18/2018 932h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.08	mg/L	E353.2	0.00538	0.0100	1.000	0	108	90 - 110				
Lab Sample ID: LCS-R114658 Date Analyzed: 06/18/2018 1008h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.10	mg/L	E353.2	0.00538	0.0100	1.000	0	110	90 - 110				
Lab Sample ID: LCS-R115330 Date Analyzed: 07/09/2018 1627h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.04	mg/L	E353.2	0.00538	0.0100	1.000	0	104	90 - 110				



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1806343
Project: 2nd Quarter Chloroform 2018

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-R114850													
Date Analyzed: 06/20/2018 1430h													
Test Code: 300.0-W													
Chloride	< 0.100	mg/L	E300.0	0.0581	0.100								
Lab Sample ID: MB-R114853													
Date Analyzed: 06/20/2018 2255h													
Test Code: 300.0-W													
Chloride	< 0.100	mg/L	E300.0	0.0581	0.100								
Lab Sample ID: MB-R114657													
Date Analyzed: 06/18/2018 931h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	< 0.0100	mg/L	E353.2	0.00538	0.0100								
Lab Sample ID: MB-R114658													
Date Analyzed: 06/18/2018 1007h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	< 0.0100	mg/L	E353.2	0.00538	0.0100								
Lab Sample ID: MB-R115330													
Date Analyzed: 07/09/2018 1624h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	< 0.0100	mg/L	E353.2	0.00538	0.0100								



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1806343
Project: 2nd Quarter Chloroform 2018

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: 1806343-002AMS Date Analyzed: 06/20/2018 1537h													
Test Code: 300.0-W													
Chloride	119	mg/L	E300.0	1.16	2.00	100.0	26.1	92.6	90 - 110				
Lab Sample ID: 1806343-013AMS Date Analyzed: 06/20/2018 1949h													
Test Code: 300.0-W													
Chloride	127	mg/L	E300.0	1.16	2.00	100.0	33.1	93.6	90 - 110				
Lab Sample ID: 1806343-029AMS Date Analyzed: 06/21/2018 307h													
Test Code: 300.0-W													
Chloride	135	mg/L	E300.0	1.16	2.00	100.0	41.5	93.6	90 - 110				
Lab Sample ID: 1806343-023AMS Date Analyzed: 06/21/2018 904h													
Test Code: 300.0-W													
Chloride	9.24	mg/L	E300.0	0.116	0.200	10.00	0	92.4	90 - 110				
Lab Sample ID: 1806343-004BMS Date Analyzed: 06/18/2018 938h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	12.6	mg/L	E353.2	0.0538	0.100	10.00	2.51	101	90 - 110				
Lab Sample ID: 1806343-010BMS Date Analyzed: 06/18/2018 950h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	11.8	mg/L	E353.2	0.0538	0.100	10.00	0.662	112	90 - 110				1
Lab Sample ID: 1806343-023BMS Date Analyzed: 07/09/2018 1629h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	10.6	mg/L	E353.2	0.0538	0.100	10.00	0	106	90 - 110				^

^ - Reissue of a previously generated report. Information has been added, updated, or revised. Information herein supersedes that of the previously issued reports.

1 - Matrix spike recovery indicates matrix interference. The method is in control as indicated by the LCS.



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1806343
Project: 2nd Quarter Chloroform 2018

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: 1806343-002AMSD Date Analyzed: 06/20/2018 1554h													
Test Code: 300.0-W													
Chloride	120	mg/L	E300.0	1.16	2.00	100.0	26.1	93.5	90 - 110	119	0.742	20	
Lab Sample ID: 1806343-013AMSD Date Analyzed: 06/20/2018 2006h													
Test Code: 300.0-W													
Chloride	127	mg/L	E300.0	1.16	2.00	100.0	33.1	94.3	90 - 110	127	0.545	20	
Lab Sample ID: 1806343-029AMSD Date Analyzed: 06/21/2018 324h													
Test Code: 300.0-W													
Chloride	134	mg/L	E300.0	1.16	2.00	100.0	41.5	92.7	90 - 110	135	0.650	20	
Lab Sample ID: 1806343-023AMSD Date Analyzed: 06/21/2018 920h													
Test Code: 300.0-W													
Chloride	9.29	mg/L	E300.0	0.116	0.200	10.00	0	92.9	90 - 110	9.24	0.518	20	
Lab Sample ID: 1806343-004BMSD Date Analyzed: 06/18/2018 939h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	12.8	mg/L	E353.2	0.0538	0.100	10.00	2.51	103	90 - 110	12.6	1.66	10	
Lab Sample ID: 1806343-010BMSD Date Analyzed: 06/18/2018 951h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	11.4	mg/L	E353.2	0.0538	0.100	10.00	0.662	107	90 - 110	11.8	3.61	10	
Lab Sample ID: 1806343-023BMSD Date Analyzed: 07/09/2018 1630h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	10.5	mg/L	E353.2	0.0538	0.100	10.00	0	105	90 - 110	10.6	0.951	10	^

^ - Reissue of a previously generated report. Information has been added, updated, or revised. Information herein supersedes that of the previously issued reports.



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1806343
Project: 2nd Quarter Chloroform 2018

Contact: Garrin Palmer
Dept: MSVOA
QC Type: LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: LCS VOC-2 061818A Date Analyzed: 06/18/2018 1659h													
Test Code: 8260-W-DEN100													
Chloroform	19.8	µg/L	SW8260C	0.0998	1.00	20.00	0	99.0	85 - 124				
Methylene chloride	23.3	µg/L	SW8260C	0.400	1.00	20.00	0	116	71 - 135				
Surr: 1,2-Dichloroethane-d4	50.1	µg/L	SW8260C			50.00		100	80 - 136				
Surr: 4-Bromofluorobenzene	49.9	µg/L	SW8260C			50.00		99.8	85 - 121				
Surr: Dibromofluoromethane	50.0	µg/L	SW8260C			50.00		100	78 - 132				
Surr: Toluene-d8	50.4	µg/L	SW8260C			50.00		101	81 - 123				
Lab Sample ID: LCS VOC-1 061818A Date Analyzed: 06/18/2018 1735h													
Test Code: 8260-W-DEN100													
Chloroform	20.1	µg/L	SW8260C	0.0998	1.00	20.00	0	100	85 - 124				
Methylene chloride	20.3	µg/L	SW8260C	0.400	1.00	20.00	0	101	71 - 135				
Surr: 1,2-Dichloroethane-d4	51.3	µg/L	SW8260C			50.00		103	80 - 136				
Surr: 4-Bromofluorobenzene	49.6	µg/L	SW8260C			50.00		99.2	85 - 121				
Surr: Dibromofluoromethane	50.2	µg/L	SW8260C			50.00		100	78 - 132				
Surr: Toluene-d8	49.2	µg/L	SW8260C			50.00		98.5	81 - 123				
Lab Sample ID: LCS VOC-2 060818A Date Analyzed: 06/19/2018 855h													
Test Code: 8260-W-DEN100													
Chloroform	22.1	µg/L	SW8260C	0.0998	1.00	20.00	0	110	85 - 124				
Surr: 1,2-Dichloroethane-d4	51.8	µg/L	SW8260C			50.00		104	80 - 136				
Surr: 4-Bromofluorobenzene	49.4	µg/L	SW8260C			50.00		98.8	85 - 121				
Surr: Dibromofluoromethane	51.3	µg/L	SW8260C			50.00		103	78 - 132				
Surr: Toluene-d8	51.9	µg/L	SW8260C			50.00		104	81 - 123				



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1806343
Project: 2nd Quarter Chloroform 2018

Contact: Garrin Palmer
Dept: MSVOA
QC Type: MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: MB VOC-2 061818A		Date Analyzed: 06/18/2018 1737h											
Test Code: 8260-W-DEN100													
Carbon tetrachloride	< 1.00	µg/L	SW8260C	0.178	1.00								
Chloroform	< 1.00	µg/L	SW8260C	0.0998	1.00								
Chloromethane	< 1.00	µg/L	SW8260C	0.836	1.00								
Methylene chloride	< 1.00	µg/L	SW8260C	0.400	1.00								
Surr: 1,2-Dichloroethane-d4	50.8	µg/L	SW8260C			50.00		102	80 - 136				
Surr: 4-Bromofluorobenzene	51.3	µg/L	SW8260C			50.00		103	85 - 121				
Surr: Dibromofluoromethane	50.2	µg/L	SW8260C			50.00		100	78 - 132				
Surr: Toluene-d8	50.4	µg/L	SW8260C			50.00		101	81 - 123				
Lab Sample ID: MB VOC-1 061818A		Date Analyzed: 06/18/2018 1814h											
Test Code: 8260-W-DEN100													
Carbon tetrachloride	< 1.00	µg/L	SW8260C	0.178	1.00								
Chloroform	< 1.00	µg/L	SW8260C	0.0998	1.00								
Chloromethane	1.12	µg/L	SW8260C	0.836	1.00								B
Methylene chloride	< 1.00	µg/L	SW8260C	0.400	1.00								
Surr: 1,2-Dichloroethane-d4	52.7	µg/L	SW8260C			50.00		105	80 - 136				
Surr: 4-Bromofluorobenzene	51.0	µg/L	SW8260C			50.00		102	85 - 121				
Surr: Dibromofluoromethane	46.6	µg/L	SW8260C			50.00		93.3	78 - 132				
Surr: Toluene-d8	50.4	µg/L	SW8260C			50.00		101	81 - 123				
Lab Sample ID: MB VOC-2 060818A		Date Analyzed: 06/19/2018 934h											
Test Code: 8260-W-DEN100													
Chloroform	< 1.00	µg/L	SW8260C	0.0998	1.00								
Surr: 1,2-Dichloroethane-d4	52.8	µg/L	SW8260C			50.00		106	80 - 136				
Surr: 4-Bromofluorobenzene	52.9	µg/L	SW8260C			50.00		106	85 - 121				
Surr: Dibromofluoromethane	51.4	µg/L	SW8260C			50.00		103	78 - 132				
Surr: Toluene-d8	51.4	µg/L	SW8260C			50.00		103	81 - 123				

B - Analyte(s) were observed above the reporting limit in the method blank. The method blank was acceptable, as any associated samples do not have results above the reporting limit/PQL.



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1806343
Project: 2nd Quarter Chloroform 2018

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: 1806343-032CMS Date Analyzed: 06/18/2018 1816h													
Test Code: 8260-W-DEN100													
Chloroform	22,300	µg/L	SW8260C	49.9	500	10,000	1200	211	50 - 146				2
Methylene chloride	12,700	µg/L	SW8260C	200	500	10,000	7.77	127	30 - 192				
Surr: 1,2-Dichloroethane-d4	25,300	µg/L	SW8260C			25,000		101	72 - 151				
Surr: 4-Bromofluorobenzene	24,700	µg/L	SW8260C			25,000		98.7	80 - 152				
Surr: Dibromofluoromethane	25,400	µg/L	SW8260C			25,000		102	72 - 135				
Surr: Toluene-d8	24,700	µg/L	SW8260C			25,000		98.8	80 - 124				
Lab Sample ID: 1806343-031CMS Date Analyzed: 06/18/2018 1854h													
Test Code: 8260-W-DEN100													
Chloroform	2,900	µg/L	SW8260C	9.98	100	2,000	914	99.2	50 - 146				
Methylene chloride	2,110	µg/L	SW8260C	40.0	100	2,000	0	106	30 - 192				
Surr: 1,2-Dichloroethane-d4	5,290	µg/L	SW8260C			5,000		106	72 - 151				
Surr: 4-Bromofluorobenzene	5,000	µg/L	SW8260C			5,000		100	80 - 152				
Surr: Dibromofluoromethane	4,960	µg/L	SW8260C			5,000		99.2	72 - 135				
Surr: Toluene-d8	4,930	µg/L	SW8260C			5,000		98.6	80 - 124				
Lab Sample ID: 1806359-002AMS Date Analyzed: 06/19/2018 1134h													
Test Code: 8260-W-DEN100													
Chloroform	422	µg/L	SW8260C	2.00	20.0	400.0	0	105	50 - 146				
Surr: 1,2-Dichloroethane-d4	1,030	µg/L	SW8260C			1,000		103	72 - 151				
Surr: 4-Bromofluorobenzene	996	µg/L	SW8260C			1,000		99.6	80 - 152				
Surr: Dibromofluoromethane	1,020	µg/L	SW8260C			1,000		102	72 - 135				
Surr: Toluene-d8	1,020	µg/L	SW8260C			1,000		102	80 - 124				

² - Analyte concentration is too high for accurate matrix spike recovery.



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1806343
Project: 2nd Quarter Chloroform 2018

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: 1806343-032CMSD		Date Analyzed: 06/18/2018 1836h											
Test Code: 8260-W-DEN100													
Chloroform	21,100	µg/L	SW8260C	49.9	500	10,000	1200	199	50 - 146	22300	5.49	25	2
Methylene chloride	12,000	µg/L	SW8260C	200	500	10,000	7.77	120	30 - 192	12700	5.33	25	
Surr: 1,2-Dichloroethane-d4	25,100	µg/L	SW8260C			25,000		100	72 - 151				
Surr: 4-Bromofluorobenzene	25,100	µg/L	SW8260C			25,000		100	80 - 152				
Surr: Dibromofluoromethane	25,300	µg/L	SW8260C			25,000		101	72 - 135				
Surr: Toluene-d8	25,300	µg/L	SW8260C			25,000		101	80 - 124				
Lab Sample ID: 1806343-031CMSD		Date Analyzed: 06/18/2018 1914h											
Test Code: 8260-W-DEN100													
Chloroform	2,830	µg/L	SW8260C	9.98	100	2,000	914	95.6	50 - 146	2900	2.51	25	
Methylene chloride	2,040	µg/L	SW8260C	40.0	100	2,000	0	102	30 - 192	2110	3.27	25	
Surr: 1,2-Dichloroethane-d4	5,220	µg/L	SW8260C			5,000		104	72 - 151				
Surr: 4-Bromofluorobenzene	5,050	µg/L	SW8260C			5,000		101	80 - 152				
Surr: Dibromofluoromethane	4,940	µg/L	SW8260C			5,000		98.7	72 - 135				
Surr: Toluene-d8	4,960	µg/L	SW8260C			5,000		99.3	80 - 124				
Lab Sample ID: 1806359-002AMSD		Date Analyzed: 06/19/2018 1153h											
Test Code: 8260-W-DEN100													
Chloroform	450	µg/L	SW8260C	2.00	20.0	400.0	0	113	50 - 146	422	6.51	25	
Surr: 1,2-Dichloroethane-d4	1,050	µg/L	SW8260C			1,000		105	72 - 151				
Surr: 4-Bromofluorobenzene	1,030	µg/L	SW8260C			1,000		103	80 - 152				
Surr: Dibromofluoromethane	1,040	µg/L	SW8260C			1,000		104	72 - 135				
Surr: Toluene-d8	1,050	µg/L	SW8260C			1,000		105	80 - 124				

² - Analyte concentration is too high for accurate matrix spike recovery.

WORK ORDER Summary

Work Order: **1806343**

Page 1 of 7

Client: Energy Fuels Resources, Inc.

Due Date: 6/26/2018

Client ID: ENE300

Contact: Garrin Palmer

Project: 2nd Quarter Chloroform 2018

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;

RW/nms

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1806343-001A	TW4-03R_06112018	6/11/2018 1010h	6/15/2018 0900h	300.0-W <i>1 SEL Analytes: CL</i>	Aqueous	<input checked="" type="checkbox"/>	df - wc	1
1806343-001B				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		<input checked="" type="checkbox"/>	df - no2/no3	
1806343-001C				8260-W-DEN100 <i>Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4</i>		<input checked="" type="checkbox"/>	VOCFridge	3
1806343-002A	TW4-03_06122018	6/12/2018 0657h	6/15/2018 0900h	300.0-W <i>1 SEL Analytes: CL</i>	Aqueous	<input checked="" type="checkbox"/>	df - wc	1
1806343-002B				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		<input checked="" type="checkbox"/>	df - no2/no3	
1806343-002C				8260-W-DEN100 <i>Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4</i>		<input checked="" type="checkbox"/>	VOCFridge	3
1806343-003A	TW4-28_06122018	6/12/2018 0707h	6/15/2018 0900h	300.0-W <i>1 SEL Analytes: CL</i>	Aqueous	<input checked="" type="checkbox"/>	df - wc	1
1806343-003B				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		<input checked="" type="checkbox"/>	df - no2/no3	
1806343-003C				8260-W-DEN100 <i>Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4</i>		<input checked="" type="checkbox"/>	VOCFridge	3
1806343-004A	TW4-32_06122018	6/12/2018 0716h	6/15/2018 0900h	300.0-W <i>1 SEL Analytes: CL</i>	Aqueous	<input checked="" type="checkbox"/>	df - wc	1
1806343-004B				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		<input checked="" type="checkbox"/>	df - no2/no3	
1806343-004C				8260-W-DEN100 <i>Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4</i>		<input checked="" type="checkbox"/>	VOCFridge	3
1806343-005A	TW4-12_06122018	6/12/2018 0723h	6/15/2018 0900h	300.0-W <i>1 SEL Analytes: CL</i>	Aqueous	<input checked="" type="checkbox"/>	df - wc	1
1806343-005B				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		<input checked="" type="checkbox"/>	df - no2/no3	

WORK ORDER Summary

Work Order: **1806343**

Page 2 of 7

Client: Energy Fuels Resources, Inc.

Due Date: 6/26/2018

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1806343-005C	TW4-12_06122018	6/12/2018 0723h	6/15/2018 0900h	8260-W-DEN100 <i>Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4</i>	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	3
1806343-006A	TW4-13_06122018	6/12/2018 0730h	6/15/2018 0900h	300.0-W <i>1 SEL Analytes: CL</i>	Aqueous	<input checked="" type="checkbox"/>	df - wc	1
1806343-006B				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		<input checked="" type="checkbox"/>	df - no2/no3	
1806343-006C				8260-W-DEN100 <i>Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4</i>		<input checked="" type="checkbox"/>	VOCFridge	3
1806343-007A	TW4-36_06122018	6/12/2018 0738h	6/15/2018 0900h	300.0-W <i>1 SEL Analytes: CL</i>	Aqueous	<input checked="" type="checkbox"/>	df - wc	1
1806343-007B				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		<input checked="" type="checkbox"/>	df - no2/no3	
1806343-007C				8260-W-DEN100 <i>Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4</i>		<input checked="" type="checkbox"/>	VOCFridge	3
1806343-008A	TW4-31_06122018	6/12/2018 0745h	6/15/2018 0900h	300.0-W <i>1 SEL Analytes: CL</i>	Aqueous	<input checked="" type="checkbox"/>	df - wc	1
1806343-008B				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		<input checked="" type="checkbox"/>	df - no2/no3	
1806343-008C				8260-W-DEN100 <i>Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4</i>		<input checked="" type="checkbox"/>	VOCFridge	3
1806343-009A	TW4-34_06132018	6/13/2018 0650h	6/15/2018 0900h	300.0-W <i>1 SEL Analytes: CL</i>	Aqueous	<input checked="" type="checkbox"/>	df - wc	1
1806343-009B				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		<input checked="" type="checkbox"/>	df - no2/no3	
1806343-009C				8260-W-DEN100 <i>Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4</i>		<input checked="" type="checkbox"/>	VOCFridge	3
1806343-010A	TW4-35_06132018	6/13/2018 0657h	6/15/2018 0900h	300.0-W <i>1 SEL Analytes: CL</i>	Aqueous	<input checked="" type="checkbox"/>	df - wc	1
1806343-010B				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		<input checked="" type="checkbox"/>	df - no2/no3	
1806343-010C				8260-W-DEN100 <i>Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4</i>		<input checked="" type="checkbox"/>	VOCFridge	3
1806343-011A	TW4-23_06132018	6/13/2018 0707h	6/15/2018 0900h	300.0-W <i>1 SEL Analytes: CL</i>	Aqueous	<input checked="" type="checkbox"/>	df - wc	1

WORK ORDER Summary

Work Order: **1806343** Page 3 of 7

Client: Energy Fuels Resources, Inc.

Due Date: 6/26/2018

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1806343-011B	TW4-23_06132018	6/13/2018 0707h	6/15/2018 0900h	NO2/NO3-W-353.2	Aqueous	<input checked="" type="checkbox"/>	df - no2/no3	1
				1 SEL Analytes: NO3NO2N				
1806343-011C				8260-W-DEN100		<input checked="" type="checkbox"/>	VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1806343-012A	MW-32_06142018	6/14/2018 1300h	6/15/2018 0900h	300.0-W	Aqueous	<input checked="" type="checkbox"/>	df - wc	1
				1 SEL Analytes: CL				
1806343-012B				NO2/NO3-W-353.2		<input checked="" type="checkbox"/>	df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1806343-012C				8260-W-DEN100		<input checked="" type="checkbox"/>	VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1806343-013A	TW4-38_06132018	6/13/2018 0720h	6/15/2018 0900h	300.0-W	Aqueous	<input checked="" type="checkbox"/>	df - wc	1
				1 SEL Analytes: CL				
1806343-013B				NO2/NO3-W-353.2		<input checked="" type="checkbox"/>	df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1806343-013C				8260-W-DEN100		<input checked="" type="checkbox"/>	VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1806343-014A	TW4-25_06142018	6/14/2018 1032h	6/15/2018 0900h	300.0-W	Aqueous	<input checked="" type="checkbox"/>	df - wc	1
				1 SEL Analytes: CL				
1806343-014B				NO2/NO3-W-353.2		<input checked="" type="checkbox"/>	df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1806343-014C				8260-W-DEN100		<input checked="" type="checkbox"/>	VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1806343-015A	TW4-14_06132018	6/13/2018 0728h	6/15/2018 0900h	300.0-W	Aqueous	<input checked="" type="checkbox"/>	df - wc	1
				1 SEL Analytes: CL				
1806343-015B				NO2/NO3-W-353.2		<input checked="" type="checkbox"/>	df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1806343-015C				8260-W-DEN100		<input checked="" type="checkbox"/>	VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1806343-016A	TW4-27_06132018	6/13/2018 0737h	6/15/2018 0900h	300.0-W	Aqueous	<input checked="" type="checkbox"/>	df - wc	1
				1 SEL Analytes: CL				
1806343-016B				NO2/NO3-W-353.2		<input checked="" type="checkbox"/>	df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1806343-016C				8260-W-DEN100		<input checked="" type="checkbox"/>	VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				

WORK ORDER Summary

Work Order: **1806343** Page 4 of 7

Client: Energy Fuels Resources, Inc.

Due Date: 6/26/2018

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1806343-017A	TW4-05_06132018	6/13/2018 0746h	6/15/2018 0900h	300.0-W <i>1 SEL Analytes: CL</i>	Aqueous	<input checked="" type="checkbox"/>	df - wc	1
1806343-017B				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		<input checked="" type="checkbox"/>	df - no2/no3	
1806343-017C				8260-W-DEN100 <i>Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4</i>		<input checked="" type="checkbox"/>	VOCFridge	3
1806343-018A	TW4-30_06132018	6/13/2018 0756h	6/15/2018 0900h	300.0-W <i>1 SEL Analytes: CL</i>	Aqueous	<input checked="" type="checkbox"/>	df - wc	1
1806343-018B				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		<input checked="" type="checkbox"/>	df - no2/no3	
1806343-018C				8260-W-DEN100 <i>Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4</i>		<input checked="" type="checkbox"/>	VOCFridge	3
1806343-019A	TW4-24_06142018	6/14/2018 1020h	6/15/2018 0900h	300.0-W <i>1 SEL Analytes: CL</i>	Aqueous	<input checked="" type="checkbox"/>	df - wc	1
1806343-019B				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		<input checked="" type="checkbox"/>	df - no2/no3	
1806343-019C				8260-W-DEN100 <i>Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4</i>		<input checked="" type="checkbox"/>	VOCFridge	3
1806343-020A	TW4-18_06132018	6/13/2018 0809h	6/15/2018 0900h	300.0-W <i>1 SEL Analytes: CL</i>	Aqueous	<input checked="" type="checkbox"/>	df - wc	1
1806343-020B				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		<input checked="" type="checkbox"/>	df - no2/no3	
1806343-020C				8260-W-DEN100 <i>Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4</i>		<input checked="" type="checkbox"/>	VOCFridge	3
1806343-021A	TW4-33_06132018	6/13/2018 0821h	6/15/2018 0900h	300.0-W <i>1 SEL Analytes: CL</i>	Aqueous	<input checked="" type="checkbox"/>	df - wc	1
1806343-021B				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		<input checked="" type="checkbox"/>	df - no2/no3	
1806343-021C				8260-W-DEN100 <i>Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4</i>		<input checked="" type="checkbox"/>	VOCFridge	3
1806343-022A	TW4-06_06142018	6/14/2018 0820h	6/15/2018 0900h	300.0-W <i>1 SEL Analytes: CL</i>	Aqueous	<input checked="" type="checkbox"/>	df - wc	1
1806343-022B				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		<input checked="" type="checkbox"/>	df - no2/no3	
1806343-022C				8260-W-DEN100 <i>Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4</i>		<input checked="" type="checkbox"/>	VOCFridge	3

WORK ORDER Summary

Work Order: **1806343** Page 5 of 7

Client: Energy Fuels Resources, Inc.

Due Date: 6/26/2018

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1806343-023A	TW4-06R_06132018	6/13/2018 0845h	6/15/2018 0900h	300.0-W	Aqueous	<input checked="" type="checkbox"/>	df - wc	1
				<i>1 SEL Analytes: CL</i>				
1806343-023B				NO2/NO3-W-353.2		<input checked="" type="checkbox"/>	df - no2/no3	
				<i>1 SEL Analytes: NO3NO2N</i>				
1806343-023C				8260-W-DEN100		<input checked="" type="checkbox"/>	VOCFridge	3
				<i>Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4</i>				
1806343-024A	TW4-09_06142018	6/14/2018 0831h	6/15/2018 0900h	300.0-W	Aqueous	<input checked="" type="checkbox"/>	df - wc	1
				<i>1 SEL Analytes: CL</i>				
1806343-024B				NO2/NO3-W-353.2		<input checked="" type="checkbox"/>	df - no2/no3	
				<i>1 SEL Analytes: NO3NO2N</i>				
1806343-024C				8260-W-DEN100		<input checked="" type="checkbox"/>	VOCFridge	3
				<i>Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4</i>				
1806343-025A	TW4-16_06142018	6/14/2018 0841h	6/15/2018 0900h	300.0-W	Aqueous	<input checked="" type="checkbox"/>	df - wc	1
				<i>1 SEL Analytes: CL</i>				
1806343-025B				NO2/NO3-W-353.2		<input checked="" type="checkbox"/>	df - no2/no3	
				<i>1 SEL Analytes: NO3NO2N</i>				
1806343-025C				8260-W-DEN100		<input checked="" type="checkbox"/>	VOCFridge	3
				<i>Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4</i>				
1806343-026A	TW4-08_06142018	6/14/2018 0847h	6/15/2018 0900h	300.0-W	Aqueous	<input checked="" type="checkbox"/>	df - wc	1
				<i>1 SEL Analytes: CL</i>				
1806343-026B				NO2/NO3-W-353.2		<input checked="" type="checkbox"/>	df - no2/no3	
				<i>1 SEL Analytes: NO3NO2N</i>				
1806343-026C				8260-W-DEN100		<input checked="" type="checkbox"/>	VOCFridge	3
				<i>Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4</i>				
1806343-027A	TW4-40_06142018	6/14/2018 0855h	6/15/2018 0900h	300.0-W	Aqueous	<input checked="" type="checkbox"/>	df - wc	1
				<i>1 SEL Analytes: CL</i>				
1806343-027B				NO2/NO3-W-353.2		<input checked="" type="checkbox"/>	df - no2/no3	
				<i>1 SEL Analytes: NO3NO2N</i>				
1806343-027C				8260-W-DEN100		<input checked="" type="checkbox"/>	VOCFridge	3
				<i>Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4</i>				
1806343-028A	TW4-29_06142018	6/14/2018 0903h	6/15/2018 0900h	300.0-W	Aqueous	<input checked="" type="checkbox"/>	df - wc	1
				<i>1 SEL Analytes: CL</i>				
1806343-028B				NO2/NO3-W-353.2		<input checked="" type="checkbox"/>	df - no2/no3	
				<i>1 SEL Analytes: NO3NO2N</i>				

WORK ORDER Summary

Work Order: **1806343** Page 6 of 7

Client: Energy Fuels Resources, Inc.

Due Date: 6/26/2018

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1806343-028C	TW4-29_06142018	6/14/2018 0903h	6/15/2018 0900h	8260-W-DEN100	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	3
<i>Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4</i>								
1806343-029A	TW4-07_06142018	6/14/2018 0912h	6/15/2018 0900h	300.0-W	Aqueous	<input checked="" type="checkbox"/>	df - wc	1
<i>1 SEL Analytes: CL</i>								
1806343-029B				NO2/NO3-W-353.2		<input checked="" type="checkbox"/>	df - no2/no3	
<i>1 SEL Analytes: NO3NO2N</i>								
1806343-029C				8260-W-DEN100		<input checked="" type="checkbox"/>	VOCFridge	3
<i>Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4</i>								
1806343-030A	TW4-26_06142018	6/14/2018 0953h	6/15/2018 0900h	300.0-W	Aqueous	<input checked="" type="checkbox"/>	df - wc	1
<i>1 SEL Analytes: CL</i>								
1806343-030B				NO2/NO3-W-353.2		<input checked="" type="checkbox"/>	df - no2/no3	
<i>1 SEL Analytes: NO3NO2N</i>								
1806343-030C				8260-W-DEN100		<input checked="" type="checkbox"/>	VOCFridge	3
<i>Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4</i>								
1806343-031A	TW4-10_06142018	6/14/2018 1001h	6/15/2018 0900h	300.0-W	Aqueous	<input checked="" type="checkbox"/>	df - wc	1
<i>1 SEL Analytes: CL</i>								
1806343-031B				NO2/NO3-W-353.2		<input checked="" type="checkbox"/>	df - no2/no3	
<i>1 SEL Analytes: NO3NO2N</i>								
1806343-031C				8260-W-DEN100		<input checked="" type="checkbox"/>	VOCFridge	3
<i>Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4</i>								
1806343-032A	TW4-20_06142018	6/14/2018 1010h	6/15/2018 0900h	300.0-W	Aqueous	<input checked="" type="checkbox"/>	df - wc	1
<i>1 SEL Analytes: CL</i>								
1806343-032B				NO2/NO3-W-353.2		<input checked="" type="checkbox"/>	df - no2/no3	
<i>1 SEL Analytes: NO3NO2N</i>								
1806343-032C				8260-W-DEN100		<input checked="" type="checkbox"/>	VOCFridge	3
<i>Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4</i>								
1806343-033A	TW4-65_06122018	6/12/2018 0707h	6/15/2018 0900h	300.0-W	Aqueous	<input checked="" type="checkbox"/>	df - wc	1
<i>1 SEL Analytes: CL</i>								
1806343-033B				NO2/NO3-W-353.2		<input checked="" type="checkbox"/>	df - no2/no3	
<i>1 SEL Analytes: NO3NO2N</i>								
1806343-033C				8260-W-DEN100		<input checked="" type="checkbox"/>	VOCFridge	3
<i>Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4</i>								
1806343-034A	TW4-70_06132018	6/13/2018 0707h	6/15/2018 0900h	300.0-W	Aqueous	<input checked="" type="checkbox"/>	df - wc	1
<i>1 SEL Analytes: CL</i>								

WORK ORDER Summary

Work Order: **1806343** Page 7 of 7

Client: Energy Fuels Resources, Inc.

Due Date: 6/26/2018

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1806343-034B	TW4-70_06132018	6/13/2018 0707h	6/15/2018 0900h	NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>	Aqueous	<input checked="" type="checkbox"/>	df - no2/no3	1
1806343-034C				8260-W-DEN100 <i>Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4</i>		<input checked="" type="checkbox"/>	VOCFridge	3
1806343-035A	TW4-75_06142018	6/14/2018 0831h	6/15/2018 0900h	300.0-W <i>1 SEL Analytes: CL</i>	Aqueous	<input checked="" type="checkbox"/>	df - wc	1
1806343-035B				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		<input checked="" type="checkbox"/>	df - no2/no3	
1806343-035C				8260-W-DEN100 <i>Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4</i>		<input checked="" type="checkbox"/>	VOCFridge	3
1806343-036A	Trip Blank	6/11/2018	6/15/2018 0900h	8260-W-DEN100 <i>Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4</i>	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	3



**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

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.

182 1806343
 AWAL Lab Sample Set #
 Page 1 of 13

QC Level: 3	Turn Around Time: Standard	Unless other arrangements have been made, signed reports will be emailed by 5:00 pm on the day they are due.	Due Date: 6/29/18
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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: **2nd Quarter Chloroform 2018**
 Project #: _____
 PO #: _____
 Sampler Name: **Tanner Holliday**

QC Level	Turn Around Time	Include EDD: LOCUS UPLOAD EXCEL Field Filtered For:		For Compliance With:		Known Hazards & Sample Comments	
3	Standard	<input checked="" type="checkbox"/>		<input type="checkbox"/> NELAP	<input type="checkbox"/> RCRA		
				<input type="checkbox"/> CWA	<input type="checkbox"/> SDWA		
				<input type="checkbox"/> ELAP / A2LA	<input type="checkbox"/> NLLAP		
				<input type="checkbox"/> Non-Compliance	<input type="checkbox"/> Other:		

Laboratory Use Only

Samples Were:

- Shipped or hand delivered
- Ambient or Chilled
- Temperature 1.1 °C
- Received Broken/Leaking (Improperly Sealed)
Y N
- Properly Preserved
Y N
Checked at bench
Y N
- 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)											
1 TW4-03R_06112018	6/11/2018	1010	5	W	X	X	X											
2 TW4-03_06122018	6/12/2018	657	5	W	X	X	X											
3 TW4-28_06122018	6/12/2018	707	5	W	X	X	X											
4 TW4-32_06122018	6/12/2018	716	5	W	X	X	X											
5 TW4-12_06122018	6/12/2018	723	5	W	X	X	X											
6 TW4-13_06122018	6/12/2018	730	5	W	X	X	X											
7 TW4-36_06122018	6/12/2018	738	5	W	X	X	X											
8 TW4-31_06122018	6/12/2018	745	5	W	X	X	X											
9 TW4-34_06132018	6/13/2018	650	5	W	X	X	X											
10 TW4-35_06132018	6/13/2018	657	5	W	X	X	X											
11 TW4-23_06132018	6/13/2018	707	5	W	X	X	X											
12 MW-32_06142018	6/14/2018	1300	5	W	X	X	X											
13 TW4-38_06132018	6/13/2018	720	5	W	X	X	X											

COC Tape Was:

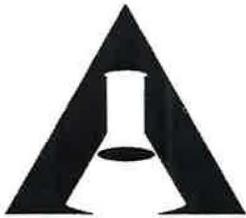
- Present on Outer Package
Y N NA
- Unbroken on Outer Package
Y N NA
- Present on Sample
Y N NA
- Unbroken on Sample
Y N NA

Discrepancies Between Sample Labels and COC Record?
Y N

Relinquished by: Signature: <i>Garrin Palmer</i>	Date: 6/15/18	Received by: Signature: <i>Robert Winkler</i>	Date: 6/15/18
Print Name: Garrin Palmer	Time: 0900	Print Name: ROBERT WINKLER	Time: 9:00
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.



**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

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.

1806343
AWAL Lab Sample Set #
Page 24 of 31

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		6/29/18																	
# of Containers Sample Matrix NO2/NO3 (353.2) Cl (4500 or 300.0) VOCs (8260C)		<input checked="" type="checkbox"/> Include EDD: LOCUS UPLOAD EXCEL Field Filtered For:	Laboratory Use Only Samples Were: 1 Shipped or hand delivered 2 Ambient or Chilled 3 Temperature <u>1.1</u> °C 4 Received Broken/Leaking (Improperly Sealed) Y <input type="checkbox"/> N <input checked="" type="checkbox"/> 5 Properly Preserved Y <input type="checkbox"/> N <input type="checkbox"/> Checked at bench Y <input type="checkbox"/> N <input type="checkbox"/> 6 Received Within Holding Times Y <input type="checkbox"/> N <input type="checkbox"/> COC Tape Was: 1 Present on Outer Package Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA 2 Unbroken on Outer Package Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA 3 Present on Sample Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA 4 Unbroken on Sample Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA Discrepancies Between Sample Labels and COC Record? Y <input type="checkbox"/> N <input checked="" type="checkbox"/>																	
				For Compliance With: <input type="checkbox"/> NELAP <input type="checkbox"/> RCRA <input type="checkbox"/> CWA <input type="checkbox"/> SDWA <input type="checkbox"/> ELAP / A2LA <input type="checkbox"/> NLLAP <input type="checkbox"/> Non-Compliance <input type="checkbox"/> Other:																
				Known Hazards & Sample Comments																
	Sample ID:	Date Sampled		Time Sampled																
	1 TW4-25_06142018	6/14/2018		1032	5	W	X	X	X											
	2 TW4-14_06132018	6/13/2018		728	5	W	X	X	X											
	3 TW4-27_06132018	6/13/2018		737	5	W	X	X	X											
	4 TW4-05_06132018	6/13/2018		746	5	W	X	X	X											
	5 TW4-30_06132018	6/13/2018		756	5	W	X	X	X											
	6 TW4-24_06142018	6/14/2018		1020	5	W	X	X	X											
	7 TW4-18_06132018	6/13/2018		809	5	W	X	X	X											
	8 TW4-33_06132018	6/13/2018		821	5	W	X	X	X											
	9 TW4-06_06142018	6/14/2018		820	5	W	X	X	X											
10 TW4-06R_06132018	6/13/2018	845	5	W	X	X	X													
11 TW4-09_06142018	6/14/2018	831	5	W	X	X	X													
12 TW4-16_06142018	6/14/2018	841	5	W	X	X	X													
13 TW4-08_06142018	6/14/2018	847	5	W	X	X	X													

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: **2nd Quarter Chloroform 2018**
 Project #: _____
 PO #: _____
 Sampler Name: **Tanner Holliday**

Relinquished by: Signature: <i>Garrin Palmer</i>	Date: 6/15/18	Received by: Signature: <i>FREDERICK WINKLER</i>	Date: 6/15/18
Print Name: <i>Garrin Palmer</i>	Time: 0900	Print Name: <i>FREDERICK WINKLER</i>	Time: 9:00
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.

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-SO ₄ E or E300.0	1 mg/L	28 days	None	≤ 6°C
Carbonate as CO ₃	A2320 B	1 mg/L	14 days	None	≤ 6°C
Bicarbonate as HCO ₃	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

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	--	--	1879		N/A	6.83		N/A	16.17		N/A	468		N/A	0		N/A
TW4-01	NA	Continuously pumped well	--	--	2513		N/A	6.85		N/A	16.90		N/A	478		N/A	0		N/A
TW4-02	NA	Continuously pumped well	--	--	3576		N/A	6.67		N/A	16.25		N/A	489		N/A	5		N/A
TW4-03	52.20	110	104.40	Pumped Dry	1751	1760	0.51	5.96	5.92	0.67	15.34	15.29	0.33	NM		NC	NM		NC
TW4-04	NA	Continuously pumped well	--	--	2319		N/A	6.97		N/A	16.50		N/A	477		N/A	3		N/A
TW4-05	35.22	100	70.44	OK	1504	1493	0.73	6.66	6.65	0.15	15.76	15.75	0.06	528	528	0.00	0	0	0.00
TW4-06	16.16	25	32.32	Pumped Dry	3902	3910	0.20	6.93	6.91	0.29	15.90	15.86	0.25	NM		NC	NM		NC
TW4-07	26.24	50	52.48	Pumped Dry	1757	1764	0.40	6.93	6.92	0.14	15.20	15.16	0.26	NM		NC	NM		NC
TW4-08	27.91	70	55.82	OK	5006	5006	0.00	6.42	6.45	0.47	15.47	15.42	0.32	553	553	0.00	0	0	0.00
TW4-09	35.35	90	70.70	OK	2487	2488	0.04	6.37	6.38	0.16	15.26	15.28	0.13	571	571	0.00	25	25	0.00
TW4-10	31.24	40	62.48	Pumped Dry	2925	2935	0.34	6.65	6.64	0.15	16.08	16.10	0.12	NM		NC	NM		NC
TW4-11	NA	Continuously pumped well	--	--	3625		N/A	6.67		N/A	16.59		N/A	457		N/A	5		N/A
TW4-12	33.70	70	67.40	Pumped Dry	1368	1375	0.51	6.85	6.85	0.00	14.74	14.80	0.41	NM		NC	NM		NC
TW4-13	33.88	65	67.76	Pumped Dry	2053	2061	0.39	6.99	7.01	0.29	14.63	14.63	0.00	NM		NC	NM		NC
TW4-14	11.08	15	22.16	Pumped Dry	5357	5360	0.06	6.43	6.44	0.16	14.98	14.95	0.20	NM		NC	NM		NC
MW-26	NA	Continuously pumped well	--	--	3324		N/A	6.64		N/A	16.73		N/A	503		N/A	2		N/A
TW4-16	52.17	120	104.34	OK	3760	3762	0.05	6.43	6.45	0.31	15.31	15.32	0.07	578	576	0.35	38	38	0.00
MW-32	33.46	67.27	66.92	OK	3805	3802	0.08	6.58	6.56	0.30	15.14	15.06	0.53	528	527	0.19	10	10	0.00
TW4-18	44.35	110	88.70	OK	1988	1969	0.96	6.40	6.40	0.00	15.79	15.78	0.06	550	550	0.00	25	25	0.00
TW4-19	NA	Continuously pumped well	--	--	2545		N/A	5.89		N/A	16.98		N/A	536		N/A	5		N/A
TW4-20	NA	Continuously pumped well	--	--	4295		N/A	6.30		N/A	16.57		N/A	550		N/A	5.5		N/A
TW4-21	NA	Continuously pumped well	--	--	4517		N/A	7.20		N/A	16.58		N/A	522		N/A	6.7		N/A
TW4-22	NA	Continuously pumped well	--	--	5476		N/A	6.67		N/A	16.04		N/A	515		N/A	0		N/A
TW4-23	28.96	100	57.92	OK	2589	2592	0.12	6.43	6.43	0.00	14.61	14.61	0.00	554	554	0.00	19	18	5.41
TW4-24	NA	Continuously pumped well	--	--	7878		N/A	6.40		N/A	15.80		N/A	544		N/A	4.1		N/A
TW4-25	NA	Continuously pumped well	--	--	2714		N/A	6.85		N/A	15.55		N/A	518		N/A	0		N/A
TW4-26	12.30	12.50	24.60	Pumped Dry	5195	5233	0.73	6.85	6.84	0.15	16.03	16.05	0.12	NM		NC	NM		NC
TW4-27	11.06	15	22.12	Pumped Dry	5116	5128	0.23	6.26	6.27	0.16	14.81	14.85	0.27	NM		NC	NM		NC
TW4-28	42.75	90	85.50	Pumped Dry	1439	1451	0.83	6.41	6.48	1.09	15.09	15.10	0.07	NM		NC	NM		NC
TW4-29	12.45	12.50	24.90	Pumped Dry	4053	4070	0.42	6.55	6.59	0.61	15.65	15.63	0.13	NM		NC	NM		NC
TW4-30	12.11	20	24.22	Pumped Dry	4485	4489	0.09	6.12	6.11	0.16	15.10	15.06	0.27	NM		NC	NM		NC
TW4-31	19.80	30	39.60	Pumped Dry	4417	4414	0.07	6.70	6.72	0.30	14.86	14.84	0.13	NM		NC	NM		NC
TW4-32	40.02	90	80.04	OK	6738	6769	0.46	3.36	3.36	0.00	15.21	15.20	0.07	681	680	0.15	25	25	0.00
TW4-33	7.62	10	15.24	Pumped Dry	4513	4532	0.42	5.70	5.75	0.87	15.06	15.03	0.20	NM		NC	NM		NC
TW4-34	14.39	30	28.78	Pumped Dry	3864	3847	0.44	7.16	7.14	0.28	15.97	16.01	0.25	NM		NC	NM		NC
TW4-35	7.95	13.33	15.90	Pumped Dry	4424	4429	0.11	6.89	6.87	0.29	15.10	15.06	0.27	NM		NC	NM		NC
TW4-36	28.05	45	56.10	Pumped Dry	2370	2374	0.17	6.90	6.91	0.14	14.66	14.68	0.14	NM		NC	NM		NC
TW4-37	NA	Continuously pumped well	--	--	3658		N/A	7.02		N/A	16.70		N/A	515		N/A	5		N/A
TW4-38	37.98	90	75.96	OK	1692	1708	0.94	6.65	6.63	0.30	14.97	14.96	0.07	527	528	0.19	19	20	5.13
TW4-39	NA	Continuously pumped well	--	--	2271		N/A	6.63		N/A	16.30		N/A	500		N/A	0		N/A
TW4-40	12.60	50	25.20	OK	4614	4608	0.13	6.25	6.25	0.00	15.21	15.21	0.00	562	563	0.18	31	32	3.17
TW4-41	NA	Continuously pumped well	--	--	2588		N/A	6.01		N/A	15.97		N/A	572		N/A	5.5		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, TW4-39 and TW4-41 are continually pumped wells. TW4-22, TW4-24, and TW4-25 are pumped under the nitrate program.

TW4-03, TW4-06, TW4-07, TW4-10, TW4-12, TW4-13, TW4-14, TW4-26, TW4-27, TW4-28, 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.

NS = Not Sampled.

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	5/9/2018	5/10/2018	1	14	OK
Trip Blank	Chloroform	5/9/2018	5/10/2018	1	14	OK
Trip Blank	Chloromethane	5/9/2018	5/10/2018	1	14	OK
Trip Blank	Methylene chloride	5/9/2018	5/10/2018	1	14	OK
Trip Blank	Carbon tetrachloride	6/8/2018	6/13/2018	5	14	OK
Trip Blank	Chloroform	6/8/2018	6/13/2018	5	14	OK
Trip Blank	Chloromethane	6/8/2018	6/13/2018	5	14	OK
Trip Blank	Methylene chloride	6/8/2018	6/13/2018	5	14	OK
Trip Blank	Carbon tetrachloride	6/11/2018	6/18/2018	7	14	OK
Trip Blank	Chloroform	6/11/2018	6/18/2018	7	14	OK
Trip Blank	Chloromethane	6/11/2018	6/18/2018	7	14	OK
Trip Blank	Methylene chloride	6/11/2018	6/18/2018	7	14	OK
MW-04	Chloride	6/8/2018	6/14/2018	6	28	OK
MW-04	Carbon tetrachloride	6/8/2018	6/13/2018	5	14	OK
MW-04	Chloroform	6/8/2018	6/13/2018	5	14	OK
MW-04	Chloromethane	6/8/2018	6/13/2018	5	14	OK
MW-04	Methylene chloride	6/8/2018	6/13/2018	5	14	OK
MW-04	Nitrate/Nitrite (as N)	6/8/2018	6/13/2018	5	28	OK
MW-26	Chloride	6/8/2018	6/14/2018	6	28	OK
MW-26	Carbon tetrachloride	6/8/2018	6/13/2018	5	14	OK
MW-26	Chloroform	6/8/2018	6/13/2018	5	14	OK
MW-26	Chloromethane	6/8/2018	6/13/2018	5	14	OK
MW-26	Methylene chloride	6/8/2018	6/13/2018	5	14	OK
MW-26	Nitrate/Nitrite (as N)	6/8/2018	6/13/2018	5	28	OK
MW-32	Chloride	6/14/2018	6/20/2018	6	28	OK
MW-32	Carbon tetrachloride	6/14/2018	6/18/2018	4	14	OK
MW-32	Chloroform	6/14/2018	6/18/2018	4	14	OK
MW-32	Chloromethane	6/14/2018	6/18/2018	4	14	OK
MW-32	Methylene chloride	6/14/2018	6/18/2018	4	14	OK
MW-32	Nitrate/Nitrite (as N)	6/14/2018	6/18/2018	4	28	OK
TW4-01	Chloride	6/8/2018	6/14/2018	6	28	OK
TW4-01	Carbon tetrachloride	6/8/2018	6/12/2018	4	14	OK
TW4-01	Chloroform	6/8/2018	6/12/2018	4	14	OK
TW4-01	Chloromethane	6/8/2018	6/12/2018	4	14	OK
TW4-01	Methylene chloride	6/8/2018	6/12/2018	4	14	OK
TW4-01	Nitrate/Nitrite (as N)	6/8/2018	6/13/2018	5	28	OK
TW4-02	Chloride	6/8/2018	6/14/2018	6	28	OK
TW4-02	Carbon tetrachloride	6/8/2018	6/12/2018	4	14	OK
TW4-02	Chloroform	6/8/2018	6/13/2018	5	14	OK
TW4-02	Chloromethane	6/8/2018	6/12/2018	4	14	OK
TW4-02	Methylene chloride	6/8/2018	6/12/2018	4	14	OK
TW4-02	Nitrate/Nitrite (as N)	6/8/2018	6/13/2018	5	28	OK
TW4-03	Chloride	6/12/2018	6/20/2018	8	28	OK
TW4-03	Carbon tetrachloride	6/12/2018	6/18/2018	6	14	OK
TW4-03	Chloroform	6/12/2018	6/18/2018	6	14	OK
TW4-03	Chloromethane	6/12/2018	6/18/2018	6	14	OK
TW4-03	Methylene chloride	6/12/2018	6/18/2018	6	14	OK
TW4-03	Nitrate/Nitrite (as N)	6/12/2018	6/18/2018	6	28	OK
TW4-03R	Chloride	6/11/2018	6/21/2018	10	28	OK
TW4-03R	Carbon tetrachloride	6/11/2018	6/18/2018	7	14	OK
TW4-03R	Chloroform	6/11/2018	6/18/2018	7	14	OK
TW4-03R	Chloromethane	6/11/2018	6/18/2018	7	14	OK
TW4-03R	Methylene chloride	6/11/2018	6/18/2018	7	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)	6/11/2018	6/18/2018	7	28	OK
TW4-04	Chloride	6/8/2018	6/14/2018	6	28	OK
TW4-04	Carbon tetrachloride	6/8/2018	6/13/2018	5	14	OK
TW4-04	Chloroform	6/8/2018	6/13/2018	5	14	OK
TW4-04	Chloromethane	6/8/2018	6/13/2018	5	14	OK
TW4-04	Methylene chloride	6/8/2018	6/13/2018	5	14	OK
TW4-04	Nitrate/Nitrite (as N)	6/8/2018	6/13/2018	5	28	OK
TW4-05	Chloride	6/13/2018	6/20/2018	7	28	OK
TW4-05	Carbon tetrachloride	6/13/2018	6/19/2018	6	14	OK
TW4-05	Chloroform	6/13/2018	6/19/2018	6	14	OK
TW4-05	Chloromethane	6/13/2018	6/19/2018	6	14	OK
TW4-05	Methylene chloride	6/13/2018	6/19/2018	6	14	OK
TW4-05	Nitrate/Nitrite (as N)	6/13/2018	6/18/2018	5	28	OK
TW4-06	Chloride	6/14/2018	6/20/2018	6	28	OK
TW4-06	Carbon tetrachloride	6/14/2018	6/18/2018	4	14	OK
TW4-06	Chloroform	6/14/2018	6/18/2018	4	14	OK
TW4-06	Chloromethane	6/14/2018	6/18/2018	4	14	OK
TW4-06	Methylene chloride	6/14/2018	6/18/2018	4	14	OK
TW4-06	Nitrate/Nitrite (as N)	6/14/2018	6/18/2018	4	28	OK
TW4-06R	Chloride	6/13/2018	6/21/2018	8	28	OK
TW4-06R	Carbon tetrachloride	6/13/2018	6/18/2018	5	14	OK
TW4-06R	Chloroform	6/13/2018	6/18/2018	5	14	OK
TW4-06R	Chloromethane	6/13/2018	6/18/2018	5	14	OK
TW4-06R	Methylene chloride	6/13/2018	6/18/2018	5	14	OK
TW4-06R	Nitrate/Nitrite (as N)	6/13/2018	7/9/2018	26	28	OK
TW4-07	Chloride	6/14/2018	6/21/2018	7	28	OK
TW4-07	Carbon tetrachloride	6/14/2018	6/18/2018	4	14	OK
TW4-07	Chloroform	6/14/2018	6/19/2018	5	14	OK
TW4-07	Chloromethane	6/14/2018	6/18/2018	4	14	OK
TW4-07	Methylene chloride	6/14/2018	6/18/2018	4	14	OK
TW4-07	Nitrate/Nitrite (as N)	6/14/2018	6/18/2018	4	28	OK
TW4-08	Chloride	6/14/2018	6/21/2018	7	28	OK
TW4-08	Carbon tetrachloride	6/14/2018	6/18/2018	4	14	OK
TW4-08	Chloroform	6/14/2018	6/18/2018	4	14	OK
TW4-08	Chloromethane	6/14/2018	6/18/2018	4	14	OK
TW4-08	Methylene chloride	6/14/2018	6/18/2018	4	14	OK
TW4-08	Nitrate/Nitrite (as N)	6/14/2018	6/18/2018	4	28	OK
TW4-09	Chloride	6/14/2018	6/21/2018	7	28	OK
TW4-09	Carbon tetrachloride	6/14/2018	6/18/2018	4	14	OK
TW4-09	Chloroform	6/14/2018	6/18/2018	4	14	OK
TW4-09	Chloromethane	6/14/2018	6/18/2018	4	14	OK
TW4-09	Methylene chloride	6/14/2018	6/18/2018	4	14	OK
TW4-09	Nitrate/Nitrite (as N)	6/14/2018	6/18/2018	4	28	OK
TW4-10	Chloride	6/14/2018	6/21/2018	7	28	OK
TW4-10	Carbon tetrachloride	6/14/2018	6/19/2018	5	14	OK
TW4-10	Chloroform	6/14/2018	6/18/2018	4	14	OK
TW4-10	Chloromethane	6/14/2018	6/19/2018	5	14	OK
TW4-10	Methylene chloride	6/14/2018	6/19/2018	5	14	OK
TW4-10	Nitrate/Nitrite (as N)	6/14/2018	6/18/2018	4	28	OK
TW4-11	Chloride	6/8/2018	6/14/2018	6	28	OK
TW4-11	Carbon tetrachloride	6/8/2018	6/13/2018	5	14	OK
TW4-11	Chloroform	6/8/2018	6/13/2018	5	14	OK
TW4-11	Chloromethane	6/8/2018	6/13/2018	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
TW4-11	Methylene chloride	6/8/2018	6/13/2018	5	14	OK
TW4-11	Nitrate/Nitrite (as N)	6/8/2018	6/13/2018	5	28	OK
TW4-12	Chloride	6/12/2018	6/20/2018	8	28	OK
TW4-12	Carbon tetrachloride	6/12/2018	6/18/2018	6	14	OK
TW4-12	Chloroform	6/12/2018	6/18/2018	6	14	OK
TW4-12	Chloromethane	6/12/2018	6/18/2018	6	14	OK
TW4-12	Methylene chloride	6/12/2018	6/18/2018	6	14	OK
TW4-12	Nitrate/Nitrite (as N)	6/12/2018	6/18/2018	6	28	OK
TW4-13	Chloride	6/12/2018	6/20/2018	8	28	OK
TW4-13	Carbon tetrachloride	6/12/2018	6/18/2018	6	14	OK
TW4-13	Chloroform	6/12/2018	6/18/2018	6	14	OK
TW4-13	Chloromethane	6/12/2018	6/18/2018	6	14	OK
TW4-13	Methylene chloride	6/12/2018	6/18/2018	6	14	OK
TW4-13	Nitrate/Nitrite (as N)	6/12/2018	6/18/2018	6	28	OK
TW4-14	Chloride	6/13/2018	6/20/2018	7	28	OK
TW4-14	Carbon tetrachloride	6/13/2018	6/19/2018	6	14	OK
TW4-14	Chloroform	6/13/2018	6/19/2018	6	14	OK
TW4-14	Chloromethane	6/13/2018	6/19/2018	6	14	OK
TW4-14	Methylene chloride	6/13/2018	6/19/2018	6	14	OK
TW4-14	Nitrate/Nitrite (as N)	6/13/2018	6/18/2018	5	28	OK
TW4-16	Chloride	6/14/2018	6/21/2018	7	28	OK
TW4-16	Carbon tetrachloride	6/14/2018	6/18/2018	4	14	OK
TW4-16	Chloroform	6/14/2018	6/18/2018	4	14	OK
TW4-16	Chloromethane	6/14/2018	6/18/2018	4	14	OK
TW4-16	Methylene chloride	6/14/2018	6/18/2018	4	14	OK
TW4-16	Nitrate/Nitrite (as N)	6/14/2018	6/18/2018	4	28	OK
TW4-18	Chloride	6/13/2018	6/20/2018	7	28	OK
TW4-18	Carbon tetrachloride	6/13/2018	6/18/2018	5	14	OK
TW4-18	Chloroform	6/13/2018	6/18/2018	5	14	OK
TW4-18	Chloromethane	6/13/2018	6/18/2018	5	14	OK
TW4-18	Methylene chloride	6/13/2018	6/18/2018	5	14	OK
TW4-18	Nitrate/Nitrite (as N)	6/13/2018	6/18/2018	5	28	OK
TW4-19	Chloride	6/8/2018	6/14/2018	6	28	OK
TW4-19	Carbon tetrachloride	6/8/2018	6/13/2018	5	14	OK
TW4-19	Chloroform	6/8/2018	6/13/2018	5	14	OK
TW4-19	Chloromethane	6/8/2018	6/13/2018	5	14	OK
TW4-19	Methylene chloride	6/8/2018	6/13/2018	5	14	OK
TW4-19	Nitrate/Nitrite (as N)	6/8/2018	6/13/2018	5	28	OK
TW4-20	Chloride	6/14/2018	6/21/2018	7	28	OK
TW4-20	Carbon tetrachloride	6/14/2018	6/19/2018	5	14	OK
TW4-20	Chloroform	6/14/2018	6/18/2018	4	14	OK
TW4-20	Chloromethane	6/14/2018	6/19/2018	5	14	OK
TW4-20	Methylene chloride	6/14/2018	6/19/2018	5	14	OK
TW4-20	Nitrate/Nitrite (as N)	6/14/2018	6/18/2018	4	28	OK
TW4-21	Chloride	6/8/2018	6/14/2018	6	28	OK
TW4-21	Carbon tetrachloride	6/8/2018	6/12/2018	4	14	OK
TW4-21	Chloroform	6/8/2018	6/13/2018	5	14	OK
TW4-21	Chloromethane	6/8/2018	6/12/2018	4	14	OK
TW4-21	Methylene chloride	6/8/2018	6/12/2018	4	14	OK
TW4-21	Nitrate/Nitrite (as N)	6/8/2018	6/13/2018	5	28	OK
TW4-22	Chloride	6/8/2018	6/14/2018	6	28	OK
TW4-22	Carbon tetrachloride	6/8/2018	6/13/2018	5	14	OK
TW4-22	Chloroform	6/8/2018	6/13/2018	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	6/8/2018	6/13/2018	5	14	OK
TW4-22	Methylene chloride	6/8/2018	6/13/2018	5	14	OK
TW4-22	Nitrate/Nitrite (as N)	6/8/2018	6/13/2018	5	28	OK
TW4-23	Chloride	6/13/2018	6/20/2018	7	28	OK
TW4-23	Carbon tetrachloride	6/13/2018	6/18/2018	5	14	OK
TW4-23	Chloroform	6/13/2018	6/18/2018	5	14	OK
TW4-23	Chloromethane	6/13/2018	6/18/2018	5	14	OK
TW4-23	Methylene chloride	6/13/2018	6/18/2018	5	14	OK
TW4-23	Nitrate/Nitrite (as N)	6/13/2018	6/18/2018	5	28	OK
TW4-24	Chloride	6/14/2018	6/20/2018	6	28	OK
TW4-24	Carbon tetrachloride	6/14/2018	6/18/2018	4	14	OK
TW4-24	Chloroform	6/14/2018	6/18/2018	4	14	OK
TW4-24	Chloromethane	6/14/2018	6/18/2018	4	14	OK
TW4-24	Methylene chloride	6/14/2018	6/18/2018	4	14	OK
TW4-24	Nitrate/Nitrite (as N)	6/14/2018	6/18/2018	4	28	OK
TW4-25	Chloride	6/14/2018	6/20/2018	6	28	OK
TW4-25	Carbon tetrachloride	6/14/2018	6/18/2018	4	14	OK
TW4-25	Chloroform	6/14/2018	6/18/2018	4	14	OK
TW4-25	Chloromethane	6/14/2018	6/18/2018	4	14	OK
TW4-25	Methylene chloride	6/14/2018	6/18/2018	4	14	OK
TW4-25	Nitrate/Nitrite (as N)	6/14/2018	6/18/2018	4	28	OK
TW4-26	Chloride	6/14/2018	6/21/2018	7	28	OK
TW4-26	Carbon tetrachloride	6/14/2018	6/18/2018	4	14	OK
TW4-26	Chloroform	6/14/2018	6/19/2018	5	14	OK
TW4-26	Chloromethane	6/14/2018	6/18/2018	4	14	OK
TW4-26	Methylene chloride	6/14/2018	6/18/2018	4	14	OK
TW4-26	Nitrate/Nitrite (as N)	6/14/2018	6/18/2018	4	28	OK
TW4-27	Chloride	6/13/2018	6/20/2018	7	28	OK
TW4-27	Carbon tetrachloride	6/13/2018	6/19/2018	6	14	OK
TW4-27	Chloroform	6/13/2018	6/19/2018	6	14	OK
TW4-27	Chloromethane	6/13/2018	6/19/2018	6	14	OK
TW4-27	Methylene chloride	6/13/2018	6/19/2018	6	14	OK
TW4-27	Nitrate/Nitrite (as N)	6/13/2018	6/18/2018	5	28	OK
TW4-28	Chloride	6/12/2018	6/20/2018	8	28	OK
TW4-28	Carbon tetrachloride	6/12/2018	6/18/2018	6	14	OK
TW4-28	Chloroform	6/12/2018	6/18/2018	6	14	OK
TW4-28	Chloromethane	6/12/2018	6/18/2018	6	14	OK
TW4-28	Methylene chloride	6/12/2018	6/18/2018	6	14	OK
TW4-28	Nitrate/Nitrite (as N)	6/12/2018	6/18/2018	6	28	OK
TW4-29	Chloride	6/14/2018	6/21/2018	7	28	OK
TW4-29	Carbon tetrachloride	6/14/2018	6/18/2018	4	14	OK
TW4-29	Chloroform	6/14/2018	6/19/2018	5	14	OK
TW4-29	Chloromethane	6/14/2018	6/18/2018	4	14	OK
TW4-29	Methylene chloride	6/14/2018	6/18/2018	4	14	OK
TW4-29	Nitrate/Nitrite (as N)	6/14/2018	6/18/2018	4	28	OK
TW4-30	Chloride	6/13/2018	6/20/2018	7	28	OK
TW4-30	Carbon tetrachloride	6/13/2018	6/19/2018	6	14	OK
TW4-30	Chloroform	6/13/2018	6/19/2018	6	14	OK
TW4-30	Chloromethane	6/13/2018	6/19/2018	6	14	OK
TW4-30	Methylene chloride	6/13/2018	6/19/2018	6	14	OK
TW4-30	Nitrate/Nitrite (as N)	6/13/2018	6/18/2018	5	28	OK
TW4-31	Chloride	6/12/2018	6/20/2018	8	28	OK
TW4-31	Carbon tetrachloride	6/12/2018	6/18/2018	6	14	OK

I-2: Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
TW4-31	Chloroform	6/12/2018	6/18/2018	6	14	OK
TW4-31	Chloromethane	6/12/2018	6/18/2018	6	14	OK
TW4-31	Methylene chloride	6/12/2018	6/18/2018	6	14	OK
TW4-31	Nitrate/Nitrite (as N)	6/12/2018	6/18/2018	6	28	OK
TW4-32	Chloride	6/12/2018	6/20/2018	8	28	OK
TW4-32	Carbon tetrachloride	6/12/2018	6/18/2018	6	14	OK
TW4-32	Chloroform	6/12/2018	6/18/2018	6	14	OK
TW4-32	Chloromethane	6/12/2018	6/18/2018	6	14	OK
TW4-32	Methylene chloride	6/12/2018	6/18/2018	6	14	OK
TW4-32	Nitrate/Nitrite (as N)	6/12/2018	6/18/2018	6	28	OK
TW4-33	Chloride	6/13/2018	6/20/2018	7	28	OK
TW4-33	Carbon tetrachloride	6/13/2018	6/18/2018	5	14	OK
TW4-33	Chloroform	6/13/2018	6/18/2018	5	14	OK
TW4-33	Chloromethane	6/13/2018	6/18/2018	5	14	OK
TW4-33	Methylene chloride	6/13/2018	6/18/2018	5	14	OK
TW4-33	Nitrate/Nitrite (as N)	6/13/2018	6/18/2018	5	28	OK
TW4-34	Chloride	6/13/2018	6/20/2018	7	28	OK
TW4-34	Carbon tetrachloride	6/13/2018	6/18/2018	5	14	OK
TW4-34	Chloroform	6/13/2018	6/18/2018	5	14	OK
TW4-34	Chloromethane	6/13/2018	6/18/2018	5	14	OK
TW4-34	Methylene chloride	6/13/2018	6/18/2018	5	14	OK
TW4-34	Nitrate/Nitrite (as N)	6/13/2018	6/18/2018	5	28	OK
TW4-35	Chloride	6/13/2018	6/20/2018	7	28	OK
TW4-35	Carbon tetrachloride	6/13/2018	6/18/2018	5	14	OK
TW4-35	Chloroform	6/13/2018	6/18/2018	5	14	OK
TW4-35	Chloromethane	6/13/2018	6/18/2018	5	14	OK
TW4-35	Methylene chloride	6/13/2018	6/18/2018	5	14	OK
TW4-35	Nitrate/Nitrite (as N)	6/13/2018	6/18/2018	5	28	OK
TW4-36	Chloride	6/12/2018	6/20/2018	8	28	OK
TW4-36	Carbon tetrachloride	6/12/2018	6/18/2018	6	14	OK
TW4-36	Chloroform	6/12/2018	6/18/2018	6	14	OK
TW4-36	Chloromethane	6/12/2018	6/18/2018	6	14	OK
TW4-36	Methylene chloride	6/12/2018	6/18/2018	6	14	OK
TW4-36	Nitrate/Nitrite (as N)	6/12/2018	6/18/2018	6	28	OK
TW4-37	Chloride	6/8/2018	6/14/2018	6	28	OK
TW4-37	Carbon tetrachloride	6/8/2018	6/13/2018	5	14	OK
TW4-37	Chloroform	6/8/2018	6/13/2018	5	14	OK
TW4-37	Chloromethane	6/8/2018	6/13/2018	5	14	OK
TW4-37	Methylene chloride	6/8/2018	6/13/2018	5	14	OK
TW4-37	Nitrate/Nitrite (as N)	6/8/2018	6/13/2018	5	28	OK
TW4-38	Chloride	6/13/2018	6/20/2018	7	28	OK
TW4-38	Carbon tetrachloride	6/13/2018	6/18/2018	5	14	OK
TW4-38	Chloroform	6/13/2018	6/18/2018	5	14	OK
TW4-38	Chloromethane	6/13/2018	6/18/2018	5	14	OK
TW4-38	Methylene chloride	6/13/2018	6/18/2018	5	14	OK
TW4-38	Nitrate/Nitrite (as N)	6/13/2018	6/18/2018	5	28	OK
TW4-39	Chloride	6/8/2018	6/14/2018	6	28	OK
TW4-39	Carbon tetrachloride	6/8/2018	6/13/2018	5	14	OK
TW4-39	Chloroform	6/8/2018	6/13/2018	5	14	OK
TW4-39	Chloromethane	6/8/2018	6/13/2018	5	14	OK
TW4-39	Methylene chloride	6/8/2018	6/13/2018	5	14	OK
TW4-39	Nitrate/Nitrite (as N)	6/8/2018	6/13/2018	5	28	OK
TW4-40	Chloride	6/14/2018	6/21/2018	7	28	OK

I-2: Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
TW4-40	Carbon tetrachloride	6/14/2018	6/18/2018	4	14	OK
TW4-40	Chloroform	6/14/2018	6/18/2018	4	14	OK
TW4-40	Chloromethane	6/14/2018	6/18/2018	4	14	OK
TW4-40	Methylene chloride	6/14/2018	6/18/2018	4	14	OK
TW4-40	Nitrate/Nitrite (as N)	6/14/2018	6/18/2018	4	28	OK
TW4-41	Chloride	5/9/2018	5/16/2018	7	28	OK
TW4-41	Carbon tetrachloride	5/9/2018	5/10/2018	1	14	OK
TW4-41	Chloroform	5/9/2018	5/10/2018	1	14	OK
TW4-41	Chloromethane	5/9/2018	5/10/2018	1	14	OK
TW4-41	Methylene chloride	5/9/2018	5/10/2018	1	14	OK
TW4-41	Nitrate/Nitrite (as N)	5/9/2018	5/21/2018	12	28	OK
TW4-60	Chloride	6/8/2018	6/14/2018	6	28	OK
TW4-60	Carbon tetrachloride	6/8/2018	6/19/2018	11	14	OK
TW4-60	Chloroform	6/8/2018	6/19/2018	11	14	OK
TW4-60	Chloromethane	6/8/2018	6/19/2018	11	14	OK
TW4-60	Methylene chloride	6/8/2018	6/19/2018	11	14	OK
TW4-60	Nitrate/Nitrite (as N)	6/8/2018	6/13/2018	5	28	OK
TW4-65	Chloride	6/12/2018	6/21/2018	9	28	OK
TW4-65	Carbon tetrachloride	6/12/2018	6/18/2018	6	14	OK
TW4-65	Chloroform	6/12/2018	6/18/2018	6	14	OK
TW4-65	Chloromethane	6/12/2018	6/18/2018	6	14	OK
TW4-65	Methylene chloride	6/12/2018	6/18/2018	6	14	OK
TW4-65	Nitrate/Nitrite (as N)	6/12/2018	6/18/2018	6	28	OK
TW4-70	Chloride	6/13/2018	6/21/2018	8	28	OK
TW4-70	Carbon tetrachloride	6/13/2018	6/18/2018	5	14	OK
TW4-70	Chloroform	6/13/2018	6/18/2018	5	14	OK
TW4-70	Chloromethane	6/13/2018	6/18/2018	5	14	OK
TW4-70	Methylene chloride	6/13/2018	6/18/2018	5	14	OK
TW4-70	Nitrate/Nitrite (as N)	6/13/2018	6/18/2018	5	28	OK
TW4-75	Chloride	6/14/2018	6/21/2018	7	28	OK
TW4-75	Carbon tetrachloride	6/14/2018	6/18/2018	4	14	OK
TW4-75	Chloroform	6/14/2018	6/18/2018	4	14	OK
TW4-75	Chloromethane	6/14/2018	6/18/2018	4	14	OK
TW4-75	Methylene chloride	6/14/2018	6/18/2018	4	14	OK
TW4-75	Nitrate/Nitrite (as N)	6/14/2018	6/18/2018	4	28	OK

Table I-3 Receipt Temperature Check

Sample Batch	Wells in Batch	Temperature
1805254	TW4-41, Trip Blank	1.8°C
1806233	MW-04, TW4-01, TW4-02, TW4-04, TW4-11, MW-26, TW4-19, TW4-21, TW4-22, TW4-37, TW4-39, TW4-60, Trip Blank	3.8°C
1806343	TW4-03, TW4-03R, TW4-05, TW4-06, TW4-06R, TW4-07, TW4-08, TW4-09, TW4-10, TW4-12, TW4-13, TW4-14, TW4-16, MW-32, TW4-18, TW4-20, TW4-23, TW4-24, TW4-25, TW4-26, TW4-27, TW4-28, TW4-29, TW4-30, TW4-31, TW4-32, TW4-33, TW4-34, TW4-35, TW4-36, TW4-38, TW4-40, TW4-65, TW4-70, TW4-75, Trip Blank	1.1°C

I-4 Analytical Method Check

Parameter	Method	Method Used by Lab
Carbon Tetrachloride	SW8260B or SW8260C	SW8260C
Chloride	A4500-CI B or A4500-CI E or E300.0	E300.0
Chloroform	SW8260B or SW8260C	SW8260C
Chloromethane	SW8260B or SW8260C	SW8260C
Methylene chloride	SW8260B or SW8260C	SW8260C
Nitrogen	E353.1 or E353.2	E353.2

All parameters were analyzed using the reporting method specified in the QAP

I-5 Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
Trip Blank	Carbon tetrachloride	1	ug/L	U	1	1	OK
Trip Blank	Chloroform	1	ug/L	U	1	1	OK
Trip Blank	Chloromethane	1	ug/L	U	1	1	OK
Trip Blank	Methylene chloride	1	ug/L	U	1	1	OK
Trip Blank	Carbon tetrachloride	1	ug/L	U	1	1	OK
Trip Blank	Chloroform	1	ug/L	U	1	1	OK
Trip Blank	Chloromethane	1	ug/L	U	1	1	OK
Trip Blank	Methylene chloride	1	ug/L	U	1	1	OK
Trip Blank	Carbon tetrachloride	1	ug/L	U	1	1	OK
Trip Blank	Chloroform	1	ug/L	U	1	1	OK
Trip Blank	Chloromethane	1	ug/L	U	1	1	OK
Trip Blank	Methylene chloride	1	ug/L	U	1	1	OK
MW-04	Chloride	10	mg/L		10	1	OK
MW-04	Carbon tetrachloride	1	ug/L	U	1	1	OK
MW-04	Chloroform	50	ug/L		50	1	OK
MW-04	Chloromethane	1	ug/L	U	1	1	OK
MW-04	Methylene chloride	1	ug/L	U	1	1	OK
MW-04	Nitrate/Nitrite (as N)	0.1	mg/L		10	0.1	OK
MW-26	Chloride	10	mg/L		10	1	OK
MW-26	Carbon tetrachloride	1	ug/L	U	1	1	OK
MW-26	Chloroform	50	ug/L		50	1	OK
MW-26	Chloromethane	1	ug/L	U	1	1	OK
MW-26	Methylene chloride	1	ug/L		1	1	OK
MW-26	Nitrate/Nitrite (as N)	0.1	mg/L		10	0.1	OK
MW-32	Chloride	10	mg/L		10	1	OK
MW-32	Carbon tetrachloride	1	ug/L	U	1	1	OK
MW-32	Chloroform	1	ug/L	U	1	1	OK
MW-32	Chloromethane	1	ug/L	U	1	1	OK
MW-32	Methylene chloride	1	ug/L	U	1	1	OK
MW-32	Nitrate/Nitrite (as N)	0.1	mg/L	U	10	0.1	OK
TW4-01	Chloride	10	mg/L		10	1	OK
TW4-01	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-01	Chloroform	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	U	1	1	OK
TW4-03R	Chloromethane	1	ug/L	U	1	1	OK
TW4-03R	Methylene chloride	1	ug/L	U	1	1	OK
TW4-03R	Nitrate/Nitrite (as N)	0.1	mg/L	U	10	0.1	OK

I-5 Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
TW4-04	Chloride	10	mg/L		10	1	OK
TW4-04	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-04	Chloroform	50	ug/L		50	1	OK
TW4-04	Chloromethane	1	ug/L	U	1	1	OK
TW4-04	Methylene chloride	1	ug/L	U	1	1	OK
TW4-04	Nitrate/Nitrite (as N)	0.1	mg/L		10	0.1	OK
TW4-05	Chloride	10	mg/L		10	1	OK
TW4-05	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-05	Chloroform	1	ug/L		1	1	OK
TW4-05	Chloromethane	1	ug/L	U	1	1	OK
TW4-05	Methylene chloride	1	ug/L	U	1	1	OK
TW4-05	Nitrate/Nitrite (as N)	0.1	mg/L		10	0.1	OK
TW4-06	Chloride	10	mg/L		10	1	OK
TW4-06	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-06	Chloroform	1	ug/L		1	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
TW4-06R	Chloride	1	mg/L	U	1	1	OK
TW4-06R	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-06R	Chloroform	1	ug/L	U	1	1	OK
TW4-06R	Chloromethane	1	ug/L	U	1	1	OK
TW4-06R	Methylene chloride	1	ug/L	U	1	1	OK
TW4-06R	Nitrate/Nitrite (as N)	0.1	mg/L	U	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	20	ug/L		20	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	1	ug/L		1	1	OK
TW4-08	Chloromethane	1	ug/L	U	1	1	OK
TW4-08	Methylene chloride	1	ug/L	U	1	1	OK
TW4-08	Nitrate/Nitrite (as N)	0.1	mg/L		10	0.1	OK
TW4-09	Chloride	10	mg/L		10	1	OK
TW4-09	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-09	Chloroform	1	ug/L		1	1	OK
TW4-09	Chloromethane	1	ug/L	U	1	1	OK
TW4-09	Methylene chloride	1	ug/L	U	1	1	OK
TW4-09	Nitrate/Nitrite (as N)	0.1	mg/L		10	0.1	OK
TW4-10	Chloride	10	mg/L		10	1	OK
TW4-10	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-10	Chloroform	100	ug/L		100	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	50	ug/L		50	1	OK
TW4-11	Chloromethane	1	ug/L	U	1	1	OK
TW4-11	Methylene chloride	1	ug/L	U	1	1	OK
TW4-11	Nitrate/Nitrite (as N)	0.1	mg/L		10	0.1	OK

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)	0.2	mg/L		20	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	100	mg/L		100	1	OK
TW4-20	Carbon tetrachloride	1	ug/L	U	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		1	1	OK
TW4-20	Nitrate/Nitrite (as N)	0.1	mg/L		10	0.1	OK
TW4-21	Chloride	100	mg/L		100	1	OK
TW4-21	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-21	Chloroform	10	ug/L		10	1	OK
TW4-21	Chloromethane	1	ug/L	U	1	1	OK
TW4-21	Methylene chloride	1	ug/L	U	1	1	OK
TW4-21	Nitrate/Nitrite (as N)	0.1	mg/L		10	0.1	OK
TW4-22	Chloride	100	mg/L		100	1	OK
TW4-22	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-22	Chloroform	50	ug/L		50	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	20	mg/L		20	1	OK
TW4-25	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-25	Chloroform	1	ug/L	U	1	1	OK
TW4-25	Chloromethane	1	ug/L	U	1	1	OK
TW4-25	Methylene chloride	1	ug/L	U	1	1	OK
TW4-25	Nitrate/Nitrite (as N)	0.1	mg/L		10	0.1	OK
TW4-26	Chloride	10	mg/L		10	1	OK
TW4-26	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-26	Chloroform	20	ug/L		20	1	OK
TW4-26	Chloromethane	1	ug/L	U	1	1	OK
TW4-26	Methylene chloride	1	ug/L	U	1	1	OK
TW4-26	Nitrate/Nitrite (as N)	0.1	mg/L		10	0.1	OK
TW4-27	Chloride	10	mg/L		10	1	OK
TW4-27	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-27	Chloroform	1	ug/L		1	1	OK
TW4-27	Chloromethane	1	ug/L	U	1	1	OK
TW4-27	Methylene chloride	1	ug/L	U	1	1	OK
TW4-27	Nitrate/Nitrite (as N)	0.5	mg/L		50	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)	0.2	mg/L		20	0.1	OK
TW4-30	Chloride	10	mg/L		10	1	OK
TW4-30	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-30	Chloroform	1	ug/L		1	1	OK
TW4-30	Chloromethane	1	ug/L	U	1	1	OK
TW4-30	Methylene chloride	1	ug/L	U	1	1	OK
TW4-30	Nitrate/Nitrite (as N)	0.1	mg/L		10	0.1	OK
TW4-31	Chloride	10	mg/L		10	1	OK
TW4-31	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-31	Chloroform	1	ug/L	U	1	1	OK
TW4-31	Chloromethane	1	ug/L	U	1	1	OK
TW4-31	Methylene chloride	1	ug/L	U	1	1	OK
TW4-31	Nitrate/Nitrite (as N)	0.1	mg/L		10	0.1	OK

I-5 Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
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	10	mg/L		10	1	OK
TW4-34	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-34	Chloroform	1	ug/L	U	1	1	OK
TW4-34	Chloromethane	1	ug/L	U	1	1	OK
TW4-34	Methylene chloride	1	ug/L	U	1	1	OK
TW4-34	Nitrate/Nitrite (as N)	0.1	mg/L		10	0.1	OK
TW4-35	Chloride	10	mg/L		10	1	OK
TW4-35	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-35	Chloroform	1	ug/L	U	1	1	OK
TW4-35	Chloromethane	1	ug/L	U	1	1	OK
TW4-35	Methylene chloride	1	ug/L	U	1	1	OK
TW4-35	Nitrate/Nitrite (as N)	0.1	mg/L		10	0.1	OK
TW4-36	Chloride	10	mg/L		10	1	OK
TW4-36	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-36	Chloroform	1	ug/L	U	1	1	OK
TW4-36	Chloromethane	1	ug/L	U	1	1	OK
TW4-36	Methylene chloride	1	ug/L	U	1	1	OK
TW4-36	Nitrate/Nitrite (as N)	0.1	mg/L	U	10	0.1	OK
TW4-37	Chloride	100	mg/L		100	1	OK
TW4-37	Carbon tetrachloride	1	ug/L		1	1	OK
TW4-37	Chloroform	100	ug/L		100	1	OK
TW4-37	Chloromethane	1	ug/L	U	1	1	OK
TW4-37	Methylene chloride	1	ug/L	U	1	1	OK
TW4-37	Nitrate/Nitrite (as N)	0.5	mg/L		50	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	50	ug/L		50	1	OK
TW4-39	Chloromethane	1	ug/L	U	1	1	OK
TW4-39	Methylene chloride	1	ug/L	U	1	1	OK
TW4-39	Nitrate/Nitrite (as N)	0.1	mg/L		10	0.1	OK
TW4-40	Chloride	10	mg/L		10	1	OK
TW4-40	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-40	Chloroform	1	ug/L		1	1	OK
TW4-40	Chloromethane	1	ug/L	U	1	1	OK
TW4-40	Methylene chloride	1	ug/L	U	1	1	OK
TW4-40	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
TW4-41	Chloride	10	mg/L		10	1	OK
TW4-41	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-41	Chloroform	100	ug/L		100	1	OK
TW4-41	Chloromethane	1	ug/L	U	1	1	OK
TW4-41	Methylene chloride	1	ug/L	U	1	1	OK
TW4-41	Nitrate/Nitrite (as N)	0.1	mg/L		10	0.1	OK
TW4-60	Chloride	1	mg/L	U	1	1	OK
TW4-60	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-60	Chloroform	1	ug/L	U	1	1	OK
TW4-60	Chloromethane	1	ug/L	U	1	1	OK
TW4-60	Methylene chloride	1	ug/L	U	1	1	OK
TW4-60	Nitrate/Nitrite (as N)	0.1	mg/L	U	10	0.1	OK
TW4-65	Chloride	10	mg/L		10	1	OK
TW4-65	Carbon tetrachloride	1	ug/L	U	1	1	OK
TW4-65	Chloroform	1	ug/L	U	1	1	OK
TW4-65	Chloromethane	1	ug/L	U	1	1	OK
TW4-65	Methylene chloride	1	ug/L	U	1	1	OK
TW4-65	Nitrate/Nitrite (as N)	0.5	mg/L		50	0.1	OK
TW4-70	Chloride	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	
1805254	Carbon tetrachloride	ND	ug/L
	Chloroform	ND	ug/L
	Chloromethane	ND	ug/L
	Methylene chloride	ND	ug/L
1806233	Carbon tetrachloride	ND	ug/L
	Chloroform	ND	ug/L
	Chloromethane	ND	ug/L
	Methylene chloride	ND	ug/L
1806343	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)	55.7	56.7	1.8
Nitrate + Nitrite (as N)	19.0	18.70	1.6
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)	47.6	47.9	0.6
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	TW4-9	TW4-75	%RPD
Chloride (mg/L)	35.7	35.2	1.4
Nitrate + Nitrite (as N)	1.85	1.91	3.2
Carbon Tetrachloride	ND	ND	NC
Chloroform	134	132	1.5
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

Lab Report	Well/Sample	Analyte	Reported Concentration	QAP Required RL
1805254	N/A	Chloromethane	7.27 ug/L	1.0 ug/L
1806233	N/A	Chloromethane	1.91 ug/L	1.0 ug/L
1806233	N/A	Chloromethane	1.80 ug/L	1.0 ug/L
1806233	N/A	Chloromethane	1.97 ug/L	1.0 ug/L
1806343	N/A	Chloromethane	1.12 ug/L	1.0 ug/L

Matrix Spike % Recovery Comparison

Lab Report	Lab Sample ID	Well	Analyte	MS %REC	MSD %REC	REC Range	RPD	RPD Range
1806343	1806343-010BMS	TW4-35	Nitrate	112	107	90-110	11.8	10
1806343	1806343-032CMS	TW4-20	Chloroform*	NC	NC	50-146	NC	25

* - Recovery was not calculated because the analyte of the sample was greater than 4 times the spike amount

N/A - QC was not performed on an EFRI sample.

NC - Not calculated

Laboratory Control Sample

All LCS recoveries for the quarter were within acceptance limits.

Surrogate % Recovery

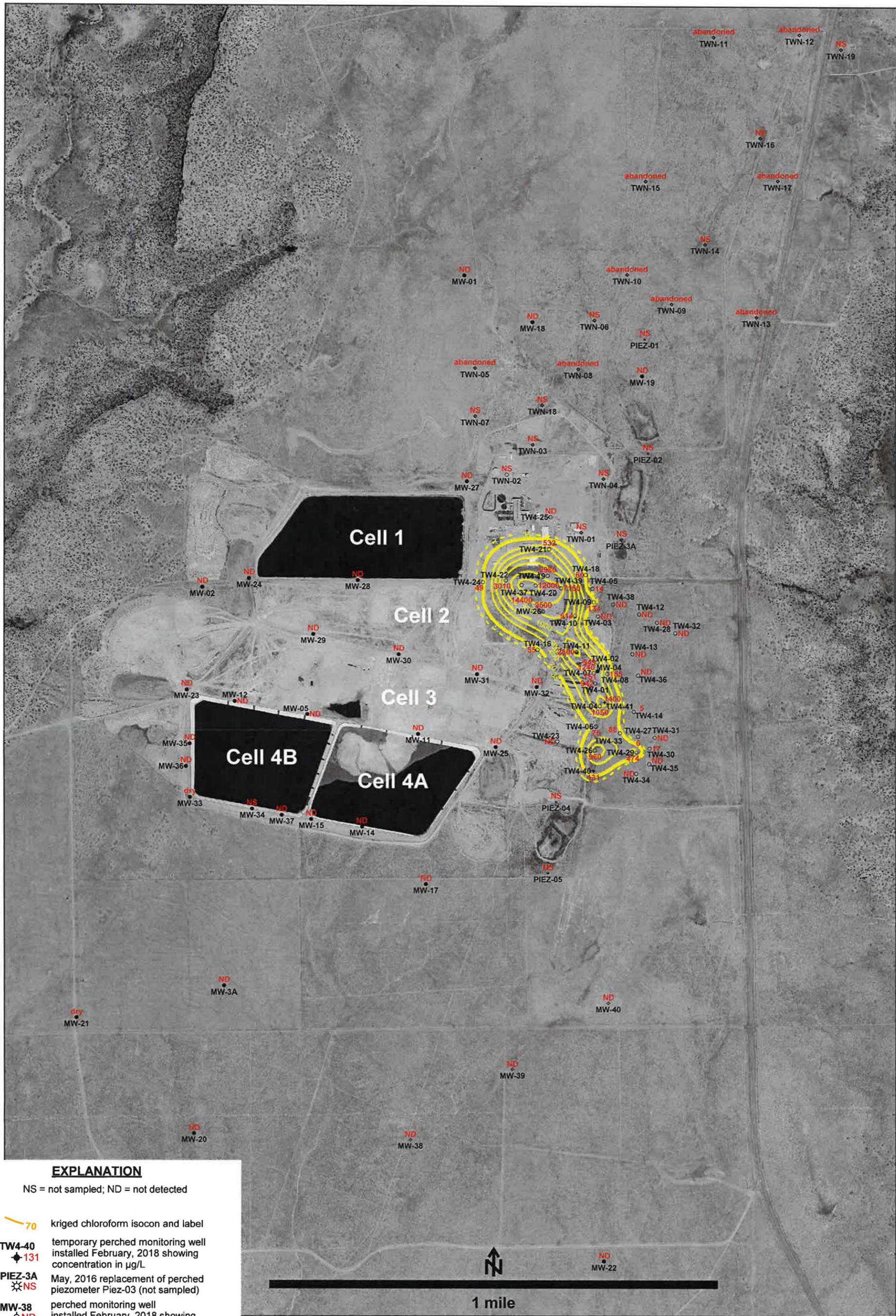
All Surrogate recoveries were within acceptance limits for the quarter.

I-9 Rinsate Evaluation

All rinsate blanks results were nondetect for the quarter.

Tab J

Kriged Current Quarter Chloroform Isoconcentration Map



EXPLANATION

NS = not sampled; ND = not detected

-  70 kriged chloroform isocon and label
-  TW4-40 temporary perched monitoring well installed February, 2018 showing concentration in µg/L
-  PIEZ-3A May, 2016 replacement of perched piezometer Piez-03 (not sampled)
-  MW-38 perched monitoring well installed February, 2018 showing concentration in µg/L
-  MW-32 perched monitoring well showing concentration in µg/L
-  TW4-7 temporary perched monitoring well showing concentration in µg/L
-  TWN-1 temporary perched nitrate monitoring well (not sampled)
-  PIEZ-1 perched piezometer (not sampled)

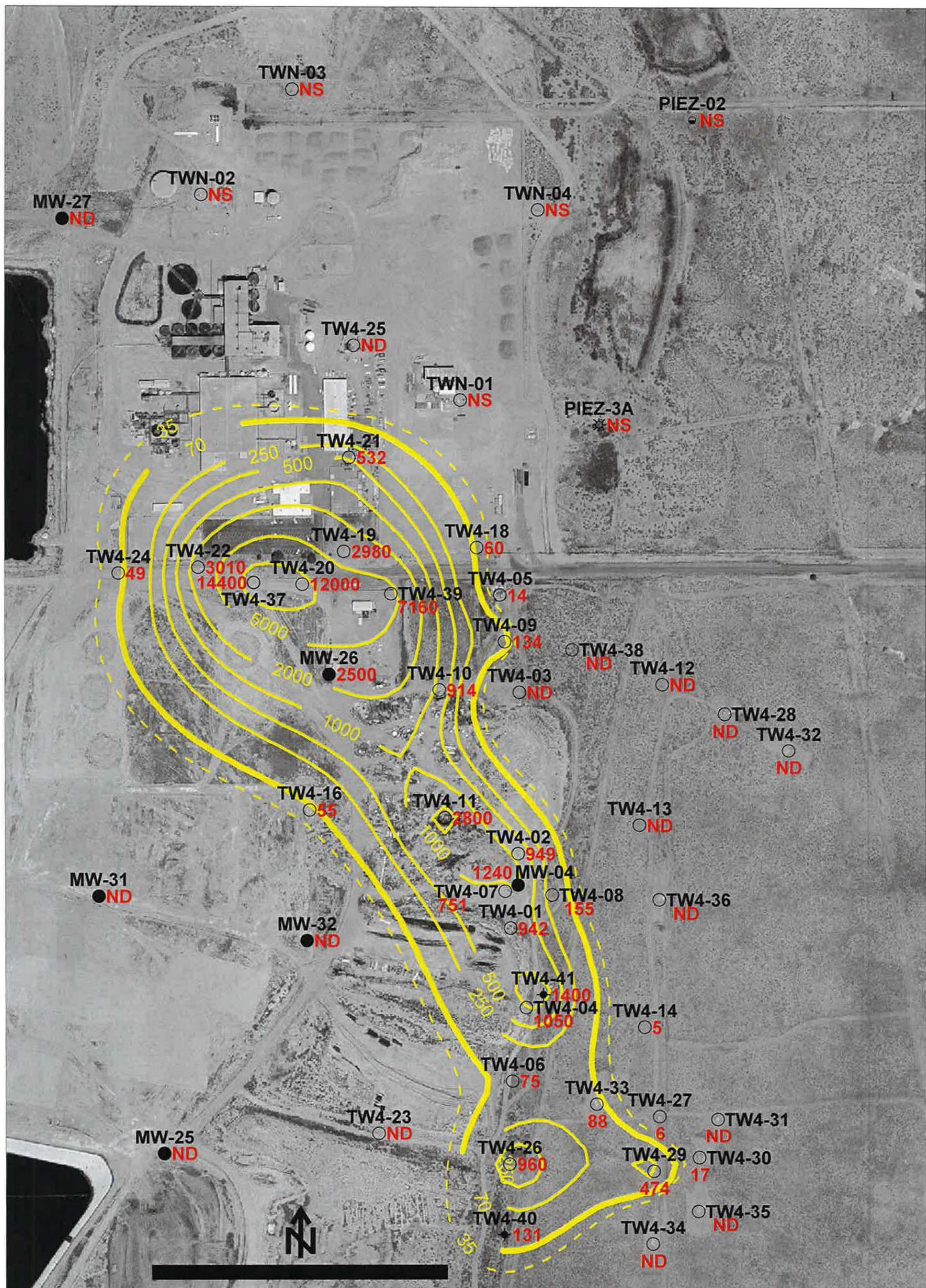
NOTES: MW-4, MW-26, TW4-1, TW4-2, TW4-4, TW4-11, TW4-19, TW4-20, TW4-21, TW4-37, TW4-39 and TW4-41 are chloroform pumping wells; TW4-22, TW4-24, TW4-25 and TWN-2 are nitrate pumping wells;



**HYDRO
GEO
CHEM, INC.**

**KRIGED 2nd QUARTER, 2018 CHLOROFORM (µg/L)
WHITE MESA SITE**

APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/aug18/chloroform/Uchl0618.srf	J-1



EXPLANATION

NS = not sampled; ND = not detected

- 70 kriged chloroform isocon and label
- ◆ 131 TW4-40 temporary perched monitoring well installed February, 2018 showing concentration in µg/L
- ✱ NS PIEZ-3A May, 2016 replacement of perched piezometer Piez-03 (not sampled)
- ND MW-32 perched monitoring well showing concentration (µg/L)
- 751 TW4-7 temporary perched monitoring well showing concentration (µg/L)
- NS PIEZ-2 perched piezometer (not sampled)

1000 feet

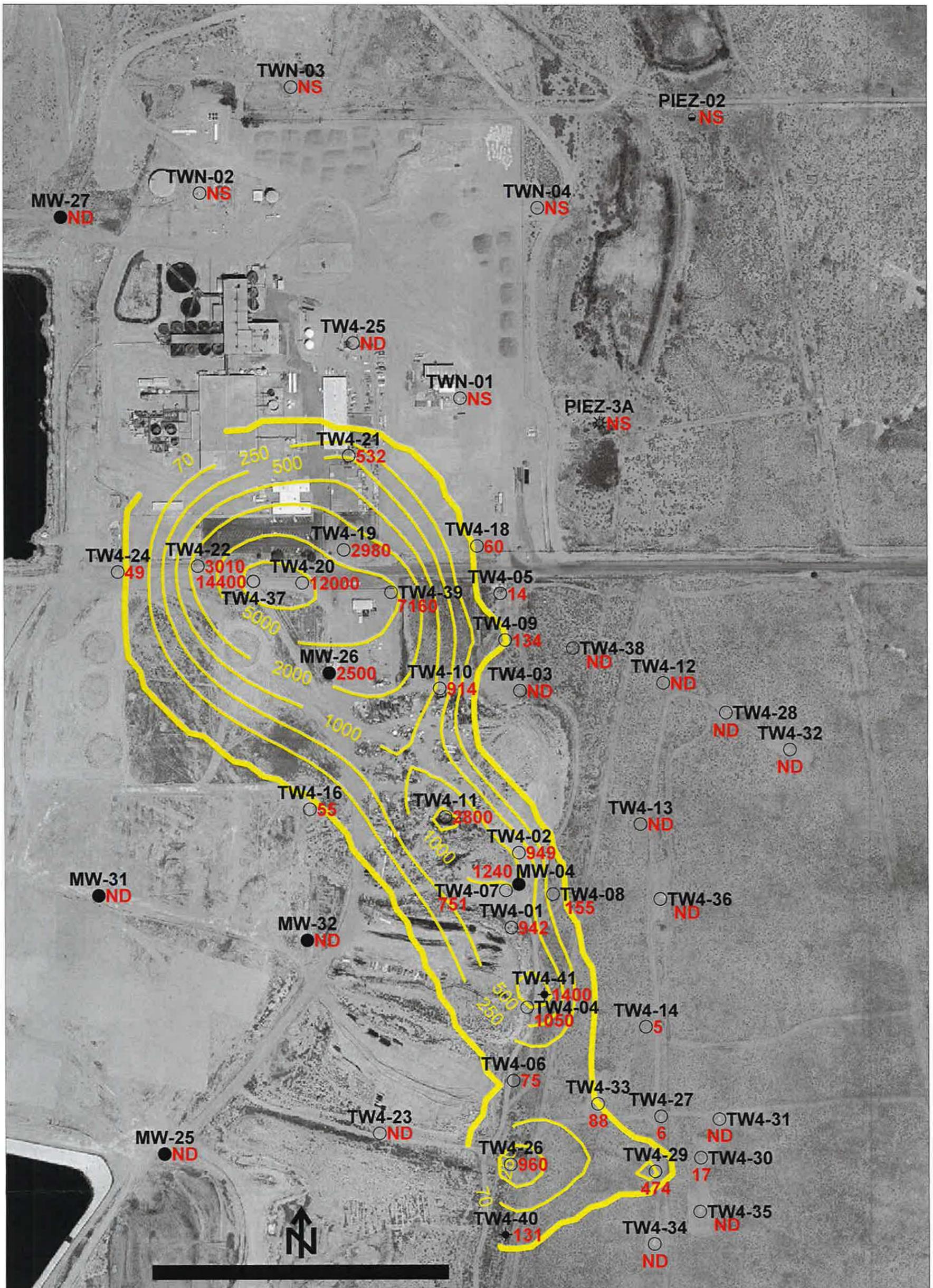
NOTES: MW-4, MW-26, TW4-1, TW4-2, TW4-4, TW4-11, TW4-19, TW4-20, TW4-21, TW4-37, TW4-39 and TW4-41 are chloroform pumping wells; TW4-22, TW4-24, TW4-25 and TWN-2 are nitrate pumping wells;



**HYDRO
GEO
CHEM, INC.**

**KRIGED 2nd QUARTER, 2018 CHLOROFORM (µg/L)
WHITE MESA SITE
(detail map)**

APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/aug18/chloroform/Uchi0618det.srf	J-2

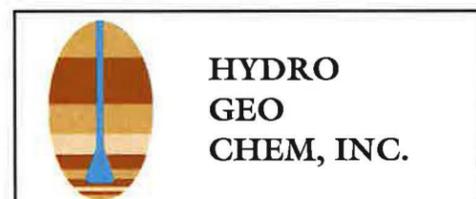


EXPLANATION

NS = not sampled; ND = not detected

- 70 kriged chloroform isocon and label
- TW4-40 ◆ 131 temporary perched monitoring well installed February, 2018 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 ○ 751 temporary perched monitoring well showing concentration (µg/L)
- PIEZ-2 ○ 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, TW4-39 and TW4-41 are chloroform pumping wells; TW4-22, TW4-24, TW4-25 and TWN-2 are nitrate pumping wells;



**2nd QUARTER, 2018 CHLOROFORM
GREATER THAN OR EQUAL TO 70 µg/L GRID
WHITE MESA SITE**

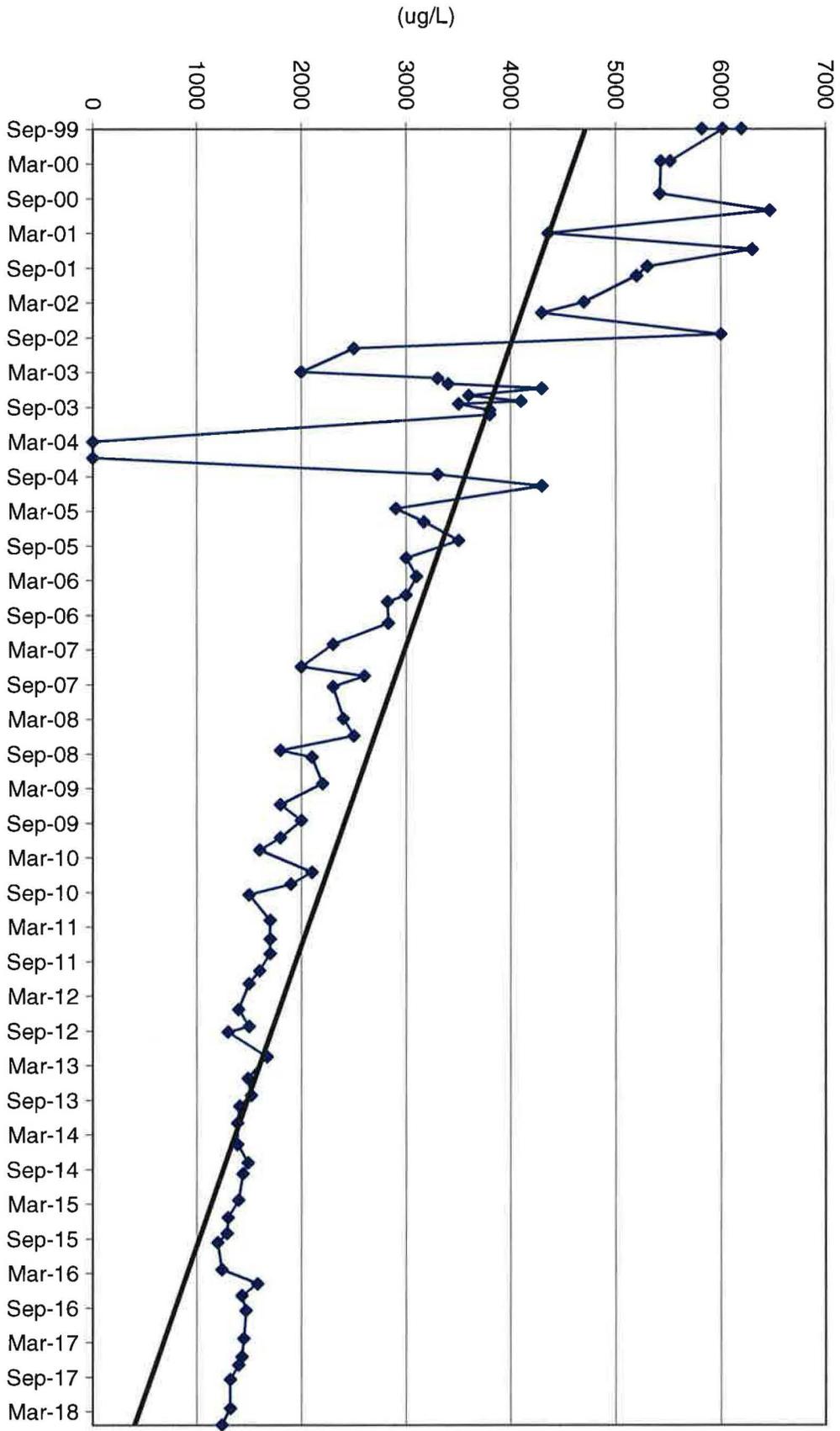
APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/aug18/ chloroform/Uchl0618GE70_rev.srf	J-3

Tab K

Analyte Concentration Data and Chloroform Concentration Trend Graphs over Time

MW-4	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
28-Sep-99	6200					
28-Sep-99	5820					
28-Sep-99	6020					
15-Mar-00	5520					
15-Mar-00	5430					
2-Sep-00	5420				9.63	
30-Nov-00	6470				9.37	
29-Mar-01	4360				8.77	
22-Jun-01	6300				9.02	
20-Sep-01	5300				9.45	
8-Nov-01	5200				8	
26-Mar-02	4700				8.19	
22-May-02	4300				8.21	
12-Sep-02	6000				8.45	
24-Nov-02	2500				8.1	
28-Mar-03	2000				8.3	
30-Apr-03	3300				NA	
30-May-03	3400				8.2	
23-Jun-03	4300				8.2	
30-Jul-03	3600				8.1	
29-Aug-03	4100				8.4	
12-Sep-03	3500				8.5	
15-Oct-03	3800				8.1	
8-Nov-03	3800				8	
29-Mar-04	NA				NA	
22-Jun-04	NA				NA	
17-Sep-04	3300				6.71	
17-Nov-04	4300				7.5	
16-Mar-05	2900				6.3	
25-May-05	3170	NA	NA	NA	7.1	NA
31-Aug-05	3500	<10	<10	<10	7.0	NA
1-Dec-05	3000	<50	<50	<50	7.0	NA
9-Mar-06	3100	<50	<50	50	6	49
14-Jun-06	3000	<50	<50	50	6	49
20-Jul-06	2820	<50	<50	<50	1.2	48
9-Nov-06	2830	2.1	1.4	<1	6.4	50
28-Feb-07	2300	1.6	<1	<1	6.3	47
27-Jun-07	2000	1.8	<1	<1	7	45
15-Aug-07	2600	1.9	<1	<1	6.2	47
10-Oct-07	2300	1.7	<1	<1	6.2	45
26-Mar-08	2400	1.7	<1	<1	5.8	42
25-Jun-08	2500	1.6	<1	<1	6.09	42
10-Sep-08	1800	1.8	<1	<1	6.36	35
15-Oct-08	2100	1.7	<1	<1	5.86	45
4-Mar-09	2200	1.5	<1	<1	5.7	37
23-Jun-09	1800	1.3	<1	<1	5.2	34
14-Sep-09	2000	1.4	<1	<1	5.3	43

MW-4	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
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
13-Jun-17	1430	1.15	ND	ND	4.88	44.0
26-Jul-17	1400	1.15	ND	ND	4.59	43.8
11-Oct-17	1320	ND	ND	ND	5.25	43.8
12-Mar-18	1320	1.07	ND	ND	4.47	46.2
8-Jun-18	1240	ND	ND	ND	4.64	43.5

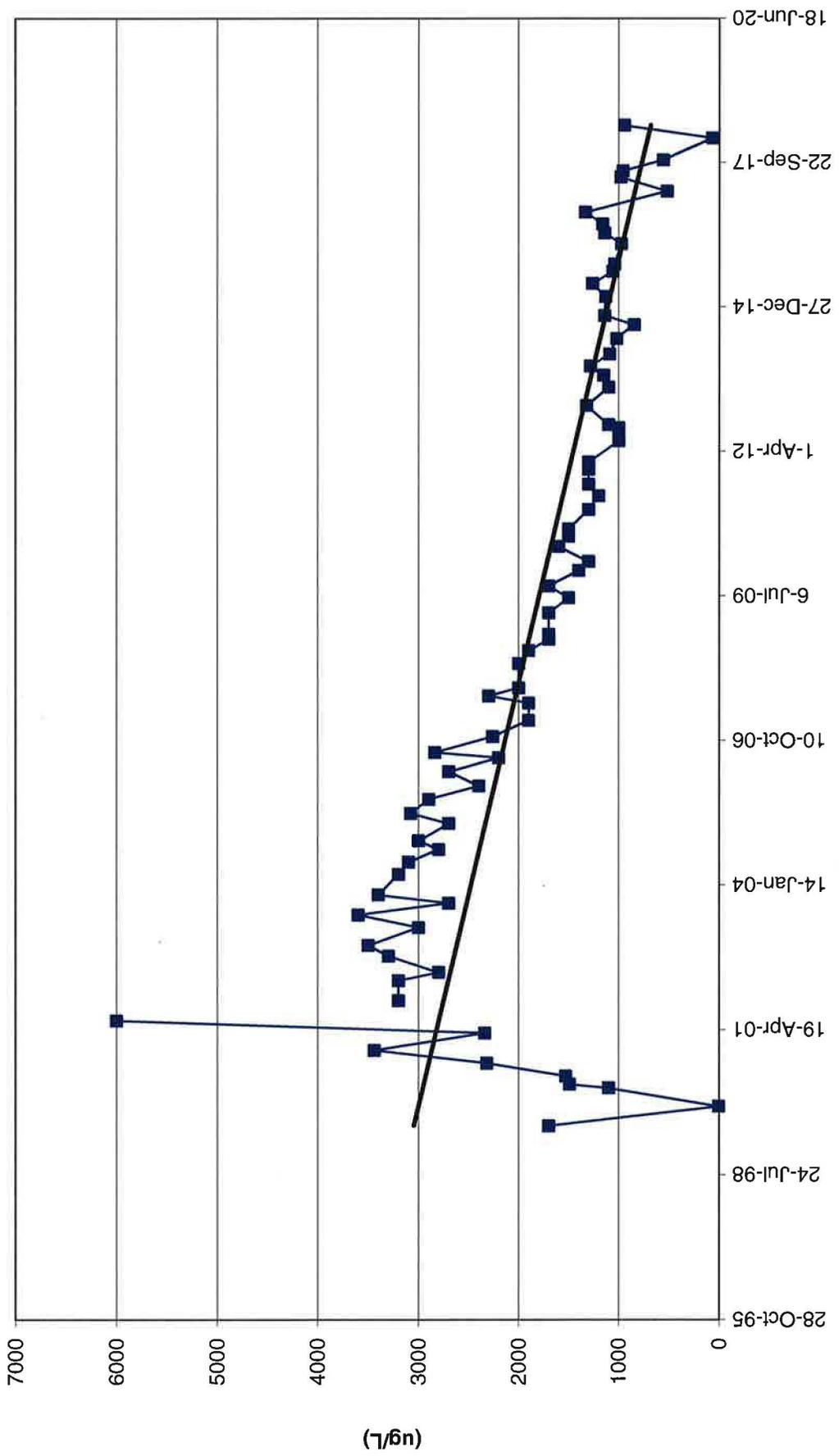


MW4-Chloroform Values

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
13-Jun-17	977	ND	ND	ND	5.74	41.8
26-Jul-17	958	ND	ND	ND	5.04	42.8
11-Oct-17	556	ND	ND	ND	5.78	38.5
12-Mar-18	70.4	ND	ND	ND	4.84	45.8
8-Jun-18	942	ND	ND	ND	4.38	42.0

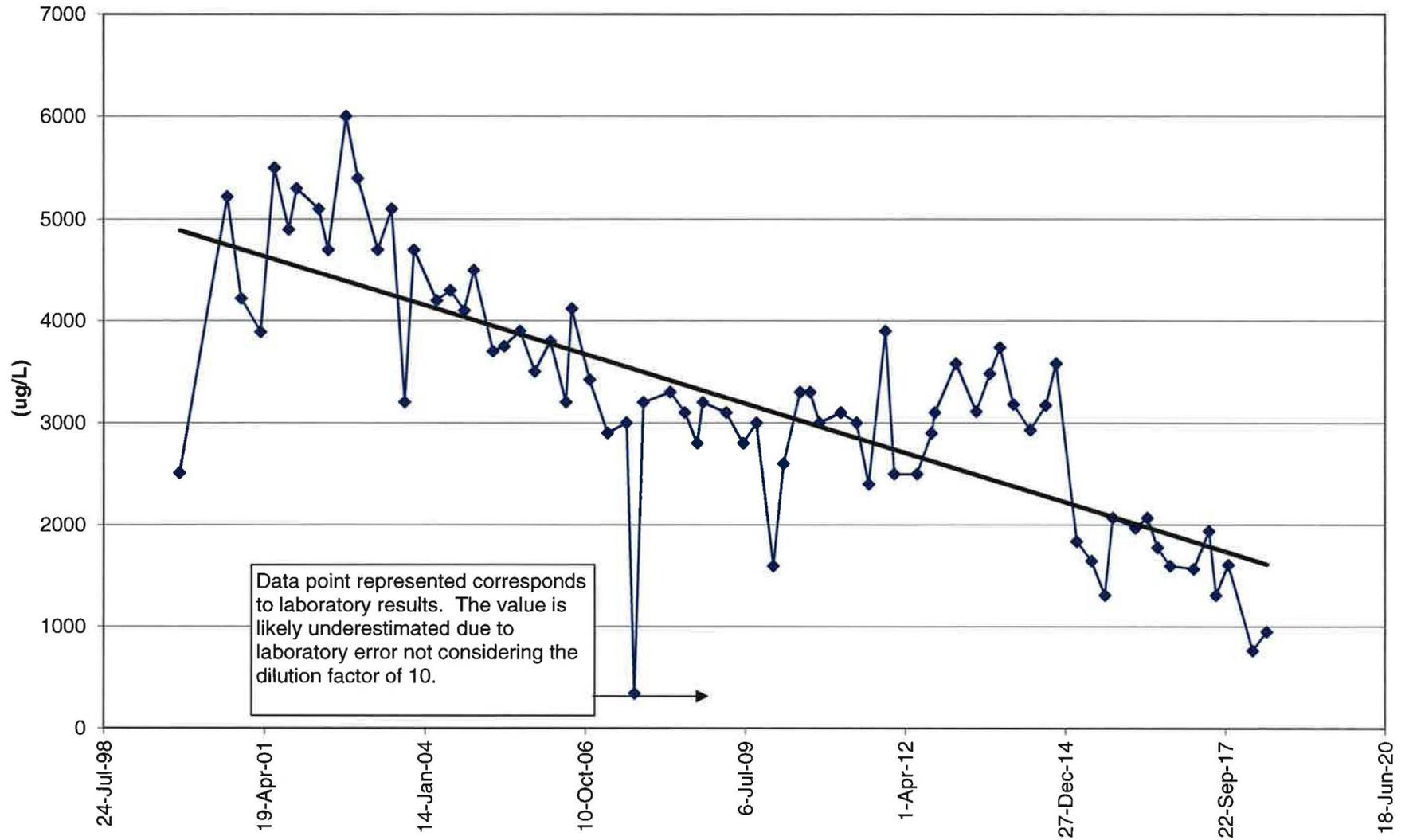
TW4-1 Chloroform Values



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
13-Jun-17	1940	ND	ND	ND	4.90	43.6
26-Jul-17	1310	ND	ND	ND	5.08	43.2
11-Oct-17	1610	ND	ND	ND	3.28	43.5
12-Mar-18	764	ND	ND	ND	2.94	44.4
8-Jun-18	949	ND	ND	ND	3.50	41.3

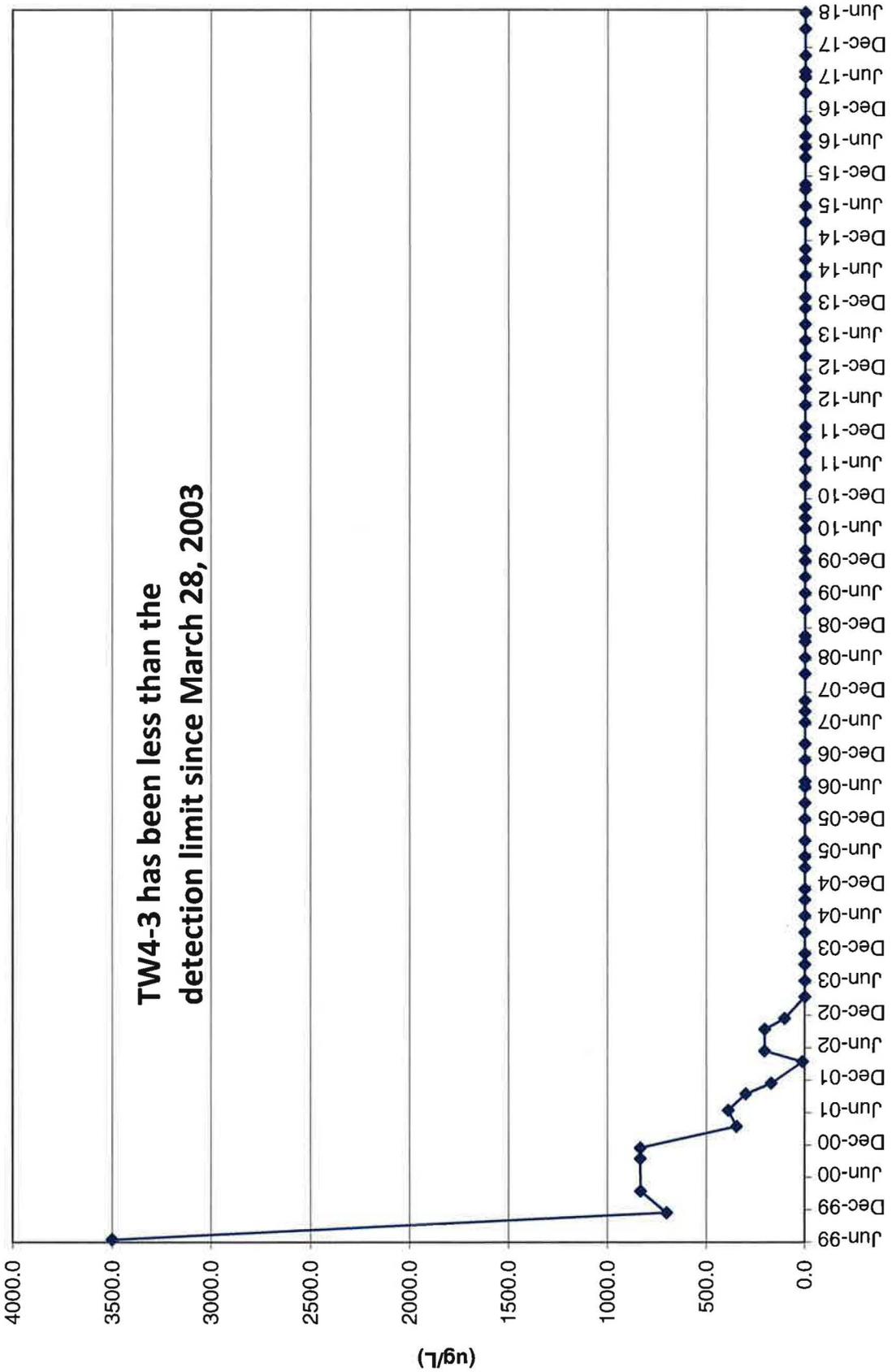
TW4-2 Chloroform Values



TW4-3	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
28-Jun-99	3500				7.6	
29-Nov-99	702					
15-Mar-00	834					
2-Sep-00	836				1.56	
29-Nov-00	836				1.97	
27-Mar-01	347				1.85	
21-Jun-01	390				2.61	
20-Sep-01	300				3.06	
7-Nov-01	170				3.6	
26-Mar-02	11				3.87	
21-May-02	204				4.34	
12-Sep-02	203				4.32	
24-Nov-02	102				4.9	
28-Mar-03	0				4.6	
23-Jun-03	0				4.8	
12-Sep-03	0				4.3	
8-Nov-03	0				4.8	
29-Mar-04	0				4.48	
22-Jun-04	0				3.68	
17-Sep-04	0				3.88	
17-Nov-04	0				4.1	
16-Mar-05	0				3.5	
25-May-05	<1	NA	NA	NA	3.7	NA
31-Aug-05	<1	<1	6.4	<1	3.5	NA
1-Dec-05	<1	<1	2.3	<1	3.3	NA
9-Mar-06	<1	<1	2.2	<1	3.3	26
14-Jun-06	<1	<1	<1	<1	3.2	26
20-Jul-06	<1	<1	1.6	<1	2.9	26
8-Nov-06	<1	<1	<1	<1	1.5	23
28-Feb-07	<1	<1	<1	<1	3.1	22
27-Jun-07	<1	<1	<1	<1	3.3	23
15-Aug-07	<1	<1	<1	<1	3.1	24
10-Oct-07	<1	<1	<1	<1	2.8	27
26-Mar-08	<1	<1	<1	<1	2.8	21
25-Jun-08	<1	<1	<1	<1	2.85	19
10-Sep-08	<1	<1	<1	<1	2.66	19
15-Oct-08	<1	<1	<1	<1	2.63	22
4-Mar-09	<1	<1	<1	<1	2.5	21
24-Jun-09	<1	<1	<1	<1	2.9	20

TW4-3	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
15-Sep-09	<1	<1	<1	<1	2.8	21
16-Dec-09	<1	<1	<1	<1	2.5	22
23-Feb-10	<1	<1	<1	<1	2.8	23
8-Jun-10	<1	<1	<1	<1	3	24
10-Aug-10	<1	<1	<1	<1	3.1	22
5-Oct-10	<1	<1	<1	<1	3.3	26
15-Feb-11	ND	ND	ND	ND	3.5	23
25-May-11	ND	ND	ND	ND	3.7	23
16-Aug-11	ND	ND	ND	ND	4	23
15-Nov-11	ND	ND	ND	ND	4.4	23
17-Jan-12	ND	ND	ND	ND	4.3	21
31-May-12	ND	ND	ND	ND	4.4	24
29-Aug-12	ND	ND	ND	ND	4.9	25
3-Oct-12	ND	ND	ND	ND	4.8	25
7-Feb-13	ND	ND	ND	ND	5.05	23.7
29-May-13	ND	ND	ND	ND	5.83	23.8
29-Aug-13	ND	ND	ND	ND	6.26	24.0
6-Nov-13	ND	ND	ND	ND	5.89	24.1
22-Jan-14	ND	ND	ND	ND	6.66	24.9
19-May-14	ND	ND	ND	ND	6.01	24.4
13-Aug-14	ND	ND	ND	ND	5.3	26
23-Oct-14	ND	ND	ND	ND	6.07	26.7
11-Mar-15	ND	ND	ND	ND	6.64	26.2
10-Jun-15	ND	ND	ND	ND	5.71	27.5
2-Sep-15	ND	ND	ND	ND	3.88	27.4
21-Oct-15	ND	ND	ND	ND	5.37	25.6
15-Mar-16	ND	ND	ND	ND	5.83	32.8
25-May-16	ND	ND	ND	ND	5.65	27.9
27-Jul-16	ND	ND	ND	ND	6.10	26.5
19-Oct-16	ND	ND	ND	ND	6.00	29.5
14-Mar-17	ND	ND	ND	ND	6.18	28.1
14-Jun-17	ND	ND	ND	ND	6.36	28.7
27-Jul-17	ND	ND	ND	ND	6.36	28.5
10-Oct-17	ND	ND	ND	ND	6.32	25.9
14-Mar-18	ND	ND	ND	ND	6.46	29.8
12-Jun-18	ND	ND	ND	ND	6.52	26.1

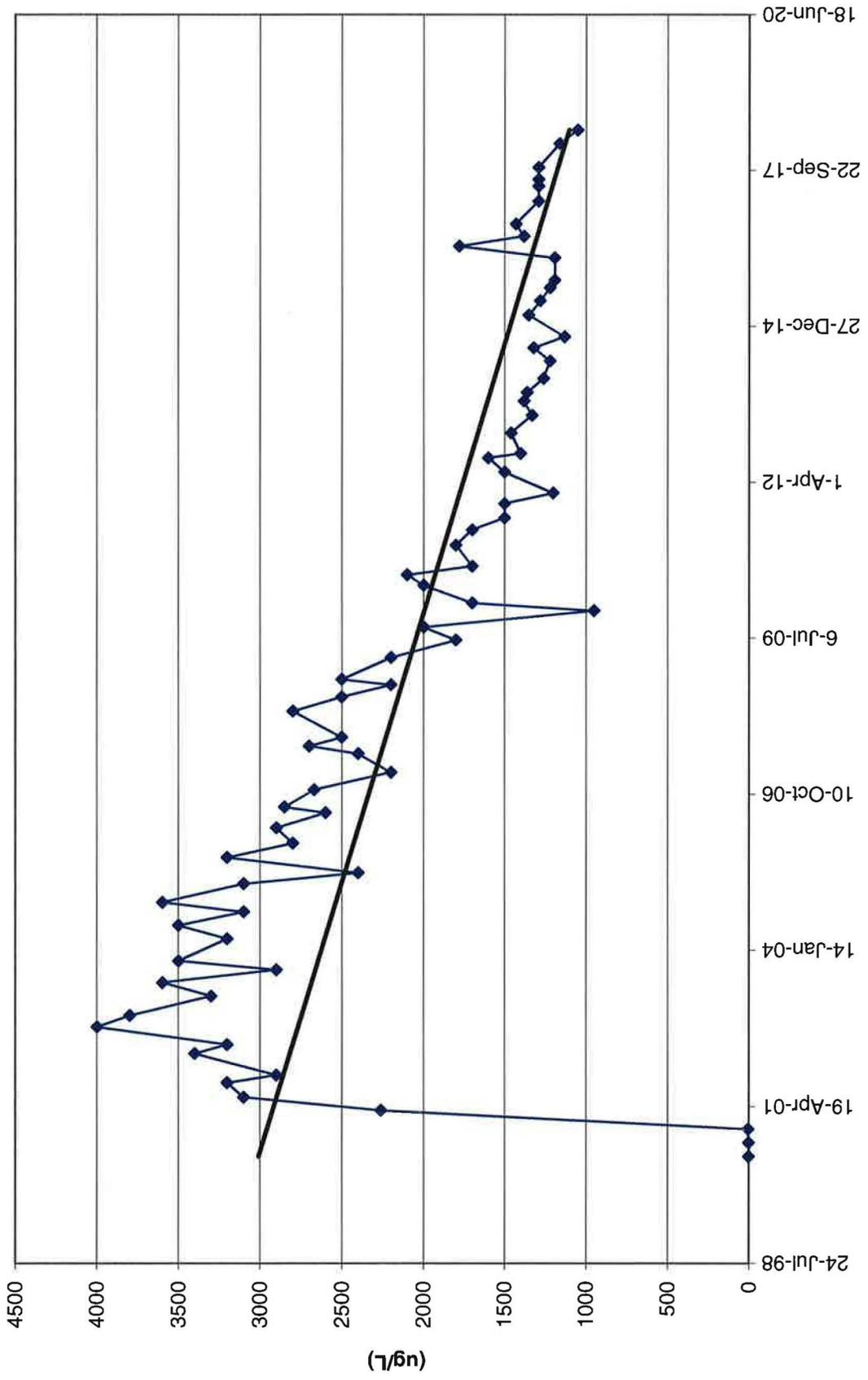
TW4-3 Chloroform Values



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
13-Jun-17	1290	ND	ND	ND	7.06	40.7
26-Jul-17	1290	ND	ND	ND	6.47	40.5
11-Oct-17	1290	ND	ND	ND	6.90	40.7
12-Mar-18	1160	ND	ND	ND	6.12	42.2
8-Jun-18	1050	ND	ND	ND	6.34	39.0

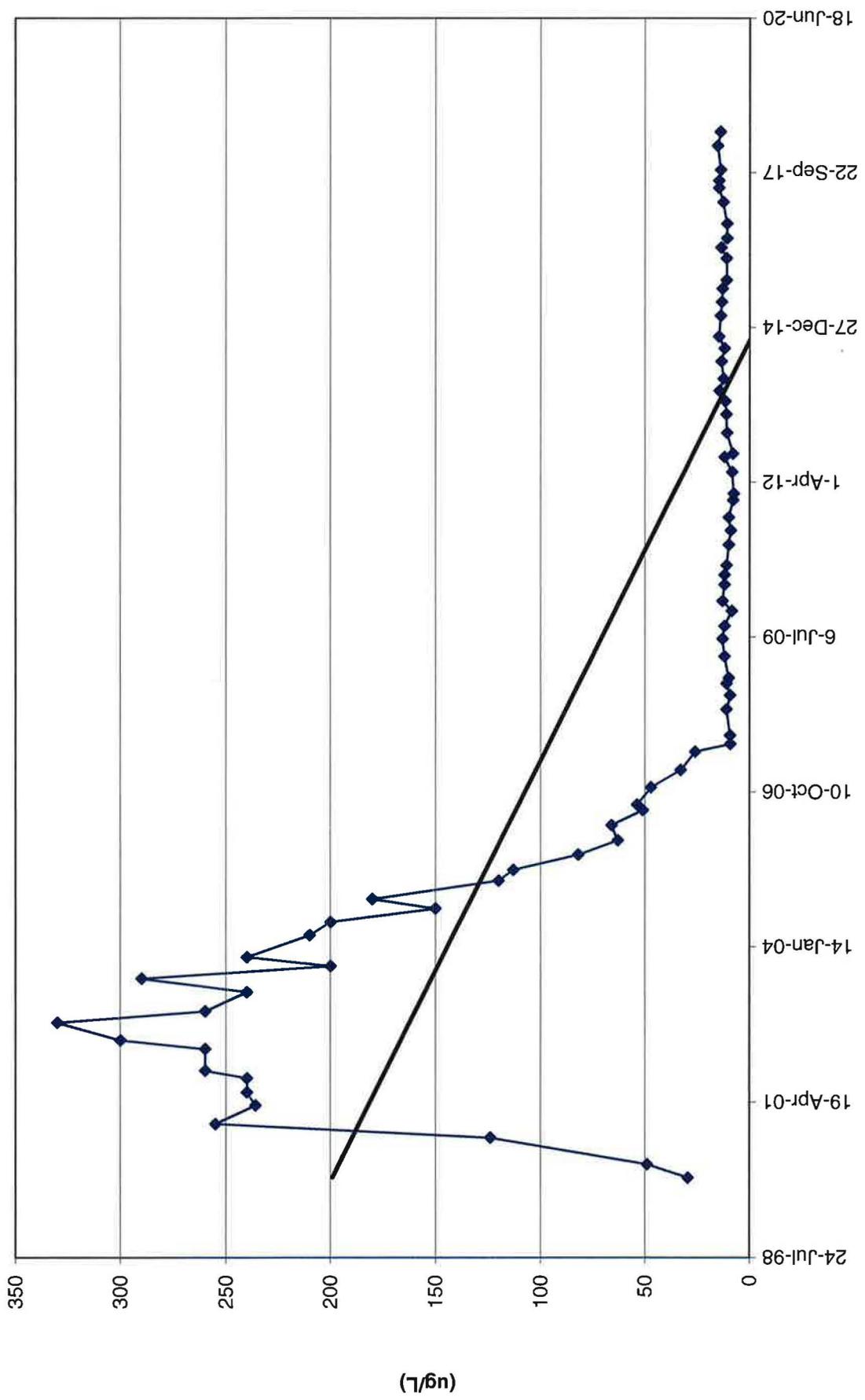
TW4-4 Chloroform Values



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
15-Jun-17	14.6	ND	ND	ND	8.52	47.3
2-Aug-17	14.6	ND	ND	ND	8.52	48.6
10-Oct-17	13.8	ND	ND	ND	8.57	42.5
15-Mar-18	15.2	ND	ND	ND	8.36	51.2
13-Jun-18	13.9	ND	ND	ND	9.24	47.4

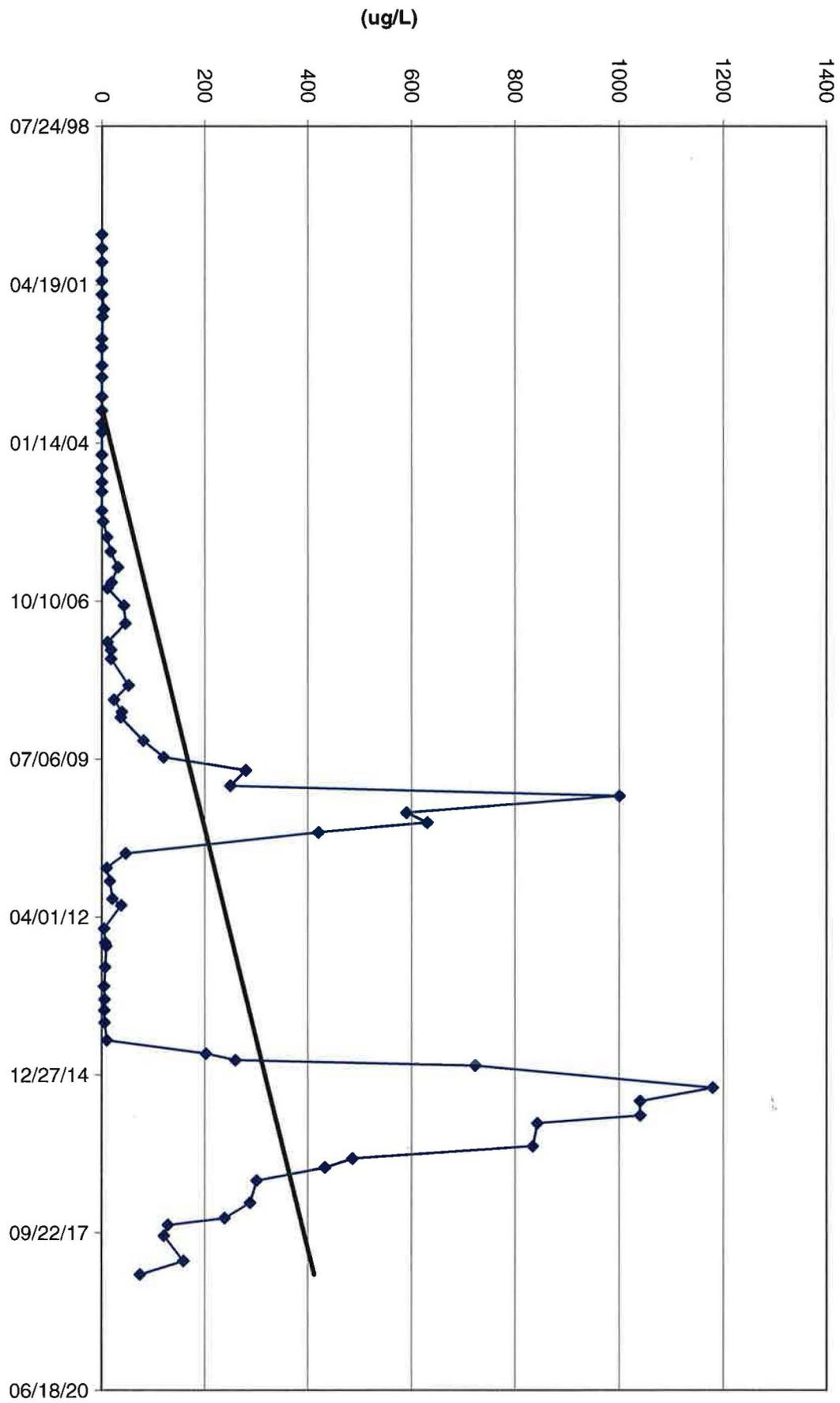
TW4-5 Chloroform Values



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	ND	ND	ND	4.2	40
24-Sep-14	260	ND	ND	ND	N/A	N/A
29-Oct-14	723	ND	ND	ND	6.92	41.1
18-Mar-15	1180	ND	ND	ND	5.25	41.2
11-Jun-15	1040	ND	ND	ND	5.87	41.6
10-Sep-15	1040	ND	ND	ND	6.75	47.0
29-Oct-15	843	ND	ND	ND	5.61	40.2
22-Mar-16	834	ND	ND	ND	6.79	42.0
8-Jun-16	486	ND	ND	ND	3.19	44.1
4-Aug-16	433	ND	ND	ND	3.85	42.2
26-Oct-16	301	ND	ND	ND	3.74	46.1
16-Mar-17	288	ND	ND	ND	3.15	42.1
21-Jun-17	239	ND	ND	ND	2.42	42.6
3-Aug-17	129	ND	ND	ND	1.71	42.9
11-Oct-17	121	ND	ND	ND	1.71	37.6
20-Mar-18	159	ND	ND	ND	1.96	43.1
14-Jun-18	74.9	ND	ND	ND	1.48	40.2

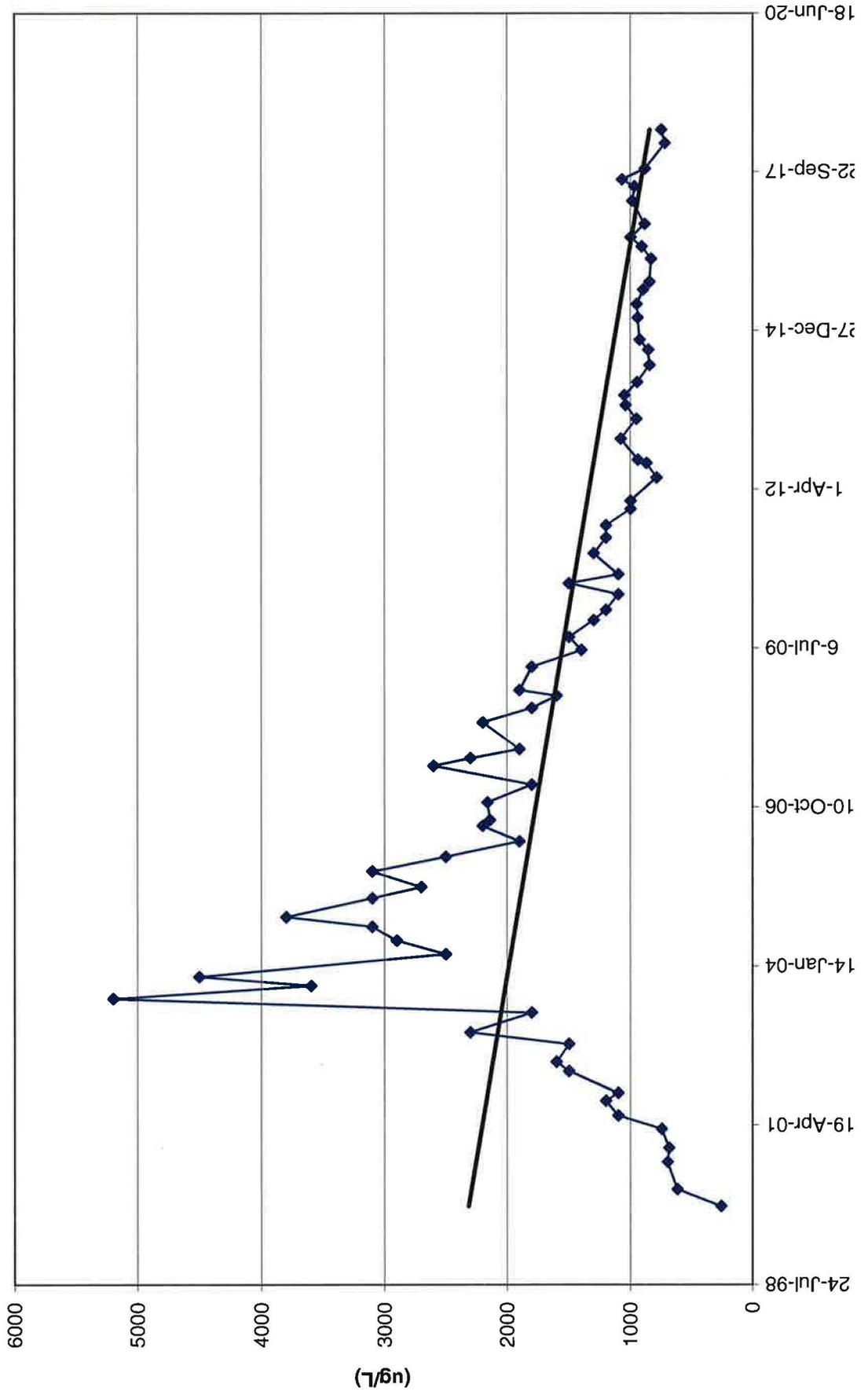
TW4-6 Chloroform Values



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	3.60	45
1-Jun-11	1200	ND	ND	ND	4.00	35
18-Aug-11	1200	ND	ND	ND	4.10	37
29-Nov-11	1000	ND	ND	ND	3.80	37
19-Jan-12	1000	ND	ND	ND	3.90	37
14-Jun-12	790	ND	ND	ND	4.00	41
13-Sep-12	870	ND	ND	ND	3.80	40
4-Oct-12	940	ND	ND	ND	3.80	41
13-Feb-13	1080	3.51	ND	ND	3.90	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	2.90	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
21-Jun-17	968	ND	ND	ND	4.15	43.3
4-Aug-17	1070	ND	ND	ND	4.20	44.7
11-Oct-17	884	ND	ND	ND	4.35	43.7
21-Mar-18	721	ND	ND	ND	3.96	44.5
14-Jun-18	751	ND	ND	ND	4.45	41.5

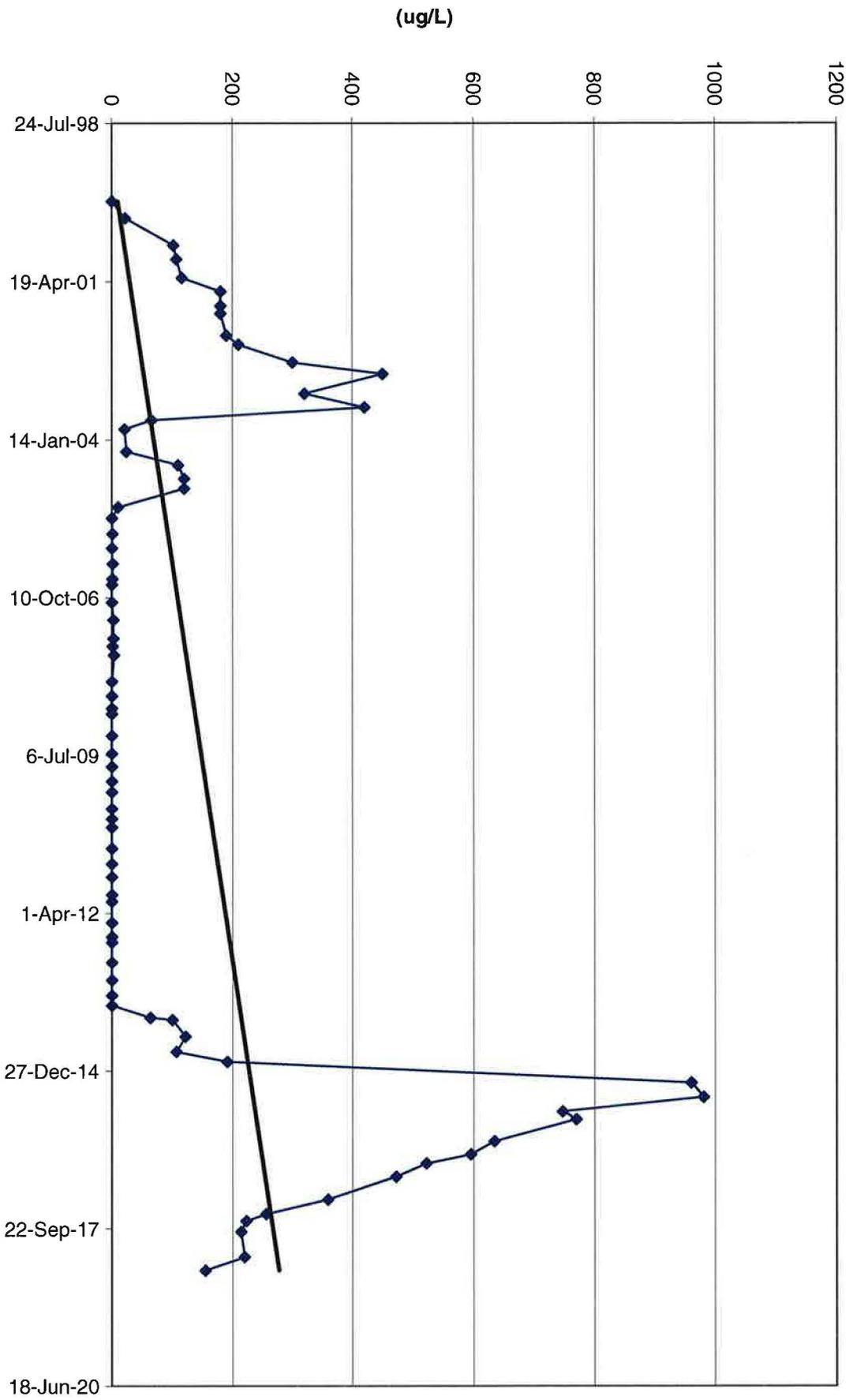
TW4-7 Chloroform Values



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
21-Jun-17	256	ND	ND	ND	1.97	58.8
4-Aug-17	223	ND	ND	ND	1.64	61.2
11-Oct-17	214	ND	ND	ND	1.97	52.2
21-Mar-18	220	ND	ND	ND	1.36	60.8
14-Jun-18	155	ND	ND	ND	1.31	53.8

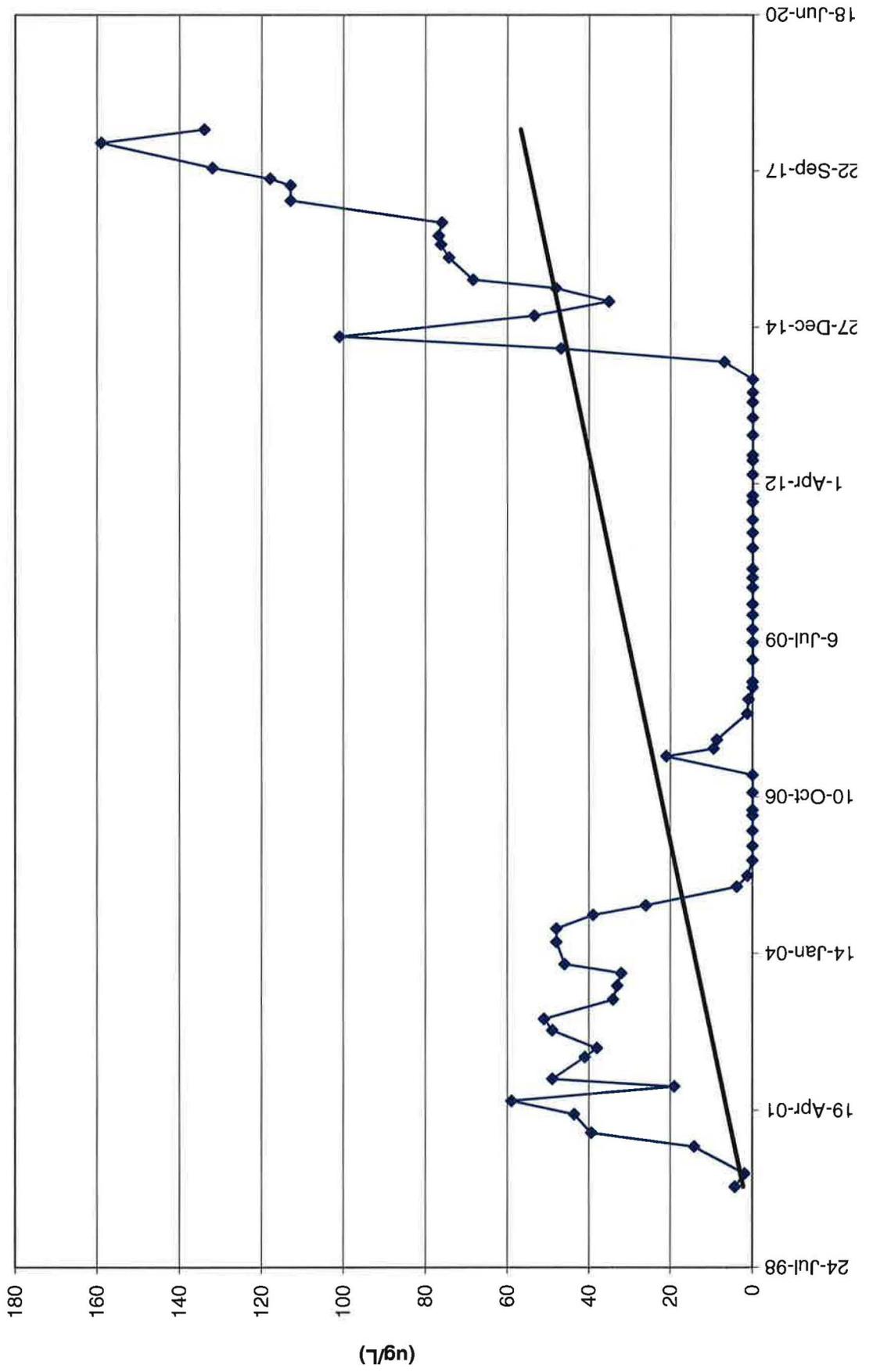
TW4-8 Chloroform Values



TW4-9	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
20-Dec-99	4.2					
15-Mar-00	1.9					
2-Sep-00	14.2					
29-Nov-00	39.4				ND	
27-Mar-01	43.6				ND	
20-Jun-01	59.0				0.15	
20-Sep-01	19.0				0.4	
7-Nov-01	49.0				0.1	
26-Mar-02	41.0				0.5	
22-May-02	38.0				0.65	
12-Sep-02	49.0				0.2	
24-Nov-02	51.0				0.6	
28-Mar-03	34.0				0.6	
23-Jun-03	33.0				0.8	
12-Sep-03	32.0				1.1	
8-Nov-03	46.0				1.1	
29-Mar-04	48.0				0.82	
22-Jun-04	48.0				0.75	
17-Sep-04	39.0				0.81	
17-Nov-04	26.0				1.2	
16-Mar-05	3.8				1.3	
25-May-05	1.2	NA	NA	NA	1.3	NA
31-Aug-05	<1	<1	2.9	<1	1.3	NA
1-Dec-05	<1	<1	<1	<1	1.3	NA
9-Mar-06	<1	<1	2.6	<1	1.5	38
14-Jun-06	<1	<1	2.7	<1	1.5	39
20-Jul-06	<1	<1	<1	<1	0.9	41
8-Nov-06	<1	<1	<1	<1	0.7	44
28-Feb-07	<1	<1	<1	<1	0.6	44
27-Jun-07	21	<1	<1	<1	1.3	42
15-Aug-07	9.5	<1	<1	<1	1.8	38
10-Oct-07	8.7	<1	<1	<1	2	40
26-Mar-08	1.3	<1	<1	<1	2.1	35
25-Jun-08	1.0	<1	<1	<1	2.3	35
10-Sep-08	<1	<1	<1	<1	2.79	28
15-Oct-08	<1	<1	<1	<1	1.99	58
4-Mar-09	<1	<1	<1	<1	2.5	30
24-Jun-09	<1	<1	<1	<1	2.3	30
15-Sep-09	<1	<1	<1	<1	2.5	30

TW4-9	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
17-Dec-09	<1	<1	<1	<1	1.7	37
23-Feb-10	<1	<1	<1	<1	1.7	47
9-Jun-10	<1	<1	<1	<1	1.5	33
11-Aug-10	<1	<1	<1	<1	1.2	40
6-Oct-10	<1	<1	<1	<1	1.8	34
17-Feb-11	ND	ND	ND	ND	1.3	41
25-May-11	ND	ND	ND	ND	3.4	38
16-Aug-11	ND	ND	ND	ND	4	21
7-Dec-11	ND	ND	ND	ND	2.3	38
18-Jan-12	ND	ND	ND	ND	2.3	28
31-May-12	ND	ND	ND	ND	4	23
30-Aug-12	ND	ND	ND	ND	3.9	22
3-Oct-12	ND	ND	ND	ND	3.8	21
7-Feb-13	ND	ND	ND	ND	4.12	20.6
30-May-13	ND	ND	ND	ND	4.49	21.4
5-Sep-13	ND	ND	ND	ND	4.03	22.7
7-Nov-13	ND	ND	ND	ND	4.87	23.6
29-Jan-14	ND	ND	ND	ND	4.36	22
21-May-14	6.9	ND	ND	ND	3.44	24
14-Aug-14	46.9	ND	ND	ND	2.7	27
29-Oct-14	101	ND	ND	ND	4.27	25
12-Mar-15	53.5	ND	ND	ND	3.28	29.5
11-Jun-15	35.1	ND	ND	ND	1.83	35.3
3-Sep-15	48.2	ND	ND	ND	1.44	39.5
28-Oct-15	68.4	ND	ND	ND	2.89	29.2
17-Mar-16	74.3	ND	ND	ND	2.51	33.6
8-Jun-16	76.2	ND	ND	ND	2.16	35.1
3-Aug-16	76.8	ND	ND	ND	2.11	33.6
26-Oct-16	76	ND	ND	ND	2.24	37.4
16-Mar-17	113	ND	ND	ND	2.18	34.5
21-Jun-17	113	ND	ND	ND	1.92	35.9
3-Aug-17	118	ND	ND	ND	1.90	37.0
11-Oct-17	132	ND	ND	ND	2.18	32.3
21-Mar-18	159	ND	ND	ND	1.85	38.3
14-Jun-18	134	ND	ND	ND	1.85	35.7

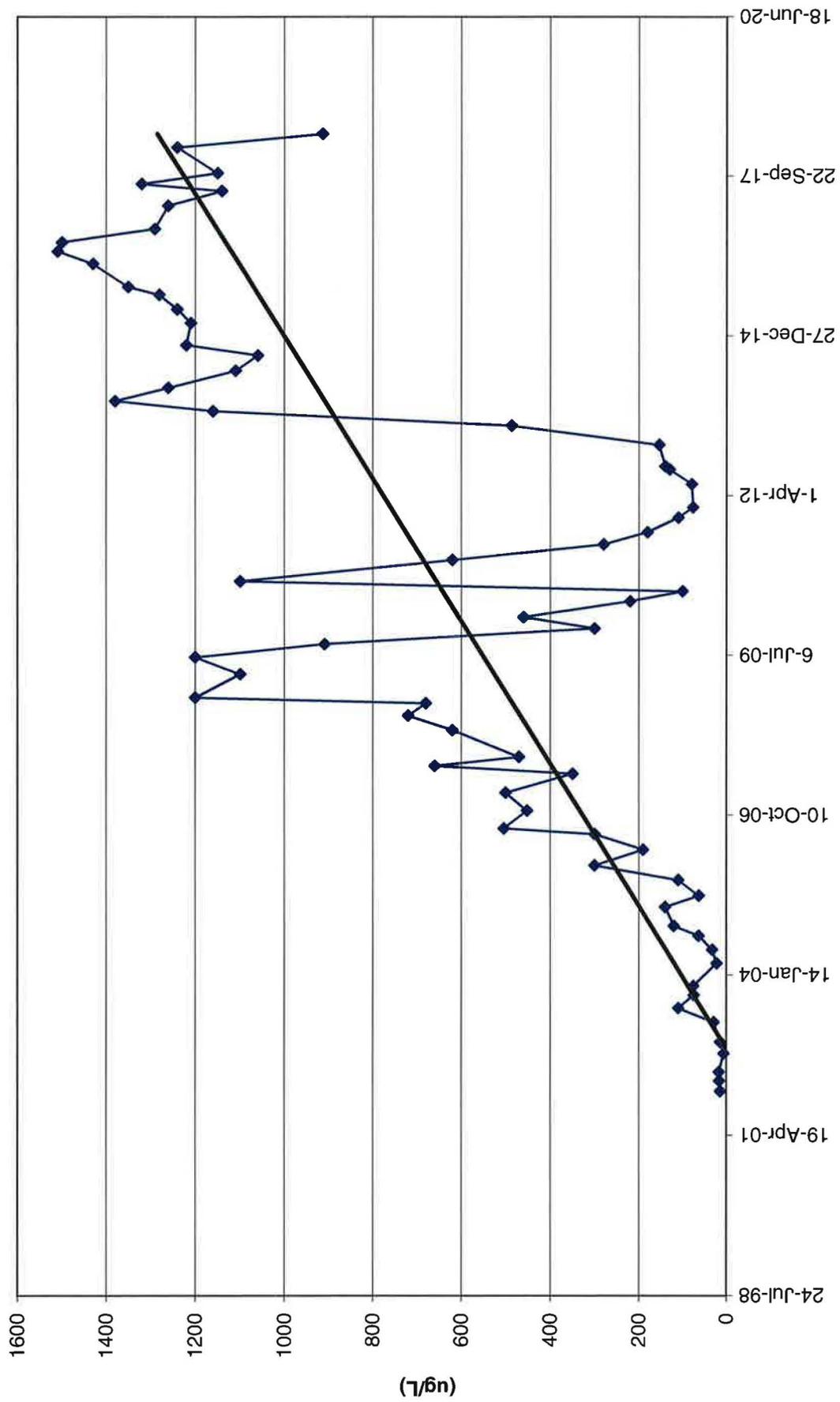
TW4-9 Chloroform Values



TW4-10	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
21-Jan-02	14					
26-Mar-02	16				0.14	
21-May-02	17				0.11	
12-Sep-02	6				ND	
24-Nov-02	14				ND	
28-Mar-03	29				0.2	
23-Jun-03	110				0.4	
12-Sep-03	74				0.4	
8-Nov-03	75				0.3	
29-Mar-04	22				0.1	
22-Jun-04	32				ND	
17-Sep-04	63				0.46	
17-Nov-04	120				0.4	
16-Mar-05	140				1.6	
25-May-05	62.4	NA	NA	NA	0.8	NA
31-Aug-05	110	<2.5	6.2	<2.5	1.1	NA
1-Dec-05	300	<2.5	<2.5	<2.5	3.3	NA
9-Mar-06	190	<5	<50	<50	2.4	50
14-Jun-06	300	<5	<50	<50	3.5	54
20-Jul-06	504	<5	<50	<50	6.8	61
8-Nov-06	452	<1	1.6	1	5.7	58
28-Feb-07	500	<1	<1	1	7.6	62
27-Jun-07	350	<1	<1	1	5.1	54
15-Aug-07	660	<1	<1	1	7.3	59
10-Oct-07	470	<1	<1	1	6.7	59
26-Mar-08	620	<1	<1	1	7.3	55
25-Jun-08	720	<1	<1	1	9.91	58
10-Sep-08	680	<1	<1	1	9.23	51
15-Oct-08	1200	<2	<2	2	10.5	61
11-Mar-09	1100	<1	<1	1	11.6	64
24-Jun-09	1200	<1	<1	1	9.8	62
15-Sep-09	910	<1	<1	1	8.1	51
22-Dec-09	300	<1	<1	<1	3.5	51
3-Mar-10	460	<1	<1	<1	5	49
10-Jun-10	220	<1	<1	<1	1.6	42
12-Aug-10	100	<1	<1	<1	0.8	38
13-Oct-10	1100	<1	<1	<1	11	52
23-Feb-11	620	ND	ND	ND	9	62
1-Jun-11	280	ND	ND	ND	3.3	42

TW4-10	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
17-Aug-11	180	ND	ND	ND	1.9	41
16-Nov-11	110	ND	ND	ND	1.1	45
19-Jan-12	76	ND	ND	ND	0.9	40
13-Jun-12	79	ND	ND	ND	0.8	46
12-Sep-12	130	ND	ND	ND	1.0	44
3-Oct-12	140	ND	ND	ND	1.6	45
13-Feb-13	154	ND	ND	ND	1.2	49.1
13-Jun-13	486	ND	ND	ND	5.6	51.5
12-Sep-13	1160	ND	ND	ND	13.0	67.9
14-Nov-13	1380	ND	ND	ND	16.0	70.9
5-Feb-14	1260	5.16	ND	ND	16.8	73
23-May-14	1110	ND	ND	ND	13.9	77.3
27-Aug-14	1060	ND	1.5	ND	9.8	74
30-Oct-14	1220	ND	ND	ND	13.2	75.2
18-Mar-15	1210	ND	ND	ND	15.0	78.6
11-Jun-15	1240	ND	ND	ND	11.4	75
10-Sep-15	1280	ND	ND	ND	14.0	89.5
29-Oct-15	1350	ND	ND	ND	13.5	79.9
22-Mar-16	1430	ND	ND	ND	17.3	84.1
8-Jun-16	1510	ND	ND	ND	14.9	89.5
4-Aug-16	1500	ND	ND	ND	14.9	85.3
27-Oct-16	1290	ND	ND	ND	14.8	84.4
21-Mar-17	1260	ND	ND	ND	13.0	74.6
21-Jun-17	1140	ND	ND	ND	13.0	73.1
4-Aug-17	1320	ND	ND	ND	13.4	77.0
11-Oct-17	1150	ND	ND	ND	12.9	70.0
21-Mar-18	1240	ND	ND	ND	11.1	72.7
14-Jun-18	914	ND	ND	ND	11.2	64.5

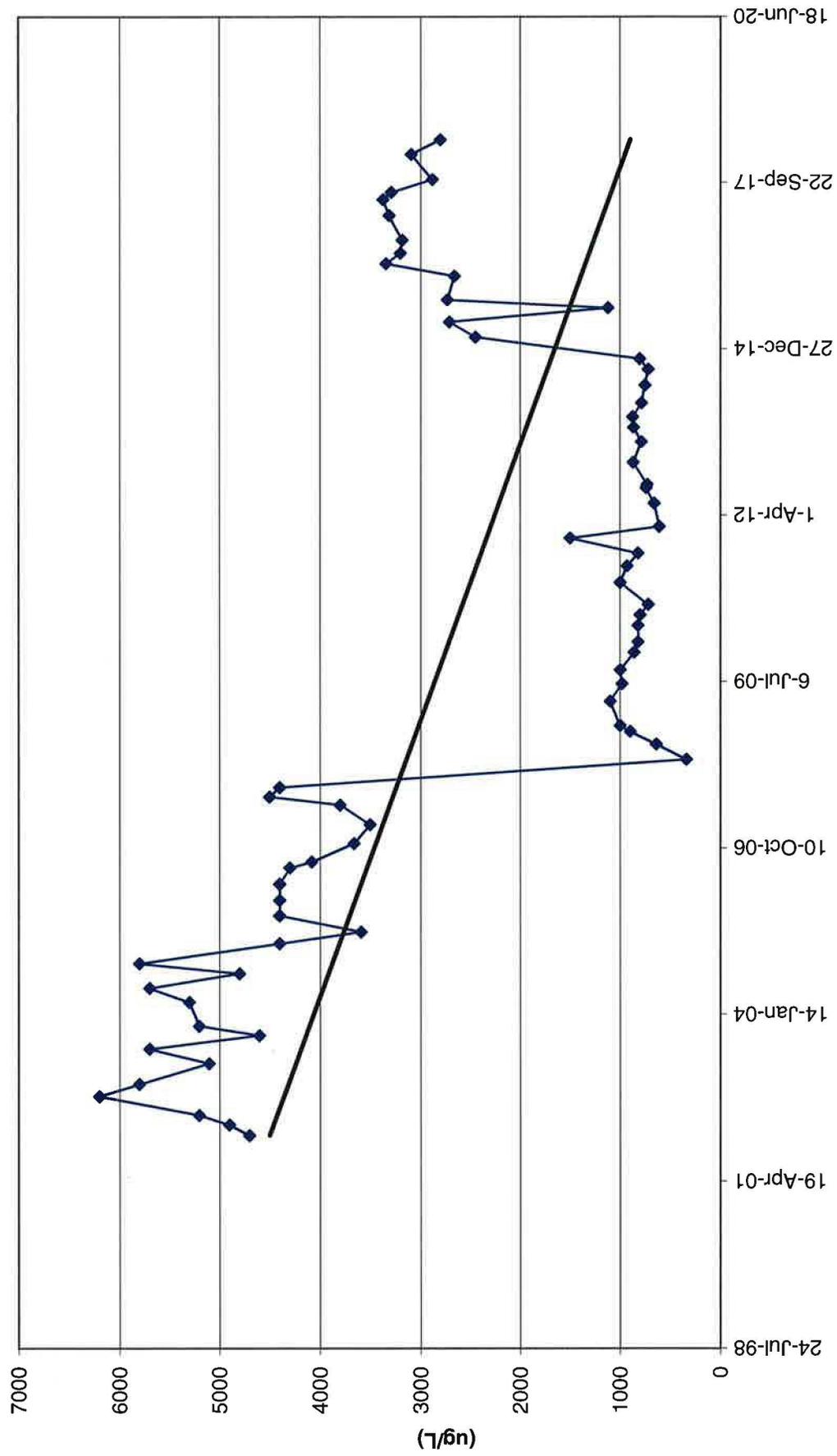
TW4-10 Chloroform Values



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
13-Jun-17	3370	1.83	ND	ND	7.92	51.4
26-Jul-17	3290	1.81	ND	ND	7.78	51.0
11-Oct-17	2880	1.48	ND	ND	7.79	49.7
12-Mar-18	3090	1.82	ND	ND	7.89	54.0
8-Jun-18	2800	1.34	ND	ND	7.51	52.6

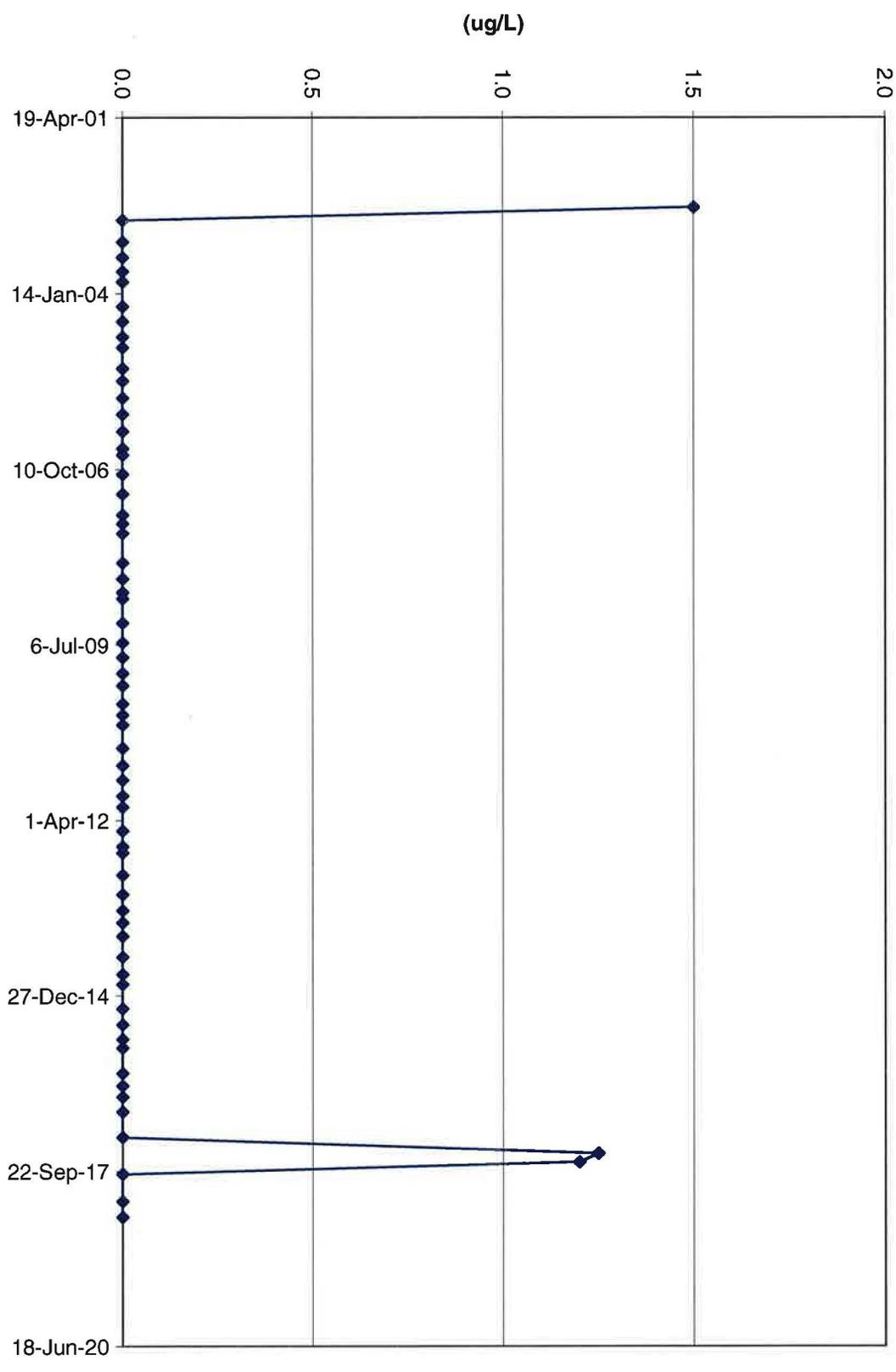
TW4-11 Chloroform Values



TW4-12	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
12-Sep-02	2				2.54	
24-Nov-02	0				2.2	
28-Mar-03	0				1.9	
23-Jun-03	0				1.8	
12-Sep-03	0				1.8	
9-Nov-03	0				1.6	
29-Mar-04	0				1.58	
22-Jun-04	0				1.4	
17-Sep-04	0				1.24	
17-Nov-04	0				1.5	
16-Mar-05	0				1.4	
25-May-05	<1	NA	NA	NA	1.6	NA
31-Aug-05	<1	<1	5.8	<1	1.5	NA
1-Dec-05	<1	<1	1.9	<2	1.4	NA
9-Mar-06	<1	<1	2.6	<1	1.3	19
14-Jun-06	<1	<1	1.4	<1	1.4	16
20-Jul-06	<1	<1	<1	<1	1.4	16
8-Nov-06	<1	<1	<1	<1	1.4	16
28-Feb-07	<1	<1	<1	<1	1.5	16
27-Jun-07	<1	<1	<1	<1	1.5	18
15-Aug-07	<1	<1	<1	<1	1.4	29
10-Oct-07	<1	<1	<1	<1	1.4	16
26-Mar-08	<1	<1	<1	<1	1.6	16
25-Jun-08	<1	<1	<1	<1	2.69	19
10-Sep-08	<1	<1	<1	<1	2.65	18
15-Oct-08	<1	<1	<1	<1	2.47	22
4-Mar-09	<1	<1	<1	<1	2.4	23
24-Jun-09	<1	<1	<1	<1	3.8	22
15-Sep-09	<1	<1	<1	<1	5.1	22
16-Dec-09	<1	<1	<1	<1	3.6	23
23-Feb-10	<1	<1	<1	<1	4	22
8-Jun-10	<1	<1	<1	<1	11	29
10-Aug-10	<1	<1	<1	<1	9	35
5-Oct-10	<1	<1	<1	<1	8	31
15-Feb-11	ND	ND	ND	ND	6.5	31
25-May-11	ND	ND	ND	ND	7	32
16-Aug-11	ND	ND	ND	ND	6.8	31
15-Nov-11	ND	ND	ND	ND	8	30
17-Jan-12	ND	ND	ND	ND	7.7	28

TW4-12	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
31-May-12	ND	ND	ND	ND	10	34
29-Aug-12	ND	ND	ND	ND	13	39
3-Oct-12	ND	ND	ND	ND	13	39
7-Feb-13	ND	ND	ND	ND	12.6	36.7
29-May-13	ND	ND	ND	ND	14.2	38.6
29-Aug-13	ND	ND	ND	ND	17.4	41.7
6-Nov-13	ND	ND	ND	ND	16.4	41.4
22-Jan-14	ND	ND	ND	ND	18.4	41.6
21-May-14	ND	ND	ND	ND	17	40.2
27-Aug-14	ND	ND	ND	ND	13	47
23-Oct-14	ND	ND	ND	ND	16.1	50.2
11-Mar-15	ND	ND	ND	ND	19.2	50.6
10-Jun-15	ND	ND	ND	ND	18.8	56
2-Sep-15	ND	ND	ND	ND	16.4	60.2
21-Oct-15	ND	ND	ND	ND	18	51.0
15-Mar-16	ND	ND	ND	ND	34.8	56.2
25-May-16	ND	ND	ND	ND	30.7	66.4
27-Jul-16	ND	ND	ND	ND	37.7	67.5
19-Oct-16	ND	ND	ND	ND	25.8	72.6
14-Mar-17	ND	ND	ND	ND	25.9	62.6
14-Jun-17	1.25	ND	ND	ND	29.9	67.2
2-Aug-17	1.20	ND	ND	ND	25.1	65.3
10-Oct-17	ND	ND	ND	ND	26.9	56.2
14-Mar-18	ND	ND	ND	ND	19.8	59.5
12-Jun-18	ND	ND	ND	ND	18.4	53.6

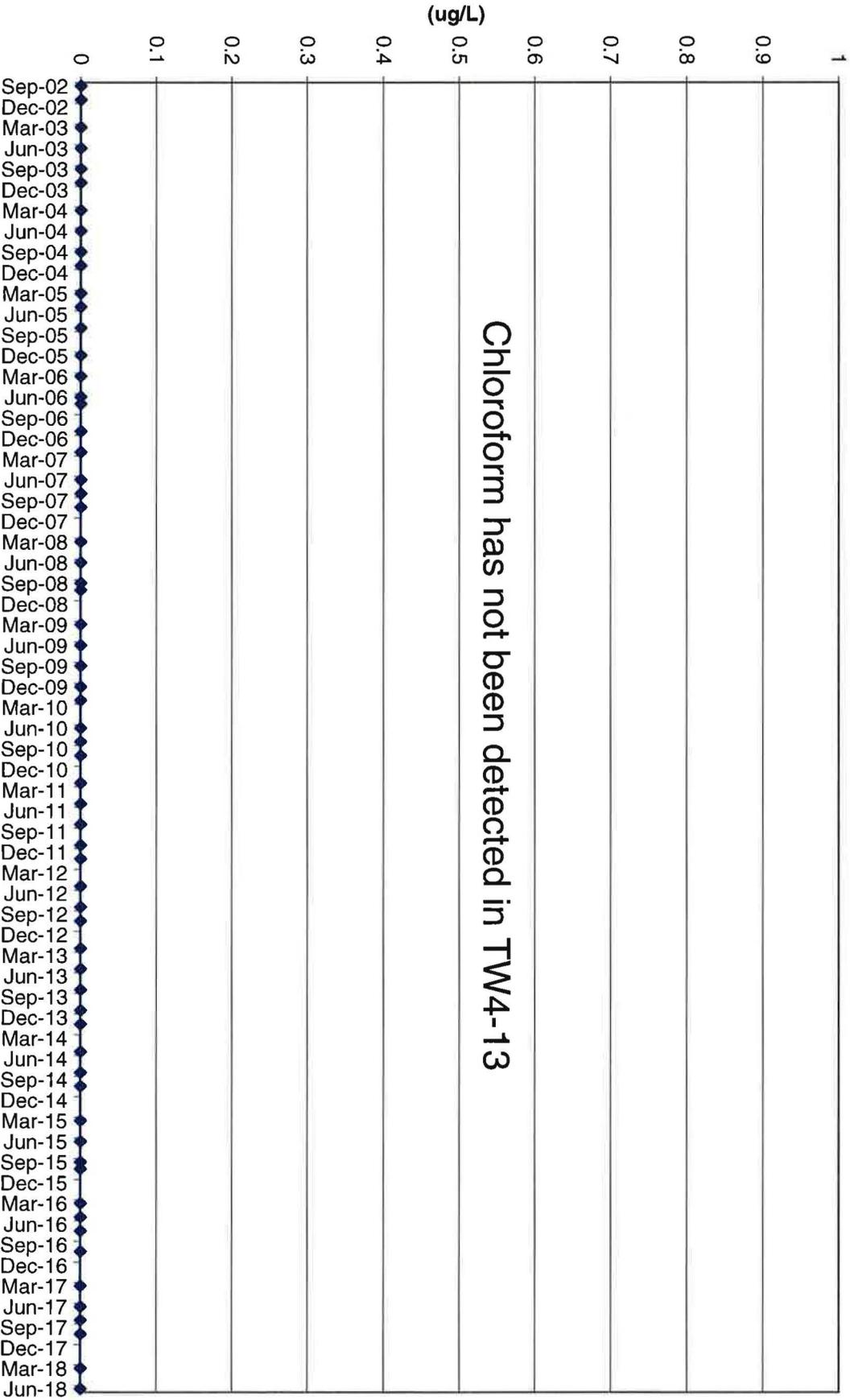
TW4-12 Chloroform Values



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
15-Jun-17	ND	ND	ND	ND	6.49	70.4
2-Aug-17	ND	ND	ND	ND	6.15	70.5
10-Oct-17	ND	ND	ND	ND	6.17	60.9
14-Mar-18	ND	ND	ND	ND	5.76	71.0
12-Jun-18	ND	ND	ND	ND	6.24	65.0

TW4-13 Chloroform Values



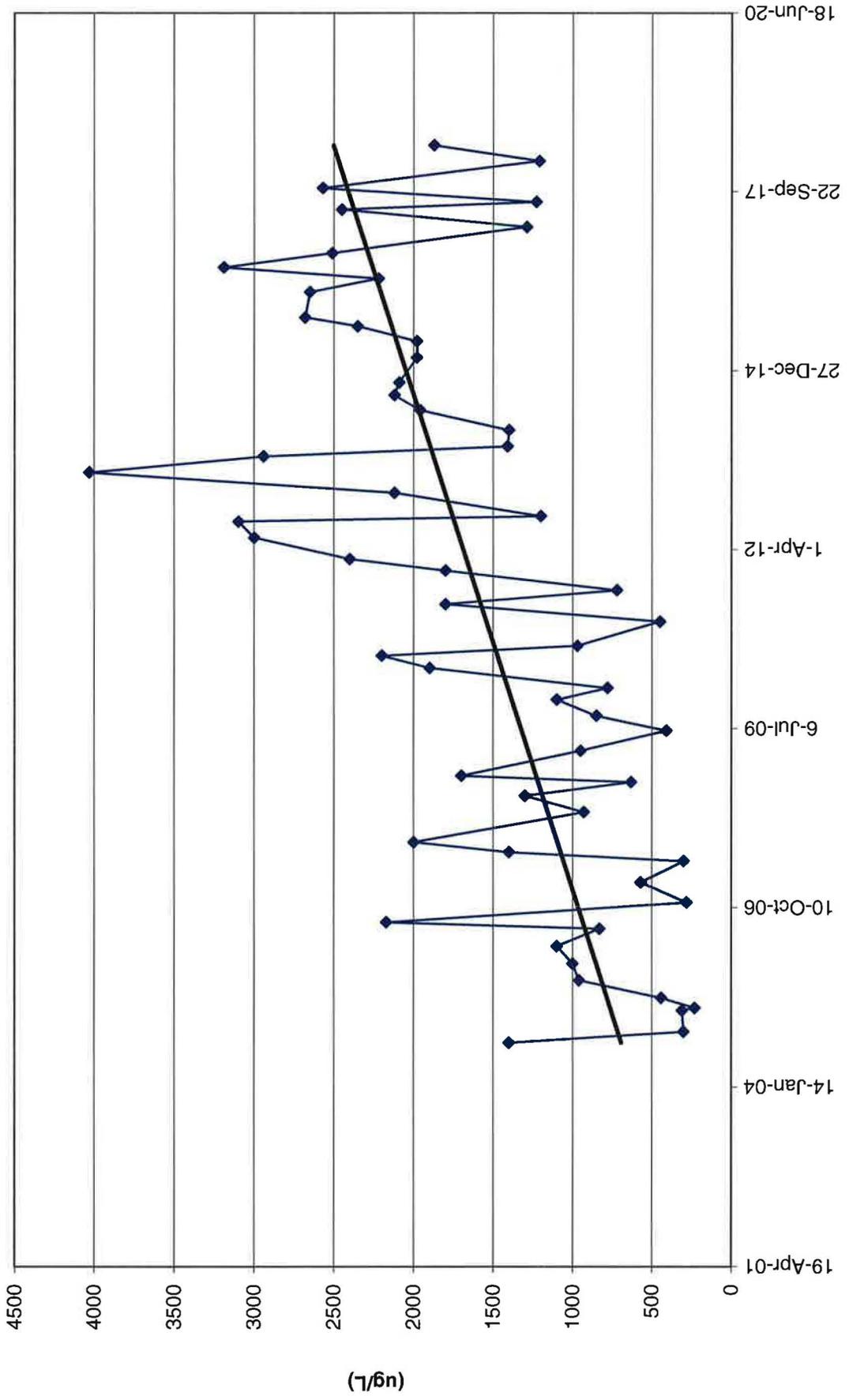
TW4-14	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
8-Nov-06	<1	<1	<1	<1	2.40	37.0
28-Feb-07	<1	<1	<1	<1	2.30	38.0
27-Jun-07	<1	<1	<1	<1	1.40	38.0
15-Aug-07	<1	<1	<1	<1	1.10	36.0
10-Oct-07	<1	<1	<1	<1	0.80	36.0
26-Mar-08	<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
15-Jun-17	6.85	ND	ND	ND	5.12	46.9
2-Aug-17	6.14	ND	ND	ND	4.84	46.4
10-Oct-17	6.13	ND	ND	ND	4.73	42.5
15-Mar-18	5.80	ND	ND	ND	5.67	51.5
13-Jun-18	5.12	ND	ND	ND	6.36	46.9

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
13-Jun-17	2450	ND	ND	7.59	0.922	64.3
26-Jul-17	1230	ND	ND	5.26	1.56	61.4
11-Oct-17	2570	ND	ND	7.83	1.18	62.2
12-Mar-18	1210	ND	ND	2.14	1.57	60.3
8-Jun-18	1870	ND	ND	9.19	0.901	58.7

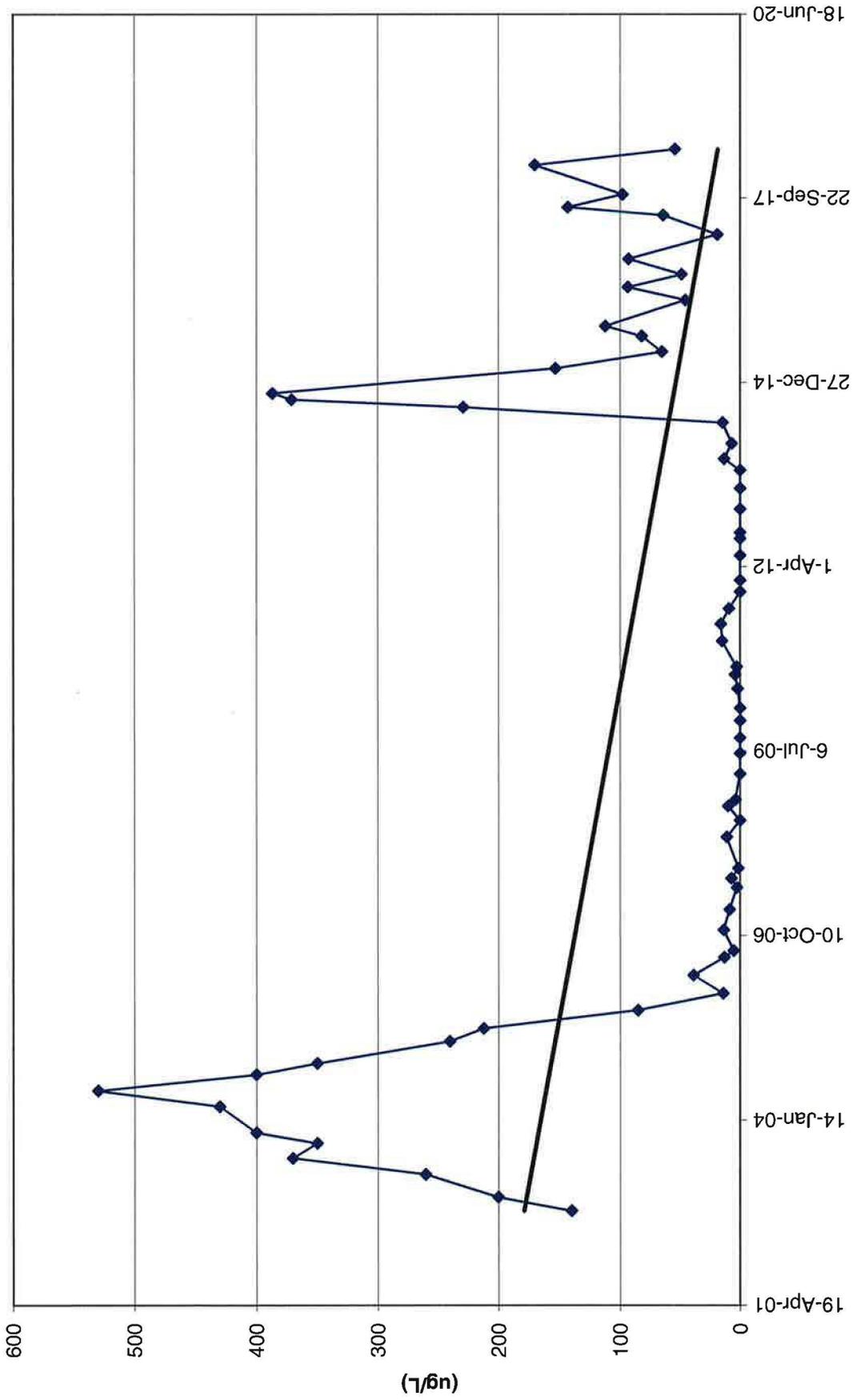
MW-26 Chloroform Values



TW4-16	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
12-Sep-02	140				ND	
24-Nov-02	200				ND	
28-Mar-03	260				ND	
23-Jun-03	370				ND	
12-Sep-03	350				ND	
8-Nov-03	400				ND	
29-Mar-04	430				ND	
22-Jun-04	530				ND	
17-Sep-04	400				ND	
17-Nov-04	350				ND	
16-Mar-05	240				ND	
25-May-05	212	NA	NA	NA	<0.1	NA
31-Aug-05	85	<1	3.2	43	<0.1	NA
1-Dec-05	14	<2.5	2.6	5.9	1.4	NA
9-Mar-06	39	<1	1.1	21	3	60
14-Jun-06	13	<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	<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	<1	<1	<1	3.3	72
22-Feb-11	15	ND	ND	ND	7	86
26-May-11	16	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	ND	ND	ND	5.1	80
24-Sep-14	371	ND	ND	ND	N/A	N/A
29-Oct-14	387	ND	ND	ND	8.40	92.1
12-Mar-15	153	ND	ND	ND	4.30	65.3
11-Jun-15	65.3	ND	ND	ND	1.06	61
3-Sep-15	82	ND	ND	ND	1.18	65.8
28-Oct-15	112	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	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
20-Jun-17	64.3	ND	ND	ND	1.81	60.6
3-Aug-17	143	ND	ND	ND	2.63	67.1
11-Oct-17	97.8	ND	ND	ND	2.12	54.2
20-Mar-18	170	ND	ND	ND	4.55	85.1
14-Jun-18	55	ND	ND	ND	2.83	62.5

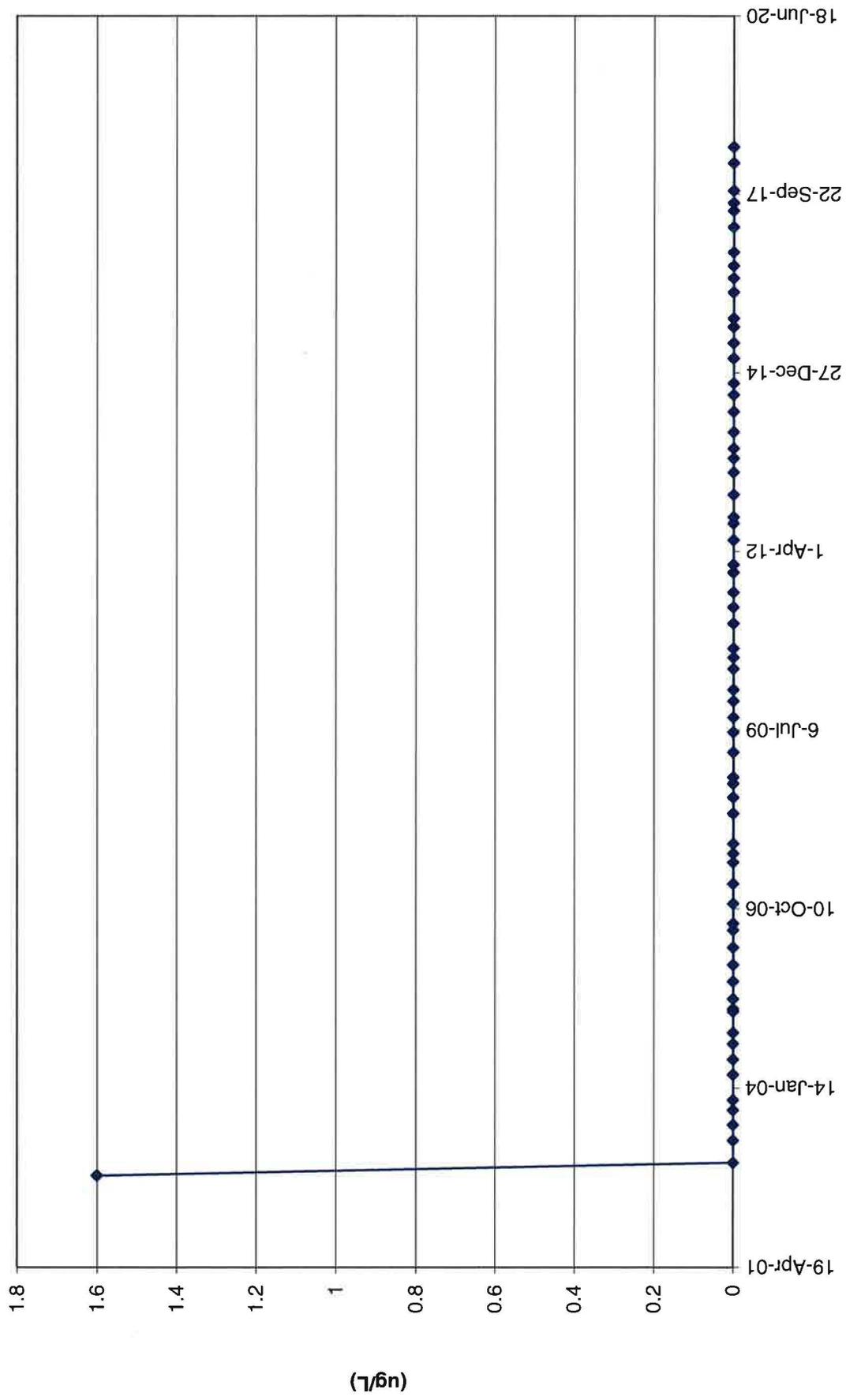
TW4-16 Chloroform Values



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
21-Jun-17	ND	ND	ND	ND	ND	37.2
4-Aug-17	ND	ND	ND	ND	ND	38.1
12-Oct-17	ND	ND	ND	ND	ND	32.6
15-Mar-18	ND	ND	ND	ND	ND	39.4
14-Jun-18	ND	ND	ND	ND	ND	34.4

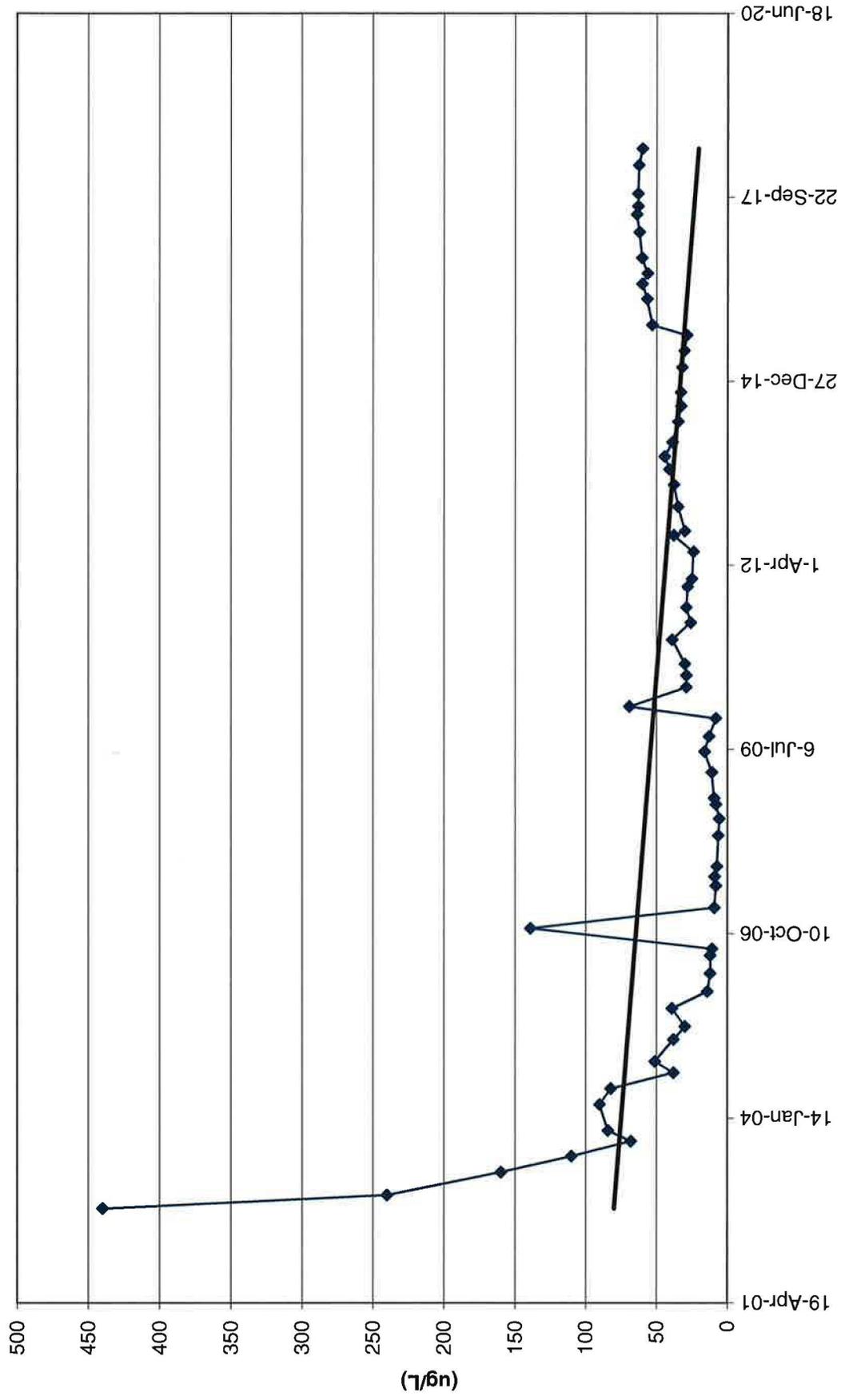
MW-32 Chloroform Values



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
20-Jun-17	63.8	ND	ND	ND	4.5	41.6
3-Aug-17	62.8	ND	ND	ND	4.24	40.4
10-Oct-17	62.9	ND	ND	ND	4.43	37.1
15-Mar-18	62.3	ND	ND	ND	4.32	44.3
13-Jun-18	59.9	ND	ND	ND	4.09	39.5

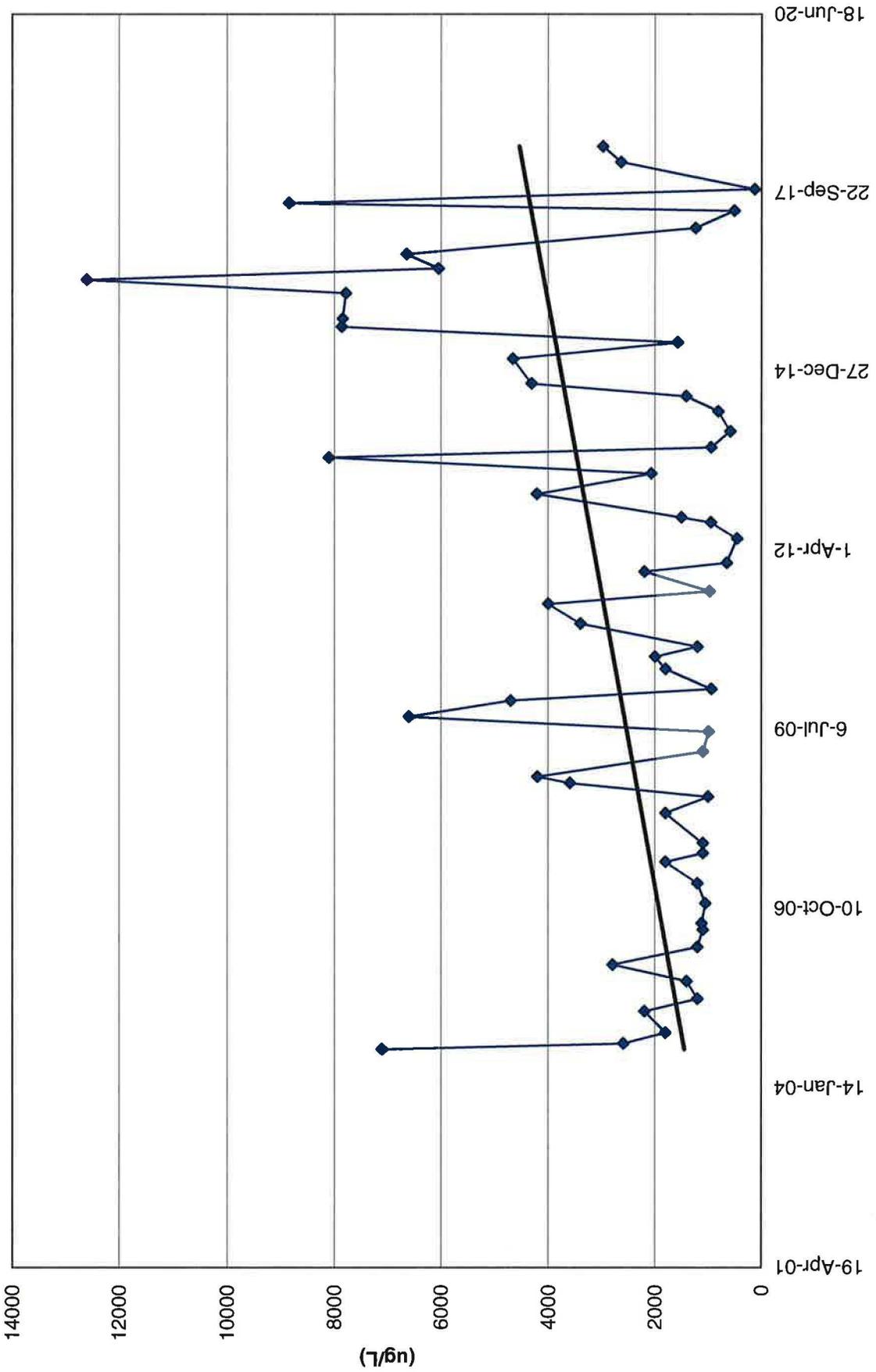
TW4-18 Chloroform Values



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
13-Jun-17	510	1.35	ND	ND	0.243	135
26-Jul-17	8840	13.0	ND	ND	1.12	218
11-Oct-17	129	ND	ND	ND	0.377	139
12-Mar-18	2640	1.36	ND	ND	8.61	193
8-Jun-18	2980	3.45	ND	ND	0.494	138

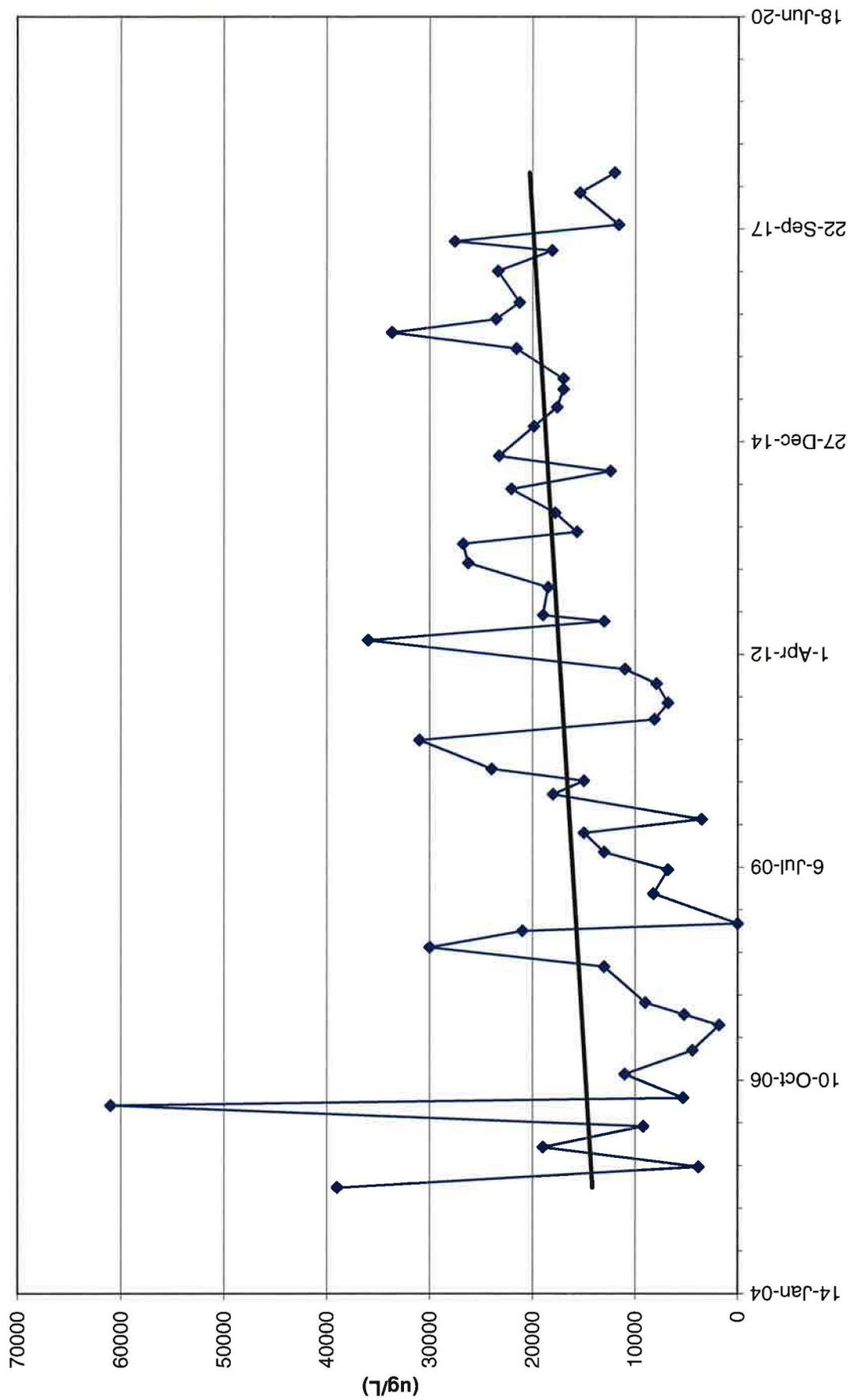
TW4-19 Chloroform Values



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
13-Jun-17	18100	23.4	ND	ND	9.76	281
26-Jul-17	27600	25.0	ND	ND	10.8	292
12-Oct-17	11600	11.2	2.34	ND	8.91	293
12-Mar-18	15400	15.9	1.77	2.36	9.5	289
14-Jun-18	12000	ND	ND	7.77	10.4	258

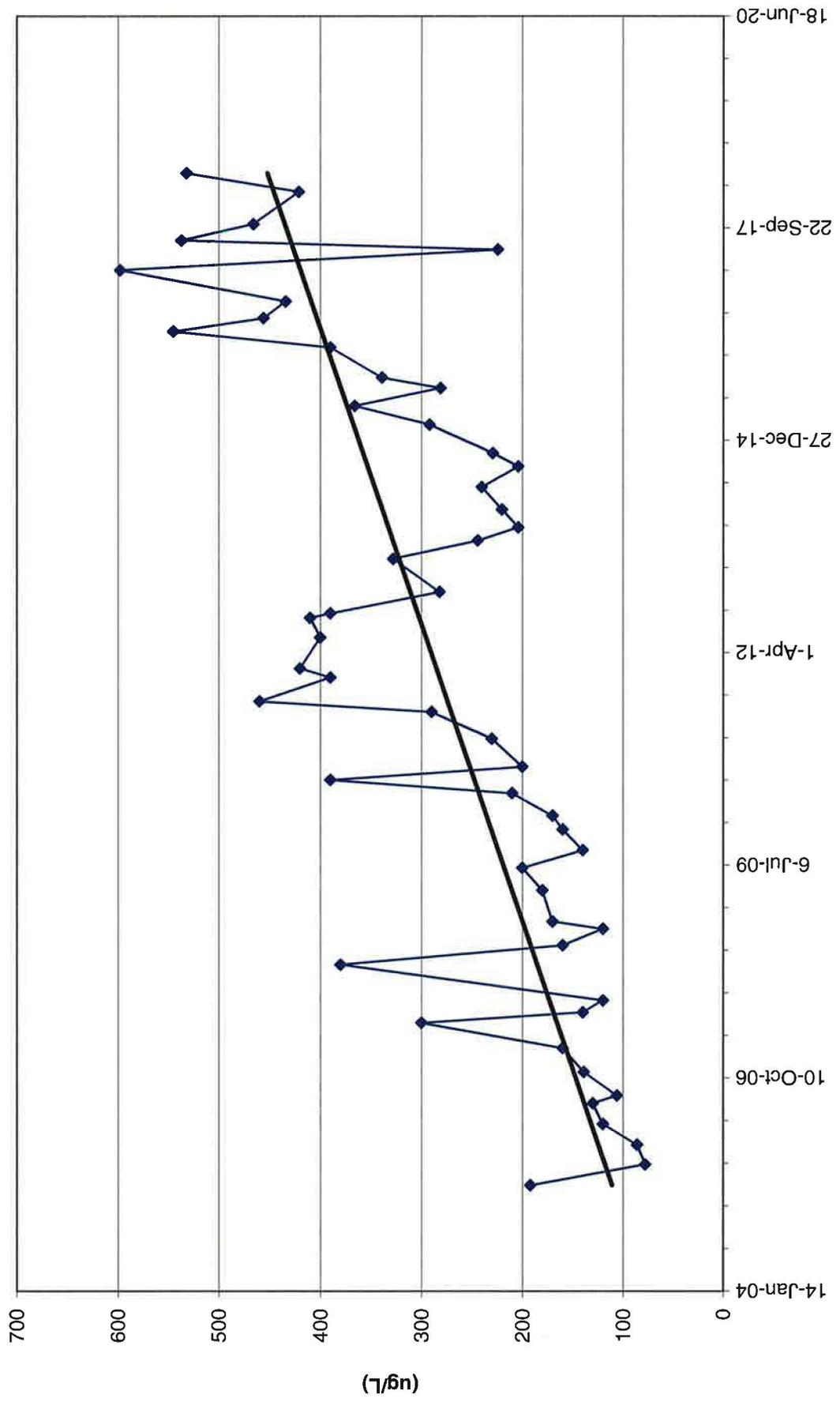
TW4-20 Chloroform Values



TW4-21	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
25-May-05	192	NA	NA	NA	14.6	NA
31-Aug-05	78	<5	<5	<5	10.1	NA
1-Dec-05	86	<1	1.0	<1	9.6	NA
9-Mar-06	120	<2.5	<2.5	<2.5	8.5	347
14-Jun-06	130	<2.5	<2.5	<2.5	10.2	318
20-Jul-06	106	<2.5	<2.5	<2.5	8.9	357
8-Nov-06	139	2	<1	<1	8.7	296
28-Feb-07	160	1.8	<1	<1	8.7	306
27-Jun-07	300	5.8	<1	<1	8.6	327
15-Aug-07	140	<1	<1	<1	8.6	300
10-Oct-07	120	<1	<1	<1	8.3	288
26-Mar-08	380	7	<1	<1	14.3	331
25-Jun-08	160	1.7	<1	<1	8.81	271
10-Sep-08	120	1.6	<1	<1	7.57	244
15-Oct-08	170	2	<1	<2	8.00	284
11-Mar-09	180	<1	<1	<1	8.3	279
24-Jun-09	200	<1	<1	<1	8.1	291
15-Sep-09	140	<1	<1	<1	9.2	281
22-Dec-09	160	<1	<1	<1	8.4	256
25-Feb-10	170	<1	<1	<1	8.4	228
10-Jun-10	210	1.2	<1	<1	12	266
12-Aug-10	390	9.2	<1	<1	14	278
13-Oct-10	200	1.2	<1	<1	7	210
22-Feb-11	230	1.2	ND	ND	9	303
28-Jun-11	290	4.8	ND	ND	12	290
17-Aug-11	460	6.3	ND	ND	14	287
7-Dec-11	390	6.7	ND	ND	13	276
19-Jan-12	420	6.4	ND	ND	15	228
13-Jun-12	400	5.4	ND	ND	11	285
13-Sep-12	410	6	ND	ND	13	142
4-Oct-12	390	7	ND	ND	14	270
13-Jan-13	282	5.25	ND	ND	11.8	221
18-Jun-13	328	3.49	ND	ND	13.8	243
12-Sep-13	244	2.13	ND	ND	10.3	207
13-Nov-13	204	ND	ND	ND	9	206
5-Feb-14	220	6.23	ND	ND	11.4	200
22-May-14	240	4.73	ND	ND	11.5	243
27-Aug-14	204	ND	ND	ND	7.1	230
29-Oct-14	229	1.04	ND	ND	10	252

TW4-21	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
12-Mar-15	292	1.75	ND	ND	10.9	255
8-Jun-15	366	1.92	ND	ND	13.1	494
31-Aug-15	281	ND	ND	ND	14.7	499
19-Oct-15	339	ND	ND	ND	14.3	413
9-Mar-16	390	ND	ND	ND	14.6	452
23-May-16	545	ND	ND	ND	13.1	425
25-Jul-16	456	ND	ND	ND	16.5	457
12-Oct-16	434	ND	ND	ND	11.4	301
12-Oct-16	434	ND	ND	ND	11.4	301
8-Mar-17	598	2.36	ND	ND	12.0	290
13-Jun-17	224	1.16	ND	ND	9.53	309
26-Jul-17	537	1.05	ND	ND	18.2	447
11-Oct-17	466	ND	ND	ND	16.9	378
12-Mar-18	421	ND	ND	ND	15.8	447
8-Jun-18	532	ND	ND	ND	14.1	387

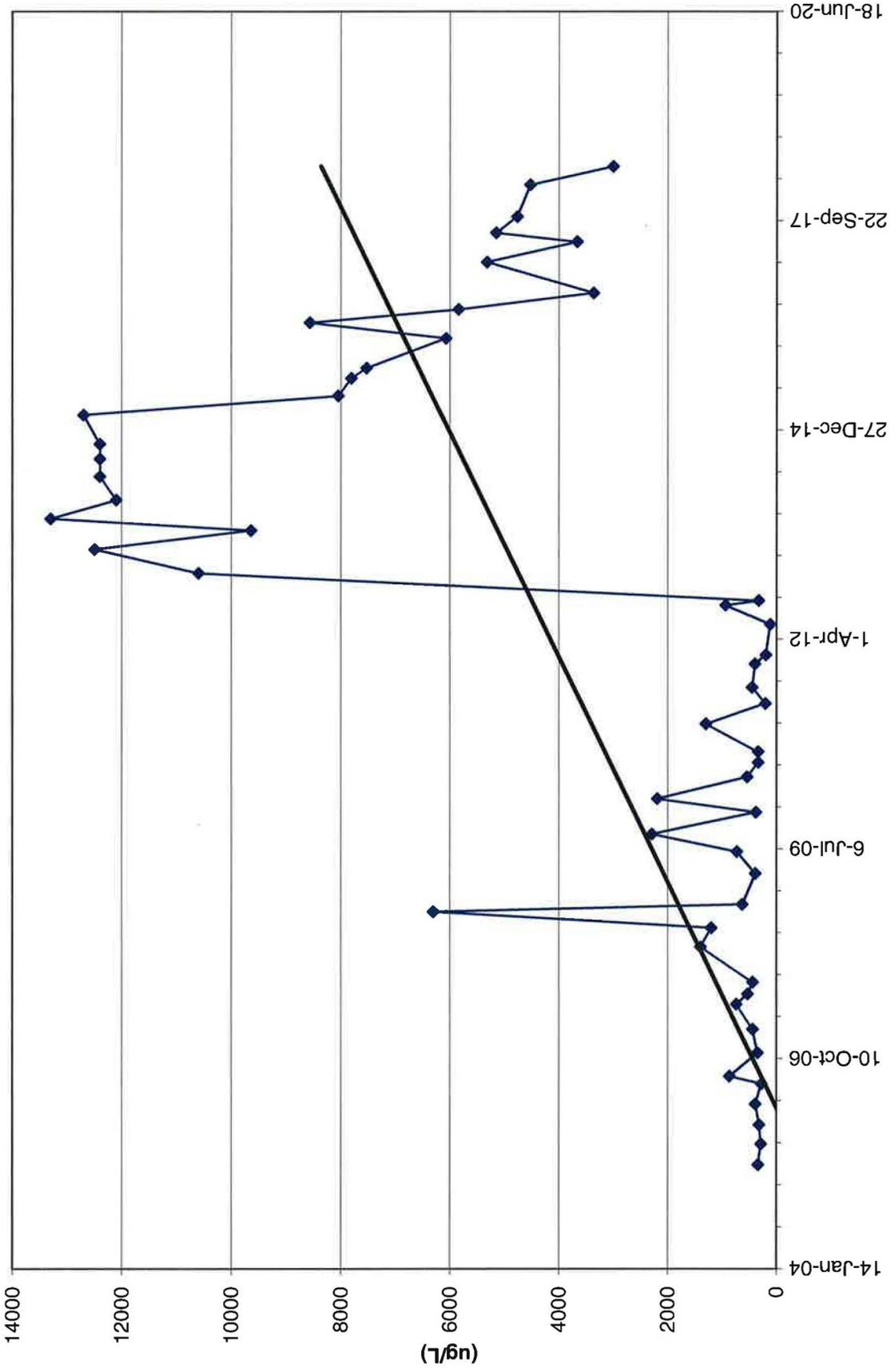
TW4-21 Chloroform Values



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
13-Jun-17	3670	1.21	ND	ND	70.8	572
26-Jul-17	5150	ND	ND	ND	66.1	391
11-Oct-17	4770	ND	ND	ND	80.1	600
12-Mar-18	4530	ND	ND	ND	62.3	607
8-Jun-18	3010	ND	ND	ND	72.5	580

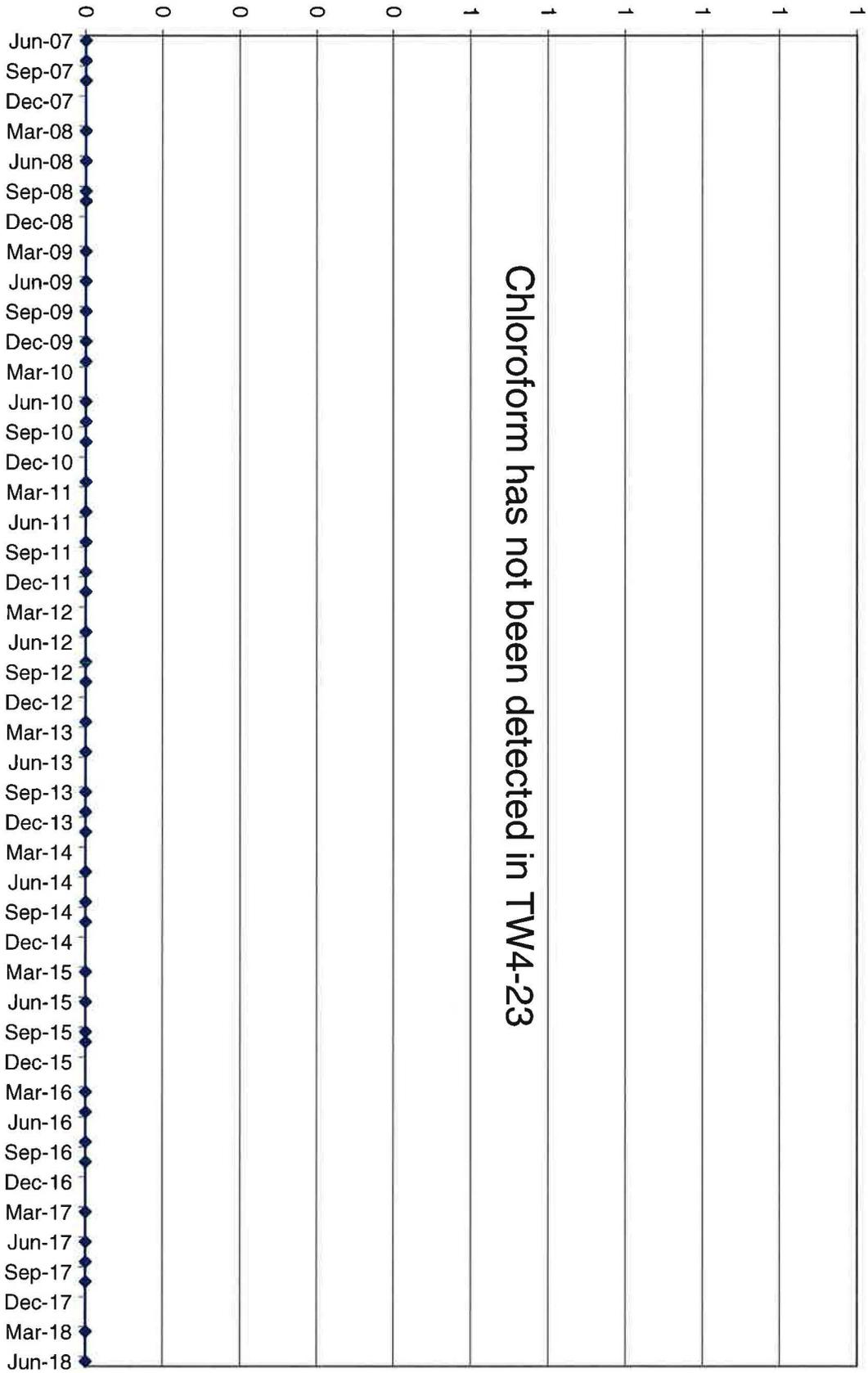
TW4-22 Chloroform Values



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
15-Jun-17	ND	ND	ND	ND	ND	51.5
2-Aug-17	ND	ND	ND	ND	ND	51.8
10-Oct-17	ND	ND	ND	ND	ND	44.7
14-Mar-18	ND	ND	ND	ND	ND	53.8
13-Jun-18	ND	ND	ND	ND	ND	47.6

(ug/L)



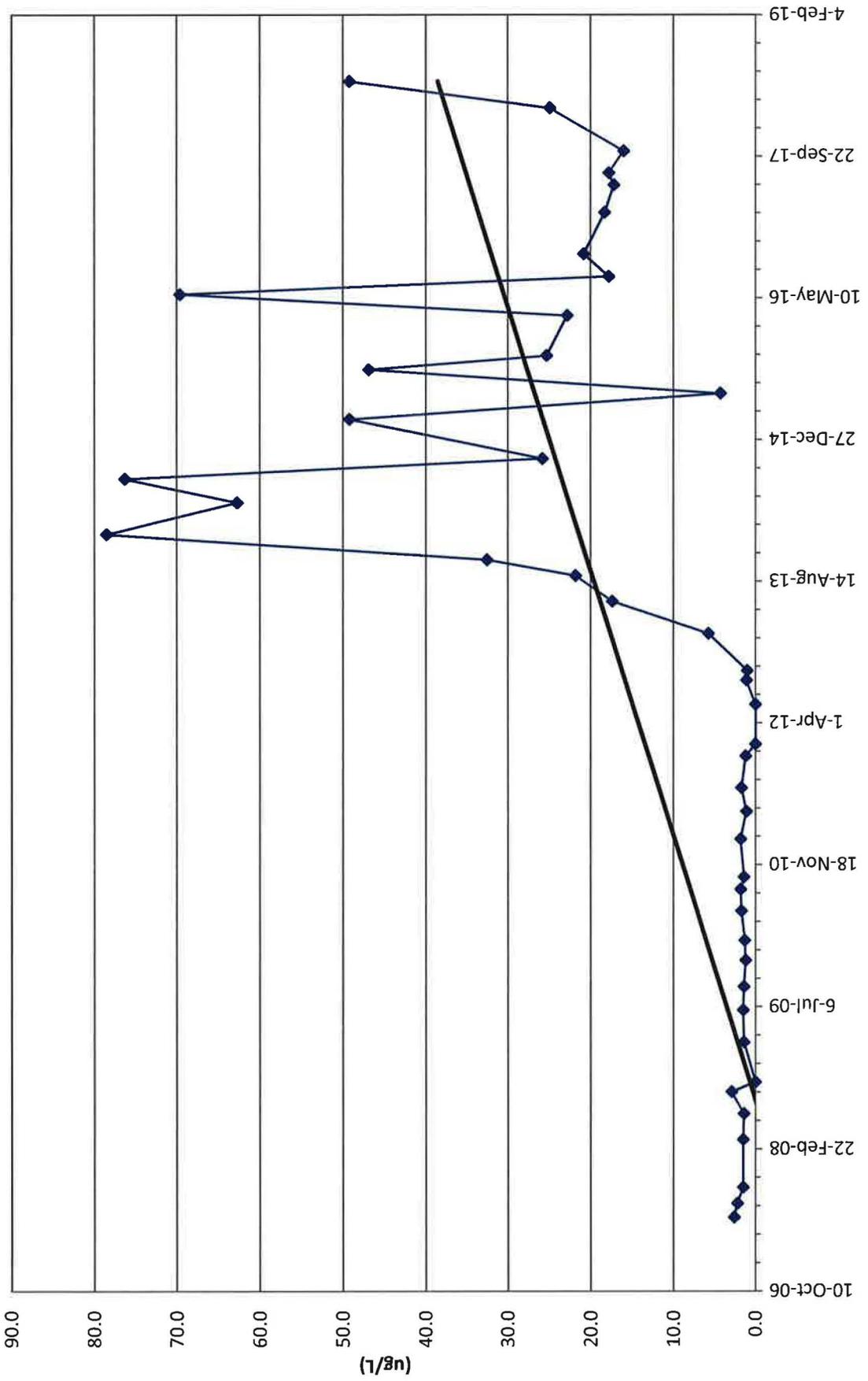
Chloroform has not been detected in TW4-23

TW4-23 Chloroform Values

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
13-Jun-17	17.2	ND	ND	ND	39.9	1080
26-Jul-17	17.8	ND	ND	ND	40.0	1230
11-Oct-17	16.0	ND	ND	ND	31.7	895
12-Mar-18	24.9	ND	ND	ND	44.9	1320
14-Jun-18	49.2	ND	ND	ND	33.6	792

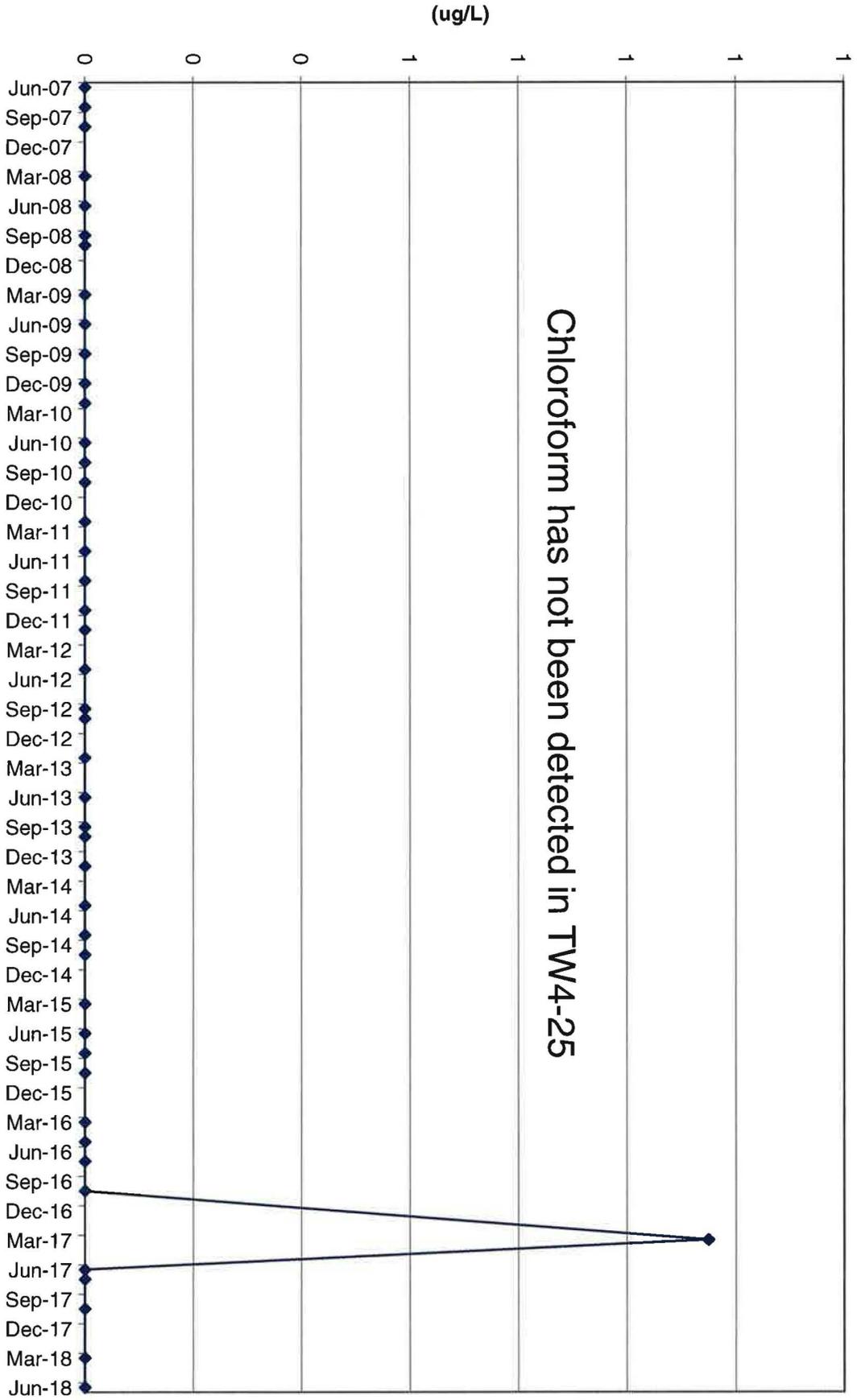
TW4-24 Chloroform Values



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

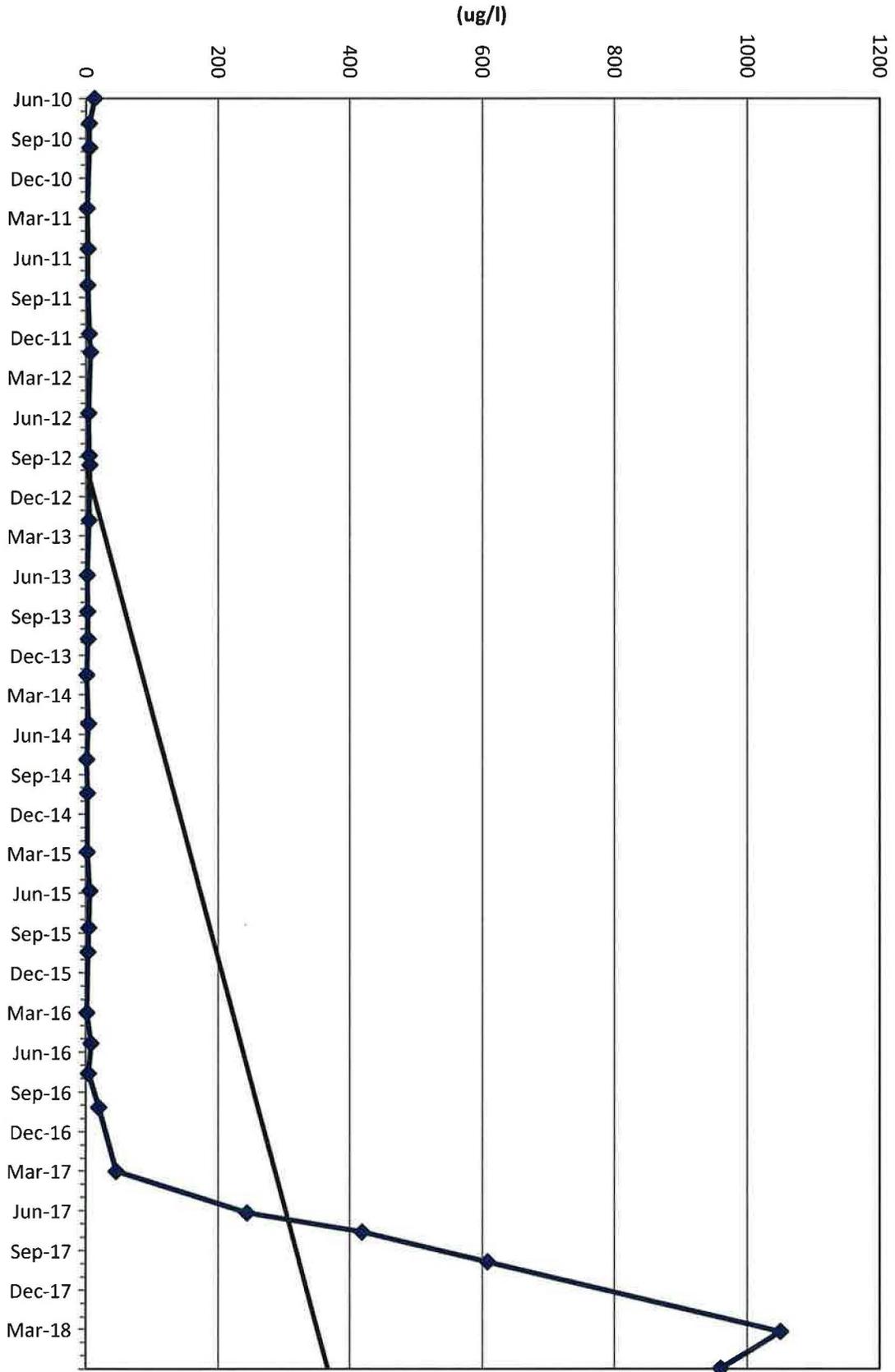
TW4-25	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
8-Mar-17	1	ND	ND	ND	17	285
13-Jun-17	ND	ND	ND	ND	0.976	69.8
26-Jul-17	ND	ND	ND	ND	1.23	70.1
11-Oct-17	ND	ND	ND	ND	1.29	68.0
12-Mar-18	ND	ND	ND	ND	2.23	70.5
14-Jun-18	ND	ND	ND	ND	1.14	60.3

TW4-25 Chloroform Values



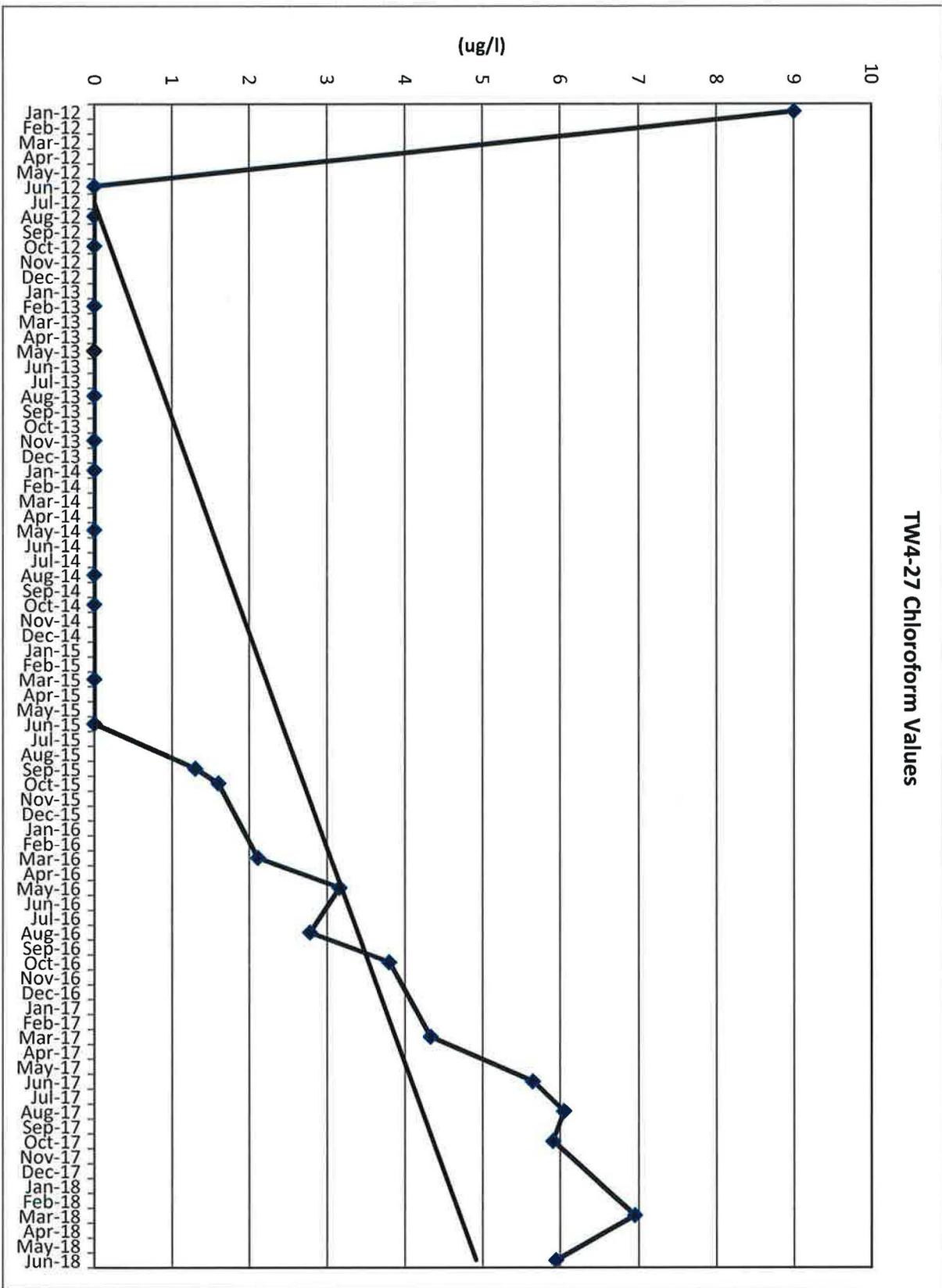
TW4-26	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
15-Jun-10	13	<1	<1	<1	7.9	33
11-Aug-10	5	<1	<1	<1	9	17
6-Oct-10	5.4	<1	<1	<1	9.6	22
22-Feb-11	2.0	ND	ND	ND	10	30
26-May-11	2.9	ND	ND	ND	10	15
17-Aug-11	2.8	ND	ND	ND	11	19
7-Dec-11	5.2	ND	ND	ND	10	26
18-Jan-12	7.0	ND	ND	ND	11	17
6-Jun-12	4.1	ND	ND	ND	12	19
11-Sep-12	4.9	ND	ND	ND	9	19
3-Oct-12	6.0	ND	ND	ND	12	19
7-Feb-13	5.0	ND	ND	ND	12.5	16.6
13-Jun-13	2.1	ND	ND	ND	13.6	14.5
5-Sep-13	2.8	ND	ND	ND	11.7	17.6
7-Nov-13	3.4	ND	ND	ND	15.9	15.9
29-Jan-14	1.4	ND	ND	ND	14.2	16.9
21-May-14	4.2	ND	ND	ND	12.5	15.4
11-Aug-14	1.3	ND	ND	ND	10.8	15
28-Oct-14	2.45	ND	ND	ND	12.3	14.6
12-Mar-15	2.37	ND	ND	ND	14.4	14.4
10-Jun-15	6.12	ND	1.17	ND	11.3	14.4
3-Sep-15	4.77	ND	ND	ND	14.2	14.0
28-Oct-15	3.45	ND	ND	ND	13.9	13.3
16-Mar-16	1.80	ND	ND	ND	16.9	13.7
26-May-16	8.23	ND	ND	ND	15.2	13.9
3-Aug-16	4.42	ND	ND	ND	17.9	13.9
20-Oct-16	19.9	ND	ND	ND	15.0	14.2
16-Mar-17	46.1	ND	ND	ND	15.8	16.2
20-Jun-17	244	ND	ND	ND	15.2	19.0
3-Aug-17	419	ND	ND	ND	15.2	25.8
11-Oct-17	608	ND	ND	ND	10.0	27.3
21-Mar-18	1050	ND	ND	ND	12.2	35.5
14-Jun-18	960	ND	ND	ND	13.2	33.5

TW4-26 Chloroform Values



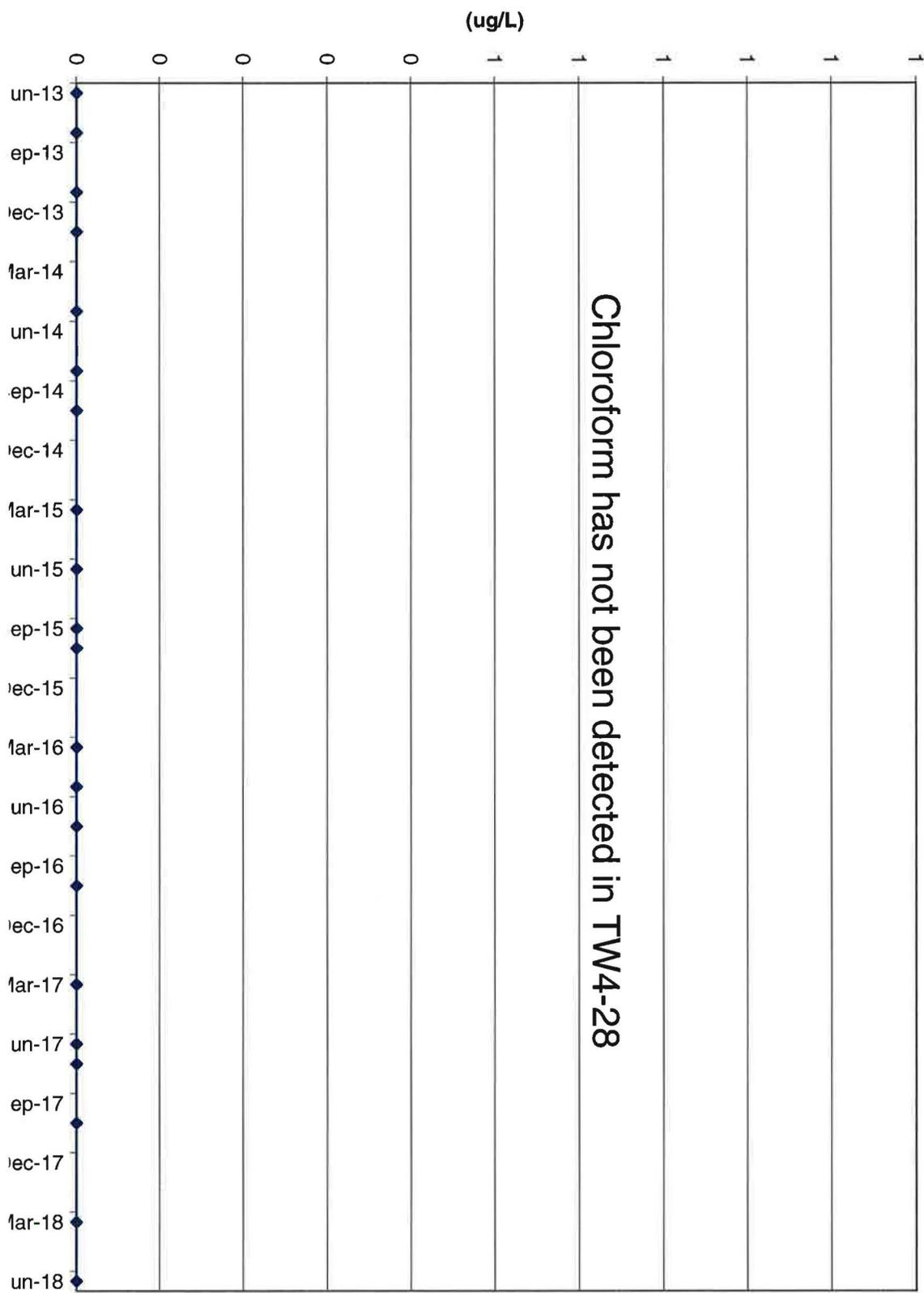
TW4-27	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
24-Jan-12	9	ND	ND	ND	24	11
13-Jun-12	ND	ND	ND	ND	41	17
30-Aug-12	ND	ND	ND	ND	37	21
3-Oct-12	ND	ND	ND	ND	36	18
7-Feb-13	ND	ND	ND	ND	31.2	18.8
30-May-13	ND	ND	ND	ND	29.4	20.3
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
15-Jun-17	5.65	ND	ND	ND	23.8	27.9
2-Aug-17	6.05	ND	ND	ND	20.0	29.5
10-Oct-17	5.91	ND	ND	ND	21.5	26.3
14-Mar-18	6.95	ND	ND	ND	19.5	30.3
13-Jun-18	5.95	ND	ND	ND	22.0	28.3

TW4-27 Chloroform Values



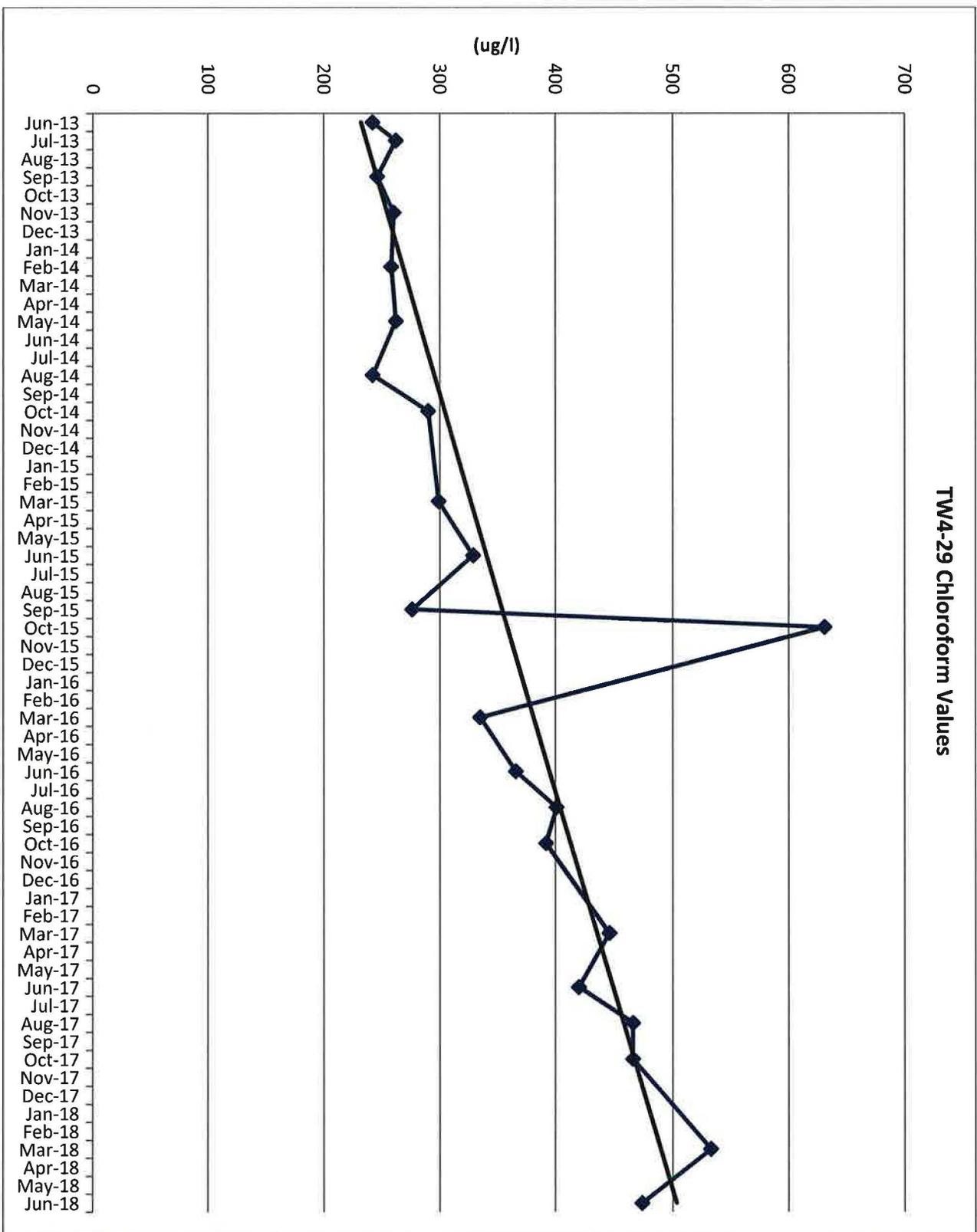
TW4-28	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
19-Jun-13	ND	ND	ND	ND	14.9	44.6
29-Aug-13	ND	ND	ND	ND	17.3	45.3
6-Nov-13	ND	ND	ND	ND	16.2	45.2
22-Jan-14	ND	ND	ND	ND	16.9	47.8
21-May-14	ND	ND	ND	ND	16.5	45.7
13-Aug-14	ND	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
14-Jun-17	ND	ND	ND	ND	26.0	68.6
27-Jul-17	ND	ND	ND	ND	24.8	67.1
10-Oct-17	ND	ND	ND	ND	24.8	57.4
14-Mar-18	ND	ND	ND	ND	17.2	65.0
12-Jun-18	ND	ND	ND	ND	19.0	55.7

TW4-28 Chloroform Values



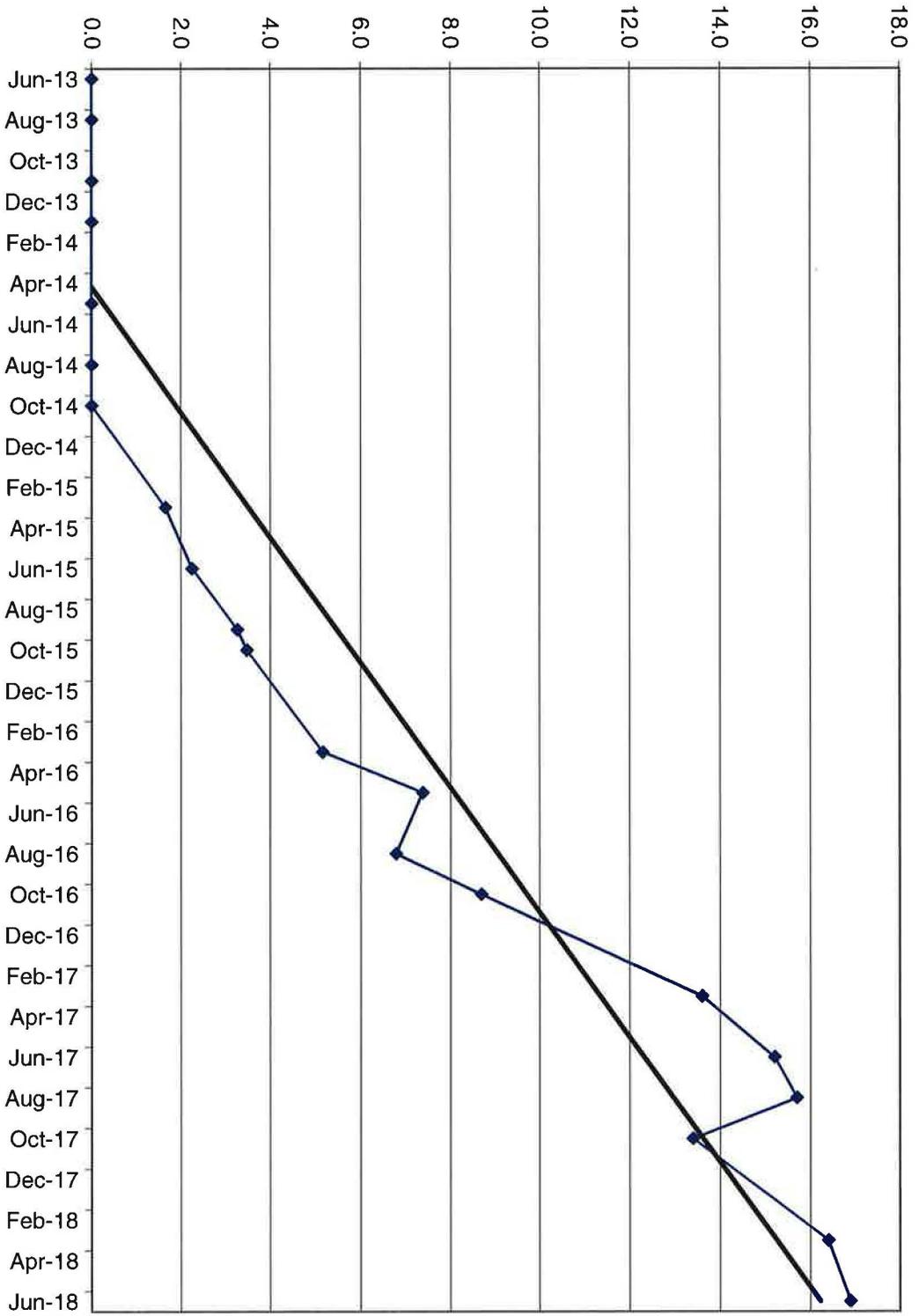
TW4-29	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
19-Jun-13	242	ND	ND	ND	4.63	44.8
11-Jul-13	262	ND	ND	ND	3.52	37.7
26-Sep-13	246	ND	ND	ND	4.18	41.4
13-Nov-13	260	ND	ND	ND	4.11	42.5
5-Feb-14	258	ND	ND	ND	4.63	41.9
22-May-14	262	ND	ND	ND	3.52	38.2
27-Aug-14	242	ND	ND	ND	3.4	41
29-Oct-14	290	ND	ND	ND	3.64	41
12-Mar-15	299	ND	ND	ND	4.14	40.5
11-Jun-15	329	ND	ND	ND	2.95	42.5
3-Sep-15	276	ND	ND	ND	2.19	47.3
29-Oct-15	631	ND	ND	ND	2.74	39.8
17-Mar-16	335	ND	ND	ND	2.92	40.3
8-Jun-16	366	ND	ND	ND	2.51	42.9
4-Aug-16	401	ND	ND	ND	2.44	40.6
26-Oct-16	392	ND	ND	ND	2.4	44.2
16-Mar-17	446	ND	ND	ND	2.24	41.5
21-Jun-17	420	ND	ND	ND	2.26	42.0
4-Aug-17	466	ND	ND	ND	2.35	42.9
11-Oct-17	466	ND	ND	ND	2.45	37.7
21-Mar-18	533	ND	ND	ND	2.44	43.1
14-Jun-18	474	ND	ND	ND	2.67	40.1

TW4-29 Chloroform Values



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	13.6	ND	ND	ND	2.7	37.7
15-Jun-17	15.2	ND	ND	ND	2.95	37.8
3-Aug-17	15.7	ND	ND	ND	3.11	39.8
10-Oct-17	13.4	ND	ND	ND	2.58	34.9
15-Mar-18	16.4	ND	ND	ND	3.63	41.0
13-Jun-18	16.9	ND	ND	ND	3.93	37.4

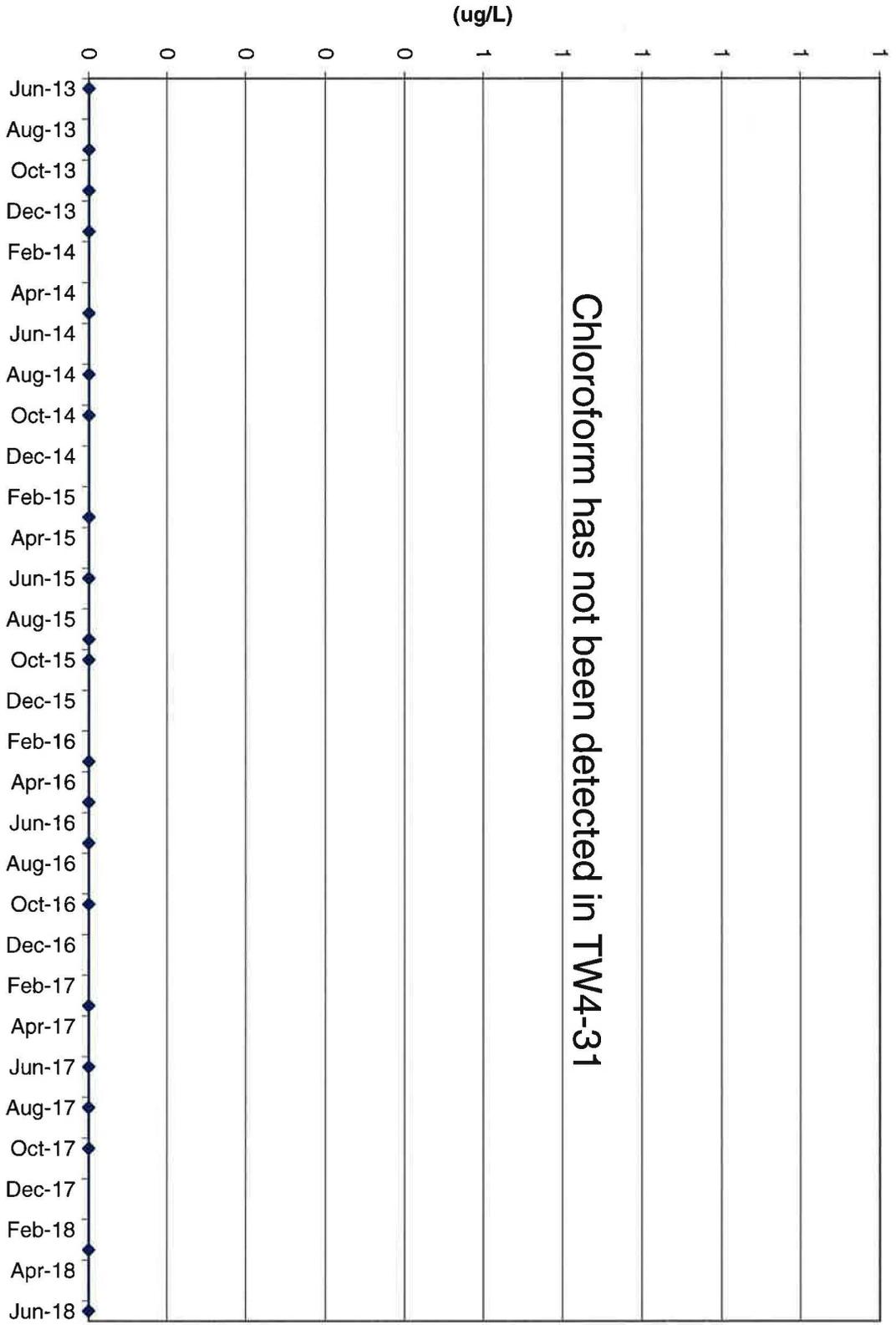
(ug/L)



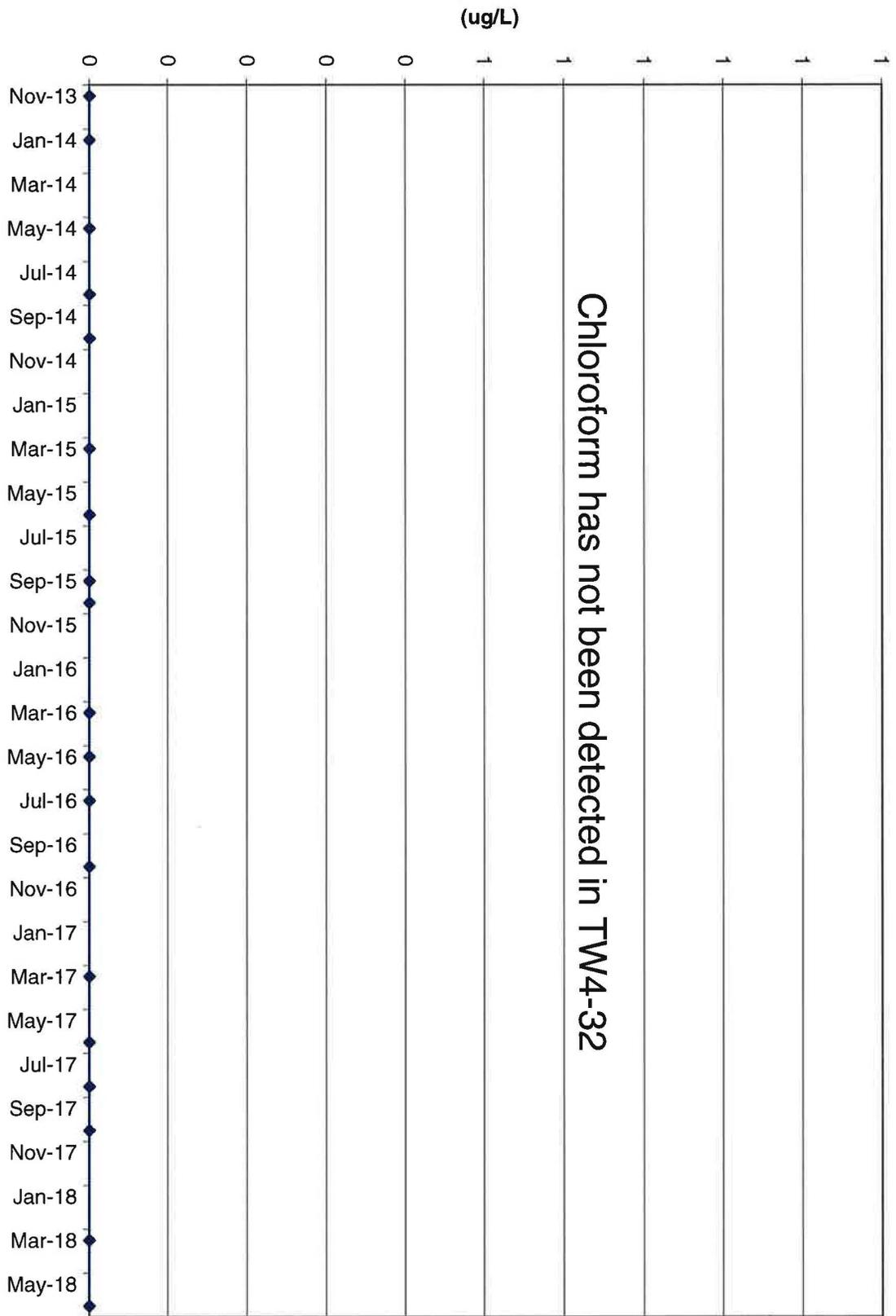
TW4-30 Chloroform Values

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
15-Jun-17	ND	ND	ND	ND	1.21	33.4
2-Aug-17	ND	ND	ND	ND	1.11	33.0
10-Oct-17	ND	ND	ND	ND	1.04	30.9
14-Mar-18	ND	ND	ND	ND	0.916	38.8
12-Jun-18	ND	ND	ND	ND	0.948	34.4

TW4-31 Chloroform Values



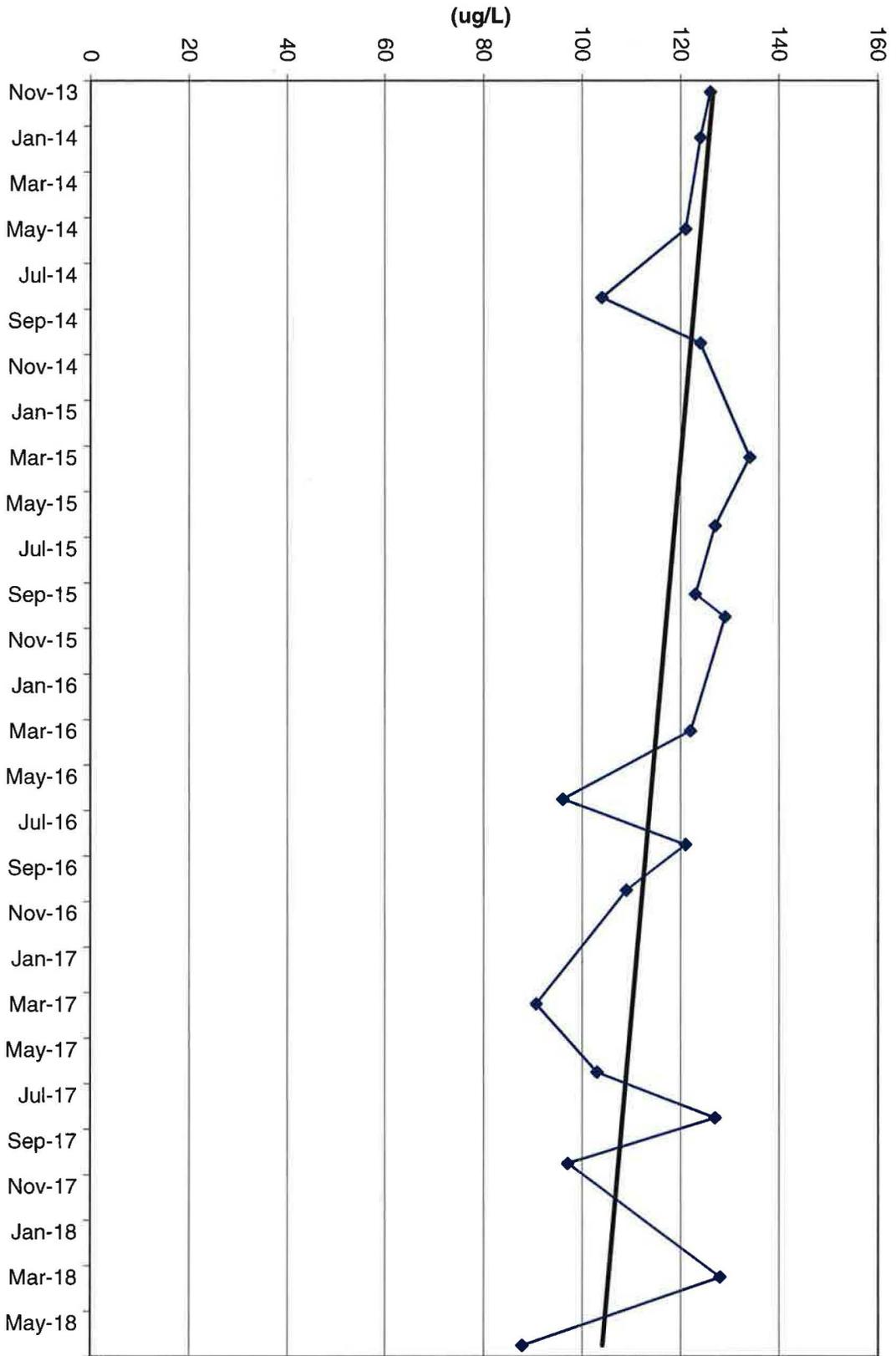
TW4-32	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
14-Nov-13	ND	ND	ND	ND	4.26	52.1
22-Jan-14	ND	ND	ND	ND	5.11	54.5
21-May-14	ND	ND	ND	ND	5.63	54.9
13-Aug-14	ND	ND	ND	ND	4.2	64
23-Oct-14	ND	ND	ND	ND	2.14	62.6
11-Mar-15	ND	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
14-Mar-17	ND	ND	ND	ND	2.82	62.8
15-Jun-17	ND	ND	ND	ND	2.37	53.5
2-Aug-17	ND	ND	ND	ND	2.47	65.8
10-Oct-17	ND	ND	ND	ND	2.54	58.3
14-Mar-18	ND	ND	ND	ND	2.94	65.4
12-Jun-18	ND	ND	ND	ND	2.51	59.2



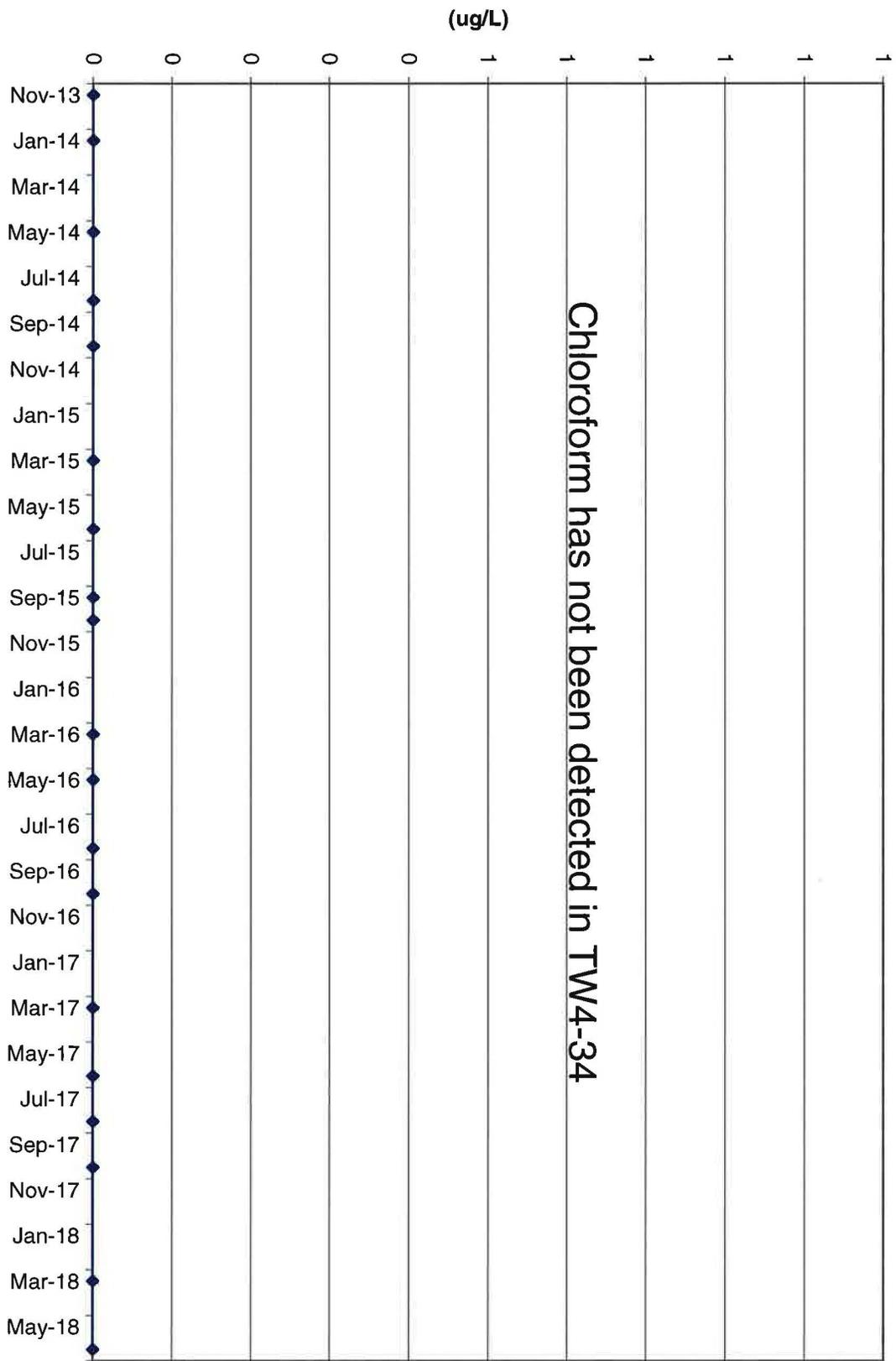
TW4-32 Chloroform Values

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
20-Jun-17	103	ND	ND	ND	2.34	49.2
3-Aug-17	127	ND	ND	ND	2.04	46.9
11-Oct-17	97.1	ND	ND	ND	2.09	42.5
15-Mar-18	128	ND	ND	ND	1.94	49.2
13-Jun-18	88	ND	ND	ND	2.13	44.0

TW4-33 Chloroform Values



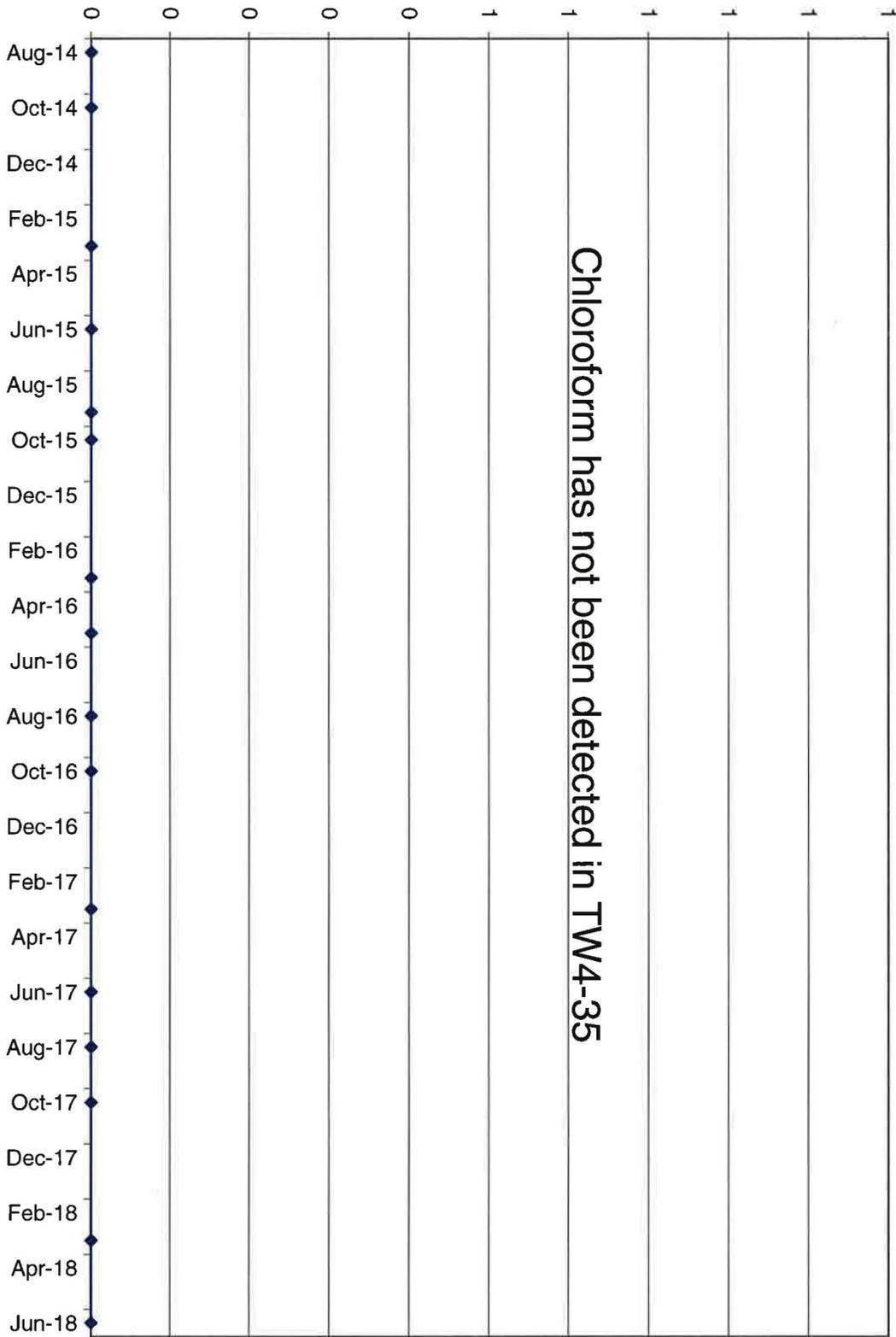
TW4-34	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
14-Nov-13	ND	ND	ND	ND	1.64	19.2
23-Jan-14	ND	ND	ND	ND	1.94	20.4
21-May-14	ND	ND	ND	ND	1.69	17.9
13-Aug-14	ND	ND	ND	ND	1.1	18
28-Oct-14	ND	ND	ND	ND	1.16	17.5
11-Mar-15	ND	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
15-Jun-17	ND	ND	ND	ND	0.727	15.7
2-Aug-17	ND	ND	ND	ND	0.733	19.8
10-Oct-17	ND	ND	ND	ND	0.774	18.5
14-Mar-18	ND	ND	ND	ND	0.737	19.1
13-Jun-18	ND	ND	ND	ND	0.877	19.5



TW4-34 Chloroform Values

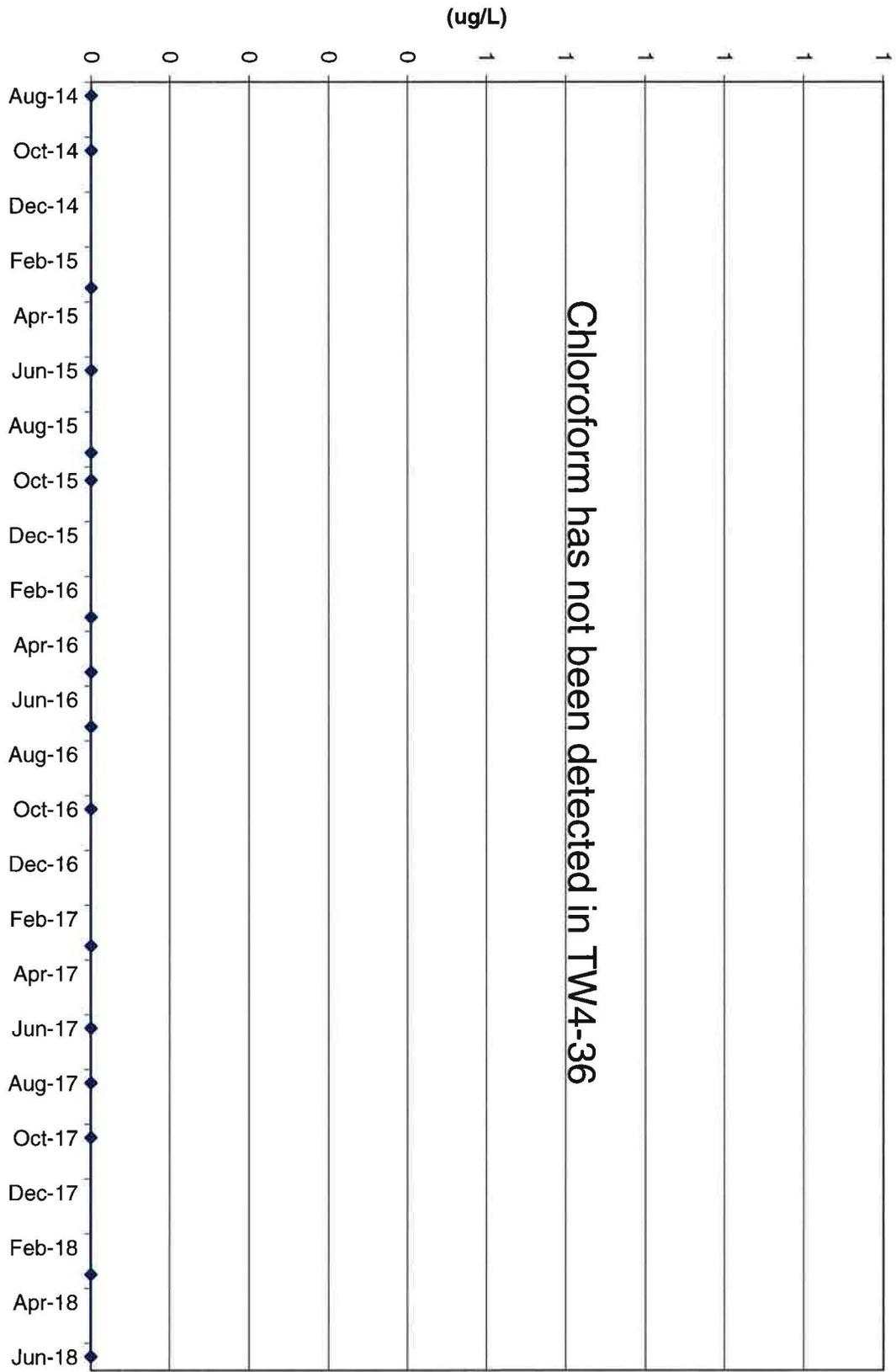
TW4-35	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
27-Aug-14	ND	ND	ND	ND	0.2	34
28-Oct-14	ND	ND	ND	ND	0.351	34.1
11-Mar-15	ND	ND	ND	ND	0.436	34.9
10-Jun-15	ND	ND	ND	ND	0.452	35.2
3-Sep-15	ND	ND	ND	ND	0.304	35.9
28-Oct-15	ND	ND	ND	ND	0.419	33.4
16-Mar-16	ND	ND	ND	ND	0.521	35.4
26-May-16	ND	ND	ND	ND	0.631	35.4
3-Aug-16	ND	ND	ND	ND	0.723	34.8
20-Oct-16	ND	ND	ND	ND	0.626	37.1
15-Mar-17	ND	ND	ND	ND	0.673	33.7
15-Jun-17	ND	ND	ND	ND	0.699	34.8
2-Aug-17	ND	ND	ND	ND	0.670	36.3
10-Oct-17	ND	ND	ND	ND	0.651	31.7
14-Mar-18	ND	ND	ND	ND	0.740	37.4
13-Jun-18	ND	ND	ND	ND	0.662	33.7

(ug/L)



TW4-35 Chloroform Values

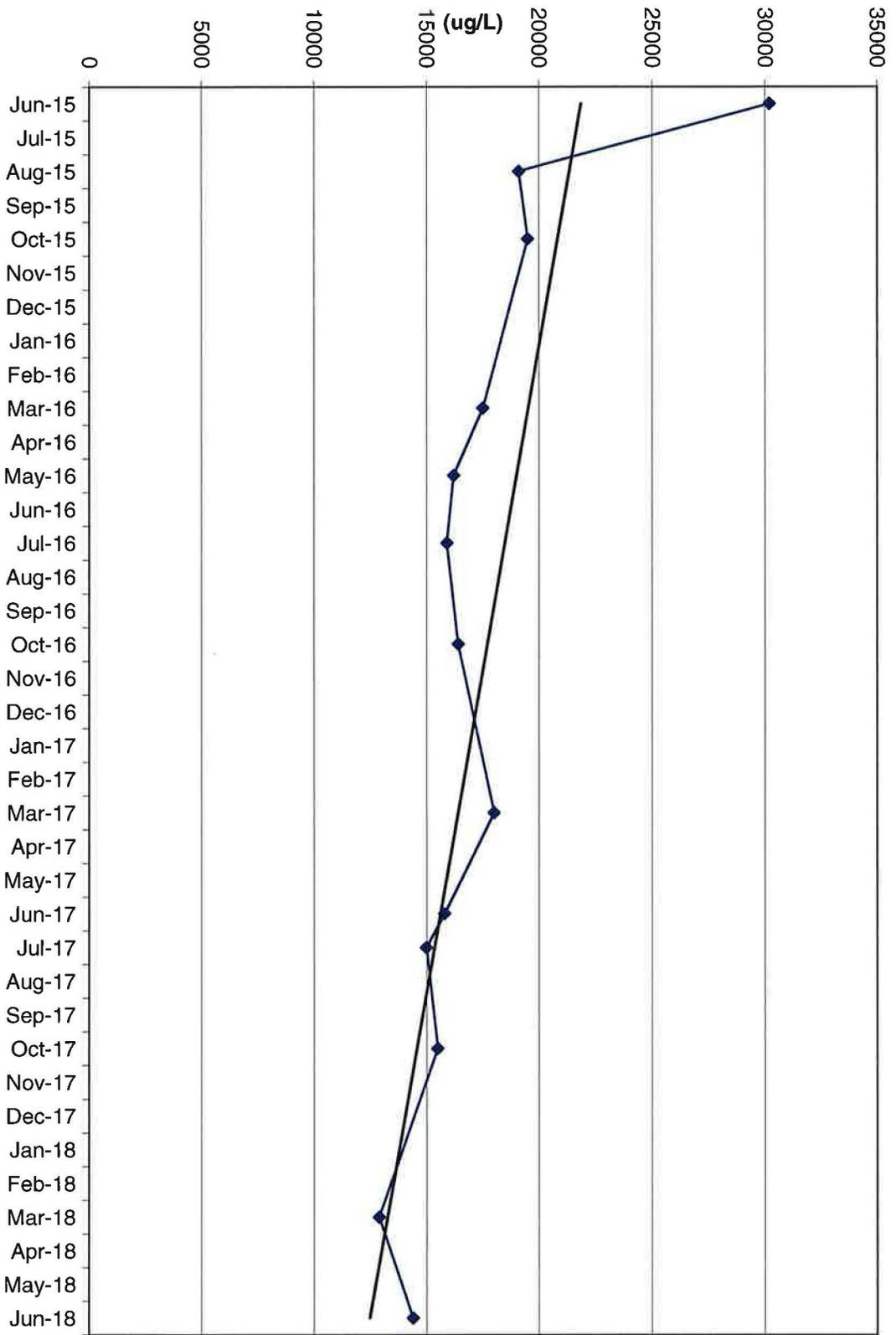
TW4-36	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
27-Aug-14	ND	ND	ND	ND	ND	65
23-Oct-14	ND	ND	ND	ND	ND	67.3
11-Mar-15	ND	ND	ND	ND	ND	67.2
10-Jun-15	ND	ND	ND	ND	ND	69.3
3-Sep-15	ND	ND	ND	ND	ND	76.4
21-Oct-15	ND	ND	ND	ND	ND	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
15-Jun-17	ND	ND	ND	ND	ND	71.3
2-Aug-17	ND	ND	ND	ND	ND	69.6
10-Oct-17	ND	ND	ND	ND	0.104	62.9
14-Mar-18	ND	ND	ND	ND	ND	73.8
12-Jun-18	ND	ND	ND	ND	ND	64.3



TW4-36 Chloroform Values

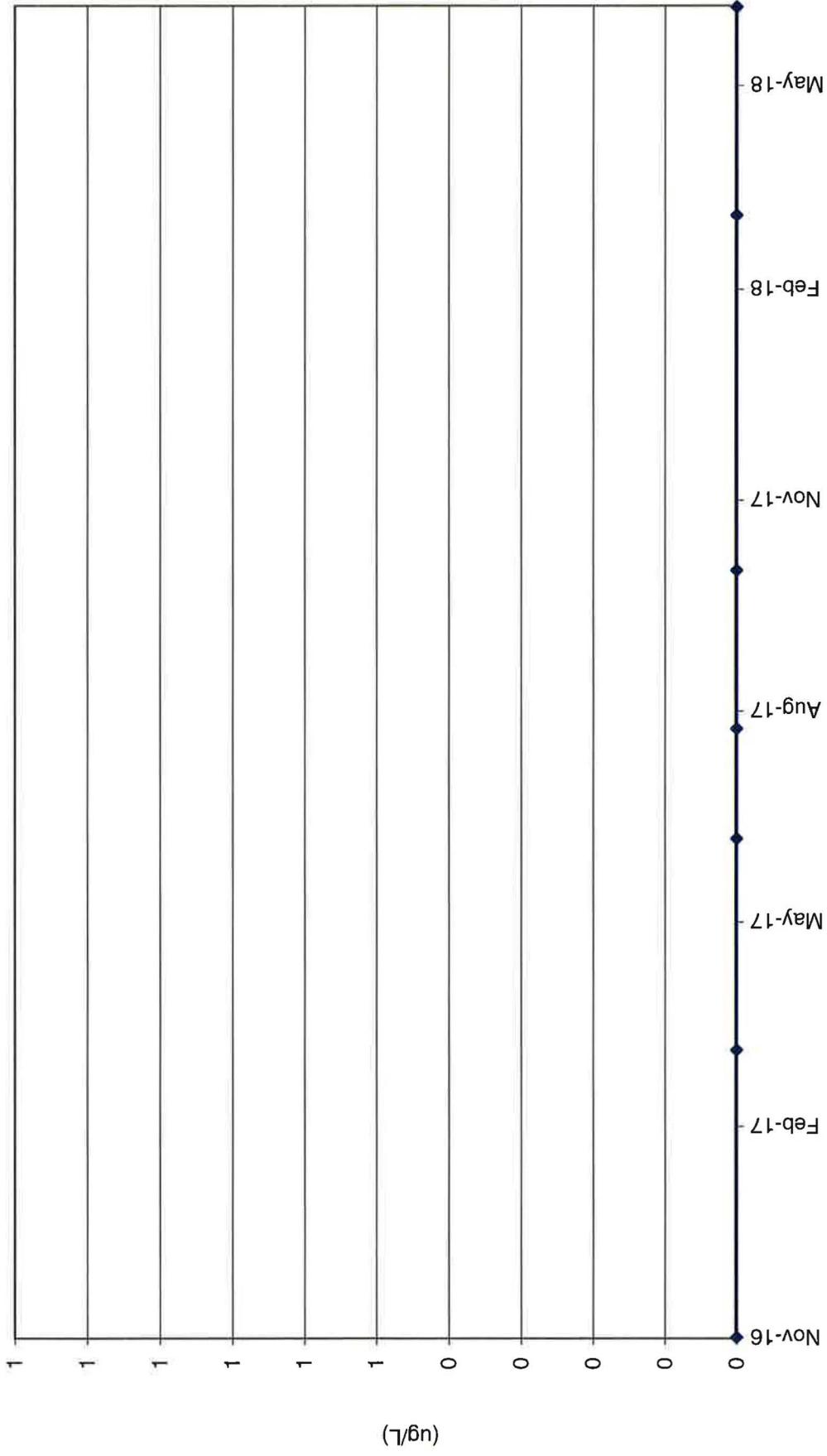
TW4-37	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
8-Jun-15	30200	18	16	2	35	345
31-Aug-15	19100	17	14	1.04	32	374
19-Oct-15	19500	13	9	1.17	35	399
9-Mar-16	17500	16	4	1.34	28.4	332
23-May-16	16200	14	ND	1.17	27.9	389
25-Jul-16	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
13-Jun-17	15800	16	ND	ND	31.2	281
26-Jul-17	15000	15.1	ND	ND	30.5	277
11-Oct-17	15500	12.6	2.47	ND	30.6	255
12-Mar-18	12900	12.8	1.14	ND	30.0	263
8-Jun-18	14400	10.6	ND	ND	28.6	275

TW4-37 Chloroform Values



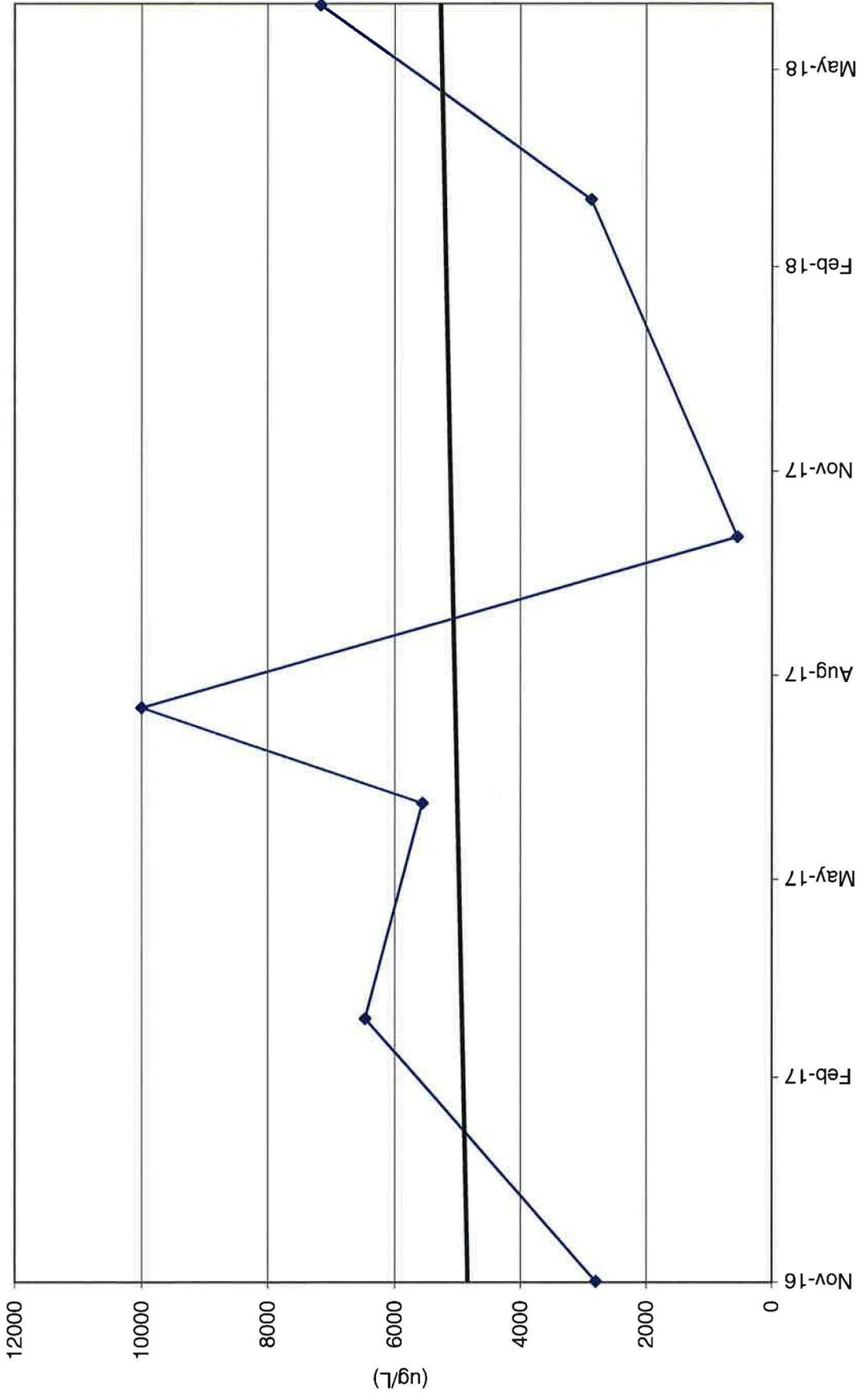
TW4-38	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
10-Nov-16	ND	ND	ND	ND	11.2	40.0
15-Mar-17	ND	ND	ND	ND	10.6	35.7
15-Jun-17	ND	ND	ND	ND	10.8	36.2
2-Aug-17	ND	ND	ND	ND	10.1	36.9
10-Oct-17	ND	ND	ND	ND	10.3	31.3
14-Mar-18	ND	ND	ND	ND	9.34	36.5
13-Jun-18	ND	ND	ND	ND	9.48	33.1

TW4-38 Chloroform Values



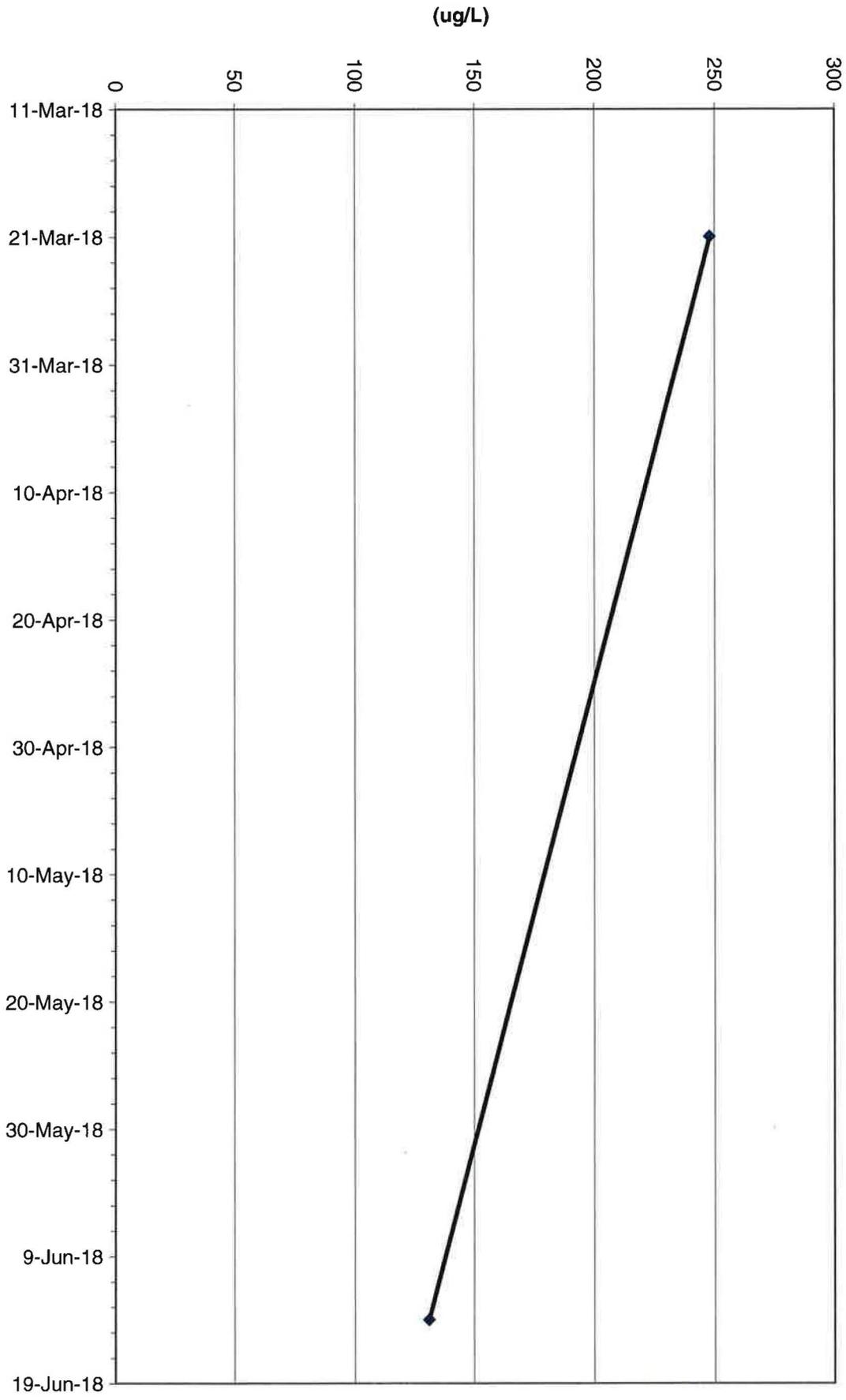
TW4-39	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
10-Nov-16	2800	ND	ND	ND	20.7	68.9
8-Mar-17	6460	8.15	ND	1.35	6.44	130
13-Jun-17	5560	8.20	ND	1.31	6.25	120
26-Jul-17	10000	14.40	ND	1.50	7.74	132
11-Oct-17	552	ND	ND	ND	2.65	73.5
12-Mar-18	2870	3.10	ND	ND	3.33	118
8-Jun-18	7160	7.94	ND	ND	4.84	107

TW4-39 Chloroform Values



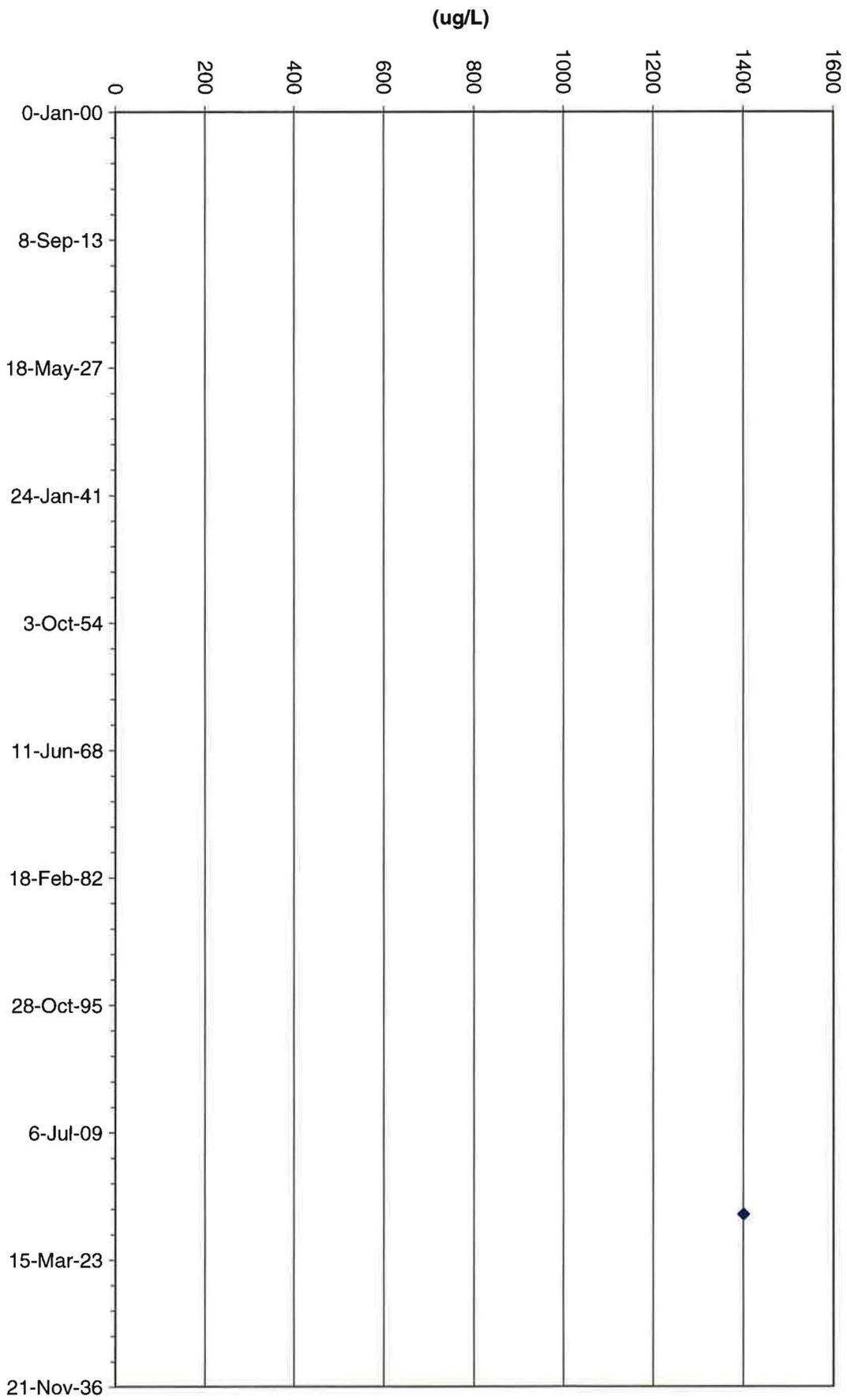
TW4-40	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
21-Mar-18	248	ND	ND	ND	3.08	35.7
14-Jun-18	131	ND	ND	ND	3.33	31.6

TW4-40 Chloroform Values



TW4-41	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
9-May-18	1400	ND	ND	ND	6.54	42.8

TW4-41 Chloroform Values



Tab L

Contour Map Based Chloroform Plume Mass Calculations and Data over Time

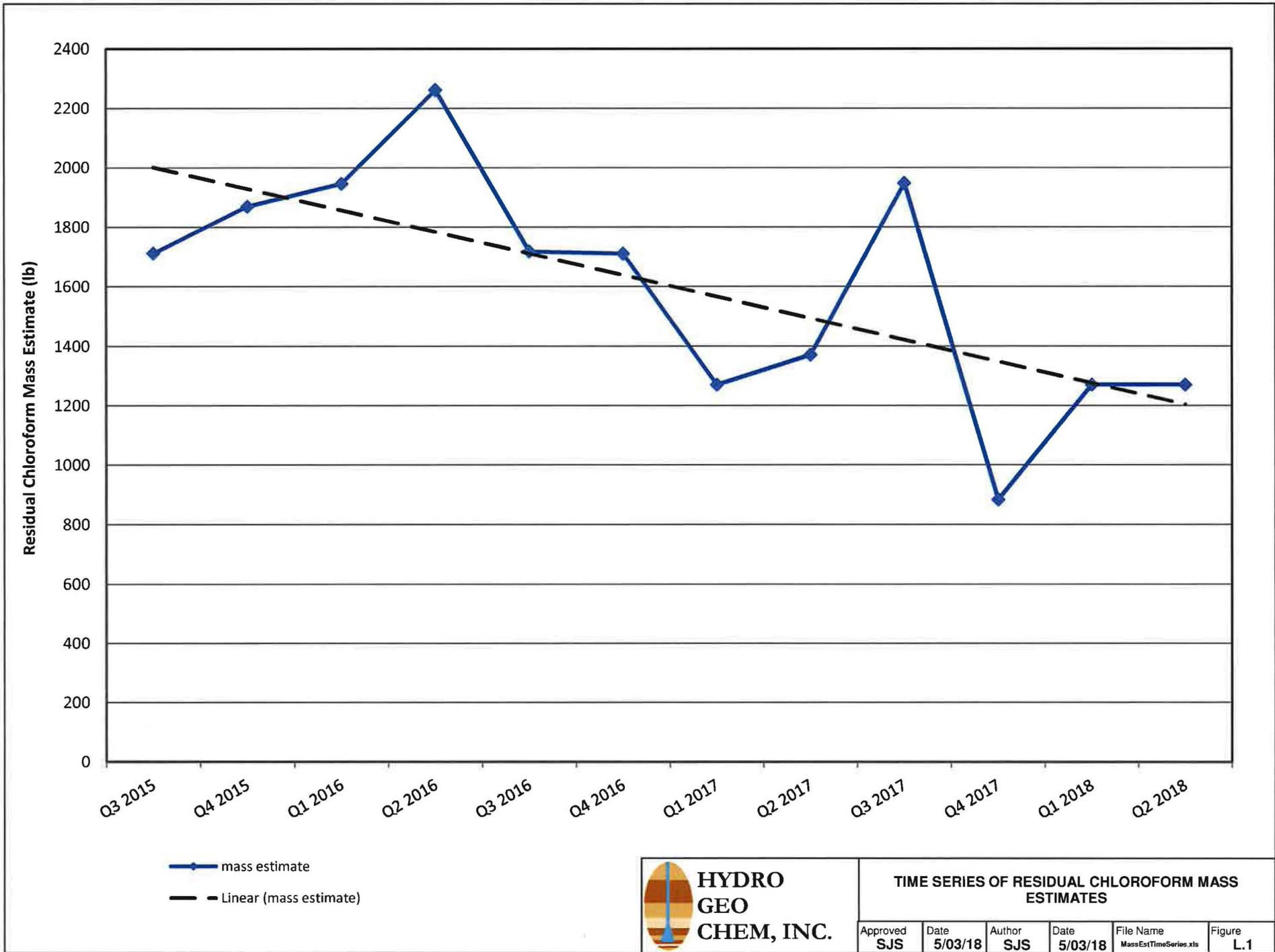


TABLE L.1
Chloroform Plume Residual Mass
Since Third Quarter 2015

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
Q2 17	1372
Q3 17	1948
Q4 17	884
Q1 18	1271
Q2 18	1271

Notes:
lbs = pounds

CHLOROFORM RESIDUAL MASS ESTIMATE DETAILS:

Chloroform Data File: CHL_SurferInput_Q2_18.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, max y (UTMN[m]):** 4154240, 4155550.64
- 4) **grid spacing in x, y (m):** 15.24, 15.24
- 5) **artificial or pseudo-data:** none
- 6) **Q4, 2017 (previous quarter) data used at wells:** none.

Chloroform residual mass estimate kriged grid files (ascii format):

Ucm2Q18wl.grd: second quarter, 2018 Water Level Grid (ft amsl)

Ucm2Q18bb.grd: second quarter, 2018 Aquifer Base Grid (ft amsl)

Ucm2Q18sat.grd: second quarter, 2018 Saturated Thickness Grid (ft)

Ucm2Q18logchl.grd: second quarter, 2018 log of chloroform grid (log of ug/L)

Ucm2Q18chl.grd: second quarter, 2018 Chloroform Concentration Grid (ug/L)

Ucm2Q18ge70.grd: second quarter, 2018 Chloroform Concentration GE 70 Grid (ug/L)

Ucm2Q18volm3.grd: second quarter, 2018 Groundwater Volume Grid (m³)

Ucm2Q18masslb.grd: second quarter, 2018 Chloroform Plume Mass Grid (lb)

Chloroform residual mass estimate kriged grid XYZ files (ascii format):

Ucm2Q18wl.dat: second quarter, 2018 Water Level Grid XYZ file (ft amsl)

Ucm2Q18bb.dat: second quarter, 2018 top of Aquifer Base Grid XYZ file (ft amsl)

Ucm2Q18sat.dat: second quarter, 2018 Saturated Thickness Grid XYZ file (ft)

Ucm2Q18logchl.dat: second quarter, 2018 log of chloroform grid XYZ file (log of ug/L)

Ucm2Q18chl.dat: second quarter, 2018 Chloroform Concentration Grid XYZ file (ug/L)

Ucm2Q18ge70.dat: second quarter, 2018 Chloroform Concentration GE 70 Grid (ug/L) XYZ file

Ucm2Q18volm3.dat: second quarter, 2018 Groundwater Volume Grid XYZ file (m³)

Ucm2Q18masslb.dat: second quarter, 2018 Chloroform Plume Mass Grid XYZ file (lb)

Chloroform plume mass estimate file: Ucm2Q18result.xls

Tab M
CSV Transmittal Letter

Kathy Weinel

From: Kathy Weinel
Sent: Tuesday, August 28, 2018 9:25 AM
To: Phillip Goble
Cc: Dean Henderson; David Frydenlund; Terry Slade; Scott Bakken; Logan Shumway; Paul Goranson
Subject: Transmittal of CSV Files White Mesa Mill 2018 Q2 Chloroform Monitoring
Attachments: 1805254-report-EDD.csv; 1806233-report-EDD.csv; 1806343-report-rev1-EDD.csv; DTWs All Programs.csv; Q2 2018 Chcl3 Field Data.csv

Dear Mr. Goble,

Attached to this e-mail is an electronic copy of laboratory results for chloroform monitoring conducted at the White Mesa Mill during the second quarter of 2018, 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



Energy Fuels Resources (USA) Inc.

Kathy Weinel

Quality Assurance Manager

t: 303.389.4134 | f: 303.389.4125
225 Union Blvd., Suite 600
Lakewood, CO 80228

<http://www.energyfuels.com>

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Tab N

Exceedance Notices for the Reporting Period



Energy Fuels Resources (USA) Inc.
225 Union Blvd. Suite 600
Lakewood, CO, US, 80228
303 974 2140
www.energyfuels.com

August 28, 2017

VIA PDF AND OVERNIGHT DELIVERY

Scott Anderson,
Director of Waste Management and Radiation Control
State of Utah Department of Environmental Quality
195 North 1950 West
P.O. Box 144880
Salt Lake City, UT 84114-4880

**Re: State of Utah Stipulation and Consent Order (“SCO”) Docket Number UGW-20-01
White Mesa Uranium Mill – Energy Fuels Resources (USA) Inc. (“EFRI”) Notice Pursuant
to Part II.H.1 of the Groundwater Corrective Action Plan (“GCAP”) included as
Attachment 1 to the SCO**

Dear Mr. Anderson:

EFRI performed second quarter 2018 chloroform monitoring during the period from April 1, to June 30, 2018 under the September 14, 2015 GCAP, included as Attachment 1 to the duly executed SCO.

Part II.G of the GCAP states that “An exceedance shall be defined as the presence of chloroform in any Compliance Monitoring Well in excess of the Table 2 Groundwater Corrective Action Limit (“GCAL”) (70 ug/l) for two or more consecutive quarters.” Further, Part II.H.1) states that “At any time EFR[I] submits a quarterly report that demonstrates an exceedance (second quarter of chloroform exceedance), EFR[I] will provide a written exceedance notice to the Director (“Exceedance Notice”) for all wells that have demonstrated such an exceedance.” Pursuant to Part II.H.1 of the GCAP, please note that the concentrations of chloroform in TW4-40 exceeded the respective GCAL of 70 ug/L for two or more consecutive quarters as noted on Table 1 attached.

This letter serves as the Exceedance Notice required pursuant to Part II.H.1) of the GCAP.

Part II.H.2) of the GCAP requires that within 60 days after the time of submittal of a quarterly report that demonstrates an exceedance, EFRI will provide a plan and schedule for remedial actions to address excursion for Director approval. A Plan and Time Schedule as required by II.H.2) will be submitted under separate cover within the timeframe specified.

If you should have any questions regarding this submittal please contact me at (303) 389-4134.

Yours truly,

A handwritten signature in blue ink that reads 'Kathy Weinel'.

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

cc: David Frydenlund, Paul Goranson, Terry Slade, Logan Shumway, Scott Bakken

Table 1
TW4-40 Data

TW4-40	Chloroform (ug/l)	Carbon Tetrachloride (ug/l)	Chloromethane (ug/l)	Methylene Chloride (ug/l)	Nitrate (mg/l)	Chloride (mg/l)
21-Mar-18	248	ND	ND	ND	3.08	35.7
14-Jun-18	131	ND	ND	ND	3.33	31.6