Div of Waste Management and Radiation Control

MAY 0 9 2022

Energy Fuels Resources (USA) Inc. 225 Union Blvd. Suite 600 Lakewood, CO, US, 80228 303 974 2140 www.energyfuels.com



DRC-2022-008541

May 3, 2022

Sent VIA EXPEDITED DELIVERY

Mr. Doug Hansen Director Division of Waste Management and Radiation Control Utah Department of Environmental Quality 195 North 1950 West Salt Lake City, UT 84116

Re: Transmittal of 1st Quarter 2022 Nitrate Monitoring Report Stipulation and Consent Order Docket Number UGW12-04 White Mesa Uranium Mill

Dear Mr. Hansen:

Enclosed are two copies of the White Mesa Uranium Mill Nitrate Monitoring Report for the 1st Quarter of 2022 as required by the Stipulation and Consent Order Docket Number UGW12-04, as well as two CDs each containing a word searchable electronic copy of the report.

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

Yours very truly,

Katty Weinel

ENERGY FUELS RESOURCES (USA) INC. Kathy Weinel Director, Regulatory Compliance

cc: David Frydenlund Logan Shumway Garrin Palmer Scott Bakken



May 3, 2022

Sent VIA EXPEDITED DELIVERY

Mr. Doug Hansen Director Division of Waste Management and Radiation Control Utah Department of Environmental Quality 195 North 1950 West Salt Lake City, UT 84116

Re: Transmittal of 1st Quarter 2022 Nitrate Monitoring Report Stipulation and Consent Order Docket Number UGW12-04 White Mesa Uranium Mill

Dear Mr. Hansen:

Enclosed are two copies of the White Mesa Uranium Mill Nitrate Monitoring Report for the 1st Quarter of 2022 as required by the Stipulation and Consent Order Docket Number UGW12-04, as well as two CDs each containing a word searchable electronic copy of the report.

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

Yours very truly,

Koty Weirel

ENERGY FUELS RESOURCES (USA) INC. Kathy Weinel Director, Regulatory Compliance

cc: David Frydenlund Logan Shumway Garrin Palmer Scott Bakken

White Mesa Uranium Mill

N.

Nitrate Monitoring Report

State of Utah Stipulated Consent Agreement, December 2014 Docket No. UGW12-04

> 1st Quarter (January through March) 2022

> > Prepared by:



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

May 3, 2022

TABLE OF CONTENTS

1.0 INTR	ODUCTION	1	
2.0 GRO	UNDWATER NITRATE MONITORING	1	
2.1 Samples and Measurements Taken During the Quarter			
2.1.1	Nitrate Monitoring	2	
2.1.2	Parameters Analyzed		
2.1.3	Groundwater Head and Level Monitoring		
2.2 Sampling Methodology and Equipment and Decontamination Procedures 4			
2.2.1	Well Purging, Sampling and Depth to Groundwater		
2.2.2	Piezometer Sampling		
	ld Data		
	oth to Groundwater Data and Water Table Contour Map		
	ooratory Results		
2.5.1	Copy of Laboratory Results		
2.5.2	Regulatory Framework		
	LITY ASSURANCE AND DATA VALIDATION		
	ld QC Samples		
	herence to Mill Sampling SOPs		
	alyte Completeness Review		
	a Validation		
3.4.1	Field Data QA/QC Evaluation		
3.4.2	Holding Time Evaluation		
3.4.3	Analytical Method Checklist		
3.4.4	Reporting Limit Evaluation		
3.4.5	QA/QC Evaluation for Sample Duplicates		
3.4.6	Other Laboratory QA/QC		
3.4.7	Receipt Temperature Evaluation		
3.4.8	Rinsate Check		
	RPRETATION OF DATA		
4.1 Inte 4.1.1	erpretation of Groundwater Levels, Gradients and Flow Directions		
4.1.1	Comparison of Current Groundwater Contour Map to Groundwater Contour		
4.1.2	for Previous Quarter		
4.1.4	Depth to Groundwater Measured and Groundwater Elevation		
	ectiveness of Hydraulic Containment and Capture		
4.2.1	Hydraulic Containment and Control		
4.2.2	Current Nitrate and Chloride Isoconcentration Maps		
	mparison of Areal Extent		
4.2.4	Nitrate and Chloride Concentration Trend Data and Graphs		
4.2.5	Interpretation of Analytical Data		
	imation of Pumped Nitrate Mass and Residual Nitrate Mass within the Plu	ne	
4.5 Estimation of Funiped Wass and Residual What Wass within the Funite			
5.0 LONG TERM PUMP TEST AT TWN-02, TW4-22, TW4-24, and TW4-25			
OPERATIONS REPORT			
	oduction		
5.2 Pur	nping Well Data Collection	26	

5.3	Water Level Measurements	27
5.4	Pumping Rates and Volumes	27
5.	4.1 TW4-19	28
6.0	CORRECTIVE ACTION REPORT.	28
6.1	Assessment of Previous Quarter's Corrective Actions	28
7.0	CONCLUSIONS AND RECOMMENDATIONS	28
8.0	ELECTRONIC DATA FILES AND FORMAT	33
9.0	SIGNATURE AND CERTIFICATION	34

LIST OF TABLES

Table 1	Summary of Well Sampling and Constituents for the Period	
Table 2	Nitrate Mass Removal Per Well Per Quarter	
Table 3	Nitrate Well Pumping Rates and Volumes	
Table 4	Quarterly Calculation of Nitrate Mass Removed and Total Volume of Water Pumped	
Table 5	Nitrate Data over Time for MW-30, MW-31, MW-5, and MW-11	
Table 6	Slug Test Results	
Table 7	Pre-Pumping Saturated Thickness	
Table 8	Pre-Pumping Hydraulic Gradients and Flow Calculations	
Table 9	Recalculated Background Flow	

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 Kriged Current Quarter Groundwater Contour Map and Weekly, Monthly and Quarterly Depth to Water Data
- Tab D Kriged Previous Quarter Groundwater Contour Map
- Tab E Hydrographs of Groundwater Elevations over Time for Nitrate Monitoring Wells
- Tab F Depths to Groundwater and Elevations over Time for Nitrate Monitoring Wells
- Tab G Laboratory Analytical Reports

Tab H Quality Assurance and Data Validation Tables

- H-1 Field Data QA/QC Evaluation
- H-2 Holding Time Evaluation
- H-3 Analytical Method Check
- H-4 Reporting Limit Evaluation
- H-5 QA/QC Evaluation for Sample Duplicates
- H-6 QC Control limits for Analysis and Blanks
- H-7 Receipt Temperature Evaluation
- H-8 Rinsate Evaluation
- Tab I Kriged Current Quarter Nitrate and Chloride Isoconcentration Maps
- Tab J Analyte Concentration Data Over Time

Tab K Nitrate and Chloride Concentration Trend Graphs

- Tab L CSV Transmittal Letter
- Tab M Residual Mass Estimate Analysis Figure

ACRONYM LIST

American West Analytical Laboratory
American West Analytical Laboratory
Consent Agreement
Corrective Action Plan
Contamination Investigation Report
Deionized Field Blanks
Utah Division of Waste Management and Radiation Control
Utah Division of Radiation Control
Energy Fuels Resources (USA) Inc.
feet above mean sea level
Groundwater Discharge Permit
Laboratory Control Spike
Matrix Spike
Matrix Spike Duplicate
Quality Assurance
Groundwater Monitoring Quality Assurance Plan
Quality Control
Relative Percent Difference
Stipulated Consent Order
Standard Operating Procedures
Utah Department of Environmental Quality
Volatile Organic Compound

1.0 INTRODUCTION

The Utah Department of Environmental Quality ("UDEQ") Division of Waste Management and Radiation Control ("DWMRC") noted in a Request dated September 30, 2008 (the "Request"), for a Voluntary Plan and Schedule to Investigate and Remediate Nitrate Contamination at the White Mesa Uranium Mill (the "Mill") (the "Plan"), that nitrate levels have exceeded the State water quality standard of 10 mg/L in certain monitoring wells. As a result of the Request, Energy Fuels Resources (USA) Inc. ("EFRI") entered into a Stipulated Consent Agreement with the Utah Water Quality Board in January 2009 which directed the preparation of a Nitrate Contamination Investigation Report ("CIR"). A subsequent letter dated December 1, 2009, among other things, recommended that EFRI also address elevated chloride concentrations in the CIR. The Stipulated Consent Agreement was amended in August 2011. Under the amended Consent Agreement ("CA"), EFRI submitted a Corrective Action Plan ("CAP"), pursuant to the requirements of the Utah Groundwater Quality Protection Rules [UAC R317-6-6.15(C - E)] on November 29, 2011 and revised versions of the CAP on February 27, 2012 and May 7, 2012. On December 12, 2012, DWMRC signed the Stipulation and Consent Order ("SCO"), Docket Number UGW12-04, which approved the EFRI CAP, dated May 7, 2012. The SCO ordered EFRI to fully implement all elements of the May 7, 2012 CAP.

Based on the schedule included in the CAP and as delineated and approved by the SCO, the activities associated with the implementation of the CAP began in January 2013. The reporting requirements specified in the CAP and SCO are included in this quarterly nitrate report.

This is the Quarterly Nitrate Monitoring Report, as required under the SCO, State of Utah Docket No. UGW12-04 for the first quarter of 2022. This report meets the requirements of the SCO, State of UDEQ Docket No. UGW12-04 and is the document which covers nitrate corrective action and monitoring activities during the first quarter of 2022.

2.0 GROUNDWATER NITRATE 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. Nitrate samples and measurements taken during this reporting period are discussed in the remainder of this section.

2.1.1 Nitrate Monitoring

Quarterly sampling for nitrate monitoring parameters was performed in the following wells:

TWN-1	TWN-21
TWN-2	TW4-22*
TWN-3	TW4-24*
TWN-4	TW4-25*
TWN-7	Piezometer 1
TWN-18	Piezometer 2
TWN-20	Piezometer 3A**

As discussed in Section 2.1.2 the analytical constituents required by the CAP are inorganic chloride and nitrate+nitrite as N (referred to as nitrate in this document)

* Wells TW4-22, TW4-24, TW4-25 are chloroform investigation wells (wells installed and sampled primarily for the chloroform investigation) and are sampled as part of the chloroform program. The analytical suite for these three wells includes nitrate, chloride and a select list of Volatile Organic Compounds ("VOCs") as specified in the chloroform program. These three wells are included here because they are being pumped as part of the remediation of the nitrate contamination as required by the SCO and the CAP. The nitrate and chloride data are included in this report as well as in the chloroform program quarterly report. The VOC data for these three wells will be reported in the chloroform quarterly monitoring report only.

** Piezometer 3 was abandoned and replaced with Piezometer 3A in March 2016.

The December 12, 2012 SCO approved the CAP, which specified the cessation of sampling in TWN-5, TWN-6, TWN-8, TWN-9, TWN-10, TWN-11, TWN-12, TWN-13, TWN-14, TWN-15, TWN-16, TWN-17, and TWN-19. The CAP and SCO also approved the abandonment of TWN-5, TWN-8, TWN-9, TWN-10, TWN-11, TWN-12, TWN-13, TWN-15, and TWN-17 within 1 year of the SCO approval. These wells were abandoned in accordance with the DWMRC-approved Well Abandonment Procedure on July 31, 2013. Wells TWN-6, TWN-14, TWN-16, and TWN-19 have been maintained for depth to groundwater monitoring only, as noted in the CAP.

Table 1 provides an overview of all locations sampled during the current period, along with the date samples were collected from each location, and the date(s) upon which analytical data were received from the contract laboratory. Table 1 also identifies rinsate samples collected, as well as sample numbers associated with any required duplicates.

As indicated in Table 1, nitrate monitoring was performed in the nitrate monitoring wells, chloroform wells TW4-22, TW4-24, TW4-25 and Piezometers 1, 2, and 3A. Analytical data for all of the above-listed wells, and the piezometers, are included in Tab G.

Nitrate and chloride are also monitored in all of the Mill's groundwater monitoring wells and chloroform investigation wells. Data from those wells for this quarter are incorporated in certain maps and figures in this report but are discussed in their respective programmatic reports.

2.1.2 Parameters Analyzed

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

- Inorganic Chloride
- Nitrate plus Nitrite as Nitrogen (referred to herein as nitrate)

Use of analytical methods consistent with the requirements found in the White Mesa Mill Groundwater Quality Assurance Plan, ("QAP") Revision 7.6, dated August 22, 2019 was confirmed for all analytes, as discussed later in this report.

2.1.3 Groundwater Head and Level Monitoring

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

- The quarterly groundwater compliance monitoring wells
- Existing 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, MW-22, and MW-34
- The DR piezometers that were installed during the Southwest Hydrogeologic Investigation
- Nitrate wells TWN-1, TWN-2, TWN-3, TWN-4, TWN-6, TWN-7, TWN-14, TWN-16, TWN-18, TWN-19, TWN-20 and TWN-21

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.

All well levels used for groundwater contour mapping were measured and recorded within 5 calendar days of each other as indicated by the measurement dates in the summary sheet under Tab C. Field data sheets for groundwater measurements are also provided in Tab C.

Weekly and monthly depth to groundwater measurements were taken in the chloroform pumping wells MW-4, MW-26, TW4-1, TW4-2, TW4-11, TW4-19, TW4-4, TW4-21, TW4-37, TW4-39, TW4-40, TW4-41, and the nitrate pumping wells TW4-22, TW4-24, TW4-25, and TWN-2.

In addition, monthly water level measurements were taken in non-pumping wells MW-27, MW-30, MW-31, TWN-1, TWN-3, TWN-4, TWN-7, and TWN-18 as required by the CAP.

2.2 — Sampling Methodology and Equipment and Decontamination Procedures

The QAP provides a detailed presentation of procedures utilized for groundwater sampling activities under the GWDP.

The sampling methodology, equipment and decontamination procedures that were performed for the nitrate contaminant investigation, as summarized below, are consistent with the QAP.

2.2.1 Well Purging, Sampling and Depth to Groundwater

A list of the wells in order of increasing nitrate contamination is generated quarterly. The order for purging is thus established. The list is included with the Field Data Worksheets under Tab B. Mill personnel start purging with all the nondetect wells and then move to the wells with detectable nitrate concentrations, progressing from the wells having the lowest nitrate contamination to wells with the highest nitrate contamination.

Before leaving the Mill office, the pump and hose are decontaminated using the cleaning agents described in Attachment 2-2 of the QAP. Rinsate blanks are collected at a frequency of one rinsate per 20 field samples.

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 specified in the QAP 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

2. Purging two casing volumes with stable field parameters (within 10% Relative Percent Difference ["RPD"])

3. Purging a well to dryness and stability (within 10% RPD) of a limited list of field parameters after recovery.

Mill personnel proceed to the first well, which is the well with the lowest concentration (i.e. nondetect) of nitrate based on the previous quarter's sampling results. Well depth measurements are taken and the one casing volume is calculated. The purging strategy that will be used for the well is determined at this time based on the depth to water measurement and the previous production of the well. The Grundfos pump (a 6 to 10 gallon per minute [gpm] pump) is then lowered to the appropriate depth in the well and purging is started. At the first well, the purge rate is measured for the purging event by using a calibrated 5 gallon bucket. After the evacuation of the well has been completed, the well is sampled when possible, and the pump is removed from the well and the process is repeated at each well location moving from the least contaminated to most contaminated well. If sample collection is not possible due to the well being purged dry, a sample is collected after recovery using a disposable bailer and as described in Attachment 2-3 of the QAP. Sample collection follows the procedures described in Attachment 2-4 of the QAP. After the samples have been collected for a particular well, the samples are placed into a cooler that contains ice. The well is then recapped and Mill personnel proceed to the next well. If a bailer has been used it is disposed of.

Decontamination of non-dedicated equipment, using the reagents in Attachment 2-2 of the QAP, is performed between each sample location, and at the beginning of each sampling day, in addition to the pre-event decontamination described above.

2.2.2 Piezometer Sampling

Samples are collected from Piezometers 1, 2 and 3A, if possible. Samples are collected from piezometers using a disposable bailer after one set of field measurements have been collected. Due to the difficulty in obtaining samples from the piezometers, the purging protocols set out in the QAP are not followed.

After samples are collected, the bailer is disposed of and samples are placed into a cooler containing ice for sample preservation and transit to the Mill's contract analytical laboratory, American West Analytical Laboratories ("AWAL"). In early 2022, AWAL merged with Chemtech-Ford ("CTF"). Data contained in this report were generated by both AWAL and CTF.

2.3 Field Data

Attached under Tab B are copies of all Field Data Worksheets that were completed during the quarter for the nitrate investigation monitoring wells and piezometers identified in Section 2.1.1 and Table 1.

2.4 Depth to Groundwater Data and Water Table Contour Map

Depth-to-groundwater measurements that were utilized for groundwater contours are included on the Quarterly Depth to Water Sheet at Tab C of this Report along with the kriged groundwater contour map for the current quarter generated from this data. All well levels used for groundwater contour mapping were measured and recorded within 5 calendar days of each other as indicated by the measurement dates in the summary sheet under Tab C. A copy of the kriged groundwater contour map generated from the previous quarter's data is provided under Tab D.

2.5 Laboratory Results

2.5.1 Copy of Laboratory Results

The analytical results were provided by AWAL. Table 1 lists the dates when analytical results were reported to the Quality Assurance ("QA") Manager for each well or other sample.

Analytical results for the samples collected for this quarter's nitrate investigation and a limited list of chloroform investigation nitrate and chloride results are provided under Tab G of this Report. Also included under Tab G are the results of analyses for duplicate samples and rinsate samples for this sampling effort, as identified in Table 1. See the Groundwater Monitoring Report and Chloroform Monitoring Report for this quarter for nitrate and chloroform analytical results for the groundwater monitoring wells and chloroform investigation wells not listed in Table 1.

2.5.2 Regulatory Framework

As discussed in Section 1.0 above, the Request, Plan, and CA each triggered a series of actions on EFRI's part. Potential surficial sources of nitrate and chloride have been described in the December 30, 2009 CIR and additional investigations into potential sources were completed and discussed with DWMRC in 2011. Pursuant to the CA, the CAP was submitted to the Director of the Division Waste Management and Radiation Control (the "Director") on May 7, 2012. The CAP describes activities associated with the nitrate in groundwater. The CAP was approved by the Director on December 12, 2012. This quarterly report documents the monitoring consistent with the program described in the CAP.

3.0 QUALITY ASSURANCE AND DATA VALIDATION

EFRI's Director, Regulatory Compliance performed a QA/Quality Control ("QC") review to confirm compliance of the monitoring program with the 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 data 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 field data QA/QC, holding times, receipt temperature and laboratory data QA/QC are discussed in Sections 3.4.1 through 3.4.7 below.

The analytical laboratory has provided summary reports of the analytical QA/QC measurements necessary to maintain conformance with National Environmental Laboratory Accreditation Conference 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 G. Results of the review of the laboratory QA/QC information are provided under Tab H and 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 nitrate investigation program consist of one field duplicate sample for each 20 samples, DI Field Blanks ("DIFB"), and equipment rinsate samples.

During the quarter, one duplicate sample was collected as indicated in Table 1. The duplicate was sent blind to the analytical laboratory and analyzed for the same parameters as the nitrate wells.

One rinsate blank sample was collected as indicated on Table 1. Rinsate samples are labeled with the name of the subsequently purged well with a terminal letter "R" added (e.g. TWN-7R).

The field QC sample results are included with the routine analyses under Tab G.

3.2 Adherence to Mill Sampling SOPs

The Director, Regulatory Compliance 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 GWDP for nitrate 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 nitrate monitoring program. Consistent with these requirements, the Director, Regulatory Compliance performed the following evaluations: a field data QA/QC evaluation, a holding time evaluation, an analytical method check, a reporting limit evaluation, a QC evaluation of sample duplicates, a QC evaluation of control limits for analysis and blanks, a receipt temperature evaluation, and a rinsate evaluation. Because no VOCs are analyzed for the nitrate contamination investigation, no trip blanks are required in the sampling program. Each evaluation is discussed in the following sections. Data check tables indicating the results of each test are provided under Tab H.

3.4.1 Field Data QA/QC Evaluation

The Director, Regulatory Compliance performs a review of all field recorded parameters to assess their adherence with QAP requirements. The assessment involved review of two sources of information: the Field Data Sheets and the Quarterly Depth to Water summary sheet. Review of the Field Data Sheets addresses well purging volumes and stability of five parameters: conductance, pH, temperature, redox potential, turbidity, and dissolved oxygen ("DO"). Review of the Depth to Water data confirms that all depth measurements used for development of groundwater contour maps were conducted within a five-day period of each other. The results of this quarter's review are provided under Tab H.

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

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

Wells TWN-01, TWN-04, and TWN-18 were sampled after two casing volumes were removed. Field parameters pH, specific conductivity, turbidity, water temperature, DO, 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 TWN-03, TWN-07, TWN-20, and TWN-21 were purged to dryness before two casing volumes were evacuated. After well recovery, one set of measurements for the field parameters of pH, specific conductivity, and water temperature only were taken; the samples were collected, and another set of measurements for pH, specific conductivity, and water temperature were taken. Stabilization of pH, conductivity and temperature are required within 10% RPD under the QAP. All field parameters for this requirement were stable within 10% RPD.

Continuously Pumped Wells

Wells TWN-02, TW4-22, TW4-24, and TW4-25 are continuously pumped wells. These wells are pumped on a set schedule per the remediation plan and are considered sufficiently evacuated to immediately collect a sample. As previously noted, TW4-22, TW4-24, and TW4-25 are chloroform investigation wells and are sampled under the chloroform program. Data for nitrate and chloride are provided here for completeness purposes.

During review of the field data sheets, it was observed that sampling personnel consistently recorded depth to water to the nearest 0.01 foot.

All field parameters for all wells were within the QAP required limits, as indicated below.

The field data collected during the quarter were in compliance with QAP requirements.

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 H. All samples were received and analyzed within the required holding time.

3.4.3 Analytical Method Checklist

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

3.4.4 Reporting Limit Evaluation

All analytical method reporting limits ("RLs") reported by the laboratory were checked against the reporting limits enumerated in the QAP. Reporting Limit Checks are provided in Tab H. All analytes were measured and reported to the required reporting limits, with the exception of several samples that had increased reporting limits due to matrix interference or required dilution due to the sample concentration. However, in all of those cases the analytical results were greater than the reporting limit used.

3.4.5 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 duplicate pairs for all analytes regardless of whether or not the reported concentrations are greater than 5 times the required detection limits. However, data will be considered noncompliant only when the results are greater than 5 times the required detection limit and the RPD is greater than 20%.

The duplicate results were within a 20% RPD in the accelerated samples. Results of the RPD test are provided in Tab H.

3.4.6 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 Director, Regulatory Compliance 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-specific required limits, or that the case narrative sufficiently explains any deviation from these limits. Results of this quantitative check are provided in Tab H.

The lab QA/QC results met these specified acceptance limits.

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 except as indicated in Tab H. The data recoveries and RPDs which are outside the laboratory established acceptance limits do not affect the quality or usability of the data because the recoveries and RPDs above or below the acceptance limits are indicative of matrix interference most likely caused by other constituents in the samples. 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 information from the Laboratory QA/QC Summary Reports indicates that the Laboratory Control Sample recoveries were acceptable, which indicate that the analytical system was operating properly.

The QAP Section 8.1.2 requires that each analytical batch shall be accompanied by a reagent blank. All analytical batches routinely contain a blank, which is a laboratory-grade water blank sample made and carried through all analytical steps. For the Mill samples, a method blank is prepared for all analytical methods. The information from the Laboratory QA/QC Summary Reports indicates that the method blanks did not contain detections of any target analytes above the Reporting Limit.

3.4.7 Receipt Temperature Evaluation

Chain of Custody sheets were reviewed to confirm compliance with the QAP requirement in QAP Table 1 that samples be received at 6°C or lower. Sample temperatures checks are provided in Tab H. All samples were received within the required temperature limit.

3.4.8 Rinsate Check

Rinsate checks are provided in Tab H. A comparison of the rinsate blank sample concentration levels to the QAP requirements – that rinsate sample concentrations be one order of magnitude lower than that of the actual well – indicated that all of the rinsate blank analytes met this criterion. All rinsate and DIFB blank samples were non-detect for the quarter.

4.0 INTERPRETATION OF DATA

4.1 Interpretation of Groundwater Levels, Gradients and Flow Directions.

4.1.1 Current Site Groundwater Contour Map

As stated above, a listing of groundwater level readings for the current quarter (shown as depth to groundwater in feet) is included under Tab C. The data from this tab has been interpreted (interpolated by kriging) and plotted in a water table contour map, provided under the same tab. The contour map is based on the current quarter's data for all wells.

The water level contour maps indicate that perched water flow ranges from generally southwesterly beneath the Mill site and tailings cells to generally southerly along the eastern and western margins of White Mesa south of the tailings management system. Perched water mounding associated with the wildlife ponds is still evident and locally changes the generally southerly perched water flow patterns. For example, northeast of the Mill site, mounding associated with formerly used wildlife ponds disrupts the generally southwesterly flow pattern, to the extent that locally northwesterly flow occurs near MW-19 and PIEZ-1. The impact of the mounding associated with the northern ponds, to which water has not been delivered since March 2012, is diminishing and is expected to continue to diminish as the mound decays due to reduced recharge. 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 ponds helped limit many constituent concentrations within the plumes by dilution while the associated groundwater mounding increased hydraulic gradients and contributed to plume migration. Since use of the northern ponds was discontinued in March, 2012, increases in constituent concentrations in many wells, and decreases in hydraulic gradients within the plumes, are attributable to reduced recharge and the decay of the associated groundwater mound. EFRI and its consultants anticipated these changes and discussed these and other potential effects during discussions with DWMRC in March 2012 and May 2013.

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

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

Localized increases in concentrations of constituents such as nitrate and chloride within and near the nitrate plume may occur even when the nitrate plume is under control based on the Nitrate CAP requirements. Ongoing mechanisms that can be expected to increase the concentrations of nitrate and chloride 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 zones receiving primarily low constituent concentration pond water will result in wells intercepting the zones 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 (now abandoned); 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 subsequently added

to the chloroform pumping network: TW4-1, TW4-2, TW4-11, TW4-21 and TW4-37 (added during 2015); TW4-39 (added during the fourth quarter of 2016); TW4-41 (added during the second quarter of 2018); and TW4-40 (added during the second quarter of 2019). 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 were 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 third quarter of 2018 was the first quarter that a well-defined cone of depression was associated with TW4-4, primarily the result of pumping at adjacent well TW4-41.

The lack of well-defined capture associated with chloroform pumping well TW4-4 was consistent prior to the third quarter of 2018, 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 resulted from 1) variable permeability conditions in the vicinity of TW4-4, and 2) persistent relatively low water levels at adjacent well TW4-14.

Pumping of nitrate wells TW4-22, TW4-24, TW4-25, and TWN-2 began 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 historically relatively low water level elevation at TWN-7. Although positioned up- to cross-gradient of the nitrate pumping wells, TWN-7 is also typically downgradient of TWN-3 and the northern (upgradient) extremity of the nitrate plume. Since 2012, water levels in TWN-7 have risen while water levels in nearby wells have generally dropped due to pumping and the decay of the northern groundwater mound. These factors have reduced water level differences between TWN-7 and nearby wells.

Capture associated with nitrate pumping is expected to continue to increase over time as water levels decline due to pumping and to cessation of water delivery to the northern wildlife ponds. Interaction between nitrate and chloroform pumping is expected to enhance the capture of the nitrate pumping system. 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 are one likely reason for the prior 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 were 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 in this area that has been 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 level at TW4-6 was reduced to less than 0.5 feet/year suggesting that TW4-6 is within the hydraulic influence of TW4-4.

Water levels in wells currently within the chloroform plume south of TW4-4 (TW4-26, TW4-29, TW4-30 and TW4-40) are generally decreasing to stable. Generally decreasing to stable water levels are evident at TW4-26, TW4-29, and TW4-33 since the fourth quarter of 2013; at TW4-30 only since about the end of 2020; and at TW4-40 since installation in the first quarter of 2018. The water level in TW4-6 (remaining outside the plume again this quarter) has also trended generally downward since the fourth quarter of 2013. These generally downward trends are attributable to both reduced wildlife pond recharge and pumping. Although water levels at some of the wells marginal to the chloroform plume such as TW4-14, TW4-27 and TW4-31 were generally increasing until about the first quarter of 2018, these water levels now appear to be relatively stable to decreasing. Water level trends at TW4-30, which was incorporated into the chloroform plume during the fourth quarter of 2020, have been similar to those at TW4-27.

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 previous lack of a well-defined cone of depression associated with TW4-4 was also 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 had diminished, the water level at TW4-14 was typically lower than the water level at TW4-6 and several feet lower than the water level at TW4-4 even though TW4-4 has been pumping since 2010. However, since the first quarter of 2018, as a result of pumping at TW4-41 (adjacent to TW4-4), and declining water levels at TW4-6, the water level at TW4-14 was typically higher than the water levels at both TW4-4 and TW4-6. During the current quarter the water level at TW4-14 (approximately 5535.5 feet above mean sea level ["ft amsl"]) is more than 6 feet higher than the water level at TW4-6 (approximately 5529.2 ft amsl). However, due to reduced drawdowns at TW4-4 this quarter, the water level at TW4-14 is approximately 4 feet lower than the water level at TW4-4 (approximately 5539.5 ft. amsl).

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. 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 relatively low water level at TW4-14. The water level at TW4-26 (5527.3 feet amsl) is, however, lower than water levels at adjacent wells TW4-6 (5529.2 feet amsl) and TW4-23 (5531.2 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 5528.8 ft. amsl) is more than 6 feet lower than the water level at TW4-14 (5535.5 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. Until pumping started at TW4-41, water levels at both these wells were consistently lower than in surrounding higher permeability materials even though water levels in surrounding materials were generally decreasing due to reduced pond seepage and pumping. Although water levels at TW4-14 and TW4-27 appear to have stabilized, the previous rate of increase was higher at TW4-14 due to factors that include: closer proximity to the northern pond seepage source and a smaller thickness of low permeability materials separating TW4-14 from surrounding higher permeability materials. In addition, hydraulic gradients between TW4-14 and surrounding higher permeability materials were relatively large and were consistently directed toward TW4-14 prior to TW4-41 pumping. Slowing of the rates of water level increase at TW4-14 (since 2015) and TW4-27 (since early 2014), and relative stabilization since about the first quarter of 2018, are attributable to changes in hydraulic gradients between these wells and surrounding higher permeability materials.

In addition, water levels in this area are affected by reduced recharge at the southern wildlife pond and the decay of the associated groundwater mound. The decay of the mound is expected to contribute to changes in hydraulic gradients between the low permeability materials penetrated by TW4-14 and TW4-27 and the surrounding higher permeability materials. Because TW4-27 is closer to the southern wildlife pond than TW4-14, changes in hydraulic gradients attributable to decay of the southern groundwater mound are 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.

4.1.2 Comparison of Current Groundwater Contour Map to Groundwater Contour Map for Previous Quarter

The groundwater contour map for the Mill site for the previous quarter, as submitted with the Nitrate Monitoring Report for the previous quarter, is attached under Tab D. A comparison of the water table contour maps for the current quarter (first quarter of 2022) to the water table contour maps for the previous quarter (fourth quarter of 2021) indicates the following: water level changes at the majority of site wells were small (< 1 foot); only small changes to water level contours have resulted from water level measurements at recently installed temporary chloroform well TW4-43; and water level contours have not changed significantly except in the vicinities of many of the nitrate and chloroform pumping wells. Overall, total capture resulting from pumping is smaller than last quarter's capture.

The drawdowns at nitrate pumping wells TW4-22 and TW4-24 increased by more than 2 feet this quarter. However drawdowns at chloroform pumping wells MW-26, TW4-4, TW4-21, TW4-37 and TW4-39 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 wells TW4-1, TW4-2 and TW4-11 are 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 smaller than last quarter.

As discussed in Section 4.1.1, pumping at chloroform well TW4-4, which began in the first quarter of 2010, depressed the water table near TW4-4, but a well-defined cone of depression was not clearly evident until the third quarter of 2018, likely due to variable permeability conditions near TW4-4 and the historic persistently low water level at adjacent well TW4-14. The expanded cone of depression associated with TW4-4 and adjacent pumping well TW4-41 since the initiation of pumping at TW4-41 in the second quarter of 2018 has contributed to southerly expansion of total pumping system capture. Southerly expansion of capture was additionally enhanced in the second quarter of 2019 quarter by the initiation of pumping at TW4-40.

The water levels at Piezometers 3A and 5 increased by nearly 3 feet and by more than 2 feet this quarter; typically, water levels at these piezometers decrease, consistent with cessation of water delivery to the wildlife ponds as discussed in Section 4.1.1 and the consequent continuing decay

of the associated perched water mounds. However, water levels at Piezometers 1, 2 and 4 decreased by as much as 1 foot; and water levels at wells TWN-1 and TWN-4 also decreased by as much as 0.65 feet.

The reported water level at MW-20 increased by approximately 1.8 feet. Water level variability at this well likely results from low permeability and variable intervals between purging/sampling and water level measurement. The reported water level increase at MW-20 nearly compensates for the reported decrease last quarter.

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. Measurable water was also not reported at DR-12 this quarter.

4.1.3 Hydrographs

Attached under Tab E are hydrographs showing groundwater elevation in each nitrate contaminant investigation monitor well over time. Per the CAP, nitrate wells TWN-6, TWN-14, TWN-16, and TWN-19 have been maintained for depth to groundwater monitoring only. These hydrographs are also included in Tab E.

4.1.4 Depth to Groundwater Measured and Groundwater Elevation

Attached in 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.

4.2 Effectiveness of Hydraulic Containment and Capture

4.2.1 Hydraulic Containment and Control

The CAP states that hydraulic containment and control will be evaluated in part based on water level data and in part on concentrations in wells downgradient of pumping wells TW4-22 and TW4-24.

As per the CAP, the fourth quarter of 2013 was the first quarter that hydraulic capture associated with nitrate pumping wells TW4-22, TW4-24, TW4-25, and TWN-2 was evaluated. Hydraulic containment and control based on water level data is considered successful per the CAP if the entire nitrate plume upgradient of TW4-22 and TW4-24 falls within the combined capture of the nitrate pumping wells. Capture zones based on water level contours calculated by kriging the current quarter's water level data are provided on water level contour maps included under Tab C. The nitrate capture zones are defined by the bounding stream tubes associated with nitrate pumping wells. Each bounding stream tube represents a flow line parallel to the hydraulic gradient and therefore perpendicular to the intersected water level contours. Assuming that the stream tubes do not change over time, all flow between the bounding stream tubes associated with a particular pumping well is presumed to eventually reach and be removed by that well. Capture associated with chloroform pumping wells is also included on these maps because the influence of the chloroform and nitrate pumping systems overlap.

The specific methodology for calculating the nitrate capture zones is substantially the same as that used since the fourth quarter of 2005 to calculate the capture zones for the chloroform program, as agreed to by the DWMRC and EFRI. The procedure for calculating nitrate capture zones is as follows:

- Calculate water level contours by gridding the water level data on approximately 50-foot centers using the ordinary linear kriging method in SurferTM. Default kriging parameters are used that include a linear variogram, an isotropic data search, and all the available water level data for the quarter, including relevant seep and spring elevations.
- 2) Calculate the capture zones by hand from the kriged water level contours following the rules for flow nets:

- From each pumping well, reverse track the stream tubes that bound the capture zone of each well,

- maintain perpendicularity between each stream tube and the kriged water level contours.

Compared to last quarter, both increases and decreases in water levels occurred at nitrate and chloroform pumping wells, although changes in water levels in chloroform pumping wells MW-4, TW4-1, TW4-2, TW4-11, TW4-19, TW4-40 and TW4-41; and nitrate pumping wells TW4-25 and TWN-2 were less than two feet. Water level decreases occurred in chloroform pumping wells TW4-2 (nearly 0.5 feet); and TW4-11 (approximately 0.1 feet); and in nitrate pumping wells TW4-22 (approximately 3.5 feet); TW4-24 (approximately 4.2 feet); TW4-25 (approximately 0.04 feet); and TWN-2 (approximately 0.8 feet). Water level increases occurred in chloroform pumping wells MW-4 (approximately 0.6 feet); MW-26 (approximately 9.7 feet); TW4-11 (approximately 0.4 feet); TW4-4 (approximately 9.1 feet); TW4-19 (nearly 0.9 feet); TW4-21 (approximately 4.3 feet); TW4-37 (nearly 4.3 feet); TW4-39 (approximately 3.8 feet); TW4-40 (approximately 0.01 feet); and TW4-41 (nearly 0.3 feet). The overall apparent combined capture area of the nitrate and chloroform pumping systems is smaller than last quarter.

The capture associated with nitrate pumping wells and the eight chloroform pumping wells added since the first quarter of 2015 is expected to generally increase over time as water levels continue to decline due to pumping and to cessation of water delivery to the northern wildlife ponds. Slow development of hydraulic capture is consistent with and expected based on the relatively low permeability of the perched zone at the site. Furthermore, although the perched groundwater mound has diminished, and water levels at TWN-7 have risen, the definition of capture associated with the nitrate pumping system continues to be influenced by the remaining perched groundwater mound and the historically relatively low water level at TWN-7.

That pumping is likely sufficient to eventually capture the entire plume upgradient of TW4-22 and TW4-24 can be demonstrated by comparing the combined average pumping rates of all nitrate pumping wells for the current quarter to estimates of pre-pumping flow through the nitrate plume near the locations of TW4-22 and TW4-24. The pre-pumping flow calculation presented from the fourth quarter of 2013 through the second quarter of 2015 was assumed to represent a steady state 'background' condition that included constant recharge, hydraulic gradients, and saturated thicknesses; the calculation did not account for reduced recharge and saturated thickness caused by cessation of water delivery to the northern wildlife ponds since March, 2012. Because significant water level declines have occurred in upgradient portions of the nitrate

plume due to reduced recharge, hydraulic gradients within the plume have been reduced independent of pumping. Changes related to reduced wildlife pond recharge have also resulted in reduced well productivity. Generally reduced productivities of nitrate pumping well TW4-24 and chloroform pumping well TW4-19 since the third quarter of 2014 are at least partly the result of reduced recharge.

The pre-pumping flow through the nitrate plume near TW4-22 and TW4-24 that was presented from the fourth quarter of 2013 through the second quarter of 2015 was estimated using Darcy's Law to lie within a range of approximately 1.31 gpm to 2.79 gpm. Calculations were based on an average hydraulic conductivity range of 0.15 feet per day (ft. /day) to 0.32 ft. /day (depending on the calculation method), a pre-pumping hydraulic gradient of 0.025 feet per foot (ft. /ft.), a plume width of 1,200 feet, and a saturated thickness (at TW4-22 and TW4-24) of 56 feet. The hydraulic conductivity range was estimated by averaging the results obtained from slug test data that were collected automatically by data loggers from wells within the plume and analyzed using the KGS unconfined slug test solution available in AqtesolveTM (see Hydro Geo Chem, Inc. [HGC], August 3, 2005: Perched Monitoring Well Installation and Testing at the White Mesa Uranium Mill, April Through June 2005; HGC, March 10, 2009: Perched Nitrate Monitoring Well Installation and Hydraulic Testing, White Mesa Uranium Mill; and HGC, March 17 2009: Letter Report to David Frydenlund, Esq, regarding installation and testing of TW4-23, TW4-24, and TW4-25). These results are summarized in Table 6. Data from fourth quarter 2012 were used to estimate the pre-pumping hydraulic gradient and saturated thickness. These data are summarized in Tables 7 and 8.

The average hydraulic conductivity was estimated to lie within a range of 0.15 ft. /day to 0.32 ft. /day. Averages were calculated four ways. As shown in Table 6 arithmetic and geometric averages for wells MW-30, MW-31, TW4-22, TW4-24, TW4-25, TWN-2, and TWN-3 were calculated as 0.22 and 0.15 ft. /day, respectively. Arithmetic and geometric averages for a subset of these wells (MW-30, MW-31, TW4-22, and TW4-24) were calculated as 0.32 and 0.31 ft./day, respectively. The lowest value, 0.15 ft. /day, represented the geometric average of the hydraulic conductivity estimates for all the plume wells. The highest value, 0.32 ft. /day, represented the arithmetic average for the four plume wells having the highest hydraulic conductivity estimates (MW-30, MW-31, TW4-22, and TW4-24).

Pre-pumping hydraulic gradients were estimated at two locations; between TW4-25 and MW-31 (estimated as 0.023 ft. /ft.), and between TWN-2 and MW-30 (estimated as 0.027 ft. /ft.). These results were averaged to yield the value used in the calculation (0.025 ft. /ft.). The pre-pumping saturated thickness of 56 feet was an average of pre-pumping saturated thicknesses at TW4-22 and TW4-24.

As discussed above the hydraulic gradient and saturated thickness used in the pre-pumping calculations were assumed to represent a steady state 'background' condition that was inconsistent with the cessation of water delivery to the northern wildlife ponds, located upgradient of the nitrate plume. Hydraulic gradients and saturated thicknesses within the plume have declined since nitrate pumping began as a result of two factors: reduced recharge from the ponds, and the effects of pumping. A more representative 'background' flow condition that accounts for reduced wildlife pond recharge was presented in Attachment N (Tab N) of the third quarter 2015 Nitrate Monitoring report. The original pre-pumping 'background' flow range of

1.31 gpm to 2.79 gpm has been recalculated to range from 0.79 gpm to 1.67 gpm, as presented in Table 9. This calculation is still considered conservative because the high end of the range assumed an arithmetic average hydraulic conductivity of a subset of plume wells having the highest conductivities. In addition, since the 'background' flow was recalculated, saturated thicknesses and hydraulic gradients within the plume have decreased, further reducing the rate of flow through the plume.

The cumulative volume of water removed by nitrate pumping wells TW4-22, TW4-24, TW4-25, and TWN-2 during the current quarter was approximately 204,789 gallons. This equates to an average total extraction rate of approximately 1.6 gpm over the 90 day quarter. This average accounts for time periods when pumps were off due to insufficient water columns in the wells. The current quarter's pumping of 1.6 gpm, which is smaller than last quarter's, is at the high end of the recalculated 'background' flow range of 0.79 gpm to 1.67 gpm.

Although TW4-22, TW4-24, TW4-25, and TWN-2 are designated nitrate pumping wells, some chloroform pumping wells are also located within the nitrate plume because the northwest portion of the chloroform plume commingles with the central portion of the nitrate plume. Chloroform pumping well TW4-19 is periodically within the nitrate plume; chloroform pumping well TW4-21, since pumping began in 2015, is typically within the nitrate plume; and TW4-37 is consistently within the nitrate plume. TW4-21 was outside the plume during the second quarter of 2017; the third quarter of 2018; the first quarter of 2019; the fourth quarter of 2019; the first quarter of 2020; and the current quarter. Neither TW4-19 nor TW4-21 are within the plume this quarter; however, because these wells are located near the plume margins, nitrate plume, due to collapse, TW4-20 was abandoned during October, 2020.

Because chloroform pumping well TW4-37 was unambiguously within the nitrate plume this quarter it is appropriate to include it in estimating total pumping from the nitrate plume. Including TW4-37, the volume of water removed by TW4-22, TW4-24, TW4-25, TW4-37, and TWN-2 this quarter is approximately 247,713 gallons or approximately 1.9 gpm, which exceeds the high end of the recalculated 'background' flow range by approximately 0.23 gpm, or a factor of approximately 1.1.

Because the arithmetic average hydraulic conductivity of a subset of plume wells having the highest conductivities was used to calculate the high end of the 'background' flow range, the high end is considered less representative of actual conditions than using the geometric average conductivity of all of the plume wells. Therefore, nitrate pumping likely exceeds the actual flow through the plume by more than a factor of 1.1 as calculated above. Nitrate pumping is therefore considered adequate at the present time even with reduced productivity at TW4-24.

The CAP states that MW-5, MW-11, MW-30, and MW-31 are located downgradient of TW4-22 and TW4-24. MW-30 and MW-31 are within the plume near its downgradient edge and MW-5 and MW-11 are outside and downgradient of the plume. Per the CAP, hydraulic control based on concentration data will be considered successful if the nitrate concentrations in MW-30 and MW-31 remain stable or decline, and the nitrate concentrations in downgradient wells MW-5 and MW-11 do not exceed the 10 mg/L standard.

Table 5 presents the nitrate concentration data for MW-30, MW-31, MW-5 and MW-11, which are down-gradient of pumping wells TW4-22 and TW4-24. Based on these concentration data, the nitrate plume is under control.

The nitrate plume has not migrated downgradient to MW-5 or MW-11; nitrate at MW-11 was detected at a concentration of approximately 2.6 mg/L; and was detected last quarter at MW-5 at approximately 0.3 mg/L. Between the previous and current quarters, nitrate concentrations at MW-30 and MW-31 remained about the same. Nitrate in MW-30 increased slightly from approximately 14.3 mg/L to 14.5 mg/L; and nitrate in MW-31 decreased slightly from 18.1 mg/L to 18 mg/L. Although short-term fluctuations have occurred, nitrate concentrations in MW-30 and MW-31 have been relatively stable, demonstrating that plume migration to the south is minimal or absent. However, recent increases in nitrate at downgradient well MW-11 suggest that downgradient migration is still occurring but at a low rate.

MW-30 and MW-31 are located at the toe of the nitrate plume which has associated elevated chloride. Chloride is increasing at MW-31, as well as at MW-30, but at a lower rate (see Tab J and Tab K, discussed in Section 4.2.4). These increases are consistent with continuing downgradient migration of the elevated chloride associated with the nitrate plume. The increases in chloride and relatively stable nitrate at both wells suggest a natural attenuation process that is affecting nitrate but not chloride. A likely process that would degrade nitrate but leave chloride unaffected is reduction of nitrate by pyrite. The likelihood of this process in the perched zone is discussed in HGC, December 7 2012; Investigation of Pyrite in the Perched Zone, White Mesa Uranium Mill Site, Blanding, Utah. A more detailed discussion is presented in HGC, December 11, 2017; Nitrate Corrective Action Comprehensive Monitoring Evaluation (CACME) Report, White Mesa Uranium Mill Near Blanding, Utah.

4.2.2 Current Nitrate and Chloride Isoconcentration Maps

Included under Tab I of this Report are current nitrate and chloride iso-concentration maps for the Mill site. Nitrate iso-contours start at 5 mg/L and chloride iso-contours start at 100 mg/L because those values appear to separate the plumes from background. Except for data from wells not sampled this quarter, all nitrate and chloride data used to develop these iso-concentration maps are from the current quarter's sampling events. For wells not sampled this quarter, data from the fourth quarter were used.

4.2.3 Comparison of Areal Extent

Although the plume expanded in some areas and contracted in others, the plume area is larger than last quarter. Specifically the northwestern portion of the plume boundary has expanded to again encompass TWN-7 (due to the increase in concentration at TWN-7); and the western boundary of the plume has expanded toward MW-27 and MW-28 (both outside the plume) due to the increases in concentration at both wells. Conversely, decreases in concentration at TW4-19 and TW4-21 caused the plume boundary to shrink away from TW4-19 and TW4-21. As noted above, TWN-7, which was incorporated within the plume for the first time during the second quarter of 2018, was temporarily outside the plume last quarter, but is again within the plume this quarter. TWN-7 has historically been located down- to cross-gradient of the northeastern (upgradient) extremity of the plume, but migration of the plume toward TWN-7 has been slow

presumably due to the low permeability at TWN-7. Recently installed well TWN-20 bounds the plume to the west of TWN-7.

TW4-18 remained outside the plume with a concentration of approximately 3.4 mg/L. TW4-18 was encompassed by an eastward-extending 'spur' in the plume during the third quarter of 2015, similar to an occurrence during the third quarter of 2013. Changes in nitrate concentrations near TW4-18 are expected to result from changes in pumping and from the cessation of water delivery to the northern wildlife ponds. The reduction in low-nitrate recharge from the wildlife ponds appeared to be having the anticipated effect of generally increased nitrate concentrations in some wells downgradient of the ponds.

However, decreasing to relatively stable nitrate concentrations at most wells in the vicinity of TW4-18 between the first quarter of 2014 and the second quarter of 2015 after previous increases suggested that conditions in this area had stabilized. Since the second quarter of 2015, concentrations at TW4-18 exceeded 10 mg/L only once (third quarter of 2015). Over this same time period, concentrations at nearby wells TW4-3 and TW4-9 remained below 10 mg/L; concentrations at TW4-5 exceeded 10 mg/L only once (first quarter of 2016); and, until the first quarter of 2019, concentrations at TW4-10 remained above 10 mg/L. Since the first quarter of 2019, concentrations at TW4-10 have remained below 10 mg/L.

Although increases in concentration in the area downgradient of the wildlife ponds have been anticipated as the result of reduced dilution, the magnitude and timing of the increases are difficult to predict due to the measured variations in hydraulic conductivity at the site and other factors. Nitrate in the area directly downgradient (south to south-southwest) of the northern wildlife ponds is associated with the chloroform plume, is cross-gradient of the nitrate plume as defined in the CAP, and is within the capture zone of the chloroform pumping system. Perched water flow in the area is to the southwest in the same approximate direction as the main body of the nitrate plume.

Nitrate concentrations at the downgradient edge of the plume (MW-30 and MW-31) have been relatively stable, demonstrating that nitrate plume migration to the south is minimal or absent; however, recent increases in nitrate at downgradient well MW-11 suggest that downgradient migration is still occurring but at a low rate. As discussed in Section 4.2.1, relatively stable nitrate at MW-30 and MW-31 is consistent with a natural attenuation process affecting nitrate but not chloride, as elevated chloride associated with the nitrate plume continues to migrate downgradient.

With regard to chloroform, changes in the boundary of the chloroform plume are attributable in part to the initiation of nitrate pumping. Once nitrate pumping started, the boundary of the chloroform plume migrated to the west toward nitrate pumping well TW4-24, and then to the southwest to reincorporate chloroform monitoring wells TW4-6 and TW4-16. Concentration increases leading to the reincorporation of these wells occurred first at TW4-24, then at TW4-16 and TW4-6. Reduced recharge at the southern wildlife pond and decay of the associated groundwater mound are also expected to influence chloroform concentrations in the vicinity of TW4-6.

Subsequent contraction of the chloroform plume eastward away from TW4-24 and TW4-16 through the first quarter of 2016 is attributable in part to the start-up of additional chloroform pumping wells during the first half of 2015, and reduced productivity at TW4-24. TW4-16 and TW4-24 are just within the chloroform plume this quarter. In addition, due to contraction of the

plume away from TW4-6, TW4-6 has been outside the plume since the third quarter of 2018. More details regarding the chloroform data and interpretation are included in the Quarterly Chloroform Monitoring Report submitted under separate cover.

4.2.4 Nitrate and Chloride Concentration Trend Data and Graphs

Attached under Tab J is a table summarizing values for nitrate and chloride for each well over time.

Attached under Tab K are graphs showing nitrate and chloride concentration plots in each monitor well over time.

4.2.5 Interpretation of Analytical Data

Comparing the nitrate analytical results to those of the previous quarter, as summarized in the tables included under Tab J, the following observations can be made for wells within and immediately surrounding the nitrate plume:

- a) Nitrate concentrations have increased by more than 20% in the following wells compared to last quarter: MW-11, MW-27, MW-28, TW4-25, TW4-39, TWN-1, TWN-2, TWN-3, TWN-7 and TWN-20;
- b) Nitrate concentrations have decreased by more than 20% in the following wells compared to last quarter: MW-26, TW4-19, TW4-21 and TW4-22;
- c) Nitrate concentrations have remained within 20% in the following wells compared to last quarter: MW-30, MW-31, TW4-16, TW4-18, TW4-24, TW4-37, TWN-4 and TWN-18;
- d) MW-25 and MW-32 remained non-detect; and
- e) TWN-7 is again within the plume this quarter.

As indicated, nitrate concentrations for many of the wells with detected nitrate were within 20% of the values reported during the previous quarter, suggesting that variations are within the range typical for sampling and analytical error. The remaining wells had changes in concentration greater than 20%. The latter includes chloroform pumping wells MW-26, TW4-19, TW4-21 and TW4-39; nitrate pumping wells TW4-22, TW4-25 and TWN-2; and non-pumping wells MW-11, MW-27, MW-28, TWN-1, TWN-3, TWN-7 and TWN-20. MW-11 is located immediately downgradient (south) of the plume; TWN-7 is located within the northwestern extremity of the plume; MW-27 and MW-28 are located downgradient (west) of the plume; TWN-1 and TWN-20 are located outside the plume near the plume margins; and TWN-3 is located within the northern margin of the plume. MW-27 and TWN-3 are also located near nitrate pumping well TWN-2.

Fluctuations in concentrations at pumping wells and wells adjacent to pumping wells likely result in part from the effects of pumping as discussed in Section 4.1.1. Fluctuations in concentration can also be expected at MW-27 and TWN-1 because of their locations near but outside of the plume; as well as at MW-28 which is located just outside and generally

downgradient of the plume. In addition, concentrations at TWN-1 and TWN-20 are less than or equal to 3 mg/L.

MW-27, located west of TWN-2; TWN-20, located west of TWN-7; and TWN-18, located north of TWN-3; bound the nitrate plume to the west and north (See Figure I-1 under Tab I). In addition, MW-28 and MW-29 (< 1 mg/L last quarter) bound the plume to the west; and the southernmost (downgradient) boundary of the plume remains between MW-30/MW-31 and MW-5/MW-11. Nitrate concentrations at MW-5 (adjacent to MW-11) and MW-11 have historically been low (< 1 mg/L) or non-detect for nitrate; however nitrate at MW-11 was detected at 2.6 mg/L this quarter (See Table 5). The nitrate concentrations at MW-5 (non-detect) and MW-11 are consistent with the relative stability of the downgradient margin of the nitrate plume; although recent increases at MW-11 suggest continuing, but slow, downgradient migration of the plume. MW-25, MW-26, MW-32, TW4-16, TW4-18, TW4-19, TW4-21, TW4-25, TW4-39, TWN-1 and TWN-4 bound the nitrate plume to the east.

Nitrate concentrations outside the nitrate plume are typically greater than 10 mg/L at a few locations: TW4-26 (10.9 mg/L); TW4-27 (21.3 mg/L); and TW4-28 (10.2 mg/L in the third quarter of 2019; 7.8 mg/L this quarter). In the past concentrations at TW4-10, TW4-12 and TW4-38 typically exceeded 10 mg/L. However, TW4-10 dropped below 10 mg/L during the first quarter of 2019; TW4-12 dropped below 10 mg/L in the second quarter of 2019 and TW4-38 dropped below 10 mg/L during the first quarter of 2018. Concentrations at TW4-18 have also occasionally exceeded 10 mg/L. Each of these wells is located southeast of the nitrate plume as defined in the CAP and is separated from the plume by a well or wells where nitrate concentrations are either non-detect, or, if detected, are less than 10 mg/L. Except for TW4-12 and TW4-26, the nitrate concentrations at all of the above wells are within 20% of last quarter's concentrations.

Since 2010, nitrate concentrations at TW4-10 and TW4-18 have been above and below 10 mg/L Concentrations were below 10 mg/L between the first quarter of 2011 and second quarter of 2013, and mostly close to or above 10 mg/L between the second quarter of 2013 and third quarter of 2015. However, concentrations at TW4-18 have been below 10 mg/L since the third quarter of 2015 and (as discussed above) the concentration at TW4-10 dropped below 10 mg/L during the first quarter of 2019. Concentrations at nearby well TW4-5 have exceeded 10 mg/L only twice since 2010, and concentrations at nearby wells TW4-3 and TW4-9 have remained below 10 mg/L. Nitrate at TW4-5, TW4-10, and TW4-18 is associated with the chloroform plume, and is within the capture zone of the chloroform pumping system. Elevated nitrate at TW4-12, TW4-26, TW4-27, TW4-28 and TW4-38 is likely related to former cattle ranching operations at the site. Elevated nitrate at relatively recently installed well MW-38 and at MW-20 (far cross-gradient and far downgradient, respectively, of the tailings management system at the site) is also likely related to former cattle ranching operations.

Chloride concentrations are measured because elevated chloride (greater than 100 mg/L) is associated with the nitrate plume. Chloride concentrations at all sampled locations this quarter are within 20% of their respective concentrations during the previous quarter except at chloroform pumping wells MW-26, TW4-19 and TW4-21; nitrate pumping wells TW4-22 and TW4-25; and non-pumping wells MW-39, MW-40, TW4-6 and TW4-12. Concentrations at the above pumping and non-pumping wells (except MW-26) decreased. Non-pumping well TW4-6

is located near chloroform pumping wells TW4-4 and TW4-41; TW4-12 is located far crossgradient (east) of the millsite and tailings management system ("TMS"); and MW-39 and MW-40 are far cross-gradient of the millsite and TMS. Concentration fluctuations at pumping wells and at wells near pumping wells likely result in part from the effects of pumping as discussed in Section 4.1.1.

TWN-7 (located upgradient [north] of the tailings management system) was positioned historically cross- to downgradient of the upgradient (northeastern) extremities of the commingled nitrate and chloride plumes. Recent increases in both nitrate and chloride at TWN-7, which remains incorporated into the chloride plume and is re-incorporated into the nitrate plume this quarter, likely result from northwesterly migration of the elevated nitrate and chloride contained within the upgradient extremities of these commingled plumes. The change in chloride at TWN-7 since last quarter is less than 20%.

Piezometer PIEZ-3A was installed in the second quarter of 2016 as a replacement to piezometer PIEZ-3. The chloride concentration at piezometer PIEZ-3A (91.7 mg/L) is nearly 3 times higher this quarter than the pre-abandonment first quarter 2016 concentration at PIEZ-3 (approximately 33 mg/L). The nitrate concentration at PIEZ-3A (approximately 12.1 mg/L) is also higher this quarter than the pre-abandonment first quarter 2016 PIEZ-3 concentration (approximately 2.2 mg/L).

4.3 Estimation of Pumped Nitrate Mass and Residual Nitrate Mass within the Plume

Nitrate mass removed by pumping as summarized in Table 2 includes mass removed by both chloroform and nitrate pumping wells. Table 3 shows the volume of water pumped at each well and Table 4 provides the details of the nitrate removal for each well.

Mass removal calculations begin with the third quarter of 2010 because the second quarter, 2010 data were specified to be used to establish a baseline mass for the nitrate plume. As stated in the CAP, the baseline mass is to be calculated using the second quarter, 2010 concentration and saturated thickness data "within the area of the kriged 10 mg/L plume boundary." The second quarter, 2010 data set was considered appropriate because "the second quarter, 2010 concentration peak at TWN-2 likely identifies a high concentration zone that still exists but has migrated away from the immediate vicinity of TWN-2."

As shown in Table 2, since the third quarter of 2010, a total of approximately 3,852 lb. of nitrate has been removed directly from the perched zone by pumping. Prior to the first quarter of 2013, all direct nitrate mass removal resulted from operation of chloroform pumping wells MW-4, MW-26, TW4-4, TW4-19, and TW4-20. During the current quarter:

- A total of approximately 55 lb. of nitrate was removed by the chloroform pumping wells and by nitrate pumping wells TW4-22, TW4-24, TW4-25, and TWN-2.
- Of the 55 lb. removed during the current quarter, approximately 42 lb. (or 76 %) was removed by the nitrate pumping wells.

The calculated nitrate mass removed directly by pumping is smaller than last quarter's approximately 97 lbs.

As discussed in Section 4.3.1, achievable pumping rates are expected to diminish over time as saturated thicknesses are reduced by pumping and by cessation of water delivery to the northern wildlife ponds. Attachment N (Tab N) of the third quarter 2015 Nitrate Monitoring report provides an evaluation of reduced productivity at chloroform pumping well TW4-19 and nitrate pumping well TW4-24.

Baseline mass and current quarter mass estimates (nitrate + nitrite as N) for the nitrate plume are approximately 43,700 lb. and 27,146 lbs., respectively. Mass estimates were calculated within the plume boundaries as defined by the kriged 10 mg/L isocon by 1) gridding (kriging) the nitrate concentration data on 50-foot centers; 2) calculating the volume of water in each grid cell based on the saturated thickness and assuming a porosity of 0.18; 3) calculating the mass of nitrate+nitrite as N in each cell based on the concentration and volume of water for each cell; and 4) totaling the mass of all grid cells within the 10 mg/L plume boundary. Data used in these calculations included data from wells listed in Table 3 of the CAP.

The nitrate mass estimate for the current quarter (27,146 lb.) is smaller than the mass estimate for the previous quarter (28,290 lb.) by 1,144 lb. Since pumping began, calculated nitrate mass within the plume has generally decreased at a rate that is on average higher than would be expected based on direct mass removal by pumping. Changes in the quarterly mass estimates are expected to result from several factors, primarily 1) nitrate mass removed directly by pumping, 2) natural attenuation of nitrate, and 3) re-distribution of nitrate within the plume and changes in saturated thicknesses.

Nitrate mass removed by pumping and natural attenuation (expected to result primarily from pyrite oxidation/nitrate reduction) act to lower both nitrate mass and concentrations within the plume. Both mechanisms are expected to continuously reduce both nitrate mass and concentrations within the plume. Reductions in saturated thickness that are not accompanied by increases in concentration will also reduce nitrate mass within the plume.

However, redistribution of nitrate within the plume is expected to result in both increases and decreases in concentrations at wells within the plume and therefore increases and decreases in mass estimates based on those concentrations, thus generating 'noise' in the mass estimates. In addition, because the sum of sampling and analytical error is typically about 20%, changes in the mass estimates from quarter to quarter of up to 20% could result from typical sampling and analytical error alone.

Furthermore, redistribution of nitrate within the plume and changes in saturated thicknesses will be impacted by changes in pumping and in background conditions such as the decay of the perched water mound associated with the northern wildlife ponds. Cessation of water delivery to the northern wildlife ponds is expected to result in reduced saturated thicknesses and reduced dilution, which in turn is expected to result in increased nitrate concentrations in many wells.

Because of quarter to quarter variations in factors that impact the mass estimates, only longerterm analyses of the mass estimates that minimize the impacts of 'noise' can provide useful information on plume mass trends. Over the long term, nitrate mass estimates are expected to trend downward as a result of direct removal by pumping and through natural attenuation. The decrease in the mass estimate this quarter is attributable primarily to a reduction in average concentrations within the plume, which outweighed an increase in the area of the plume caused in large part by: concentration increases at MW-27 and MW-28 (located outside the plume margin); and by a concentration increase which caused re-incorporation of TWN-7 into the plume.

As specified in the CAP, once eight quarters of data were collected (starting with the first quarter of 2013), a regression trend line was to be applied to the quarterly mass estimates and evaluated. The trend line was to be updated quarterly and reevaluated as additional quarters of data were collected. The evaluation was to determine whether the mass estimates were increasing, decreasing, or stable.

As the fourth quarter of 2014 constituted the eighth quarter as specified in the CAP, the mass estimates were plotted, and a regression line was fitted to the data and evaluated. The regression line has been updated each quarter since the fourth quarter of 2014 as shown in Figure M.1 of Tab M. The fitted line shows a decreasing trend in the mass estimates.

5.0 LONG TERM PUMP TEST AT TWN-02, TW4-22, TW4-24, and TW4-25 OPERATIONS REPORT

5.1 Introduction

Beginning in January 2013, EFRI began long term pumping of TW4-22, TW4-24, TW4-25, and TWN-02 as required by the Nitrate CAP, dated May 7, 2012 and the SCO dated December 12, 2012.

In addition, 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. In anticipation of the final approval of the GCAP, 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. In addition, EFRI is pumping TW4-39, TW4-40 and TW4-41. 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. TW4-20 collapsed in August of 2020 and was abandoned in October 2020.

Because wells MW-4, TW4-19, MW-26, TW4-4, TW4-01, TW4-02, TW4-11, TW4-21, TW4-37, TW4-39, TW4-40 and TW4-41 are pumping wells that may impact the removal of nitrate, they are included in this report and any nitrate removal realized as part of this pumping is calculated and included in the quarterly reports.

The following information documents the operational activities during the quarter.

5.2 Pumping Well Data Collection

Data collected during the quarter included the following:

- Measurement of water levels at MW-4, TW4-19, MW-26, and, commencing regularly on March 1, 2010, TW4-4, on a weekly basis,
- Measurement of water levels weekly at TW4-22, TW4-24, TW4-25, and TWN-02 commencing January 28, 2013,
- Measurement of water levels weekly at TW4-01, TW4-02, and TW4-11 commencing on January 14, 2015,
- Measurement of water levels weekly at TW4-21 and TW4-37 commencing on June 9, 2015, and on a monthly basis selected temporary wells and permanent monitoring well,
- Measurement of water levels weekly at TW4-39 commencing on December 7, 2016,
- Measurement of water levels weekly at TW4-41 commencing on April 3, 2018,
- Measurement of water levels weekly at TW4-40 commencing on May 13, 2019.
- 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, water level measurements from chloroform pumping wells MW-4, MW-26, and TW4-19 were conducted weekly. From commencement of pumping and regularly after March 1, 2010 water levels in these chloroform pumping wells have been measured weekly. From commencement of pumping in January 2013, water levels in wells TW4-22, TW4-24, TW4-25, and TWN-02 have been measured weekly. From the commencement of pumping in December 2016, water levels in TW4-39 have been measured; from the commencement of pumping in April 2018 water levels in TW4-41 have been measured and from the commencement of pumping in May 2019 water levels in TW4-40 have been measured weekly. Copies of the weekly Depth to Water monitoring sheets for MW-4, MW-26, TW4-19, TW4-4, TW4-22, TW4-25, TWN-02, TW4-01, TW4-02, TW4-11, TW4-21, TW4-37, TW4-39, TW4-40, and TW4-41 are included under Tab C.

Monthly depth to water monitoring is required for all of the chloroform contaminant investigation wells and non-pumping wells MW-27, MW-30, MW-31, TWN-1, TWN-3, TWN-4, TWN-7, and TWN-18. Copies of the monthly depth to Water monitoring sheets are included under Tab C.

5.4 **Pumping Rates and Volumes**

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 either transferred to the Cell 1 evaporation pond or is used in the Mill process.

The pumped wells are fitted with a flow meter which records the volume of water pumped from the well in gallons. The flow meter readings shown in Tab C are used to calculate the gallons of water pumped from the wells each quarter as required by Section 7.2.2 of the CAP. The average pumping rates and quarterly volumes for each of the pumping wells are shown in Table 3. The cumulative volume of water pumped from each of the wells is shown in Table 4.

Specific operational problems observed with the well or pumping equipment which occurred during the quarter are noted for each well below.

5.4.1 TW4-19

During the routine check on February 1, 2022, the flow meter in TW4-19 malfunctioned. All ancillary systems were checked and it was determined that the flow meter was malfunctioning and could not be repaired. The flow meter was removed and replaced within 24 hours of discovery and as such no notifications were necessary.

6.0 CORRECTIVE ACTION REPORT

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

6.1 Assessment of Previous Quarter's Corrective Actions

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

7.0 CONCLUSIONS AND RECOMMENDATIONS

As per the CAP, the current quarter is the thirty second quarter that hydraulic capture associated with nitrate pumping wells TW4-22, TW4-24, TW4-25, and TWN-2 was evaluated. While the apparent combined capture of the nitrate and chloroform pumping systems has expanded slightly in some areas and contracted in others, the overall capture area this quarter is smaller than last quarter's.

Capture associated with nitrate pumping wells is expected to increase over time as water levels decline due to pumping and due to cessation of water delivery to the northern wildlife ponds. Nitrate capture is enhanced by the interaction of the nitrate pumping system with the chloroform pumping system. Chloroform pumping wells located within or adjacent to the nitrate plume not only increase overall capture, but account for much of the nitrate mass removed each quarter. The long term interaction between nitrate and chloroform pumping systems is evolving as revealed by data collected as part of routine monitoring. Slow development of hydraulic capture by the nitrate pumping system was expected and is consistent with the relatively low permeability of the perched zone at the site.

The capture associated with the nitrate pumping system has been impacted by the perched groundwater mound and historically relatively low water levels at TWN-7. Although the perched groundwater mound has diminished, and water levels at TWN-7 have risen, definition of capture associated with the nitrate pumping system continues to be influenced by the remaining perched groundwater mound and the relatively low water level at TWN-7.

Nitrate pumping is likely sufficient to eventually capture the entire nitrate plume upgradient of TW4-22 and TW4-24 even with reduced productivity at TW4-24 since the third quarter of 2014. Hydraulic gradients and saturated thicknesses within the plume have declined since nitrate pumping began as a result of two factors: reduced recharge from the ponds, and nitrate pumping. A more representative 'background' flow condition that accounts for reduced wildlife pond recharge was presented in Attachment N (Tab N) of the third quarter, 2015 Nitrate Monitoring report. The original pre-pumping 'background' flow range of 1.31 gpm to 2.79 gpm was recalculated to range from 0.79 gpm to 1.67 gpm. This calculation is still considered conservative because the high end of the calculated range assumed an arithmetic average hydraulic conductivity of a subset of plume wells having the highest conductivities. In addition, since the 'background' flow was recalculated, saturated thicknesses and hydraulic gradients within the plume have decreased, further reducing the rate of flow through the plume.

The current nitrate pumping of approximately 1.6 gpm, based on water removed by TW4-22, TW4-24, TW4-25, and TWN-2, is at the high end of the recalculated 'background' flow range of 0.79 gpm to 1.67 gpm.

If water removed from the nitrate plume by chloroform pumping well TW4-37 is included, the current nitrate pumping of approximately 1.9 gpm exceeds the high end of the recalculated 'background' range by approximately 0.23 gpm, or a factor of approximately 1.1. Including TW4-37 is appropriate because this well has been within the nitrate plume consistently since initiation of pumping in 2015. Pumping fromTW4-19 and TW4-21 is not included because both wells are outside the plume this quarter; however, because these wells are located near the plume margins, nitrate plume remediation benefits from pumping these wells.

In addition, because the arithmetic average hydraulic conductivity of a subset of plume wells having the highest conductivities was used in recalculating the high end of the 'background' flow range, the high end is considered less representative of actual conditions than using the geometric average conductivity of all of the plume wells. Therefore, nitrate pumping likely exceeds flow through the plume by a factor greater than 1.1 times the high end of the recalculated range. Nitrate pumping is considered adequate at the present time even with reduced productivity at TW4-24. Furthermore, as the groundwater mound associated with former water delivery to the northern wildlife ponds continues to decay, hydraulic gradients and saturated thicknesses will continue to decrease, and 'background' flow will be proportionally reduced, thereby reducing the amount of pumping needed.

This quarter nitrate concentrations at many of the wells within and adjacent to the nitrate plume were within 20% of the values reported during the previous quarter, suggesting that variations are within the range typical for sampling and analytical error. Changes in concentration (both increases and decreases) greater than 20% occurred in chloroform pumping wells MW-26, TW4-19, TW4-21 and TW4-39; nitrate pumping wells TW4-22, TW4-25 and TWN-2; and non-pumping wells MW-11, MW-27, MW-28, TWN-1, TWN-3, TWN-7 and TWN-20. MW-11 is located immediately downgradient (south) of the plume; TWN-7 is located within the northwestern extremity of the plume; MW-27 and MW-28 are located downgradient (west) of the plume; TWN-1 and TWN-20 are located outside the plume near the plume margins; and

TWN-3 is located within the northern margin of the plume. MW-27 and TWN-3 are also located near nitrate pumping well TWN-2.

Fluctuations in concentrations at pumping wells and wells adjacent to pumping wells likely result in part from the effects of pumping as discussed in Section 4.1.1. Fluctuations in concentration can also be expected at MW-27 and TWN-1 because of their locations near but outside of the plume; as well as at MW-28 which is located just outside and generally downgradient of the plume. In addition, concentrations at TWN-1 and TWN-20 are less than or equal to 3 mg/L.

Concentrations at MW-25 and MW-32 remained non-detect. As discussed in Section 4.2.3, although the plume expanded in some areas and contracted in others, the plume area is larger than last quarter. Specifically the northwestern portion of the plume boundary has expanded to again encompass TWN-7 (due to the increase in concentration at TWN-7); and the western boundary of the plume has expanded toward MW-27 and MW-28 (located outside the plume) due to the increases in concentration at both wells. Conversely, decreases in concentration at TW4-19 and TW4-21 caused the plume boundary to shrink away from TW4-19 and TW4-21. As noted above, TWN-7, which was incorporated within the plume for the first time during the second quarter of 2018, was temporarily outside the plume last quarter, but is again within the plume this quarter.

MW-27, located west of TWN-2; TWN-20, located west of TWN-7; and TWN-18, located north of TWN-3; bound the nitrate plume to the west and north. During the second quarter of 2021, TWN-20 was installed west of TWN-7 because TWN-7 no longer bounded the plume to the west (see Figure I-1 under Tab I). In addition, the southernmost (downgradient) boundary of the plume remains between MW-30/MW-31 and MW-5/MW-11.

Although short-term fluctuations have occurred, nitrate concentrations in MW-30 and MW-31 have been relatively stable, demonstrating that plume migration is minimal or absent. Nitrate concentrations remained about the same at both MW-30 and MW-31. Nitrate in MW-30 increased slightly from approximately 14.3 mg/L to 14.5 mg/L; and nitrate in MW-31 decreased slightly from 18.1mg/L to 18 mg/L. Based on the concentration data at MW-5, MW-11, MW-30, and MW-31, the nitrate plume is under control.

Nitrate concentrations at MW-5 (adjacent to MW-11) and MW-11 have historically been low (< 1 mg/L) or non-detect for nitrate, although the nitrate concentration at MW-11 this quarter is approximately 2.6 mg/L (See Table 5). The nitrate concentrations at MW-11 are consistent with the relative stability of the downgradient margin of the nitrate plume; although recent increases at MW-11 suggest continuing, but slow, downgradient migration of the plume. MW-25, MW-26, MW-32, TW4-16, TW4-18, TW4-19, TW4-21, TW4-25, TW4-39, TWN-1 and TWN-4 bound the nitrate plume to the east.

Chloride is increasing at MW-31 and at MW-30, but at a lower rate. These increases are consistent with continuing downgradient migration of the elevated chloride associated with the nitrate plume. The increasing chloride and relatively stable nitrate at both wells suggests a

natural attenuation process that is affecting nitrate but not chloride. A likely process that would degrade nitrate but leave chloride unaffected is reduction of nitrate by pyrite. The likelihood of this process in the perched zone is discussed in HGC, December 7 2012; Investigation of Pyrite in the Perched Zone, White Mesa Uranium Mill Site, Blanding, Utah. A more detailed discussion is presented in HGC, December 11, 2017; Nitrate Corrective Action Comprehensive Monitoring Evaluation (CACME) Report, White Mesa Uranium Mill Near Blanding, Utah.

Nitrate mass within the plume boundary has been calculated on a quarterly basis beginning with the first quarter of 2013. Calculated mass within the plume is expected to be impacted by factors that include pumping, natural attenuation, redistribution of nitrate within the plume, and changes in saturated thickness.

Nitrate mass removal by pumping and natural attenuation (expected to result primarily from pyrite oxidation/nitrate reduction) act to lower nitrate mass within the plume. Reductions in saturated thickness that are not accompanied by increases in concentration will also reduce nitrate mass within the plume.

Changes resulting from redistribution of nitrate within the plume are expected to result in both increases and decreases in concentrations at wells within the plume and therefore increases and decreases in mass estimates based on those concentrations, thus generating 'noise' in the mass estimates. Furthermore, because the sum of sampling and analytical error is typically about 20%, changes in the mass estimates from quarter to quarter of up to 20% could result from typical sampling and analytical error alone. Longer-term analyses of the mass estimates that minimize the impact of these quarter to quarter variations are expected to provide useful information on plume mass trends. Over the long term, nitrate mass estimates are expected to trend downward as a result of direct removal by pumping and through natural attenuation.

As specified in the CAP, once eight quarters of data were collected (starting with the first quarter of 2013), a regression trend line was to be applied to the quarterly mass estimates and evaluated. The trend line was to be updated quarterly and reevaluated as additional quarters of data were collected. As the fourth quarter of 2014 constituted the eighth quarter as specified in the CAP, the mass estimates were plotted, and a regression line was fitted to the data and evaluated. The regression line was updated this quarter as shown in Figure M.1 of Tab M. The fitted line shows a decreasing trend in the mass estimates.

During the current quarter, a total of approximately 55 lb. of nitrate was removed by the chloroform pumping wells and by nitrate pumping wells TW4-22, TW4-24, TW4-25, and TWN-2. Of the 55 lb. removed during the current quarter, approximately 42 lb. (or 76 %) was removed by the nitrate pumping wells.

The baseline nitrate (nitrate+nitrite as N) plume mass calculated as specified in the CAP (based on second quarter, 2010 data) was approximately 43,700 lb. The mass estimate for the current quarter (27,146 lb.) is smaller than the mass estimate for the previous quarter (28,290 lb) by 1,144 lb. or approximately 4 %. The current quarter's estimate is smaller than the baseline estimate by approximately 16,554 lb. The quarterly difference is attributable primarily to a reduction in average concentrations within the plume, which outweighed an increase in the area of the plume caused in large part by: concentration increases at MW-27 and MW-28 (located

outside the plume margin); and by a concentration increase which caused re-incorporation of TWN-7 into the plume.

Nitrate concentrations outside the nitrate plume are typically greater than 10 mg/L at a few locations: TW4-26 (10.9 mg/L); TW4-27 (21.3 mg/L); and TW4-28 (10.2 mg/L in the third quarter of 2019; 7.8 mg/L this quarter). In the past concentrations at TW4-10, TW4-12 and TW4-38 typically exceeded 10 mg/L. However, TW4-10 dropped below 10 mg/L during the first quarter of 2019; TW4-12 dropped below 10 mg/L in the second quarter of 2019; and TW4-38 dropped below 10 mg/L during the first quarter of 2018. Each of these wells is located southeast of the nitrate plume as defined in the CAP and is separated from the plume by a well or wells where nitrate concentrations are either non-detect, or, if detected, are less than 10 mg/L. Except for TW4-12 and TW4-26, nitrate concentrations at all of the above wells are within 20% of last quarter's concentrations.

Since 2010, nitrate concentrations at TW4-10 and TW4-18 have been above and below 10 mg/L. Concentrations were below 10 mg/L between the first quarter of 2011 and second quarter of 2013, and mostly close to or above 10 mg/L between the second quarter of 2013 and third quarter of 2015. However, concentrations at TW4-18 have been below 10 mg/L since the third quarter of 2015 and (as discussed above) the concentration at TW4-10 dropped below 10 mg/L during the first quarter of 2019. Concentrations at nearby well TW4-5 have exceeded 10 mg/L only twice since 2010, and concentrations at nearby wells TW4-3 and TW4-9 have remained below 10 mg/L. Nitrate at TW4-5, TW4-10, and TW4-18 is associated with the chloroform plume, and is within the capture zone of the chloroform pumping system. Elevated nitrate at TW4-12, TW4-26, TW4-27, TW4-28, and TW4-38 is likely related to former cattle ranching operations at the site. Elevated nitrate at relatively recently installed well MW-38 and at MW-20 (far cross-gradient and far downgradient, respectively, of the tailings management system at the site) is also likely related to former cattle ranching operations.

Increases in both nitrate and chloride concentrations at wells near the northern wildlife ponds (for example TW4-18) were anticipated as a result of reduced dilution caused by cessation of water delivery to the northern wildlife ponds. However, decreasing nitrate concentrations at TW4-10 and TW4-18 from the first through third quarters of 2014 after previously increasing trends (interrupted in the first quarter of 2014) suggested that conditions in this area had stabilized. The temporary increase in nitrate concentration at TW4-18 in the third quarter of 2015 and the generally increased nitrate at TW4-5 and TW4-10 during the three quarters following the second quarter of 2015 suggested the continuing impact of reduced wildlife pond recharge on downgradient wells. However, since the first quarter of 2016, concentrations at TW4-5, TW4-10 and TW4-18 have been stable to decreasing.

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 northern wildlife 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 was expected to increase many constituent concentrations within the plumes while reducing hydraulic gradients and rates of

plume migration. Reduced recharge and decay of the groundwater mound associated with the southern wildlife pond is also expected to have an impact on water levels and concentrations at wells within and marginal to the downgradient (southern) extremity of the chloroform plume.

The net impact of reduced wildlife pond recharge is expected to be beneficial even though temporarily higher concentrations were also expected until continued mass reduction via pumping and natural attenuation ultimately reduces concentrations. Temporary increases in nitrate concentrations are judged less important than reduced nitrate migration rates. The actual impacts of reduced recharge on concentrations and migration rates will be defined by continued monitoring.

Nitrate mass removal from the perched zone was increased substantially by the start-up of nitrate pumping wells TW4-22, TW4-24, TW4-25, and TWN-2 during the first quarter of 2013. Continued operation of these wells is therefore recommended. Pumping these wells, regardless of any short term fluctuations in concentrations detected at the wells, helps to reduce downgradient nitrate migration by removing nitrate mass and reducing average hydraulic gradients, thereby allowing natural attenuation to be more effective. Continued operation of the nitrate pumping system is expected to eventually reduce nitrate concentrations within the plume and to further reduce or halt downgradient nitrate migration.

8.0 ELECTRONIC DATA FILES AND FORMAT

EFRI has provided to the Director an electronic copy of all laboratory results for groundwater quality monitoring conducted under the nitrate contaminant investigation during the quarter, in Comma Separated Values ("CSV") format. A copy of the transmittal e-mail is included under Tab L.

9.0 SIGNATURE AND CERTIFICATION

This document was prepared by Energy Fuels Resources (USA) Inc.

Energy Fuels Resources (USA) Inc.

By:

< 200

Scott A. Bakken Vice President, Regulatory Affairs

5322

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.

5/3/22 33-

Scott Bakken Vice President, Regulatory Affairs Energy Fuels Resources (USA) Inc.

Tables

 Table 1

 Summary of Well Sampling and Constituents for the Period

Well	Sample Collection Date	Date of Lab Report
Piezometer 01	2/16/2022	3/9/22 3/10/22
Piezometer 02	2/16/2022	3/9/22 3/10/22
Piezometer 03A	2/16/2022	3/9/22 3/10/22
TWN-01	2/15/2022	3/9/22 3/10/22
TWN-02	2/15/2022	3/9/22 3/10/22
TWN-03	2/16/2022	3/9/22 3/10/22
TWN-04	2/15/2022	3/9/22 3/10/22
TWN-07	2/16/2022	3/9/22 3/10/22
TWN-18	2/15/2022	3/9/22 3/10/22
TWN-18R	2/15/2022	3/9/22 3/10/22
TWN-20	2/16/2022	3/9/22 3/10/22
TWN-21	2/16/2022	3/9/22 3/10/22
TW4-22	3/9/2022	4/8/2022
TW4-24	3/9/2022	4/8/2022
TW4-25	3/9/2022	4/8/2022
TWN-60	2/15/2022	3/9/22 3/10/22
TW4-60	3/9/2022	3/9/22 3/10/22
TWN-65	2/15/2022	3/9/22 3/10/22

Note: All wells were sampled for Nitrate and Chloride.

Multiple dates shown for a single laboratory depict resubmission dates for the data. Resubmissions were required to correct reporting errors.

Dates in *Italics* are the original laboratory submission dates.

TWN-60 is a DI Field Blank.

TWN-65 is a duplicate of TWN-18

TW4-60 is the chloroform program DI Field Blank.

Continuously pumped well.

Table 2Nitrate Mass Removal Per Well Per Quarter

6.11.414	MW-4	MW-26	TW4-19	TW4-20	TW4-4	TW4-22	TW4-24	ass Remo	TWN-02	TW4-01	TW4-02	TW4-11	TW4-21	TW4-37	TW4-39	TW4-40	TW4-41	Qtr.
Quarter	(lbs.)	(lbs.)	(lbs.)	(lbs.)	(lbs.)	(lbs.)	(lbs.)	(lbs.)	(lbs.)	(lbs.)	(lbs.)	(lbs.)	(lbs.)	(lbs.)	(lbs.)	(lbs.)	(lbs.)	Totals (lbs.)
Q3 2010	3.20	0.3	5.8	1.7	4.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	15.69
Q4 2010	3.76	0.4	17.3	1.4	5.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	27.97
Q1 2011	2.93	0.2	64.5	1.4	4.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	73.30
Q2 2011	3.51	0.1	15.9	2.7	4.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	27.01
Q3 2011	3.49	0.5	3.5	3.9	5.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	16.82
Q4 2011	3.82	0.8	6.2	2.5	6.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	19.71
Q1 2012	3.62	0.4	0.7	5.0	6.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	15.86
Q2 2012	3.72	0.6	3.4	2.1	5.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	15.03
Q3 2012	3.82	0.5	3.6	2.0	4.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	14.67
Q4 2012	3.16	0.4	5.4	1.8	4.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	14.92
Q1 2013	2.51	0.4	14.1	1.4	3.6	8.1	43.4	7.5	14.8	NA	NA	NA	NA	NA	NA	NA	NA	95.73
Q2 2013	2.51	0.4	5.6	1.6	3.4	10.7	37.1	6.4	23.9	NA	NA	NA	NA	NA	NA	NA	NA	91.71
Q3 2013	2.97	0.4	48.4	1.4	3.8	6.3	72.8	6.9	33.4	NA	NA	NA	NA	NA	NA	NA	NA	176.53
Q4 2013	3.08	0.3	15.8	1.6	3.9	9.4	75.2	6.4	46.3	NA	NA	NA	NA	NA	NA	NA	NA	162.07
Q1 2014	2.74	0.4	4.1	1.2	3.6	11.2	60.4	2.3	17.2	NA	NA	NA	NA	NA	NA	NA	NA	103.14
Q2 2014	2.45	0.3	3.3	0.9	3.0	9.5	63.4	1.3	17.8	NA	NA	NA	NA	NA	NA	NA	NA	101.87
Q3 2014	2.31	0.1	4.1	0.6	3.1	8.5	56.2	1.6	16.4	NA	NA	NA	NA	NA	NA	NA	NA	92.99
Q4 2014	2.67	0.2	7.8	1.0	3.8	11.0	53.2	0.9	28.0	NA	NA	NA	NA	NA	NA	NA	NA	108.57
Q1 2015	3.67	0.5	4.3	1.3	2.4	12.7	26.7	8.6	19.2	1.45	1.07	0.72	NA	NA	NA	NA	NA	82.61
Q2 2015	1.28	0.2	0.6	0.9	3.6	9.1	16.6	0.9	21.4	1.22	0.79	0.37	3.4	8.6	NA	NA	NA	68.86
Q3 2015	3.58	0.3	11.3	1.4	3.5	13.3	14.0	1.7	20.2	1.24	0.68	0.29	15.4	31.9	NA	NA	NA	118.63
Q4 2015	3.68	0.2	10.0	0.8	3.1	11.1	26.6	1.7	17.5	0.3	0.9	0.3	16.1	32.3	NA	NA	NA	124.50
Q1 2016	3.91	0.23	15.28	1.23	3.21	6.36	24.30	0.81	34.33	0.02	0.93	0.22	15.29	26.45	NA	NA	NA	132.55
Q2 2016	3.66	0.21	1.31	1.48	3.36	12.92	13.17	1.01	19.24	0.02	1.15	0.25	14.46	27.76	NA	NA	NA	99.98
Q3 2016	3.30	0.22	9.08	1.15	3.02	11.33	14.86	1.56	12.47	0.72	0.59	0.22	15.20	27.42	NA	NA	NA	101.12
Q4 2016	3.48	0.18	8.76	1.23	1.79	12.14	26.49	1.02	12.14	0.10	1.00	0.23	14.68	22.20	0.62	NA	NA	106.06
Q1 2017	3.19	0.17	10.23	1.36	1.35	14.02	34.16	0.02	10.35	0.63	0.79	0.20	8.02	26.16	5.54	NA	NA	116.19
Q2 2017	2.94	0.20	0.22	1.02	1.37	13.99	17.58	0.83	8.88	0.87	0.77	0.19	4.85	24.26	2.15	NA	NA	80.12
Q3 2017	3.65	0.36	1.05	1.31	1.29	13.56	18.55	1.27	9.31	0.73	0.82	0.18	18.24	20.81	2.23	NA	NA	93.37
Q4 2017	4.67	0.23	0.34	1.06	1.32	15.89	28.04	1.26	10.37	0.68	0.47	0.17	17.84	22.35	1.51	NA	NA	106.21
Q1 2018	3.92	0.35	7.89	1.13	1.18	12.47	36.31	2.18	7.09	0.51	0.40	0.17	15.54	21.22	1.65	NA	NA	111.99
Q2 2018	3.94	0.20	0.46	1.16	0.96	14.07	14.89	1.12	7.22	0.40	0.47	0.16	13.73	19.96	1.38	NA	4.02	84.14
Q3 2018	3.63	0.60	2.25	0.85	0.78	9.82	14.99	0.75	6.48	0.35	0.60	0.13	0.22	16.42	1.69	NA	2.30	61.86
Q4 2018	3.81	0.39	0.21	1.04	0.77	15.27	32.56	0.61	6.30	0.38	0.45	0.14	15.43	17.38	1.97	NA	1.78	98.49
Q1 2019	4.71	0.41	6.38	0.82	1.01	15.69	32.04	0.48	7.10	0.40	0.53	0.15	9.25	19.49	0.85	NA	1.79	101.08
Q2 2019	4.07	0.57	7.53	1.08	1.24	16.15	14.74	0.60	16.35	0.11	0.51	0.15	15.61	16.91	2.42	2.4	1.26	101.72
Q3 2019	3.74	0.62	0.28	1.17	0.77	14.95	16.54	0.40	8.01	0.13	0.56	0.12	13.26	14.55	0.54	3.3	1.25	80.19
Q4 2019	3.59	0.18	0.44	0.68	0.78	12.02	28.83	0.60	5.17 4.44	0.30	0.40	0.12	5.55	14.20	0.41	2.6	1.08 0.88	76.97
Q1 2020	5.33	0.24	8.16	0.78	0.55	11.91	26.73	0.43		0.38		0.11	7.95	15.48	0.29	2.5		86.86
Q2 2020	4.28	0.62	1.30 14.96	6.08 0.00	0.93	12.77 12.46	20.05	0.64	4.04	0.04	0.43	0.13	14.26 10.46	15.39 13.95	1.56 0.80	2.4	0.98	85.95 81.69
Q3 2020 Q4 2020	3.48	0.08	14.96	0.00	0.85	12.46	31.15	1.18	2.57	0.18	0.39	0.11			2.75	1.7	0.75	81.69
Q1 2020	3.52	0.87	7.36	0.00	0.85	12.38	28.63	2.30	3.00	0.33	0.28	0.08	14.56 12.33	14.69 13.45	0.69	1.7	0.95	89.13
Q1 2021	5.00	0.08	1.30	0.00	0.77	1 15.15	28.03	2.30	1 3.00	0.21	0.50	0.15	12.55	13.43	0.09	1.3	0.72	00.22

Table 2Nitrate Mass Removal Per Well Per Quarter

Quarter	MW-4 (lbs.)	MW-26 (lbs.)	TW4-19 (lbs.)	TW4-20 (lbs.)	TW4-4 (lbs.)	TW4-22 (lbs.)	TW4-24 (lbs.)	TW4-25 (lbs.)	TWN-02 (lbs.)	TW4-01 (lbs.)	TW4-02 (lbs.)	TW4-11 (lbs.)	TW4-21 (lbs.)	TW4-37 (lbs.)	TW4-39 (lbs.)	TW4-40 (lbs.)	TW4-41 (lbs.)	Qtr. Totals (lbs.)
Q2 2021	5.04	0.20	5.10	0.00	1.01	17.06	21.78	1.08	2.62	0.05	0.39	0.12	17.43	13.00	3.29	2.1	0.82	91.09
Q3 2021	2.87	0.16	8.79	0.00	0.40	6.52	11.88	0.55	2.57	0.10	0.21	0.08	10.05	10.76	0.71	0.7	0.43	56.81
Q4 2021	3.89	0.13	11.41	0.00	0.70	13.01	35.12	0.73	1.85	0.32	0.36	0.09	14.72	12.18	0.83	1.2	0.70	97.29
Q1 2022	3.86	0.07	1.59	0.00	0.57	7.44	22.22	1.40	2.07	0.27	0.31	0.09	1.67	10.67	0.86	1.1	0.63	54.84
Well Totals (pounds)	164.5	15.7	387.4	63.4	122.3	438.3	1128.6	69.8	483.0	12.4	17.3	5.4	335.4	529.9	34.7	23.7	20.3	3852.11

Pumping Well	Volume of Water Pumped	
Name	During the Quarter (gals)	Average Pump Rate (gpm)
MW-4	96291.3	4.0
MW-26	29113.3	15.9
TW4-19	112209.2	15.3
TW4-4	10434.1	16.0
TWN-2	16188.7	16.0
TW4-22	22083.6	16.2
TW4-24	73545.0	16.1
TW4-25	92972.1	10.8
TW4-01	8251.8	13.2
TW4-02	11380.6	16.0
TW4-11	1497.2	15.4
TW4-21	91105.4	16.2
TW4-37	42923.5	18.0
TW4-39	35550.2	18.0
TW4-40	53009.2	18.0
TW4-41	12247.8	6.0

Table 3 Well Pumping Rates and Volumes

 Table 4

 Table 4 Quarterly Calculation of Nitrate Removed and Total Volume of Water Pumped

	Sec.	Contraction of the		MW-4			F 19 F 24				MW-26			
Quarter	Total Pumped (gal)	Conc (mg/L)	Conc (ug/L)	Total Pumped (liters)	Total (ug)	Total (grams)	Total (pounds)	Total Pumped (gal)	Conc (mg/L)	Conc (ug/L)	Total Pumped (liters)	Total (ug)	Total (grams)	Total (pounds)
Q3 2010	79859.1	4.80	4800	302266.7	1450880129	1450.9	3.20	63850.0	0.60	600	241672.3	145003350	145	0.32
Q4 2010	90042.2	5.00	5000	340809.7	1704048635	1704.0	3.76	60180.0	0.70	700	227781.3	159446910	159	0.35
Q1 2011	76247.6	4.60	4600	288597.2	1327546964	1327.5	2.93	55130.0	0.50	500	208667.1	104333525	104	0.23
Q2 2011	85849.3	4.90	4900	324939.6	1592204042	1592.2	3.51	55800.6	0.30	300	211205.3	6.34E+07	63	0.14
Q3 2011	85327.7	4.90	4900	322965.3	1582530188	1582.5	3.49	65618.0	0.90	900	248364.1	223527717	224	0.49
Q4 2011	89735.0	5.10	5100	339647.0	1732199573	1732.2	3.82	50191.3	2.00	2000	189974.1	379948141	380	0.84
Q1 2012	90376.4	4.80	4800	342074.7	1641958435	1642.0	3.62	31440.1	1.70	1700	119000.8	202301323.5	202	0.45
Q2 2012	90916.5	4.90	4900	344118.8	1686181940	1686.2	3.72	26701.2	2.50	2500	101064.1	252660294.3	253	0.56
Q3 2012	91607.0	5.00	5000	346732.5	1733662475	1733.7	3.82	25246.0	2.60	2600	95556.1	248445886	248	0.55
Q4 2012	78840.0	4.80	4800	298409.4	1432365120	1432.4	3.16	30797.0	1.46	1460	116566.6	170187301.7	170	0.38
Q1 2013	62943.7	4.78	4780	238241.9	1138796304	1138.8	2.51	22650.7	2.27	2270	85732.9	194613681.9	195	0.43
Q2 2013	71187.3	4.22	4220	269443.9	1137053387	1137.1	2.51	25343.4	2.11	2110	95924.8	202401262.6	202	0.45
Q3 2013	72898.8	4.89	4890	275922.0	1349258375	1349.3	2.97	25763.0	1.98	1980	97513.0	193075650.9	193	0.43
Q4 2013	70340.4	5.25	5250	266238.4	1397751674	1397.8	3.08	24207.6	1.38	1380	91625.8	126443557.1	126	0.28
Q1 2014	69833.8	4.70	4700	264320.9	1242308385	1242.3	2.74	23263.1	2.12	2120	88050.8	186667767	187	0.41
Q2 2014	71934.9	4.08	4080	272273.6	1110876274	1110.9	2.45	23757.5	1.42	1420	89922.1	127689435.3	128	0.28
Q3 2014	74788.2	3.70	3700	283073.3	1047371347	1047.4	2.31	24062.4	0.70	700	91076.2	63753328.8	64	0.14
Q4 2014	63093.0	5.07	5070	238807.0	1210751515	1210.8	2.67	21875.8	0.93	934	82799.9	77335109.4	77	0.17
Q1 2015	76454.3	5.75	5750	289379.5	1663932272	1663.9	3.67	24004.9	2.68	2680	90858.5	243500904.6	244	0.54
Q2 2015	60714.7	2.53	2530	229805.1	581407002.9	581.4	1.28	27804.6	0.85	845	105240.4	88928147.3	89	0.20
Q3 2015	89520.8	4.79	4790	338836.2	1623025532	1623.0	3.58	21042.0	1.75	1750	79644.0	139376947.5	139	0.31
Q4 2015	99633.4	4.43	4430	377112.4	1670608016	1670.6	3.68	19355.6	1.11	1110	73260.9	81319650.1	81	0.18
Q1 2016	90882.1	5.15	5150	343988.7	1771542055	1771.5	3.91	19150.8	1.45	1450	72485.8	105104378.1	105	0.23
Q2 2016	96540.5	4.54	4540	365405.8	1658942298	1658.9	3.66	22105.7	1.12	1120	83670.1	93710483.4	94	0.21
Q3 2016	79786.4	4.95	4950	301991.5	1494858044	1494.9	3.30	17149.5	1.57	1570	64910.9	101910046.3	102	0.22
Q4 2016	85414.0	4.88	4880	323292.0	1577664911	1577.7	3.48	18541.6	1.18	1180	70180.0	82812348.1	83	0.18
Q1 2017	76642.3	4.99	4990	290091.1	1447554616	1447.6	3.19	26107.0	0.768	768	98815.0	75889916.2	76	0.17
Q2 2017	72299.8	4.88	4880	273654.7	1335435146	1335.4	2.94	25921.8	0.922	922	98114.0	90461120.0	90	0.20
Q3 2017	95349.3	4.59	4590	360897.1	1656517691	1656.5	3.65	27489.9	1.56	1560	104049.3	162316863.5	162	0.36
Q4 2017	106679.8	5.25	5250	403783.0	2119860976	2119.9	4.67	26445.8	1.04	1040	100097.4	104101247.1	104	0.23
Q1 2018	105060.4	4.47	4470	397653.6	1777511655	1777.5	3.92	27004.7	1.57	1570	102212.8	160474079.5	160	0.35
Q2 2018	101786.2	4.64	4640	385260.8	1787609959	1787.6	3.94	26654.7	0.90	901	100888.0	90900123.6	91	0.20
Q3 2018	95480.5	4.55	4550	361393.8	1644341817.5	1644.3	3.63	25536.1	2.80	2800	96654.1	270631587.8	271	0.60
Q4 2018	102844.8	4.44	4440	389267.5	1728347833.9	1728.3	3.81	23791.3	1.96	1960	90050.1	176498138.2	176	0.39
Q1 2019	111746.9	5.05	5050	422961.9	2135957801.0	2136.0	4.71	26798.5	1.85	1850	101432.3	187649796.6	188	0.41
Q2 2019	94540.7	5.16	5160	357836.5	1846436595.4	1846.4	4.07	24050.2	2.83	2830	91030.0	257614919.8	258	0.57
Q3 2019	95517.8	4.69	4690	361534.9	1695598554.4	1695.6	3.74	24181.1	3.08	3080	91525.5	281898427.6	282	0.62
Q4 2019	99220.8	4.34	4340	375550.9	1629890816.6	1629.9	3.59	22384.8	0.977	977	84726.5	82777759.2	83	0.18
Q1 2020	102597.0	6.22	6220	388329.6	2415410391.9	2415.4	5.33	24107.0	1.17	1170	91245.0	106756644.2	107	0.24

 Table 4

 Table 4 Quarterly Calculation of Nitrate Removed and Total Volume of Water Pumped

	12 Martin		Mar Start	MW-4					1000		MW-26		10.000	E Prome
Quarter	Total Pumped (gal)	Conc (mg/L)	Conc (ug/L)	Total Pumped (liters)	Total (ug)	Total (grams)	Total (pounds)	Total Pumped (gal)	Conc (mg/L)	Conc (ug/L)	Total Pumped (liters)	Total (ug)	Total (grams)	Total (pounds)
Q2 2020	101850.7	5.04	5040	385504.9	1942944502.7	1942.9	4.28	25418.4	2.93	2930	96208.6	281891326.9	282	0.62
Q3 2020	84607.8	4.93	4930	320240.6	1578786151.6	1578.8	3.48	23663.7	0.416	416	89567.1	37259915.5	37	0.08
Q4 2020	91258.6	4.62	4620	345413.8	1595811760.6	1595.8	3.52	28934.5	3.620	3620	109517.1	396451838.7	396	0.87
Q1 2021	93486.7	4.61	4610	353847.3	1631235928.8	1631.2	3.60	27898.0	0.349	349	105593.9	36852281.6	37	0.08
Q2 2021	93252.4	6.48	6480	352960.3	2287182964.3	2287.2	5.04	29124.1	0.810	810	110234.7	89290122.0	89	0.20
Q3 2021	89693.5	3.83	3830	339489.8	1300246017.5	1300.2	2.87	27945.6	0.671	671	105774.1	70974418.4	71	0.16
Q4 2021	95091.4	4.90	4900	359920.8	1763611908.2	1763.6	3.89	30045.3	0.518	518	113721.5	58907716.5	59	0.13
Q1 2022	96291.3	4.80	4800	364462.6	1749420338.4	1749.4	3.86	29113.3	0.300	300	110193.8	33058152.2	33	0.07

Q3 2010 4100065.77

164.5 1377648.22

 Table 4

 Table 4 Quarterly Calculation of Nitrate Removed and Total Volume of Water Pumped

		22		TW4-19	C 10 1 1 2		1000				TW4-20		18	1000
Quarter	Total Pumped (gal)	Conc (mg/L)	Conc (ug/L)	Total Pumped (liters)	Total (ug)	Total (grams)	Total (pounds)	Total Pumped (gal)	Conc (mg/L)	Conc (ug/L)	Total Pumped (liters)	Total (ug)	Total (grams)	Total (pounds)
Q3 2010	116899.2	5.90	5900	442463.5	2610534485	2611	5.76	39098.3	5.30	5300	147987.1	784331447.2	784	1.73
Q4 2010	767970.5	2.70	2700	2906768.3	7848274525	7848	17.30	36752.5	4.60	4600	139108.2	639897777.5	640	1.41
Q1 2011	454607.9	17.00	17000	1720690.9	29251745326	29252	64.49	37187.5	4.40	4400	140754.7	619320625	619	1.37
Q2 2011	159238.9	12.00	12000	602719.2	7232630838	7233	15.95	67907.7	4.80	4800	257030.6	1233747094	1234	2.72
Q3 2011	141542.6	3.00	3000	535738.7	1607216223	1607	3.54	72311.2	6.50	6500	273697.9	1779036298	1779	3.92
Q4 2011	147647.2	5.00	5000	558844.7	2794223260	2794	6.16	72089.3	4.20	4200	272858.0	1146003602	1146	2.53
Q1 2012	148747.0	0.60	600	563007.4	337804437	338	0.74	76306.0	7.90	7900	288818.2	2281663859	2282	5.03
Q2 2012	172082.0	2.40	2400	651330.5	1563193161	1563	3.45	22956.4	11.00	11000	86890.1	955790963.1	956	2.11
Q3 2012	171345.0	2.50	2500	648540.8	1621352063	1621	3.57	22025.0	10.80	10800	83364.6	900337950	900	1.98
Q4 2012	156653.0	4.10	4100	592931.6	2431019581	2431	5.36	20114.0	11.00	11000	76131.5	837446390	837	1.85
Q1 2013	210908.0	7.99	7990	798286.8	6378311372	6378	14.06	18177.0	9.07	9070	68799.9	624015501.2	624	1.38
Q2 2013	226224.0	2.95	2950	856257.8	2525960628	2526	5.57	20252.4	9.76	9760	76655.3	748156059.8	748	1.65
Q3 2013	329460.1	17.60	17600	1247006.5	21947314022	21947	48.39	19731.0	8.65	8650	74681.8	645997872.8	646	1.42
Q4 2013	403974.0	4.70	4700	1529041.6	7186495473	7186	15.84	19280.2	9.64	9640	72975.6	703484369.5	703	1.55
Q1 2014	304851.0	1.62	1620	1153861.0	1869254877	1869	4.12	18781.6	7.56	7560	71088.4	537427971.4	537	1.18
Q2 2014	297660.0	1.34	1340	1126643.1	1509701754	1510	3.33	18462.4	5.95	5950	69880.2	415787094.8	416	0.92
Q3 2014	309742.0	1.60	1600	1172373.5	1875797552	1876	4.14	17237.9	4.30	4300	65245.5	280555441.5	281	0.62
Q4 2014	198331.0	4.72	4720	750682.8	3543222981	3543	7.81	16341.8	7.67	7670	61853.7	474417978.7	474	1.05
Q1 2015	60553.0	8.56	8560	229193.1	1961892979	1962	4.33	15744.7	9.80	9800	59593.7	584018157.1	584	1.29
Q2 2015	75102.8	0.92	916	284264.1	260385913.8	260	0.57	18754.1	5.76	5760	70984.3	408869386.6	409	0.90
Q3 2015	116503.9	11.60	11600	440967.3	5115220233	5115	11.28	17657.3	9.27	9270	66832.9	619540802.2	620	1.37
Q4 2015	112767.7	10.6	10600	426825.7	4524352892	4524	9.97	15547.4	6.23	6230	58846.9	366616243.1	367	0.81
Q1 2016	116597.0	15.7	15700	441319.6	6928718427	6929	15.28	14353.5	10.30	10300	54328.0	559578374.3	560	1.23
Q2 2016	123768.0	1.27	1270	468461.9	594946587.6	595	1.31	15818.3	11.20	11200	59872.3	670569373.6	671	1.48
Q3 2016	103609.0	10.5	10500	392160.1	4117680683	4118	9.08	12186.6	11.30	11300	46126.3	521226975.3	521	1.15
Q4 2016	104919.4	10.0	10000	397119.9	3971199290	3971	8.76	12879.6	11.40	11400	48749.3	555741860.4	556	1.23
Q1 2017	110416.7	11.1	11100	417927.2	4638992025	4639	10.23	13552.8	12.00	12000	51297.3	615568176	616	1.36
Q2 2017	109943.0	0.243	243	416134.3	101120624	101	0.22	12475.3	9.76	9760	47219.0	460857542.5	461	1.02
Q3 2017	112626.4	1.12	1120	426290.9	477445834.9	477	1.05	14556.8	10.80	10800	55097.5	595052870.4	595	1.31
Q4 2017	108891.2	0.38	377	412153.2	155381753.4	155	0.34	14271.0	8.91	8910	54015.7	481280198.9	481	1.06
Q1 2018	109856.3	8.61	8610	415806.1	3580090482	3580	7.89	14258.4	9.50	9500	53968.0	512696418	513	1.13
Q2 2018	111271.4	0.49	494	421162.2	208054151.0	208	0.46	13367.6	10.40	10400	50596.4	526202206.4	526	1.16
Q3 2018	105821.8	2.55	2550	400535.5	1021365558.2	1021	2.25	12443.6	8.14	8140	47099.0	383385763.5	383	0.85
Q4 2018	107197.4	0.233	233	405742.2	94537923.0	95	0.21	12841.1	9.72	9720	48603.6	472426637.2	472	1.04
Q1 2019	116132.8	6.58	6580	439562.6	2892322223.8	2892	6.38	14623.9	6.70	6700	55351.3	370853777.7	371	0.82
Q2 2019	100704.0	8.96	8960	381164.6	3415235174.4	3415	7.53	13439.2	9.59	9590	50867.4	487818097.5	488	1.08
Q3 2019	101026.8	0.332	332	382386.4	126952297.4	127	0.28	13787.0	10.20	10200	52183.8	532274709.0	532	1.17
Q4 2019	98806.8	0.535	535	373983.7	200081299.8	200	0.44	8317.7	9.75	9750	31482.5	306953952.3	307	0.68
Q1 2020	96857.9	10.1	10100	366607.2	3702732230.2	3703	8.16	9505.1	9.81	9810	35976.6	352930585.8	353	0.78

 Table 4

 Table 4 Quarterly Calculation of Nitrate Removed and Total Volume of Water Pumped

		14		TW4-19							TW4-20							
Quarter	Total Pumped (gal)	Conc (mg/L)	Conc (ug/L)	Total Pumped (liters)	Total (ug)	Total (grams)	Total (pounds)	Total Pumped (gal)	Conc (mg/L)	Conc (ug/L)	Total Pumped (liters)	Total (ug)	Total (grams)	Total (pounds)				
Q2 2020	136619.7	1.1	1140	517105.6	589500343.5	590	1.30	100713.8	7.23	7230	381201.6	2756087708.6	2756	6.08				
Q3 2020	154514.4	11.6	11600	584837.0	6784109246.4	6784	14.96											
Q4 2020	144512.0	1.10	1100	546977.9	601675712.0	602	1.33											
Q1 2021	133462.3	6.61	6610	505154.8	3339073264.4	3339	7.36			W	ell collapsed and i	not sampled						
Q2 2021	151242.8	4.04	4040	572454.0	2312714151.9	2313	5.10			W	ell collapsed and i	not sampled						
Q3 2021	157632.4	6.68	6680	596638.6	3985546075.1	3986	8.79			W	ell collapsed and r	not sampled						
Q4 2021	124359.9	11.0	11000	470702.2	5177724436.5	5178	11.41	Well collapsed and not sampled										
Q1 2022	112209.2	1.7	1700	424711.8	722010097.4	722	1.59											

Q3 2010 8035809.43

387.4 1018583.08

TW4-4 TW4-22 Total Total Pumped Conc Conc **Total Pumped** Total Total Pumped Conc Conc **Total Pumped** Total Total (gal) (mg/L)(ug/L)(liters) Total (ug) (grams) (pounds) (gal) (mg/L)(ug/L)(liters) Total (ug) (grams) (pounds) Quarter Q3 2010 2125249642.4 2125.25 NA NA 76916.8 7.30 7300 291130.1 4.69 NA NA NA NA NA Q4 2010 86872.1 7.10 7100 328810.9 2334557379.4 2334.56 NA NA 5.15 NA NA NA NA NA 1943673200.0 1943.67 4.29 Q1 2011 73360.0 7.00 7000 277667.6 NA NA NA NA NA NA NA Q2 2011 80334.6 7.00 7000 304066.5 2128465227.0 2128.47 4.69 NA NA NA NA NA NA NA Q3 2011 97535.0 6.60 6600 369170.0 2436521835.0 2436.52 5.37 NA NA NA NA NA NA NA Q4 2011 109043.5 7.00 7000 412729.6 2889107532.5 2889.11 6.37 NA NA NA NA NA NA NA 384619.6 2730799074.8 2730.80 6.02 Q1 2012 101616.8 7.10 7100 NA NA NA NA NA NA NA Q2 2012 87759.1 7.10 7100 332168.2 2358394173.9 2358.39 5.20 NA NA NA NA NA NA NA NA 302822.7 2150041241.0 2150.04 4.74 NA NA NA NA NA NA Q3 2012 80006.0 7.10 7100 Q4 2012 71596.0 7.00 7000 270990.9 1896936020.0 1896.94 4.18 NA NA NA NA NA NA NA Q1 2013 58716.8 7.36 7360 222243.1 1635709127.7 1635.71 3.61 16677.4 58.0 58000.0 63124.0 3661189622.0 3661.2 8.07 Q2 2013 65603.4 6.30 6300 248308.9 1564345874.7 1564.35 3.45 25523.2 50.2 50200.0 96605.3 4849586662.4 4849.6 10.69 03 2013 7220 240405.8 1735729796.6 1735.73 3.83 25592.9 29.7 29700.0 96869.1 2877013057.1 2877.0 6.34 63515.4 7.22 4268872280.4 4268.9 Q4 2013 60233.6 7.84 7840 227984.2 1787395939.8 1787.40 3.94 24952.2 45.2 45200.0 94444.1 9.41 01 2014 58992.9 7.28 7280 223288.1 1625537560.9 1625.54 3.58 24532.0 54.6 54600.0 92853.6 5069807652.0 5069.8 11.18 Q2 2014 60235.3 5.91 5910 227990.6 1347424508.1 1347.42 2.97 24193.9 47.2 47200.0 91573.9 4322288622.8 4322.3 9.53 Q3 2014 69229.4 5.30 5300 262033.3 1388776378.7 1388.78 3.06 24610.9 41.5 41500.0 93152.3 3865818644.8 3865.8 8.52 Q4 2014 64422.6 7.02 7020 243839.5 1711753577.8 1711.75 3.77 23956.9 54.9 54900.0 90676.9 4978159970.9 4978.2 10.97 1076635717.9 1076.64 5774568141.8 Q1 2015 36941.3 7.70 7700 139822.8 2.37 22046.9 69.2 69200.0 83447.5 5774.6 12.73 Q2 2015 68162.8 6.33 6330 257996.2 1633115933.3 1633.12 3.60 23191.6 47.1 47100.0 87780.2 4134447702.6 4134.4 9.11 Q3 2015 64333.0 6.45 6450 243500.4 1570577612.3 1570.58 3.46 24619.9 64.7 64700.0 93186.3 6029155001.1 6029.2 13.29 Q4 2015 1405764431.4 1405.76 3.10 23657.6 56.1 56100.0 89544.0 5023419297.6 5023.4 11.07 59235.1 6.27 6270 224204.9 Q1 2016 1454607823.9 1454.61 2886076050.3 57274.0 6.71 6710 216782.1 3.21 24517.8 31.1 31100.0 92799.9 2886.1 6.36 O2 2016 61378.0 6.56 6560 232315.7 1523991188.8 1523.99 3.36 26506.3 58.4 58400.0 100326.3 5859058577.2 5859.1 12.92 3.02 5137.9 11.33 Q3 2016 50104.2 7.22 7220 189644.4 1369232546.3 1369.23 22144.1 61.3 61300.0 83815.4 5137885154.1 Q4 2016 31656.0 6.77 6770 119818.0 811167589.2 811.17 1.79 23646.8 61.5 61500.0 89503.1 5504442987.0 5504.4 12.14 Q1 2017 6870 611.77 1.35 6358.1 14.02 23526.8 6.87 89048.9 611766204.1 24066.2 69.8 69800.0 91090.6 6358121576.6 7.06 7060 87981.9 621152542.3 621.15 1.37 23685.0 70.8 70800.0 89647.7 6347058930.0 6347.1 13.99 Q2 2017 23244.9 93047.4 6150433933.2 6150.4 13.56 Q3 2017 23937.3 6.47 6470 90602.7 586199342.8 586.20 1.29 24583.2 66.1 66100.0 Q4 2017 22900.6 6.90 6900 86678.8 598083519.9 598.08 1.32 23779.6 80.1 80100.0 90005.8 7209463458.6 7209.5 15.89 Q1 2018 23103.4 6120 87446.4 535171778.3 535.17 1.18 23982.8 62.3 62300.0 90774.9 5655276145.4 5655.3 12.47 6.12 Q2 2018 18137.0 6.34 6340 68648.5 435231775.3 435.23 0.96 23256.6 72.5 72500.0 88026.2 6381901747.5 6381.9 14.07 4455618654.3 4455.6 Q3 2018 15366.0 6100 58160.3 354777891.0 354.78 0.78 21248.7 55.4 55400.0 80426.3 9.82 6.10 Q4 2018 15420.2 6.02 6020 58365.5 351360051.1 351.36 0.77 24171.0 75.7 75700.0 91487.2 6925583689.5 6925.6 15.27 98977.4 7116473010.9 7116.5 15.69 Q1 2019 457.66 1.01 26149.9 71.9 71900.0 16655.0 7.26 7260 63039.2 457664410.5 Q2 2019 14311.9 10.4 10400 54170.5 563373631.6 563.37 1.24 23073.1 83.9 83900.0 87331.7 7327128245.7 7327.1 16.15 Q3 2019 14520.0 6.32 6320 54958.2 347335824.0 347.34 0.77 24711.7 72.5 72500.0 93533.8 6781199376.3 6781.2 14.95 04 2019 14399.8 6.52 6520 54503.2 355361144.4 355.36 0.78 24052.5 59.9 59900.0 91038.7 5453218878.8 5453.2 12.02 0.55 57700.0 5404.4 11.91 Q1 2020 14439.2 4.58 4580 54652.4 250307863.8 250.31 24746.1 57.7 93664.0 5404412136.5

 Table 4

 Ouarterly Calculation of Nitrate Removed and Total Volume of Water Pumped

 Table 4

 Quarterly Calculation of Nitrate Removed and Total Volume of Water Pumped

	21/2		5.	TW4-4			in the second			6	TW4-22			
Quarter	Total Pumped (gal)	Conc (mg/L)	Conc (ug/L)	Total Pumped (liters)	Total (ug)	Total (grams)	Total (pounds)	Total Pumped (gal)	Conc (mg/L)	Conc (ug/L)	Total Pumped (liters)	Total (ug)	Total (grams)	Total (pounds)
Q2 2020	15347.0	7.26	7260	58088.4	421721747.7	421.72	0.93	25295.3	60.5	60500.0	95742.7	5792433985.3	5792.4	12.77
Q3 2020	14389.9	7.04	7040	54465.8	383439031.4	383.44	0.85	23050.6	64.8	64800.0	87246.5	5653574560.8	5653.6	12.46
Q4 2020	15061.5	6.77	6770	57007.8	385942653.7	385.94	0.85	22866.1	64.9	64900.0	86548.2	5616977433.7	5617.0	12.38
Q1 2021	13740.8	6.75	6750	52008.9	351060264.0	351.06	0.77	22605.6	69.6	69600.0	85562.2	5955128841.6	5955.1	13.13
Q2 2021	13425.7	9.02	9020	50816.3	458362796.0	458.36	1.01	22893.3	89.3	89300.0	86651.1	7737946846.7	7737.9	17.06
Q3 2021	12021.0	4.00	4000	45499.5	181997940.0	182.00	0.40	22272.5	35.1	35100.0	84301.4	2958979578.8	2959.0	6.52
Q4 2021	11401.1	7.32	7320	43153.2	315881156.8	315.88	0.70	22667.3	68.8	68800.0	85795.7	5902746258.4	5902.7	13.01
Q1 2022	10434.1	6.60	6600	39493.1	260654252.1	260.65	0.57	22083.6	40.4	40400.0	83586.4	3376891610.4	3376.9	7.44

Q3 2010 2140856.90

122.3 875611.1

162

 Table 4

 Quarterly Calculation of Nitrate Removed and Total Volume of Water Pumped

	5			TW4-24	The second		1000				TW4-25	The Local	2.2	
Quarter	Total Pumped (gal)	Conc (mg/L)	Conc (ug/L)	Total Pumped (liters)	Total (ug)	Total (grams)	Total (pounds)	Total Pumped (gal)	Conc (mg/L)	Conc (ug/L)	Total Pumped (liters)	Total (ug)	Total (grams)	Total (pounds)
Q3 2010	NA	NA	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	NA	NA
Q1 2011	NA	NA	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	NA	NA
Q3 2011	NA	NA	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	NA	NA
Q1 2012	NA	NA	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	NA	NA
Q3 2012	NA	NA	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	NA	NA
Q1 2013	144842.6	35.9	35900	548229.2	19681429751.9	19681.4	43.39	99369.9	9.00	9000	376115.1	3385035643.5	3385.0	7.46
Q2 2013	187509.3	23.7	23700	709722.7	16820428001.9	16820.4	37.08	147310.4	5.24	5240	557569.9	2921666087.4	2921.7	6.44
Q3 2013	267703.5	32.6	32600	1013257.7	33032202568.5	33032.2	72.82	145840.9	5.69	5690	552007.8	3140924419.0	3140.9	6.92
Q4 2013	260555.3	34.6	34600	986201.8	34122582643.3	34122.6	75.23	126576.5	6.10	6100	479092.1	2922461520.3	2922.5	6.44
Q1 2014	229063.9	31.6	31600	867006.9	27397416823.4	27397.4	60.40	129979.2	2.16	2160	491971.3	1062657947.5	1062.7	2.34
Q2 2014	216984.1	35.0	35000	821284.8	28744968647.5	28745.0	63.37	124829.8	1.21	1210	472480.8	571701759.5	571.7	1.26
Q3 2014	213652.5	31.5	31500	808674.7	25473253443.8	25473.3	56.16	119663.9	1.60	1600	452927.9	724684578.4	724.7	1.60
Q4 2014	178468.7	35.7	35700	675504.0	24115493853.2	24115.5	53.17	107416.1	1.03	1030	406569.9	418767036.7	418.8	0.92
Q1 2015	92449.3	34.6	34600	349920.6	12107252777.3	12107.3	26.69	71452.4	14.40	14400	270447.3	3894441609.6	3894.4	8.59
Q2 2015	62664.2	31.8	31800	237184.0	7542451104.6	7542.5	16.63	91985.3	1.14	1140	348164.4	396907371.0	396.9	0.88
Q3 2015	66313.2	25.3	25300	250995.5	6350185188.6	6350.2	14.00	124137.1	1.63	1630	469858.9	765870045.3	765.9	1.69
Q4 2015	107799.1	29.6	29600	408019.6	12077379967.6	12077.4	26.63	116420.1	1.78	1780	440650.1	784357139.7	784.4	1.73
Q1 2016	100063.2	29.1	29100	378739.2	11021311069.2	11021.3	24.30	115483.2	0.84	837	437103.9	365855974.3	365.9	0.81
Q2 2016	65233.6	24.2	24200	246909.2	5975202059.2	5975.2	13.17	125606.0	0.96	959	475418.7	455926542.9	455.9	1.01
Q3 2016	51765.8	34.4	34400	195933.6	6740114223.2	6740.1	14.86	104983.6	1.78	1780	397362.9	707306008.3	707.3	1.56
Q4 2016	99522.5	31.9	31900	376692.7	12016495933.8	12016.5	26.49	98681.2	1.24	1240	373508.3	463150344.1	463.2	1.02
Q1 2017	99117.4	41.3	41300	375159.4	15494081526.7	15494.1	34.16	161.2	17.0	17000	610.1	10372414.0	10.4	0.02
Q2 2017	52808.7	39.9	39900	199880.9	7975249087.1	7975.2	17.58	101617.2	0,976	976	384621.1	375390195.6	375.4	0.83
Q3 2017	55574.6	40.0	40000	210349.9	8413994440.0	8414.0	18.55	124138.4	1.23	1230	469863.8	577932528.1	577.9	1.27
Q4 2017	106021.4	31.7	31700	401291.0	12720924668.3	12720.9	28.04	116731.9	1.29	1290	441830.2	569961011.5	570.0	1.26
Q1 2018	96900.2	44.9	44900	366767.3	16467849839.3	16467.8	36.31	116991.7	2.23	2230	442813.6	987474293.4	987.5	2.18
Q2 2018	53117.9	33.6	33600	201051.3	6755322050.4	6755.3	14.89	117758.3	1.14	1140	445715.2	508115288.7	508.1	1.12
Q3 2018	53142.6	33.8	33800	201144.8	6798693525.1	6798.7	14.99	111657.5	0.810	810	422623.6	342325146.4	342.3	0.75
Q4 2018	101606.4	38.4	38400	384580.2	14767880601.6	14767.9	32.56	114458.2	0.634	634	433224.3	274664198.0	274.7	0.61
Q1 2019	97701.0	39.3	39300	369798.4	14533077063.0	14533.1	32.04	90789.5	0.639	639	343638,1	219584725.6	219.6	0.48
Q2 2019	53197.3	33.2	33200	201351.9	6684881625.8	6684.9	14.74	88302.0	0.821	821	334223.1	274397140.5	274.4	0.60
Q3 2019	54445.7	36.4	36400	206077.0	7501201871.8	7501.2	16.54	87609.5	0.548	548	331602.0	181717872.7	181.7	0.40
Q4 2019	102211.0	33.8	33800	386868.7	13076162421.7	13076.2	28.83	85928.5	0.841	841	325239.5	273526407.8	273.5	0.60
Q1 2020	86344.4	37.1	37100	326813.5	12124780044.9	12124.8	26.73	85049.5	0.607	607	321912.2	195400732.1	195.4	0.43

 Table 4

 Quarterly Calculation of Nitrate Removed and Total Volume of Water Pumped

	No. State			TW4-24							TW4-25			
Quarter	Total Pumped (gal)	Conc (mg/L)	Conc (ug/L)	Total Pumped (liters)	Total (ug)	Total (grams)	Total (pounds)	Total Pumped (gal)	Conc (mg/L)	Conc (ug/L)	Total Pumped (liters)	Total (ug)	Total (grams)	Total (pounds)
Q2 2020	57634.7	41.7	41700	218147.3	9096744057.2	9096.7	20.05	90767.9	0.851	851	343556.6	292366679.4	292.4	0.64
Q3 2020	53316.1	39.1	39100	201801.4	7890436245.4	7890.4	17.40	83956.3	0.994	994	317774.6	315867910.3	315.9	0.70
Q4 2020	103987.2	35.9	35900	393591.6	14129936716.8	14129.9	31.15	86254.4	1.64	1640	326472.7	535415252.2	535.4	1.18
Q1 2021	81891.2	41.9	41900	309958.3	12987251416.6	12987.3	28.63	80272.2	3.43	3430	303830.4	1042138109.8	1042.1	2.30
Q2 2021	54377.9	48.0	48000	205820.4	9879376872.0	9879.4	21.78	82692.8	1.57	1570	312992.2	491397829.4	491.4	1.08
Q3 2021	53333.1	26.7	26700	201865.8	5389817430.0	5389.8	11.88	82802.3	0.79	793	313406.8	248531607.5	248.5	0.55
Q4 2021	96534.8	43.6	43600	365384.1	15930745303.8	15930.7	35.12	89361.5	0.978	978	338233.3	330792182.4	330,8	0.73
Q1 2022	73545.0	36.2	36200	278367.8	10076915265.0	10076.9	22.22	92972.1	1.800	1800	351899.4	633418917.3	633.4	1.40

Q3 2010 3931399.5

1128.6 3780008.48

 Table 4

 Quarterly Calculation of Nitrate Removed and Total Volume of Water Pumped

	124 - 25 B	1	3.5.12	TWN-02	The second second	12 E 3					TW4-01	and a state of the		
Quarter	Total Pumped (gal)	Conc (mg/L)	Conc (ug/L)	Total Pumped (liters)	Total (ug)	Total (grams)	Total (pounds)	Total Pumped (gal)	Conc (mg/L)	Conc (ug/L)	Total Pumped (liters)	Total (ug)	Total (grams)	Total (pounds)
Q3 2010	NA	NA	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	NA	NA
Q1 2011	NA	NA	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	NA	NA
Q3 2011	NA	NA	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	NA	NA
Q1 2012	NA	NA	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	NA	NA
Q3 2012	NA	NA	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	NA	NA
Q1 2013	31009.4	57.3	57300	117370.6	6725334176.7	6725.3	14.83	NA	NA	NA	NA	NA	NA	NA
Q2 2013	49579.3	57.7	57700	187657.7	10827846433.9	10827.8	23.87	NA	NA	NA	NA	NA	NA	NA
Q3 2013	50036.5	80.0	80000	189388.2	15151052200.0	15151.1	33.40	NA	NA	NA	NA	NA	NA	NA
Q4 2013	49979.9	111.0	111000	189173.9	20998305286.5	20998.3	46.29	NA	NA	NA	NA	NA	NA	NA
Q1 2014	48320.4	42.6	42600	182892.7	7791229616.4	7791.2	17.18	NA	NA	NA	NA	NA	NA	NA
Q2 2014	47611.9	44.7	44700	180211.0	8055433555.1	8055.4	17.76	NA	NA	NA	NA	NA	NA	NA
Q3 2014	46927.2	42.0	42000	177619.5	7460016984.0	7460.0	16.45	NA	NA	NA	NA	NA	NA	NA
Q4 2014	47585.6	70.6	70600	180111.5	12715871617.6	12715.9	28.03	NA	NA	NA	NA	NA	NA	NA
Q1 2015	47262.2	48.6	48600	178887.4	8693928952.2	8693.9	19.17	24569.2	7.06	7060	92994.4	656540619.3	656.5	1.45
Q2 2015	48497.3	52.8	52800	183562.3	9692088410.4	9692.1	21.37	23989.9	6.07	6070	90801.8	551166753.0	551.2	1.22
Q3 2015	48617.4	49.7	49700	184016.9	9145637892.3	9145.6	20.16	23652.0	6.3	6280	89522.8	562203309.6	562.2	1.2
Q4 2015	46754.1	44.9	44900	176964.3	7945695655.7	7945.7	17.52	20764.3	1.55	1550	78592.9	121818957.0	121.8	0.27
Q1 2016	47670.2	86.3	86300	180431.7	15571256314.1	15571.3	34.33	19255.6	0.15	148	72882.4	10786602.0	10.8	0.02
Q2 2016	50783.0	45.4	45400	192213.7	8726499937.0	8726.5	19.24	19588.2	0.14	138	74141.3	10231504.5	10.2	0.02
Q3 2016	42329.6	35.3	35300	160217.5	5655679020.8	5655.7	12.47	15613.5	5.49	5490	59097.1	324443065.3	324.4	0.72
Q4 2016	44640.6	32.6	32600	168964.7	5508248274.6	5508.2	12.14	16756.8	0.75	746	63424.5	47314668.0	47.3	0.10
Q1 2017	45283.2	27.4	27400	171396.9	4696275388.8	4696.3	10.35	16931.8	4.44	4440	64086.9	284545671.7	284.5	0.63
Q2 2017	42550.6	25.0	25000	161054.0	4026350525.0	4026.4	8.88	18200.2	5.74	5740	68887.8	395415725.2	395.4	0.87
Q3 2017	46668.9	23.9	23900	176641.8	4221738697.4	4221.7	9.31	17413.6	5.04	5040	65910.5	332188799.0	332.2	0.73
Q4 2017	38964.7	31.9	31900	147481.4	4704656325.1	4704.7	10.37	14089.8	5.78	5780	53329.9	308246781.5	308.2	0.68
Q1 2018	43341.0	19.6	19600	164045.7	3215295426.0	3215.3	7.09	12505.7	4.84	4840	47334.1	229096920.6	229.1	0.51
Q2 2018	43697.0	19.8	19800	165393.1	3274784271.0	3274.8	7.22	10814.8	4.38	4380	40934.0	179290998.8	179.3	0.40
Q3 2018	41776.0	18.6	18600	158122.2	2941072176.0	2941.1	6.48	9727.3	4.30	4300	36817.8	158316671.2	158.3	0.35
Q4 2018	38545.8	19.6	19600	145895.9	2859558718.8	2859.6	6.30	9836.7	4.57	4570	37231.9	170149826.4	170.1	0.38
Q1 2019	44752.8	19.0	19000	169389.3	3218397612.0	3218.4	7.10	10603.6	4.51	4510	40134.6	181007163.3	181.0	0.40
Q2 2019	43432.2	45.1	45100	164390.9	7414028552.7	7414.0	16.35	9393.9	1.43	1430	35555.9	50844953.4	50.8	0.11
Q3 2019	41377.5	23.2	23200	156613.8	3633441030.0	3633.4	8.01	9734.1	1.65	1650	36843.6	60791888.0	60.8	0.13
Q4 2019	34011.4	18.2	18200	128733.1	2342943311.8	2342.9	5.17	9184.3	3.91	3910	34762.6	135921670.2	135.9	0.30
Q1 2020	32230.0	16.5	16500	121990.6	2012844075.0	2012.8	4.44	9796.7	4.67	4670	37080.5	173165979.4	173.2	0.38

 Table 4

 Quarterly Calculation of Nitrate Removed and Total Volume of Water Pumped

	and the second	The same		TWN-02		Care-H-	10000				TW4-01			No. The State
Quarter	Total Pumped (gal)	Conc (mg/L)	Conc (ug/L)	Total Pumped (liters)	Total (ug)	Total (grams)	Total (pounds)	Total Pumped (gal)	Conc (mg/L)	Conc (ug/L)	Total Pumped (liters)	Total (ug)	Total (grams)	Total (pounds)
Q2 2020	30078.9	16.1	16100	113848.6	1832963047.7	1833.0	4.04	9600.2	0.443	443	36336.8	16097183.4	16.1	0.04
Q3 2020	21279.1	17.2	17200	80541.4	1385311968.2	1385.3	3.05	9487.3	2.22	2220	35909.4	79718935.7	79.7	0.18
Q4 2020	25682.1	12.0	12000	97206.7	1166480982.0	1166.5	2.57	9318.7	4.30	4300	35271.3	151666501.9	151.7	0.33
Q1 2021	23310.5	15.4	15400	88230.2	1358745734.5	1358.7	3.00	9066.4	2.72	2720	34316.3	93340401.3	93.3	0.21
Q2 2021	22717.2	13.8	13800	85984.6	1186587507.6	1186.6	2.62	8764.1	0.728	728	33172.1	24149302.3	24.1	0.05
Q3 2021	20130.8	15.3	15300	76195.0	1165783535.2	1165.8	2.57	8677.2	1.38	1380	32843.2	45323618.8	45.3	0.10
Q4 2021	17425.3	12.7	12700	65954.8	837626419.7	837.6	1.85	8873.4	4.37	4370	33585.8	146770029.0	146.8	0.32
Q1 2022	16188.7	15.3	15300	61274.2	937495711.4	937.5	2.07	8251.8	3.90	3900	31233.1	121808945.7	121.8	0.27

Q3 2010 1461048.3

483.0 394461.10

 Table 4

 Quarterly Calculation of Nitrate Removed and Total Volume of Water Pumped

	The art	-		TW4-02	NUMBER OF STREET	-					TW4-1	1		
Quarter	Total Pumped (gal)	Conc (mg/L)	Conc (ug/L)	Total Pumped (liters)	Total (ug)	Total (grams)	Total (pounds)	Total Pumped (gal)	Conc (mg/L)	Conc (ug/L)	Total Pumped (liters)	Total (ug)	Total (grams)	Totai (pounds)
Q3 2010	NA	NA	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	NA	NA
Q1 2011	NA	NA	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	NA	NA
Q3 2011	NA	NA	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	NA	NA
Q1 2012	NA	NA	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	NA	NA
Q3 2012	NA	NA	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	NA	NA
Q1 2013	NA	NA	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	NA	NA
Q3 2013	NA	NA	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	NA	NA
Q1 2014	NA	NA	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	NA	NA
Q3 2014	NA	NA	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	NA	NA
Q1 2015	24156.7	5.32	5320	91433.1	486424142.5	486.4	1.07	9898.7	8.72	8720	37466.6	326708573.2	326.7	0.72
Q2 2015	22029.9	4.30	4300	83383.2	358547637.5	358.5	0.79	5243.3	8.48	8480	19845.9	168293151.4	168.3	0.37
Q3 2015	21586.9	3.8	3760	81706.4	307216126.0	307.2	0.7	3584.4	9.6	9610	13567.0	130378427.9	130.4	0.3
Q4 2015	21769.8	5.18	5180	82398.7	426825229.7	426.8	0.94	4110.3	7.50	7500	15557.5	116681141.3	116.7	0.26
Q1 2016	20944.6	5.30	5300	79275.3	420159148.3	420.2	0.93	3676.2	7.13	7130	13914.4	99209793.2	99.2	0.22
Q2 2016	20624.0	6.67	6670	78061.8	520672472.8	520.7	1.15	3760.4	7.81	7810	14233.1	111160620.3	111.2	0.25
Q3 2016	17487.4	4.07	4070	66189.8	269392522.6	269.4	0.59	2953.8	8.83	8830	11180.1	98720574.4	98.7	0.22
Q4 2016	19740.6	6.07	6070	74718.2	453539298.0	453.5	1.00	3050.2	8.92	8920	11545.0	102981462.4	103.0	0.23
Q1 2017	19869.7	4.74	4740	75206.8	356480300.7	356.5	0.79	2984.2	8.12	8120	11295.2	91716999.6	91.7	0.20
Q2 2017	18716.7	4.90	4900	70842.7	347129276.6	347.1	0.77	2845.9	7.92	7920	10771.7	85312113.5	85.3	0.19
Q3 2017	19338.8	5.08	5080	73197.4	371842578.6	371.8	0.82	2830.0	7.78	7780	10711.6	83335859.0	83.3	0.18
Q4 2017	17327.6	3.28	3280	65585.0	215118688.5	215.1	0.47	2612.7	7.79	7790	9889.1	77035851.4	77.0	0.17
Q1 2018	16232.3	2.94	2940	61439.3	180631411.2	180.6	0.40	2571.0	7.89	7890	9731.2	76779444.2	76.8	0.17
Q2 2018	16051.4	3.50	3500	60754.5	212640921.5	212.6	0.47	2513.5	7.51	7510	9513.6	71447117.2	71.4	0.16
Q3 2018	14927.2	4.83	4830	56499.5	272892353.2	272.9	0.60	2170.2	7.15	7150	8214.2	58731580.1	58.7	0.13
Q4 2018	15464.1	3.52	3520	58531.6	206031297.1	206.0	0.45	2379.5	6.85	6850	9006.4	61693891.4	61.7	0.14
Q1 2019	16169.9	3.92	3920	61203.1	239916040.3	239.9	0.53	2342.4	7.50	7500	8866.0	66494880.0	66.5	0.15
Q2 2019	13893.7	4.38	4380	52587.7	230333926.7	230.3	0.51	2195.1	8.30	8300	8308.5	68960164.1	69.0	0.15
Q3 2019	14106.9	4.79	4790	53394.6	255760213.0	255.8	0.56	2046.0	7.15	7150	7744.1	55370386.5	55.4	0.12
Q4 2019	14220.9	3.40	3400	53826.1	183008762.1	183.0	0.40	1983.9	7.14	7140	7509.1	53614699.1	53.6	0.12
Q1 2020	13162.1	6.07	6070	49818.5	302398589.4	302.4	0.67	1947.4	7.07	7070	7370.9	52112326.6	52.1	0.11

 Table 4

 Quarterly Calculation of Nitrate Removed and Total Volume of Water Pumped

	- Prest	A NOT THE		TW4-02				(TW4-11			
Quarter	Total Pumped (gal)	Conc (mg/L)	Conc (ug/L)	Total Pumped (liters)	Totai (ug)	Total (grams)	Total (pounds)	Total Pumped (gal)	Conc (mg/L)	Conc (ug/L)	Total Pumped (liters)	Total (ug)	Total (grams)	Total (pounds)
Q2 2020	14155.6	3.62	3620	53578.9	193955784.5	194.0	0.43	2003.9	7.56	7560	7584.8	57340796.9	57.3	0.13
Q3 2020	14009.5	3.35	3350	53026.0	177636957.6	177.6	0.39	1784.1	7.59	7590	6752.8	51253892.4	51.3	0.11
Q4 2020	14582.9	2.34	2340	55196.3	129159287.0	129.2	0.28	1394.6	7.19	7190	5278.6	37952853.6	38.0	0.08
Q1 2021	13189.6	3.30	3300	49922.6	164744698.8	164.7	0.36	2195.1	7.21	7210	8308.5	59904495.5	59.9	0.13
Q2 2021	11975.9	3.89	3890	45328.8	176328960.0	176.3	0.39	1694.5	8.17	8170	6413.7	52399786.0	52.4	0.12
Q3 2021	12694.5	1.97	1970	48048.7	94655904.5	94.7	0.21	1560.8	5.78	5780	5907.5	34145214.7	34.1	0.08
Q4 2021	12351.3	3.49	3490	46749.7	163156350.0	163.2	0.36	1485.5	7.44	7440	5622.6	41832274.2	41.8	0.09
Q1 2022	11380.6	3.30	3300	43075.6	142149384.3	142.1	0.31	1497.2	7.40	7400	5666.9	41935074.8	41.9	0.09

Q3 2010 482161.10

17.3 81314.78

 Table 4

 Quarterly Calculation of Nitrate Removed and Total Volume of Water Pumped

	THE PARTY	Sec. 1		TW4-21	1.7.1				1.19		TW4-37	- 2	LALS.	145×2171
Quarter	Total Pumped (gal)	Conc (mg/L)	Conc (ug/L)	Total Pumped (liters)	Total (ug)	Total (grams)	Total (pounds)	Total Pumped (gal)	Conc (mg/L)	Conc (ug/L)	Total Pumped (liters)	Total (ug)	Total (grams)	Total (pounds)
Q3 2010	NA	NA	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	NA	NA
Q1 2011	NA	NA	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	NA	NA
Q3 2011	NA	NA	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	NA	NA
Q1 2012	NA	NA	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	NA	NA
Q3 2012	NA	NA	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	NA	NA
Q1 2013	NA	NA	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	NA	NA
Q3 2013	NA	NA	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	NA	NA
Q1 2014	NA	NA	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	NA	NA
Q3 2014	NA	NA	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	NA	NA
Q1 2015	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Q2 2015	30743.7	13.1	13100	116364.9	1524380249.0	1524.4	3.4	29206.0	35.2	35200	110544.7	3891173792.0	3891.2	8.6
Q3 2015	125285.4	14.7	14700	474205.2	6970817013.3	6970.8	15.4	118063.9	32.4	32400	446871.9	14478648312.6	14478.6	31.9
Q4 2015	134774.9	14.30	14300	510123.0	7294758850.0	7294.8	16.08	111737.5	34.60	34600	422926.4	14633254737.5	14633.3	32.26
Q1 2016	125513.3	14.60	14600	475067.8	6935990471.3	6936.0	15.29	111591.0	28.40	28400	422371.9	11995362954.0	11995.4	26.45
Q2 2016	132248.7	13.10	13100	500561.3	6557353416.5	6557.4	14.46	119241.2	27.90	27900	451327.9	12592049581.8	12592.0	27.76
Q3 2016	110381.9	16.50	16500	417795.5	6893625609.8	6893.6	15.20	98377.6	33.40	33400	372359.2	12436797814.4	12436.8	27.42
Q4 2016	130311.3	13.50	13500	493228.3	6658581651.8	6658.6	14.68	101949.1	26.10	26100	385877.3	10071398665.4	10071.4	22.20
Q1 2017	54333.5	17.70	17700	205652.3	3640045665.8	3640.0	8.02	97071.7	32.30	32300	367416.4	11867549219.4	11867.5	26.16
Q2 2017	60969.7	9.53	9530	230770.3	2199241097.2	2199.2	4.85	93191.3	31.20	31200	352729.1	11005146999.6	11005.1	24.26
Q3 2017	120116.2	18.2	18200	454639.8	8274444669.4	8274.4	18.24	81749.3	30.5	30500	309421.1	9437343565.3	9437.3	20.81
Q4 2017	126492.5	16.9	16900	478774.1	8091282501.3	8091.3	17.84	87529.6	30.6	30600	331299.5	10137765801.6	10137.8	22.35
Q1 2018	117832.0	15.8	15800	445994.1	7046707096.0	7046.7	15.54	84769.3	30.0	30000	320851.8	9625554015.0	9625.6	21.22
Q2 2018	116681.0	14.1	14100	441637.6	6227089948.5	6227.1	13.73	83653.1	28.6	28600	316627.0	9055531728.1	9055.5	19.96
Q3 2018	110001.4	0.236	236	416355.3	98259850.6	98.3	0.22	77457.8	25.4	25400	293177.8	7446715434.2	7446.7	16.42
Q4 2018	121686.3	15.2	15200	460582.6	7000856211.6	7000.9	15.43	76271.4	27.3	27300	288687.2	7881161897.7	7881.2	17.38
Q1 2019	123264.1	8.99	8990	466554.5	4194325339.8	4194.3	9.25	77591.4	30.1	30100	293683.4	8839871814.9	8839.9	19.49
Q2 2019	106893.6	17.5	17500	404592.3	7080364830.0	7080.4	15.61	64950.1	31.2	31200	245836.1	7670087209.2	7670.1	16.91
Q3 2019	108132.9	14.7	14700	409283.0	6016460489.6	6016.5	13.26	67572.0	25.8	25800	255760.0	6598608516.0	6598.6	14.55
Q4 2019	116167.6	5.73	5730	439694.2	2519447632.8	2519.4	5.55	66732.4	25.5	25500	252582.1	6440844417.0	6440.8	14.20
Q1 2020	106622.0	8.93	8930	403564.3	3603829269.1	3603.8	7.95	65554.2	28.3	28300	248122.6	7021870910.1	7021.9	15.48

 Table 4

 Quarterly Calculation of Nitrate Removed and Total Volume of Water Pumped

	AND THE REAL		1	TW4-21	C. C. A. S. M.	110-2-2-2	the first of the	and the second			TW4-37	Desta Fro		
Quarter	Total Pumped (gal)	Conc (mg/L)	Conc (ug/L)	Total Pumped (liters)	Total (ug)	Total (grams)	Total (pounds)	Total Pumped (gal)	Conc (mg/L)	Conc (ug/L)	Total Pumped (liters)	Total (ug)	Total (grams)	Total (pounds)
Q2 2020	110999.1	15.4	15400	420131.7	6470028288.6	6470.0	14.26	65163.8	28.3	28300	246645.0	6980053018.9	6980.1	15.39
Q3 2020	99515.1	12.6	12600	376664.7	4745975111.0	4746.0	10.46	56659.3	29.5	29500	214455.5	6326435789.8	6326.4	13.95
Q4 2020	107061.2	16.3	16300	405226.5	6605191796.8	6605.2	14.56	61323.9	28.7	28700	232111.0	6661584595.1	6661.6	14.69
Q1 2021	97211.5	15.2	15200	367945.5	5592771442.7	5592.8	12.33	59907.4	26.9	26900	226749.5	6099561792.1	6099.6	13.45
Q2 2021	97157.6	21.5	21500	367741.5	7906442594.0	7906.4	17.43	58564.2	26.6	26600	221665.5	5896302220.2	5896.3	13.00
Q3 2021	93390.4	12.9	12900	353482.7	4559926365.6	4559.9	10.05	49987.5	25.8	25800	189202.7	4881429337.5	4881.4	10.76
Q4 2021	102535.0	17.2	17200	388095.0	6675234221.0	6675.2	14.72	46649.1	31.3	31300	176566.8	5526542201.6	5526.5	12.18
Q1 2022	91105.4	2.2	2200	344833.9	758634665.8	758.6	1.67	42923.5	29.8	29800	162465.4	4841470335.5	4841.5	10.67

Q3 2010 2977427.2

335.4 2155438.6

 Table 4

 Quarterly Calculation of Nitrate Removed and Total Volume of Water Pumped

		1 miles		TW4-39			1.1	1.5			TW4-4	0		
Quarter	Total Pumped (gal)	Conc (mg/L)	Conc (ug/L)	Total Pumped (liters)	Total (ug)	Total (grams)	Total (pounds)	Total Pumped (gal)	Conc (mg/L)	Conc (ug/L)	Total Pumped (liters)	Total (ug)	Total (grams)	Total (pounds)
Q3 2010	NA	NA	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	NA	NA
Q1 2011	NA	NA	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	NA	NA
Q3 2011	NA	NA	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	NA	NA
Q1 2012	NA	NA	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	NA	NA
Q3 2012	NA	NA	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	NA	NA
Q1 2013	NA	NA	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	NA	NA
Q3 2013	NA	NA	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	NA	NA
Q1 2014	NA	NA	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	NA	NA
Q3 2014	NA	NA	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	NA	NA
Q1 2015	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Q2 2015	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Q3 2015	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Q4 2015	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Q1 2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Q2 2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Q3 2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Q4 2016	3589.3	20.70	20700	13585.5	281219860.4	281.2	0.62	NA	NA	NA	NA	NA	NA	NA
Q1 2017	103117.8	6.44	6440	390300.9	2513537622.1	2513.5	5.54	NA	NA .	NA	NA	NA	NA	NA
Q2 2017	41313.0	6.25	6250	156369.7	977310656.3	977.3	2.15	NA	NA	NA	NA	NA	NA	NA
Q3 2017	34546.3	7.74	7740	130757.7	1012064950.2	1012.1	2.23	NA	NA	NA	NA	NA	NA	NA
Q4 2017	68180.2	2.65	2650	258062.1	683864451.1	683.9	1.51	NA	NA	NA	NA	NA	NA	NA
Q1 2018	59262.2	3.33	3330	224307.4	746943731.9	746.9	1.65	NA	NA	NA	NA	NA	NA	NA
Q2 2018	34259.8	4.84	4840	129673.3	627618980.1	627.6	1.38	NA	NA	NA	NA	NA	NA	NA
Q3 2018	33473.4	6.05	6050	126696.8	766515755.0	766.5	1.69	NA	NA	NA	NA	NA	NA	NA
Q4 2018	37003.6	6.39	6390	140058.6	894974620.1	895.0	1.97	NA	NA	NA	NA	NA	NA	NA
Q1 2019	49116.9	2.08	2080	185907.5	386687530.3	386.7	0.85	NA	NA	NA	NA	NA	NA	NA
Q2 2019	34285.7	8.45	8450	129771.4	1096568114.5	1096.6	2.42	81762.8	3.55	3550.0	309472.2	1098626302.9	1098.6	2.4
Q3 2019	36976.2	1.75	1750	139954.9	244921104.8	244.9	0.54	116414.2	3.39	3390.0	440627.7	1493728062.3	1493.7	3.3
Q4 2019	51808.6	0.948	948	196095.6	185898582.3	185.9	0.41	108281.9	2.89	2890.0	409847.0	1184457696.0	1184.5	2.6
Q1 2020	43169.3	0.792	792	163395.8	129409474.0	129.4	0.29	102021.5	2.98	2980.0	386151.4	1150731217.7	1150.7	2.5

 Table 4

 Quarterly Calculation of Nitrate Removed and Total Volume of Water Pumped

	1000			TW4-39							TW4-4	0		
Quarter	Total Pumped (gal)	Conc (mg/L)	Conc (ug/L)	Total Pumped (liters)	Total (ug)	Total (grams)	Total (pounds)	Total Pumped (gal)	Conc (mg/L)	Conc (ug/L)	Total Pumped (liters)	Total (ug)	Total (grams)	Total (pounds)
Q2 2020	37352.7	5.01	5010	141380.0	708313647.2	708.3	1.56	100757.1	2.91	2910.0	381365.7	1109774294.8	1109.8	2.4
Q3 2020	35628.2	2.69	2690	134852.7	362753862.5	362.8	0.80	86264.5	2.88	2880.0	326511.1	940352061.6	940.4	2.1
Q4 2020	46794.2	7.03	7030	177116.0	1245125810.4	1245.1	2.75	77535.9	2.58	2580.0	293473.5	757161617.2	757.2	1.7
Q1 2021	38932.4	2.12	2120	147359.1	312401364.1	312.4	0.69	72543.4	2.43	2430.0	274576.7	667221272.7	667.2	1.5
Q2 2021	32865.2	12.0	12000	124394.8	1492737384.0	1492.7	3.29	66866.4	3.77	3770.0	253089.3	954146751.5	954.1	2.1
Q3 2021	31436.6	2.70	2700	118987.5	321266333.7	321.3	0.71	58841.0	1.50	1500.0	222713.1	334069664.0	334.1	0.7
Q4 2021	42730.6	2.33	2330	161735.3	376843297.9	376.8	0.83	57357.9	2.60	2600.0	217099.6	564458897.1	564.5	1.2
Q1 2022	35550.2	2.90	2900	134557.5	390216770.3	390.2	0.86	53009.2	2.50	2500.0	200639.8	501599555.0	501.6	1.1

Q3 2010 931392.40

34.7 981655.8

 Table 4

 Quarterly Calculation of Nitrate Removed and Total Volume of Water Pumped

	24.12 19	100		TW4-41	A STREET			a sta
Quarter	Total Pumped (gal)	Conc (mg/L)	Conc (ug/L)	Total Pumped (liters)	Total (ug)	Total (grams)	Total (pounds)	Removed by All Wells
Q3 2010	NA	NA	NA	NA	NA	NA	NA	15.69
Q4 2010	NA	NA	NA	NA	NA	NA	NA	27.97
Q1 2011	NA	NA	NA	NA	NA	NA	NA	73.30
Q2 2011	NA	NA	NA	NA	NA	NA	NA	27.01
Q3 2011	NA	NA	NA	NA	NA	NA	NA	16.82
Q4 2011	NA	NA	NA	NA	NA	NA	NA	19.71
Q1 2012	NA	NA	NA	NA	NA	NA	NA	15.86
Q2 2012	NA	NA	NA	NA	NA	NA	NA	15.03
Q3 2012	NA	NA	NA	NA	NA	NA	NA	14.67
Q4 2012	NA	NA	NA	NA	NA	NA	NA	14.92
Q1 2013	NA	NA	NA	NA	NA	NA	NA	95.73
Q2 2013	NA	NA	NA	NA	NA	NA	NA	91.71
Q3 2013	NA	NA	NA	NA	NA	NA	NA	176.53
Q4 2013	NA	NA	NA	NA	NA	NA	NA	162.07
Q1 2014	NA	NA	NA	NA	NA	NA	NA	103.14
Q2 2014	NA	NA	NA	NA	NA	NA	NA	101.87
Q3 2014	NA	NA	NA	NA	NA	NA	NA	92.99
Q4 2014	NA	NA	NA	NA	NA	NA	NA	108.57
Q1 2015	NA	NA	NA	NA	NA	NA	NA	82.61
Q2 2015	NA	NA	NA	NA	NA	NA	NA	68.86
Q3 2015	NA	NA	NA	NA	NA	NA	NA	118.63
Q4 2015	NA	NA	NA	NA	NA	NA	NA	124.50
Q1 2016	NA	NA	NA	NA	NA	NA	NA	132.55
Q2 2016	NA	NA	NA	NA	NA	NA	NA	99.98
Q3 2016	NA	NA	NA	NA	NA	NA	NA	101.12
Q4 2016	NA	NA	NA	NA	NA	NA	NA	106.06
Q1 2017	NA	NA	NA	NA	NA	NA	NA	116.19
Q2 2017	NA	NA	NA	NA	NA	NA	NA	80.12
Q3 2017	NA	NA	NA	NA	NA	NA	NA	93.37
Q4 2017	NA	NA	NA	NA	NA	NA	NA	106.21
Q1 2018	NA	NA	NA	NA	NA	NA	NA	111.99
Q2 2018	73711.2	6.54	6540	278996.9	1824639673.7	1824.6	4.02	84.14
Q3 2018	44981.6	6.13	6130	170255.2	1043664404.2	1043.7	2.30	61.86
Q4 2018	35431.5	6.02	6020	134108.2	807331529.6	807.3	1.78	98.49
Q1 2019	31903.6	6.71	6710	120755.1	810266895.5	810.3	1.79	101.08
Q2 2019	25146.5	6.00	6000	95179.5	571077015.0	571.1	1.26	101.72
Q3 2019	24045.6	6.22	6220	91012.6	566098347.1	566.1	1.25	80.19
Q4 2019	21186.4	6.11	6110	80190.5	489964101.6	490.0	1.08	76.97
Q1 2020	17289.9	6.12	6120	65442.3	400506701.6	400.5	0.88	86.86

 Table 4

 Quarterly Calculation of Nitrate Removed and Total Volume of Water Pumped

		E Sheet		TW4-41				
Quarter	Total Pumped (gal)	Conc (mg/L)	Conc (ug/L)	Total Pumped (liters)	Total (ug)	Total (grams)	Total (pounds)	Removed by All Wells
Q2 2020	17294.9	6.78	6780	65461.1	443826399.0	443.8	0.98	85.95
Q3 2020	13411.4	6.69	6690	50762.3	339599536.5	339.6	0.75	81.69
Q4 2020	17765.7	6.25	6250	67243.3	420270313.8	420.3	0.93	89.15
Q1 2021	13407.5	6.41	6410	50747.3	325290026.0	325.3	0.72	88.22
Q2 2021	13168.7	7.45	7450	49843.5	371334294.8	371.3	0.82	91.09
Q3 2021	13821.0	3.77	3770	52312.4	197217640.4	197.2	0.43	56.81
Q4 2021	12449.1	6.72	6720	47119.7	316644076.6	316.6	0.70	97.29
Q1 2022	12247.8	6.20	6200	46357.9	287419122.6	287.4	0.63	54.84

Q3 2010 387262.28

20.3 3852.11

 Table 5

 Nitrate Date Over Time for MW-30, MW-31, MW-5, and MW-11

Date	MW-30	MW-31	MW-5	MW-11
Q2 2010	15.8	22.5	ND	ND
Q3 2010	15	21	NS	ND
Q4 2010	16	20	0.2	ND
Q1 2011	16	21	NS	ND
Q2 2011	17	22	0.2	ND
Q3 2011	16	21	NS	ND
Q4 2011	16	21	0.2	ND
Q1 2012	17	21	NS	ND
Q2 2012	16	20	0.1	ND
Q3 2012	17	21	NS	ND
Q4 2012	18.5	23.6	ND	ND
Q1 2013	21.4	19.3	NS	ND
Q2 2013	18.8	23.8	ND	ND
Q3 2013	17.6	21.7	NS	ND
Q4 2013	19.5	23.9	0.279	ND
Q1 2014	18.4	20.6	NS	ND
Q2 2014	19.4	23.1	ND	ND
Q3 2014	16.8	18.9	NS	ND
Q4 2014	16.2	20.9	0.21	ND
Q1 2015	14.9	18.7	NS	ND
Q2 2015	17.0	19.0	0.142	ND
23 2015	17.9	19.9	NS	ND
24 2015	16.3	18.4	0.118	ND
21 2016	20.0	18.8	NS	ND
Q2 2016	17.3	18.6	0.156	0.117
Q3 2016	18.0	19.7	NS	ND
24 2016	17.2	18.8	0.241	ND
Q1 2017	17.4	21.1	NS	ND
Q2 2017	17.5	18.3	0.133	ND
Q3 2017	19.2	19.5	NS	ND
Q4 2017	17.4	19.2	0.337	ND
Q1 2018	17.6	18.8	NS	ND
22 2018	17.3	19.0	0.216	ND
23 2018	18.0	20.1	NS	ND
Q4 2018	17.3	18.3	0.309	ND
Q1 2019	17.9	19.0	NS	ND
Q2 2019	18.5	19.7	0.260	ND
Q3 2019	19.3	19.8	NS	0.558
Q4 2019	18.2	19.8	0.235	0.160
Q1 2020	16.4	17.5	NS	0.308
Q2 2020	18.1	18.8	0.142	0.297
Q3 2020	18.4	19.2	NS	0.651
Q4 2020	16.8	19.2	0.191	0.933
Q1 2021	17.7	17.1	NS	1.21
Q2 2021	17.7	18.6	<0.100	0.948
Q2 2021 Q3 2021	20.6	18.7	NS	0.948
Q3 2021 Q4 2021	14.3	18.1	0.313	1.50
27 2021	14.5	10.1	0.313	1.50

ND = Not detected

NS = Not Sampled

TABLE 6Slug Test Results(Using KGS Solution and Automatically Logged Data)

Well	K (cm/s)	K (ft/day)
MW-30	1.0E-04	0.28
MW-31	7.1E-05	0.20
TW4-22	1.3E-04	0.36
TW4-24	1.6E-04	0.45
TW4-25	5.8E-05	0.16
TWN-2	1.5E-05	0.042
TWN-3	8.6E-06	0.024
	Average 1	0.22
	Average 2	0.15
	Average 3	0.32
	Average 4	0.31

Notes:

Average 1 = arithemetic average of all wells

Average 2 = geometric average of all wells

Average 3 = arithemetic average of MW-30, MW-31, TW4-22, and TW4-24

Average 4 = geometric average of MW-30, MW-31, TW4-22, and TW4-24

cm/s = centimeters per second

ft/day = feet per day

K = hydraulic conductivity

KGS = KGS Unconfined Slug Test Solution in AqtesolveTM.

TABLE 7 Pre-Pumping Saturated Thicknesses

Well	Depth to Brushy Basin (ft)	Depth to Water Fourth Quarter, 2012 (ft)	Saturated Thickness Above Brushy Basin (ft)
TW4-22	112	53	58
TW4-24	110	55	55

Notes:

ft = feet

TABLE 8Pre-Pumping Hydraulic Gradients and Flow Calculations

Pathline Boundaries	Path Length	Head Change	Hydraulic Gradient
	(ft)	(ft)	(ft/ft)
TW4-25 to MW-31	2060	48	0.023
TWN-2 to MW-30	2450	67	0.027
		average	0.025
		¹ min flow (gpm)	1.31
		² max flow (gpm)	2.79

Notes:

ft = feet

ft/ft = feet per foot

gpm = gallons per minute

¹ assumes width = 1,200 ft; saturated thickness = 56 ft; K = 0.15 ft/day; and gradient = 0.025 ft/ft

 2 assumes width = 1,200 ft; saturated thickness = 56 ft; K = 0.32 ft/day; and gradient = 0.025 ft/ft

Table 9 *Recalculated Background Flow

	Background Flow (gpm)	*Recalculated Background Flow (gpm)
minimum	1.31	0.79
maximum	2.79	1.67

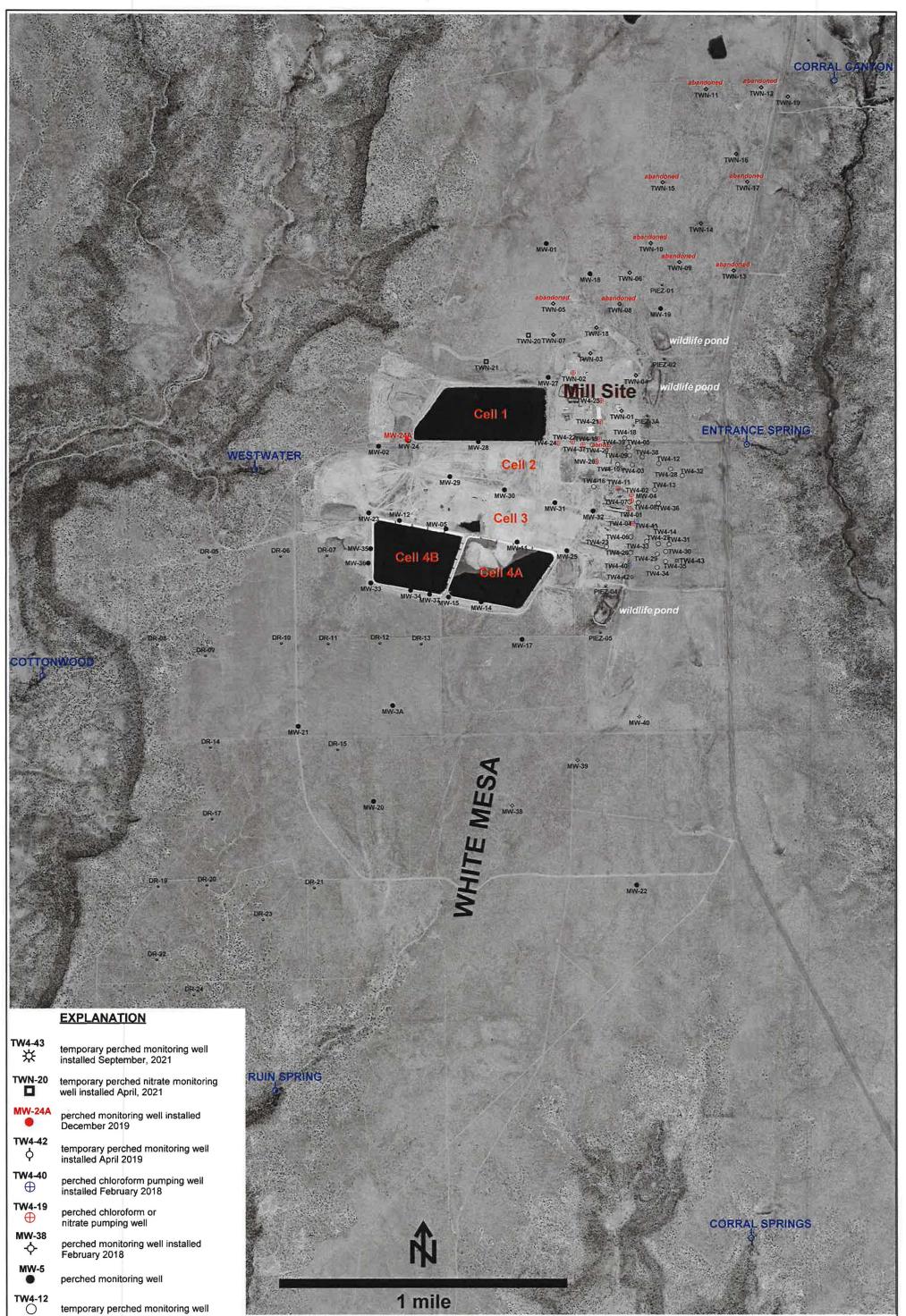
* recalculated based on reduced widlife pond recharge as presented in the third quarter, 2015 Nitrate Monitoring Report

gpm = gallons per minute

- Tab A Site Plan and Perched Well Locations White Mesa Site
- Tab B Order of Sampling and Field Data Worksheets
- Tab CKriged Current Quarter Groundwater Contour Map, Capture Zone Map, Capture Zone Details
Map, and Weekly, Monthly and Quarterly Depth to Water Data
- Tab D Kriged Previous Quarter Groundwater Contour Map
- Tab E Hydrographs of Groundwater Elevations over Time for Nitrate Monitoring Wells
- Tab F Depths to Groundwater and Elevations over Time for Nitrate Monitoring Wells
- Tab G Laboratory Analytical Reports
- Tab H Quality Assurance and Data Validation Tables
 - H-1 Field Data QA/QC Evaluation
 - H-2 Holding Time Evaluation
 - H-3 Analytical Method Check
 - H-4 Reporting Limit Evaluation
 - H-5 QA/QC Evaluation for Sample Duplicates
 - H-6 QC Control Limits for Analyses and Blanks
 - H-7 Receipt Temperature Evaluation
 - H-8 Rinsate Evaluation
- Tab I Kriged Current Quarter Isoconcentration Maps
- Tab J Analyte Concentration Data over Time
- Tab K Concentration Trend Graphs
- Tab L CSV Transmittal Letter
- Tab M Residual Mass Estimate Analysis Figure

.

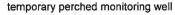
Site Plan and Perched Well Locations White Mesa Site









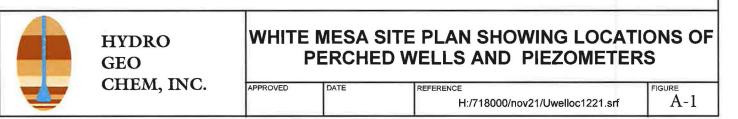


TWN-7 temporary perched nitrate monitoring well

PIEZ-1 perched piezometer 0

RUIN SPRING

6 seep or spring



Tab B

Order of Sampling and Field Data Worksheets

Nitrate Order 1st Quarter 2022

-		Nitrate	Samples		Quarter
Name	Nitrate Mg/L Previous Qrt.	Date/Purge		Depth	Total Depth
TWN-18	0.245	2/13/22	0957		145
TWN-20	0.286	2/16/22	0808		98.2
TWN-21	0.696	2/16/22	0818		108.65
TWN-04	1.27	2/15/22	1200		125.7
TWN-01	1.91	2/15/22	1234		112.5
TWN-07	7.66	2/16/22	0827		105
TWN-02	12.7	2/15/22	1315		96
TWN-03	17.4	2/16/22	0835		96

Ri	nsate Samp	les
Name	Date	Sample
VN- 18R	2/15/22	0825

 Duplicate of
 2/15/22
 0957

 DI Sample TWN-60
 2/15/22
 1400

 Plez-02
 ND
 2/16/22
 0%46

 Plez-01
 4.69
 2/16/22
 0900

 Piez-03A
 9.11
 2/16/22
 0915

Samplers: Janner H, Deen L



White Mesa Mill Field Data Worksheet For Groundwater

Location ID	PIEZ-01		
Field Sample ID	PIEZ-01_02162022		
Purge Date & Time	2/16/2022 8:58		
Sample Date & Time	2/16/2022 9:00		

Purging Equipment	Bailer
Pump Type	Grundfos
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

Sampling Program	Nitrate Quarterly		
Sampling Event	2022 Q1 Nitrate		
Sampler	TH/DL		
Weather Conditions	Sunny		
External Ambient Temperature (C)	4		
Previous Well Sampled	Piez-02		

Well Depth (ft)	107.50	
Well Casing Diameter (in)	1	
Depth to Water Before Purging (ft)	66.97	

		Conductivity					Dissolved	Before/
Date/Time	Gallons Purged	(umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Oxygen (%)	After
2/16/2022 9:00		2435	7.29	12.25	335	5.4	66.0	

Volume of water purged ()	
Final Depth to Water (feet)	68.14

Pumping Rate Calculations

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

Name of Certified Analytical Laboratory	
AWSL	

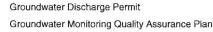
Analytical Samples Information

	Sample		Container			Preservative	
Type of Sample/Analysis	Collected?	Matrix	Number	Туре	Sample Filtered?	Туре	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

Comments:

Arrived on site at 0854. Samples bailed and collected at 0900. Water was mostly clear but had a few wood like particles floating. Left site at 0904.

Durrez Holliday





White Mesa Mill Field Data Worksheet For Groundwater

Location ID	PIEZ-02
Field Sample ID	PIEZ-02_02162022
Purge Date & Time	2/16/2022 8:45
Sample Date & Time	2/16/2022 8:46
Purging Equipment	Bailer
Pump Type	Grundfos
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

Sampling Program	Nitrate Quarterly 2022 Q1 Nitrate		
Sampling Event			

Sampler TH/DL

Weather Conditions	Sunny	
External Ambient Temperature (C)	2	
Previous Well Sampled	TWN-03	

Well Depth (ft)	100.00	
Well Casing Diameter (in)	1	
Depth to Water Before Purging (ft)	46.21	

		Conductivity					Dissolved	Before/
Date/Time	Gallons Purged	(umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Oxygen (%)	After
2/16/2022 8:45		954	7.49	12.40	303	1.7	18.5	

Volume of water purged ()	
Final Depth to Water (feet)	46.98

Pumping Rate Calculations

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

Name of Certified Analytica	I Laboratory
AWSL	

Analytical Samples Information

	Sample	Sample		ntainer	Sample	Preservat	ive
Type of Sample/Analysis	Collected?	Matrix	Number	Туре	Filtered?	Туре	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

Comments:

Arrived on site at 0842. Samples bailed and collected at 0846. Left site at 0849. Water was clear.

Durnez Holliday



White Mesa Mill Field Data Worksheet For Groundwater

Location ID		PIEZ-03A		Sampling Program		Nit	rate Quarterly	
Field Sample ID		PIEZ-03A_02162022	1	Sampling Event		2022 Q1 Nitrate		
Purge Date & Time		2/16/2022 9:13	1					
Sample Date & Time		2/16/2022 9:15]	Sampler			TH/DL	_
Purging Equipment		Bailer	1	Weather Conditions	3		Sunny	
Pump Type		Grundfos	1	External Ambient To	emperature (C)	5		
Purging Method		2 Casings	1			Piez-01		
Casing Volume ()			1					
Calculated Casing Volun	nes Purge Duration ()		1					
pH Buffer 7.0		7.0		Well Depth (ft) 79.		79.00		
pH Buffer 4.0		4.0	1	Well Casing Diameter (in) 1		1		
Specific Conductance (n	nicromhos)	1000]	Depth to Water Before Purging (ft) 53.93		53.93		
Date/Time	Gallons Purged	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/ After
2/16/2022 9:14		1276	7.32	12.10	341	80.3	104.2	

Volume of water purged ()	

Final Depth to Water (feet) 55.12

Pumping Rate Calculations

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

Name of Certified Analytical	Laboratory
AWSL	

Analytical Samples Information

Type of Sample/	Sample		Co	ntainer		Preserv	vative
Analysis	Collected?	Matrix	Number	Туре	Sample Filtered?	Туре	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

Comments:

Arrived on site at 0909. Samples bailed and collected at 0915. Water was murky. Left site at 0920.

Durner Holliday



White Mesa Mill Field Data Worksheet For Groundwater

Location ID	TWN-01		
Field Sample ID	TWN-01_0215202		
Purge Date & Time	2/15/2022 12:29		
Sample Date & Time	2/15/2022 12:34		

Purging Equipment	Pump
Pump Type	Grundfos
Purging Method	2 Casings
Casing Volume (gal)	23.99
Calculated Casing Volumes Purge Duration (min)	4.36
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Sampling Program	Nitrate Quarterly			
Sampling Event	2022 Q1 Nitrate			
Sampler	TH/DL			
Weather Conditions	Partly cloudy			
External Ambient Temperature (C)	12			
Previous Well Sampled	TWN-04			

Well Depth (ft)	106.13	
Well Casing Diameter (in)	4	
Depth to Water Before Purging (ft)	69.38	

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/ After
2/15/2022 12:31	22.00	937	7.58	15.16	274	2.5	45.0	
2/15/2022 12:32	33.00	922	7.49	15.16	291	2.2	47.0	
2/15/2022 12:33	44.00	932	7.42	15.16	296	2.3	48.0	
2/15/2022 12:34	55.00	941	7.37	15.14	313	2.3	46.0	

Volume of water purged (gals)

55.00

Final Depth to Water (feet)

101.48

Flow Rate (Q = S/60) (gal/min)	11.00
Time to evacuate 2 Casing Volumes (min)	5.00
Number of casing Volumes	2.00
Volume, if well evacuated to dryness ()	0

Name of Certified Analyti	ical Laboratory
AWSL	

Analytical Samples Information

	Sample		Container			Preservative	
Type of Sample/Analysis	Collected?	Matrix	Number	Туре	Sample Filtered?	Туре	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

Comments:

Arrived on site at 1225. Purge began at 1229. Purged well for a total of 5 minutes. Purge ended and samples collected at 1234. Water was clear. Left site at 1237.

Durner Holling



White Mesa Mill Field Data Worksheet For Groundwater

Location ID	TWN-02
Field Sample ID	TWN-02_02152022
Purge Date & Time	2/15/2022 13:14
Sample Date & Time	2/15/2022 13:15

Purging Equipment	Pump
Pump Type	Grundfos
Purging Method	2 Casings
Casing Volume (gal)	23.87
Calculated Casing Volumes Purge Duration ()	
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Sampling Program	Nitrate Quarterly	
Sampling Event	2022 Q1 Nitrate	
Sampler	TH/DL	
Weather Conditions	Partly cloudy	
External Ambient Temperature (C)	12	

TWN-07

Well Depth (ft)	95.90	
Well Casing Diameter (in)	4	
Depth to Water Before Purging (ft)	59.34	

Date/Time	Gallons Purged	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/ After
2/15/2022 13:15		2024	6.87	14.87	299	0	83.0	

Volume of water purged ()	
Final Depth to Water (feet)	90.34
Name of Certified Analytical Laboratory	
AWSL	

Pumping Rate Calculations

Previous Well Sampled

Flow Rate (Q = S/60) (gal/min)	16.00
Time to evacuate 2 Casing Volumes ()	
Number of casing Volumes	
Volume, if well evacuated to dryness ()	0

Analytical Samples Information

	Sample		Container				Preservative
Type of Sample/Analysis	Collected?	Matrix	Number	Туре	Sample Filtered?	Туре	Added?
Chloride	Y	WATER	1	500-mL Poly	U	None	N
				1		H2SO4	
		/	6			(pH<2), 4	
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	Deg C	Y

Comments:

Arrived on site at 1311. Samples collected at 1315. Water was clear. Left site at 1318.

Durner Holliday



Groundwater Discharge Permit

Groundwater Monitoring Quality Assurance Plan

White Mesa Mill Field Data Worksheet For Groundwater

Location ID	TWN-03		
Field Sample ID	TWN-03_0216202		
Purge Date & Time	2/15/2022 13:41		
Sample Date & Time	2/16/2022 8:35		

Purging Equipment	Pump
Pump Type	Grundfos
Purging Method	2 Casings
Casing Volume (gal)	34.46
Calculated Casing Volumes Purge Duration (min)	6.26
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Sampling Program	Nitrate Quarterly		
Sampling Event	2022 Q1 Nitrate		
Sampler	TH/DL		
Weather Conditions	Partly cloudy		
External Ambient Temperature (C)	12		
Previous Well Sampled	TWN-02		

Well Depth (ft)	96.00	
Well Casing Diameter (in)	4	
Depth to Water Before Purging (ft)	43.22	

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/ After
2/15/2022 13:45	51.33	2403	7.43	14.88	157	3.0	35.0	
2/16/2022 8:35		2334	7.12	12.45				Before
2/16/2022 8:36		2332	7.12	12.50	·			After

Volume of water purged (gals)	51.33

Final Depth to Water (feet) 94.07

Name of Certified Analytical Laboratory						
AWSL						
Analytical Samples Information						

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	11.00
Time to evacuate 2 Casing Volumes (min)	4.66
Number of casing Volumes	1.48
Volume, if well evacuated to dryness (gals)	51.33

	Sample		Container			Preser	rvative
Type of Sample/Analysis	Collected?	Matrix	Number	Туре	Sample Filtered?	Туре	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

Comments:

Arrived on site at 1337. Purge began at 1341. Purged well for a 4 minutes and 40 seconds. Purged well dry. Purge ended at 1345. Water was clear. Left site at 1349. Arrived on site at 0831. Depth to water was 43.60. Samples bailed and collected at 0835. Left site at 0837.

Durner Holliday



White Mesa Mill Field Data Worksheet For Groundwater

Location ID		TWN-04		Sampling Program			Nitrate Quarterly	
Field Sample ID		TWN-04_02152022		Sampling Event			2022 Q1 Nitrate	
Purge Date & Time		2/15/2022 11:51						
Sample Date & Time		2/15/2022 12:00		Sampler			TH/DL	
Purging Equipment		Pump		Weather Condition	e		Partly cloudy	
Pump Type		Grundfos		External Ambient 1			11	
Purging Method		2 Casings		Previous Well Sam			TWN-21	
Casing Volume (gal)		41.84		rioriodo fron dam	pica		10010 21	
Calculated Casing Volumes	s Purge Duration (min)	7.60						
pH Buffer 7.0	,	7.0		Well Depth (ft)			126.40	
pH Buffer 4.0		4.0		Well Casing Diameter (in)			4	
Specific Conductance (mic	romhos)	1000		Depth to Water Bet		62.32		
Date/Time	Gallons Purged (gal)	Conductivity (umhos/c	pH (pH m) Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before After
2/15/2022 11:57	66.00	1074	7.17	14.66	404	3.0	7.0	
2/15/2022 11:58	77.00	1069	7.17	14.66	408	3.1	6.7	
2/15/2022 11:59	88.00	1065	7.18	14.67	411	3.2	6.6	
2/15/2022 12:00	99.00	1061	7.18	14.66	414	3.2	6.8	
			Pumping R	ate Calculations				
Volume of water purged (ga	als)	99.00	Flow Rate (0	Q = S/60) (gal/min)			11.00	
			Time to eva	cuate 2 Casing Volume	es (min)		9.00	
Final Depth to Water (feet)		63.87	Number of c	Number of casing Volumes			2.00	
			Volume, if w	Volume, if well evacuated to dryness ()			0	
Name of Certified Analytica	al Laboratory							
AWSL								
Analytical Samples Informa	ation	Sample	1	Container	Sample	(Preservative	
The state	male (A solucia	Collected 2 Matri		Tune	- Sample	Tune	Fleseivative	2

	Sample		C	ontainer	Sample	Pr	reservative
Type of Sample/Analysis	Collected?	Matrix	Number	Туре	Filtered?	Туре	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

Comments:

Arrived on site at 1147. Purge began at 1151. Purged well for a total of 9 minutes. Purge ended and samples collected at 1200. Water was clear. Left site at 1203.

Durner Holliday



Groundwater Discharge Permit

Groundwater Monitoring Quality Assurance Plan

White Mesa Mill Field Data Worksheet For Groundwater

Location ID	TWN-07
Field Sample ID	TWN-07_02162022
Purge Date & Time	2/15/2022 13:01
Sample Date & Time	2/16/2022 8:27

Purging Equipment	Pump
Pump Type	Grundfos
Purging Method	2 Casings
Casing Volume (gal)	17.53
Calculated Casing Volumes Purge Duration (min)	3.18
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Sampling Program	Nitrate Quarterly		
Sampling Event	2022 Q1 Nitrate		
Sampler	TH/DL		
Weather Conditions	Partly cloudy		
External Ambient Temperature (C)	12		
Previous Well Sampled	TWN-01		
Well Depth (ft)	107.20		
Well Casing Diameter (in)	4		
Depth to Water Before Purging (ft)	80.35		
	Dissolved	Before/	

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/ After
2/15/2022 13:03	19.25	1830	7.58	14.92	281	0.5	88.0	
2/16/2022 8:27		1909	7.33	12.41				Before
2/16/2022 8:28		1916	7.39	12.48				After

Volume of water purged (gals)	19.25
-------------------------------	-------

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	11.00
Time to evacuate 2 Casing Volumes (min)	1.75
Number of casing Volumes	1.09
Volume, if well evacuated to dryness (gals)	19.25

Name of Certified Analyti	cal Laboratory
AWSL	

Analytical Samples Information

Final Depth to Water (feet)

	Sample		Co	ontainer	Sample	Preserv	vative
Type of Sample/Analysis	Collected?	Matrix	Number	Туре	Filtered?	Туре	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

Comments:

Arrived on site at 1257. Purge began at 1301. Purged well for a total of 1 minute and 45 seconds. Purged well dry. Water was clear. Purge ended at 1303. Left site at 1306. Arrived on site at 0823. Depth to water was 91.41. Samples bailed and collected at 0827. Left site at 0829.

105.31

Durner Holliday



White Mesa Mill Field Data Worksheet For Groundwater

Location ID	TWN-18
Field Sample ID	TWN-18_02152022
Purge Date & Time	2/15/2022 9:45
Sample Date & Time	2/15/2022 9:57
Purging Equipment	Pump
Pump Type	Grundfos
Purging Method	2 Casings
Casing Volume (gal)	55.22
Calculated Casing Volumes Purge Duration (min)	10.04
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Sampling Program	Nitrate Quarterly	
Sampling Event	2022 Q1 Nitrate	
Sampler	TH/DL	
Weather Conditions	Partly cloudy	
External Ambient Temperature (C)	5	
Previous Well Sampled	TWN-18R	

4	
62.43	
	4 62.43

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/ After
2/15/2022 9:54	99.00	2829	6.82	14.45	315	1.6	1.6	
2/15/2022 9:55	110.00	2829	6.83	14.43	314	1.5	1.5	
2/15/2022 9:56	121.00	2830	6.83	14.47	314	1.4	1.6	
2/15/2022 9:57	132.00	2829	6.83	14.44	313	1.4	1.6	

Volume of water purged (gals)	132.00
Final Depth to Water (feet)	63 75

Pumping Rate Calculations

Flow Rate (Q = S/60) (gal/min)	11.00
Time to evacuate 2 Casing Volumes (min)	12.00
Number of casing Volumes	2.00
Volume, if well evacuated to dryness ()	0

Name of Certified Analytical Laboratory	
AWSL	

Analytical Samples Information

	Sample		C	ontainer		Preserv	ative
Type of Sample/Analysis	Collected?	Matrix	Number	Туре	Sample Filtered?	Туре	Added?
Chloride	Y	WATER	1	500-mL Poly	υ	None	Ν
Nitrate/nitrite as N	Y	WATER	1	250-mL HDPE	U	H2SO4 (pH<2), 4 Deg C	Y

Comments:

Arrived on site at 0940. Purge began at 0945. Purged well for a total of 12 minutes. Purge ended and samples collected at 0957. Water was clear. Left site at 1000.

Durrez Holliday



White Mesa Mill Field Data Worksheet For Groundwater

Location ID	TWN-18R
Field Sample ID	TWN-18R_02152022
Purge Date & Time	
Sample Date & Time	2/15/2022 8:25

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

Sampling Program	
Sampling Event	2022 Q1 Nitrate
Sampler	TH/DL
Weather Conditions	
External Ambient Temperature ()	

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

Gallons Purged Conductivity						Dissolved	Before/	
Date/Time	(gal)	(umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Oxygen (%)	After
2/15/2022 8:23	133.00	3.7	8.30	8.89	149	1.8	48.6	

Volume of water purg	ged ()	

Final Depth to Water (feet)

Name of Certified Analytical Lab	ooratory
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

	Sample	Sample		Container		Container		Preserv	ative
Type of Sample/Analysis	Collected?	Matrix	Number	Туре	Sample Filtered?	Туре	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		

Comments:

Durner Holliday



White Mesa Mill Field Data Worksheet For Groundwater

Location ID	TWN-20		
Field Sample ID	TWN-20_02162022		
Purge Date & Time	2/15/2022 10:28		
Sample Date & Time	2/16/2022 8:08		

Purging Equipment	Pump
Pump Type	Grundfos
Purging Method	2 Casings
Casing Volume (gal)	13.34
Calculated Casing Volumes Purge Duration (min)	2.42
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Sampling Program	Nitrate Quarterly	
ampling Event 2022 Q1 Nitrate		
Sampler	TH/DL	
Weather Conditions	Partly cloudy	
External Ambient Temperature (C) 7		
Previous Well Sampled	TWN-18	

Well Depth (ft)	98.20	
Well Casing Diameter (in)	4	
Depth to Water Before Purging (ft)	77.76	

Date/Time	Gallons Purged (gal)	(umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Oxygen (%)	Before/After
2/15/2022 10:30	14.66	3037	7.36	14.73	170	0	0.9	
2/16/2022 8:08		2969	6.87	14.97				Before
2/16/2022 8:09		2974	6.90	14.97				After

Volume of water purged (gals)	14.66

Final Depth to Water (feet)	96.67

11.00
1.33
1.09
14.66

Name of Certified Analytical Laboratory	
AWSL	

Analytical Samples Information

	Sample		Container			Pres	ervative
Type of Sample/Analysis	Collected?	Matrix	Number	Туре	Sample Filtered?	Туре	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

Comments:

Arrived on site at 1024. Purge began at 1028. Purged well for a total of 1 minute and 20 seconds. Purged well dry. Purge ended at 1030. Water was clear. Left site at 1033. Arrived on site at 0804. Depth to water was 77.75. Samples bailed and collected at 0808. Left site at 0811.

Durner Holliday



White Mesa Mill Field Data Worksheet For Groundwater

Location ID	TWN-21
Field Sample ID	TWN-21_02162022
Purge Date & Time	2/15/2022 10:57
Sample Date & Time	2/16/2022 8:18

Purging Equipment	Pump
Pump Type	Grundfos
Purging Method	2 Casings
Casing Volume (gal)	19.42
Calculated Casing Volumes Purge Duration (min)	3.53
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Sampling Program	Nitrate Quarterly		
Sampling Event	2022 Q1 Nitrate		

Sampler TH/DL

Weather Conditions	Partly cloudy	
External Ambient Temperature (C)	8	
Previous Well Sampled	TWN-20	-

Well Depth (ft)	108.65	
Well Casing Diameter (in)	4	
Depth to Water Before Purging (ft)	78.90	

25.66

Date/Time	Gallons Purged (gal)	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/ After
2/15/2022 10:59	25.66	3765	6.94	14.61	300	1.9	99.0	
2/16/2022 8:18		3780	7.18	12.87				Before
2/16/2022 8:19		3767	7.17	12.85				After
			Pumping Rate	Calculations				
Volume of water purged	(gals)	25.66	Flow Rate (Q =	S/60) (gal/min)			11.	00
			Time to evacuat	e 2 Casing Volumes	s (min)		2.3	33
Final Depth to Water (fee	et)	107.21	Number of casin	g Volumes			1.3	32

Volume, if well evacuated to dryness (gals)

Name of Certified	Analytical Laboratory	
AWSL		

Analytical Samples Information

	Sample	1	Co	ontainer	Sample	Preservat	tive
Type of Sample/Analysis	Collected?	Matrix	Number	Туре	Filtered?	Туре	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

Comments:

Arrived on site at 1053. Purge began at 1057. Purged well for a total of 2 minutes and 20 seconds. Purged well dry. Purge ended at 1059. Water was clear. Left site at 1103. Arrived on site at 0814. Depth to water was 78.94. Samples bailed and collected at 0818. Left site at 0821.

Durner Holliday



White Mesa Mill Field Data Worksheet For Groundwater

Location ID	TW4-22
Field Sample ID	TW4-22_03092022
Purge Date & Time	3/9/2022 9:24
Sample Date & Time	3/9/2022 9:25

Purging Equipment	Pump
Pump Type	Grundfos
Purging Method	2 Casings
Casing Volume (gal)	26.98
Calculated Casing Volumes Purge Duration ()	
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Sampling Program	Chloroform Monitoring			
Sampling Event	2022 Q1 Chloroform			
Sampler	TH/DL			
Weather Conditions	Partly cloudy			
External Ambient Temperature (C)	0			
Previous Well Sampled	TW4-24			
· · · · ·				
Well Depth (ft)	114.70			
Well Casing Diameter (in)	4			
Depth to Water Before Purging (ft)	73.37			

Date/Time	Gallons Purged	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/Afte
3/9/2022 9:25		5503	6.87	14.18	360	0	90.0	

Volume of water purged ()				
Final Depth to Water (feet)	104.81			

Pur	Pumping	Rate	Calculations
	-	10	G 1001 / 1/ 1

Flow Rate (Q = S/60) (gal/min)	16.00
Time to evacuate 2 Casing Volumes ()	
Number of casing Volumes	
Volume, if well evacuated to dryness ()	0

Name of Certified Analytical Laboratory
AWSL

Analytical Samples Information

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

Comments:

Arrived on site at 0920. Samples collected at 0925. Water was clear. Left site at 0927.

Durner Holliday



White Mesa Mill Field Data Worksheet For Groundwater

Location ID	TW4-24
Field Sample ID	TW4-24_03092022
Purge Date & Time	3/9/2022 9:14
Sample Date & Time	3/9/2022 9:15

Purging Equipment	Pump
Pump Type	Grundfos
Purging Method	2 Casings
Casing Volume (gal)	27.92
Calculated Casing Volumes Purge Duration ()	
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Sampling Program	Chloroform Monitoring			
Sampling Event	2022 Q1 Chloroform			
Sampler	TH/DL			
Weather Conditions	Partly cloudy			
External Ambient Temperature (C)	0			
Previous Well Sampled	TW4-25			
Well Depth (ft)	114.80			
Well Casing Diameter (in)	4			
Depth to Water Before Purging (ft)	72.04			

16.00

0

Date/Time	Gallons Purged	Conductivity (umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Dissolved Oxygen (%)	Before/After
3/9/2022 9:15		7708	6.75	14.36	382	3.0	38.0	

Time to evacuate 2 Casing Volumes ()

Volume, if well evacuated to dryness ()

Pumping Rate Calculations Flow Rate (Q = S/60) (gal/min)

Number of casing Volumes

Volume of water purged ()	

Final Depth to Water (feet)

1	
	1

Name of Certified Analytical Laboratory					
AWSL					

Analytical Samples Information

	Sample		Container			Preservative	
Type of Sample/Analysis	Collected?	Matrix	Number	Туре	Sample Filtered?	Туре	Added?
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCI (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 0911. Samples collected at 0915. Water was clear but had tiny orange particles floating . Left site at 0917.

Durner Holliday



Sheet 30 of 49 White Mesa Mill Field Data Worksheet For Groundwater

Location ID	TW4-25	
Field Sample ID	TW4-25_03092022	
Purge Date & Time	3/9/2022 8:54	
Sample Date & Time	3/9/2022 8:55	

Purging Equipment	Pump
Pump Type	Grundfos
Purging Method	2 Casings
Casing Volume (gal)	44.78
Calculated Casing Volumes Purge Duration ()	
pH Buffer 7.0	7.0
pH Buffer 4.0	4.0
Specific Conductance (micromhos)	1000

Sampling Program	Chloroform Monitoring 2022 Q1 Chloroform		
Sampling Event			
Sampler	TH/DL		
Weather Conditions	Partly cloudy		
External Ambient Temperature (C)	-1		
Previous Well Sampled	TW4-21		

Groundwater Discharge Permit

Groundwater Monitoring Quality Assurance Plan

Well Depth (ft)	136.70		
Well Casing Diameter (in)	4		
Depth to Water Before Purging (ft)	68.11		

	1	Conductivity					Dissolved	
Date/Time	Gallons Purged	(umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Oxygen (%)	Before/After
3/9/2022 8:54		2603	7.01	14.48	322	0	34.1	

Volume of water purged ()	

Final Depth to Water (feet) 83.47

Pumping			
Flow Rate	(O =	S/60)	(nal/min)

Flow Rate (Q = S/60) (gal/min)	11.00
Time to evacuate 2 Casing Volumes ()	
Number of casing Volumes	
Volume, if well evacuated to dryness ()	0

Name of Certified Analytical Laboratory	
AWSL	

Analytical Samples Information

	Sample		Co	ontainer		Preserva	tive
Type of Sample/Analysis	Collected?	Matrix	Number	Туре	Sample Filtered?	Туре	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 0850. Samples collected at 0855. Water was clear. Left site at 0857.

Durner Holliday



White Mesa Mill Field Data Worksheet For Groundwater

Location ID	TWN-60		
Field Sample ID	TWN-60_02152022		
Purge Date & Time	2/15/2022 14:00		
Sample Date & Time	2/15/2022 14:00		

Purging Equipment	Pump
Pump Type	Grundfos
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

Sampling Program	Nitrate Quarterly			
Sampling Event	2022 Q1 Nitrate			
Sampler	TH/DL			
Weather Conditions	Partly cloudy			
External Ambient Temperature (C)	12			
Previous Well Sampled	TWN-03			

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

		Conductivity					Dissolved	Before/
Date/Time	Gallons Purged	(umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Oxygen (%)	After
2/15/2022 14:00		4.6	7.67	14.25	225	0	49.0	

Volume of water purged ()	

Pumping Rate Calculations

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

Name of Certified Analytical Laboratory	
AWSL	

Analytical Samples Information

Final Depth to Water (feet)

	Sample		Со	ntainer	Sample	Preserv	ative
Type of Sample/Analysis	Collected?	Matrix	Number	Туре	Filtered?	Туре	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

Comments:

DI sample was collected in the lab at 1400. Left lab at 1403.

Jurner Holliday



Groundwater Discharge Permit

Groundwater Monitoring Quality Assurance Plan

White Mesa Mill Field Data Worksheet For Groundwater

Location ID	TW4-60		
Field Sample ID	TW4-60_03092022		
Purge Date & Time	3/9/2022 12:29		
Sample Date & Time	3/9/2022 12:30		

Purging Equipment	Pump
Pump Type	Grundfos
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

Sampling Program	Chloroform Monitoring			
Sampling Event	2022 Q1 Chloroform			
Sampler	TH/DL			
Weather Conditions	Partly cloudy			
External Ambient Temperature (C)	8			

TW4-19

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

		Conductivity					Dissolved	
Date/Time	Gallons Purged	(umhos/cm)	pH (pH Units)	Temp (deg C)	Redox (mV)	Turbidity (NTU)	Oxygen (%)	Before/After
3/9/2022 12:30		3.8	7.76	16.18	186	0	15.7	

Previous Well Sampled

Volume of water purged ()	

Final Depth to Water (feet)

Pumping	Rate	Calcu	lations
---------	------	-------	---------

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

Name of Certified Analytical Laboratory
AWSL

Analytical Samples Information

	Sample		Co	ntainer		Preservat	tive
Type of Sample/Analysis	Collected?	Matrix	Number	Туре	Sample Filtered?	Туре	Added?
VOCs-Chloroform	Y	WATER	3	40ml VOA	U	HCI (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:

DI blank was taken from the lab at 1230. Left site at 1233.

Jurner Holliday



White Mesa Mill Field Data Worksheet For Groundwater

Location ID	TWN-65	Sampling Program			
Field Sample ID	TWN-65_02152022	Sampling Event	2022 Q1 Nitrate		
Purge Date & Time					
Sample Date & Time	2/15/2022 9:57	Sampler	TH/DL		
Purging Equipment		Weather Conditions			
Pump Type		External Ambient Temperature ()			
Purging Method		Previous Well Sampled			
Casing Volume ()					
Calculated Casing Volumes Purge Duration ()					
pH Buffer 7.0		Well Depth (ft)			
pH Buffer 4.0		Well Casing Diameter ()			
Specific Conductance ()		Depth to Water Before Purging (ft)			

							Dissolved	Before/
Date/Time	Gallons Purged	Conductivity	рH	Temp	Redox	Turbidity	Oxygen	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

	Sample		(Container		Preserv	ative
Type of Sample/Analysis	Collected?	Matrix	Number	Туре	Sample Filtered?	Туре	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

Comments:

Duplicate of TWN-18

Jurner Holliday

Tab C

Kriged Current Quarter Groundwater Contour Map, Capture Zone Map, Capture Zone Details Map, and Weekly, Monthly and Quarterly Depth to Water Data

Name: Tanner Holliday, Deen Lyman Date: 2/10/2022

Date	Time	Well	Depth to Water (ft.)	Date	Time	Well	Depth to Water (ft.)	Date	Time	Well	Depth to Water (ft.
2/10/2022	910	MW-01	64.91	2/10/2022	1253	MW-04	82.63	2/10/2022	852	PIEZ-01	67.33
2/10/2022	816	MW-02	109.56	2/10/2022	1250	TW4-01	105.14	2/10/2022	846	PIEZ-02	46.47
2/10/2022	1025	MW-03A	83.98	2/10/2022	1302	TW4-02	111.20	2/10/2022	843	PIEZ-03A	54.31
2/10/2022	835	MW-05	108.15	2/10/2022	1423	TW4-03	65.08	2/10/2022	943	PIEZ-04	68.03
2/10/2022	843	MW-11	85.34	2/10/2022	1245	TW4-04	74.03	2/10/2022	948	PIEZ-05	66.63
2/10/2022	830	MW-12	109.57	2/10/2022	1417	TW4-05	72.47	2/10/2022	1444	TWN-01	69.71
2/10/2022	923	MW-14	101.73	2/10/2022	1243	TW4-06	79.55	2/10/2022	1429	TWN-02	58.60
2/10/2022	926	MW-15	105.32	2/10/2022	1256	TW4-07	83.13	2/10/2022	834	TWN-03	43.49
2/10/2022	1018	MW-17	72.22	2/10/2022	1259	TW4-08	85.64	2/10/2022	840	TWN-04	62.62
2/10/2022	906	MW-18	73.89	2/10/2022	1415	TW4-09	70.47	2/10/2022	903	TWN-06	80.74
2/10/2022	849	MW-19	66.27	2/10/2022	1411	TW4-10	69.83	2/10/2022	913	TWN-07	80.36
2/10/2022	1332	MW-20	86.65	2/10/2022	1306	TW4-11	90.11	2/10/2022	855	TWN-14	59.25
2/10/2022	1315	MW-22	66.53	2/10/2022	1350	TW4-12	56,33	2/10/2022	858	TWN-16	47.76
2/10/2022	825	MW-23	113.91	2/10/2022	1348	TW4-13	57.25	2/10/2022	837	TWN-18	62.65
2/10/2022	1207	MW-24A	110.83	2/10/2022	1342	TW4-14	77.34	2/10/2022	1429	TWN-19	54.10
2/10/2022	1204	MW-24	109.82	2/10/2022	1309	TW4-16	73.97	2/10/2022	914	TWN-20	77.94
2/10/2022	850	MW-25	81.68	2/10/2022	1440	TW4-18	73.53	2/10/2022	918	TWN-2J	79,13
2/10/2022	1231	MW-26	76.41	2/10/2022	1452	TW4-19	71.27	2/10/2022	1418	DR-05	83.11
2/10/2022	1214	MW-27	58.30	2/10/2022	1437	TW4-21	71.74	2/10/2022	1415	DR-06	94.02
2/10/2022	1155	MW-28	74.55	2/10/2022	1221	TW4-22	69,65	2/10/2022	743	DR-07	91.82
2/10/2022	811	MW-29	107.07	2/10/2022	1234	TW4-23	76.20	2/10/2022	1410	DR-08	51.32
2/10/2022	806	MW-30	75.32	2/10/2022	1218	TW4-24	71.39	2/10/2022	1407	DR-09	86.50
2/10/2022	912	MW-31	69,43	2/10/2022	1434	TW4-25	66.84	2/10/2022	1404	DR-10	78.45
2/10/2022	916	MW-32	82.58	2/10/2022	1237	TW4-26	74.42	2/10/2022	1047	DR-11	97.95
2/10/2022	750	MW-33	DRY	2/10/2022	1320	TW4-27	79.15	2/10/2022	1039	DR-12	DRY
2/10/2022	933	MW-34	107.30	2/10/2022	1353	TW4-28	49.76	2/10/2022	1033	DR-13	69.65
2/10/2022	802	MW-35	112.25	2/10/2022	1339	TW4-29	78.76	2/10/2022	1400	DR-14	76.14
2/10/2022	758	MW-36	110.48	2/10/2022	1326	TW4-30	75.18	2/10/2022	1327	DR-15	92.81
2/10/2022	930	MW-37	106.12	2/10/2022	1323	TW4-31	76.22	2/10/2022	1356	DR-17	64.65
2/10/2022	1319	MW-38	70,22	2/10/2022	1356	TW4-32	56.61	2/10/2022	1346	DR-19	63.23
2/10/2022	1322	MW-39	64.60	2/10/2022	1316	TW4-33	78.55	2/10/2022	1343	DR-20	55,65
2/10/2022	1009	MW-40	79.85	2/10/2022	1336	TW4-34	77.08	2/10/2022	1336	DR-21	100.58
				2/10/2022	1329	TW4-35	75.57	2/10/2022	1353	DR-22	DRY
1W-26 = TV	V4-15			2/10/2022	1344	TW4-36	58.50	2/10/2022	1339	DR-23	70.40
1W-32 = TV				2/10/2022	1225	TW4-37	69.12	2/10/2022	1350	DR-24	44.50
Comments:	,			2/10/2022	1420	TW4-38	60.50				
				2/10/2022	1228	TW4-39	70.51				
				2/10/2022	1240	TW4-40	72.11				
				2/10/2022	1240	TW4-41	90.01				
				2/10/2022	1312	TW4-41	70.25				
			3	2/10/2022	1312	TW4-42	73.41				

Date 1-4-21

÷

Ī.

Name Deen Gr Lyman Tonner Hallichay

Tin		Depth*	Comments	System Operational (If no no any problems/corrective actions
094	53 MW-4	80.90	Flow 4.0	No
			Meter 315 3140576.18	No No
nar	6 MW-26	98,18		No No
pere la	up	1 10110	Meter 655584.4	NO NO
114	TW4-19	99.86	Flow 16.0	No No
11-7:	2 1.11 . 12	99196	Meter 31:04408.8	NO NO
NA	TW4-20	NA	Flow NA	Yes Mb
- BA			Meter NA	Yes MB
1012	TW4-4	87.50	Flow	
fine		81.50	Meter 788958.1	No No
0819	TWN-2	58.82		
0819	11114-2		Meter 114432,62	No No
	TIALA 00			
0846	TW4-22	- She fall allow a	Flow 16.4	Xess No
			Meter 853463,5	No No
0827	TW4-24		Flow 16.0	Yes No
			Meter 1820301.41	View No
0812	TW4-25	- La - La - La - La - La	Flow 12.0	X No
			Meter 1033786.33	Xes No
1959	TW4-1		-low 12.8	No No
		N	Meter 385209.3	No No
942	TW4-2	111.66 F	Flow 16.2	No No
		A	Aeter 470780.5	No No
927	TW4-11	91.01 F	low 16.0	No No
1.1			leter (935,92	No No
ent	TW4-21	77.65 F	low 1612	No No
003			leter 2886323.81	View No
	TW4-37			
852	111-51		low 18.0	No No
159 1	FW4-39		IOW 18.0	Yes No
			eter 895842.2	No No
18 T	W4-40		OW (8,0	Xee No
		M	eter 928646.52	No No
05 T	W4-41		ow 4.8	Kes No
			eter 375014.52	No No
arational	Problems (Pl	ease list well nur	mber): $f_{W} 4 - 20 $	

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

Date 1-10-22

Name Deen G-Lyman, To

many Tanner Holliclay

Time	Well	Depth*	Comments	System Operational (If no not any problems/corrective actions)
0931	MW-4	81.71	Flow 4.0	No
			Meter 31469 38.77	Kara No
0910	MW-26	77,12	Flow 16.0	Yes No
			Meter 657423.8	Ver No
1140	TW4-19	90.18	Flow 16.0	No No
			Meter 3113800.1	No
NA	TW4-20	NA	Flow NA	Yes the
			Meter NA	Yes the
0948	TW4-4	85.36	Flow 16.0 -	Xee No
			Meter 789745.1	No No
0828	TWN-2	61.40	Flow 16,2	Xee No
			Meter 115527.28	Yes No
0853	TW4-22	67.16	Flow 16.8	No No
			Meter 854948.9	Yes No
0848	TW4-24	65.65	Flow 16.2	Yes No
0070		62.67	Meter 1827205,77	Yes No
0823	TW4-25	66.31	Flow 10.4	
10000		44.5	Meter 1039549,17	Ver No
0937	rW4-1	105.13	Flow 14.0	
792/		103.13	Meter 385759,3	No No
1	W4-2		PP1	
2925	VV4-2		How 16.0 Meter 471459.9	Vass No
	W4-11		AND 1	
918 1	VV4-11		How 16.0 Meter 7035.14	No Var No
				Yange No
815 T	W4-21	- ALLAN	Flow 16.0	X No
			Meter 2892712.25	No No
858 T	W4-37		Flow 18,0	Yess No
			Veter 2115423.2	No No
905 T	N4-39		low 18.0	Xes No
	NA 40		Meter 89767.88	No No
955 TI	v4-40		Flow 18,0	No No
942 TV	V4-41		Neter 932209.66	Ver No
1741			Neter 375809,27	No No
		ease list well n		

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

Date _____2

Name Deen Glyman Tonner Hollichor

Tin	and the second s	Depth'	Comments	System Operational (If no not any problems/corrective actions)
095	3 MW-4	82.10	Flow 4.0	Xee No
			Meter 3154468.14	YERS NO
091	7 MW-26	83.50	Flow 16.0	Yes No
			Meter 659780.4	Kans No
105	o TW4-19	72,37	Flow 15.6	No No
			Meter 3124535,3	No No
NA	TW4-20	NA	Flow NA	Yes Ma
			Meter NA	Yes Ma
1011	TW4-4	85,70	Flow 16.4	Yes No
			Meter 790423.6	Yes No
0847	TWN-2	56,93	Flow 16.0	No No
			Meter 116758.66	Xaas No
0859	TW4-22	70.17	Flow 16.0	View No
			Meter 8566666.7	Yes No
0853	TW4-24	66.82	Flow 16,2	Xes No
0853	100121	(e.c. D.d.	Meter 1835009.95	Yes No
	TW4-25	1		
0838	1117-20	66.31	Meter 1046353,22	Vess No
0959	TW4-1	106.63	Flow 12,8	Ves No
0939		100.05	Meter 386400.6	No No
	TW4-2			
0440	1114-2	111.14	Flow 16.4 Meter 472336.8	Yess No
	TW4-11			
936	1 4 4 - 1 1	89,75	Flow 16.0 Meter 7159.33	No No
	744.04			
7826	TW4-21		Flow 16.4	Xee No
			Meter 2899823.43	No No
904	TW4-37		Flow 18.0	Yes No
	TW4-39		Meter 2118851.4	Yes No
911	1 44-39	- Children	How 18.0 Meter 901970.0	Yess No
120 1	FW4-40		Flow 18.0	Vers No
			Meter 936362.57	No No
1 200	W4-41	89.11	Flow (e. 0	No No
		1	Veter 376729.19	No No
perational	l Problems (Pl	ease list well n	/ up-pro-prove-	
			(Abandoned)	

Date 1-24-22

Name Deen & Lymon, Jonner Holliday

Tin	ne <u>Well</u>	Depth*	Comments	System Operational (If no not any problems/corrective actions
071	8 MW-4	81,12	Flow 4.0	Yes No
			Meter 3161753.51	View- No
070	2 MW-26	85,27	Flow 16.4	No
		_	Meter 6819 661913.9	No No
081	y TW4-19	12,22		Xee No
			Meter 3135558.3	Yes No
NA	TW4-20	NA	Flow NA	Yes Mas
-			Meter NA	Yes Ma
073	5 TW4-4	82.57	Flow 16,4 -	Yess No
			Meter 791243.9	Yes No
0620	TWN-2	88.81	Flow 16.0	Yese No
			Meter 118017.22	X No
0645	TW4-22	67.14	Flow 16.2	X No
		_	Meter 858355.3	Xee No
0639	TW4-24	66,20	Flow 16.0	Yase No
			Meter 1842718,29	No No
0614	TW4-25	72.09	Flow 10.4	Xes No
			Meter 1053120.38	Yes No
0723	TW4-1	103.15	Flow 12.8	Years. No
			Meter 387031.2	Yes No
713	TW4-2	110.86	Flow 16.4	Yaas No
			Meter 473202.5	Ken No
707	TW4-11	90.01	Flow 16.0	No No
			Meter 7377.97	No No
602	TW4-21		Flow 16.4	No No
VU.A.		the second s	Meter 2906767.64	No No
651	TW4-37		Flow 18.0	Yes No
651		10,10	Meter 2122170.3	Yes No
656	TW4-39		Flow 18,0	Yes No
			Veter 904020.9	Yer No
742	FW4-40		low 18-0	No No
		1-	Meter 940474.44	No No
130	FW4-41	- M. H. L. C.	Flow 6.0	No No
orotiona	I Dioblome (D	lease list well n	Meter 377777,76	YESTE No
GIAUUIIA	FIUDIellis (F		umber): (Tw4-20 Abandoned	1

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

Monthly Depth Check Form

Dete		wonuny Dep			
Date /	-27-22		Name į	Deen 6- Ly	many Tanner Halliday
Time	14/-11	Death	T !	14/-11	
Time	<u>Well</u>	<u>Depth*</u>	<u>Time</u>	<u>Well</u>	Depth*
1323	MW-4	82.50	1447	TWN-1	69.79
1320	TW4-1	101.23	1433	TWN-2	58.30
1326	TW4-2	93.74	0845	TWN-3	43.85
1341	TW4-3	65.05	0840	TWN-4	62.97
1316	TW4-4		0853	TWN-7	80.36
1349	TW4-5	72.53	0835	TWN-18	63.06
1313	TW4-6	79.55	1429	MW-27	58.30
1332	TW4-7	83.17	1424	MW-30	15.28
1335	TW4-8	85.65	1420	MW-31	69.43
1346	TW4-9	70.43			
1352	TW4-10	69,82			
1329	TW4-11	90.34			
1248	TW4-12	56.35			
1245	TW4-13	57.24	1251	TW4-28	49.77
1239	TW4-14	77.35	1237	TW4-29	78.78
1356	TW4-15	73.33	1223	TW4-30	75.15
1तात	TW4-16	73.93	1220	TW4-31	76,20
1417	TW4-17	82.54	1254	TW4-32	56.65
1443	TW4-18	73.62	1215	TW4-33	78,53
0730	TW4-19	72,34	1233	TW4-34	77.07
NA	TW4-20		1225	TW4-35	75.47
LHHO	TW4-21	70.13	1243	TW4-36	58.41
1407	TW4-22	79.75	1403	TW4-37	78.92
1307	TW4-23	76.10	1343	TW4-38	60.52
140	TW4-24	83.06	1359	TW4-39	73.65
1436	TW4-25	66.95	1339	TW4-40	72.11
1304	TW4-26	74.37	1318	TW4-41	89.83
1218	TW4-27	79.08	1212	TW4-42	70.25
		•	1230	TW4-43	73.38
Comme	nts: (Please	note the well g		or any com	nents)
	(Tw 4-20	Abandoned		-	
			/		

.

Date 2-1-22

Name Deen Glyman

Tin	ne Well	Depth'	Comments	System Operational (If no no any problems/corrective actions
104	1	81.23	Flow 4.0	Kes No
		0.1.8.3	Meter 31705721.1	Yes No
	8 MW-26			
1025	10100-20	76.67	How [6.0 Meter 6645]1.0	Yes No
	TWA 40	_		
1149	5 TW4-19	74,12	Flow ?	Yes Mo
			Meter 3140584.3	Yes also
NA	TW4-20	NA	Flow NA	Yes Me
			Meter NA	Yes Mo
1102	TW4-4	89,77	Flow 16.0 -	Yes No
			Meter 792219.4	No
0956	TWN-2	58.33	Flow 16.0	Yes No
	5// C		Meter 119585.68	Yess No
101Ò	TW4-22	-	In the second se	
1010	1 44-22	72.08	A Martine and A Ma	Yes No
			Meter 840360.8	Xee No
1004	TW4-24	79.42	Flow 16.2	Yes No
			Meter 1850769.50	Yes No
0949	TW4-25	66.20	Flow 10.4	No No
			Meter 1061266.63	No
1051	TW4-1	105.86	Flow \$2.6	Yes No
1031		103.00	Meter 387775.3	Yes No
	TIALA O			
1040	TW4-2	109.28	Flow 16.4	Yese No
			Meter 474438.0	Kaase No
033	TW4-11		Flow 16.0	Yes No
			Meter 7406.87	Yees No
942	TW4-21	75.71	Flow IG. 4	Xes No
110			Meter 2914935.73	Yes No
	TWA 27			
216	TW4-37		Flow 18.0 Meter 2126093.2	Yess No
	FW4-39			
22 1	1 1 1 - 3 3		1.41.0	Yees No
	W4-40		Meter 907600.0	Yes No
10 1	VV4-40		-low 18.0 Meter 945308.77	Yes No
T	W4-41			No No
57 T			-low 6.0 Neter 378887.72	No No
erational	Problems (Ple	ease list well n		leter was not functioning)
rrective A	Action(s) Taker	n (Please lis t w	vell number): (Tw 4-19) Re	placed meter Exactioning
orrective A	Action(s) Taker		vell number): (Twe 4-19) Repr	placed meter, Functioning

Ð

Date a-7-22

Name **J** Tanner Hollichay Leen Colyman

Tim	e <u>Well</u>	Depth*	Comments	System Operational (If no not any problems/corrective actions
0940	MW-4	81.76	Flow 4.0	No
			Meter 3176855.88	X NO
0918	MW-26	78.17	Flow 14.8	Yes No
		1011	Meter 666431.4	No No
1135	TW4-19	72.61	Flow 12.8	Ves No
-		a	Meter 6385.43	Xee No
NA	TW4-20	NA	Flow NA	Yes Me
			Meter NA	Yes Ma
0959	TW4-4	85.91	Flow 16.4	No No
Personal Andrews	1		Meter 792988,9	Vest No
0835	TWN-2	58.18	Flow 16.0	Xes No
2052		20110	Meter 120669.38	NO NO
	TW4-22			
0857	144-22	70.11	Meter 861796.9	No Verso No
				Ver No
0850	TW4-24	66.59	Flow 16.0	Yes No
			Meter 1856237.41	No No
0828	TW4-25	- LE LL -	Flow 12.0	No No
			Meter 1067128.71	No No
0948	TW4-1	- include	Flow 12.0	Yesse No
			Meter 388300.2	No No
1935	TW4-2		Flow 12.8	No No
			Meter 475092.1	X No
929	FW4-11	89.89	Flow 15.4	Yes No
			Meter 7505.46	No No
820 7	W4-21	70.13	Flow 16.2	X No
ony		and the second se	Meter 2921083.11	Ver No
7	W4-37		Flow 18:0	
902 1		72.56	Meter 2128869,4	Yess No
910 T	W4-39		Flow 18:0	Xee No
10			Aeter 910226.1	Yes No
7 T 700	W4-40	72.03 F	low 18.0	Yes No
		N	leter 948889.06	YEES NO
954 T	W4-41	and the second division of the second divisio	low 6.0	No No
		IN IN	leter 379616.62	No No

Abardaned

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

* Depth is measured to the nearest 0.01 feet.

Date ______

Name Deen Colyman, Tonger Ho

Janer Holliday

Tin	ne Well	Depth*	Comments	System Operational (If no not any problems/corrective actions)
085	3 MW-4	82.26		No
			Meter 3184216,22	No No
082	9 MW-26	73.24	Flow 16.0	X No
			Meter 668773,3	No No
1140) TW4-19	89.19	Flow (G.O	No
			Meter 14926.22	No No
NA	TW4-20	NA	Flow NA	Yes Ma
	_		Meter NA	Yes 🐲
0911	TW4-4	86.20	Flow 16.0 -	Yes No
			Meter 793758.8	No No
0759	B TWN-2	59.31	Flow 16.0	Kens No
			Meter 0121886,69	Xees No
0811	TW4-22	73.06	Flow 16.0	Xase No
			Meter 863410.6	Ver No
0806	TW4-24	79.56	Flow 16.0	Xes No
			Meter 1862680.07	X No
0749	TW4-25	66.20	Flow 10.8	Xes No
			Meter 1074275,14	Xee No
2858	TW4-1	105.60	Flow 12.8	Vee No
			Meter 388911.0	No No
7841	TW4-2	111.45	Flow 16,4	Ver No
			Meter 475953.9	Yes No
835	TW4-11	89.78	Flow 15.4	Yes No
			Meter 7629.29	No No
733	TW4-21	75,35	Flow 16.0	Xee No
			Meter 2927922.11	Yes No
817	TW4-37		Flow 18.0	Xess No
			Vieter 2132160.1	Xes No
822	TW4-39		Flow 18.0	Xee No
			Meter 913083.0	No No
125	TW4-40		Flow 18.0	No No
		1.	Neter 952877.36	No No
105	W4-41	- Contraction of the second se	10W 6.0 Neter 390567.93	No Vors No

Operational Problems (Please list well number):

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

Date ______

Name Deer G Lymon, Tanner Holliday

Tim	miletry Annual Annua	Depth'		System Operational (If no not any problems/corrective actions
090	0 MW-4	82.01	Flow 4.0	X No
			Meter 3191826.02	No No
1092	5 MW-26	73.61	Flow 16.0	Ves No
1000		12.61	Meter 671057.9	No No
12.0	5 TW4-19		C Plant	
1200	11144-18	85.15	las.	Xees. No
	744.00			Xae No
AN	TW4-20	NA	Flow NA	Yes Me
			Meter NA	Yes 🐅
0926	TW4-4	78.50	Flow 16.0 -	No No
		_	Meter 794506.0	No No
0741	TWN-2	58.71	Flow 16.0	Xee No
			Meter 123179.04	Yes No
0804	TW4-22	69.88	Flow 16.0	Xes No
UAUT		67.82	Meter 845226.0	Yess No
0751	TW4-24	6le. 95	Flow 16.0	Yes No
			Meter 1868540.29	No No
0733	TW4-25	69.13	Flow 10,4	Xes No
			Meter 1081276.25	Yes No
911	TW4-1	104.15	Flow 12.8	Yes No
			Meter 389549.0	Xes No
1842	TW4-2	110.10	Plane -	Ver N-
184d	11176	110.19	Meter 476878.0	No No
	714/4 44			
831	TW4-11	89,10	Flow 14.0	No No
			Meter 7740.17	Vane No
127	TW4-21		Flow 16.2	Xes No
			Meter 2935066.48	Yans- No
000	TW4-37		Flow 18.0	··· Yes No
809			Meter 2135447.8	No No
814 7	W4-39		Flow 18.0	Ver No
			Meter 916776.2	Yess No
733 T	W4-40		Flow 18.0	Vers No
123			Meter 957029,35	Value No
120T	W4-41		Flow 6.0	Xes No
Inv !!			Meter 381555.54	Vere No

Abandoned

٩

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

* Depth is measured to the nearest 0.01 feet.

Date 3-1-22

Name Deer Chyman

Tin	and the second s	Depth*	Comments	System Operational (If no not any problems/corrective actions)
093	15 MW-4	82.00	Flow 4,0	No
			Meter 3 20 65 (8.22	No No
090	05 MW-26	80.55	Flow 16.2	No No
			Meter 673697.2	No No
1230	TW4-19	72.82	Flow 15.6	No No
			Meter 334 49.08	No No
NA	TW4-20	NA	Flow NA	Yes 📂
			Meter NA	Yes 🚧
094	6 TW4-4	80.12	Flow 16.0 -	Xee No
			Meter 795413.1	Vae No
0833	TWN-2	57,91	Flow 16.0	Yes No
			Meter 124512.41	Kas No
084	5 TW4-22	70.22	Flow 16.2	No No
		· · · · ·	Meter 867186.0	Yes No
AHA	TW4-24	65.38	Flow 16.0	Xee No
<u>v (r) v</u>			Meter 1874942.19	No
0927	TW4-25	69,41	Flow 10.4	X No
*			Meter 1089212,96	Kana No
0932	TW4-1	106,66	Flow 13.2	Vee No
			Meter 390261.0	No No
918	TW4-2	109.40	Flow 16.2	No No
			Meter 47780.18	No No
912	TW4-11	90.57	Flow 14.6	No No
			Meter 7985.55	Xee No
1920	TW4-21	76.14	Flow (6,4	X No
(DAU			Meter 2943150.25	Yes No
051	TW4-37		Flow 18.0	Xee No
851			Meter 2139365.8	No
857	TW4-39		Flow 18.0	No No
			Meter 919671.1	No No
203	TW4-40		Flow 18.0	Yes No
		1.	Meter 961720.28	Yes No
940	TW4-41	محجود ومسالية المشيحة المشيك المتكرك	Flow 6.0 Meter 382763.42	Yess No

Operational Problems (Please list well number):

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

Date 3-4-22

Name Deen Glyman Tonner Helli on

System Operational (If no note

Time	No. And Address of the Owner, or other	Depth	<u>Comments</u>	any problems/corrective actions)
0935	: MW-4	81.75		No No
			Meter 3214446.17	Mans No
0841	MW-26	74.44	Flow 16.0	No No
			Meter 677879.4	No No
1150	TW4-19	72.47	Flow 12.8	See No
		_	Meter 49325.84	See No
NA	TW4-20	NA	Flow NA	Yes the
S			Meter NA	Yes 🌆
0955	TW4-4	88.86	Flow 16.0 -	Ying No
			Meter 796903.7	Yess No
0811	TWN-2	58,50	Flow 16.0	Yes No
			Meter 126950.08	Yes No
0823	TW4-22	72.98	Flow 16.4	No No
			Meter \$70376.0	Yes No
0818	TW4-24	69.91	Flow 16,2	Yes No
1010			Meter 1883804,37	No No
2803	TW4-25	69.82	Flow 10,8	Yes No
		1 anan	Meter 1102888.08	Yer No
1942	FW4-1	107.76	Flow 12,8	No No
			Meter 391424.0	No No
930 T	W4-2	115.35	Flow 16.0	Ver No
1.10			Meter #79447.2	No No
924 T	W4-11	90,03	Flow 14.8	No No
10-1			Meter 8194.45	No No
754 T	W/4-21		F/	
754	11721		Meter 2956271.04	No No
	MA 97			
328 T	vv4-3/		Flow 18,0 Meter 2145413,9	Vess No Vess No
133 TI	N4-39		Flow 18.0	Yans No
		- Series	Meter 924472.0	No No
O, TV	V4-40		Flow 18.0	Yes No
			Meter 969382,58	No No
49 TV	V4-41	90.67	Flow 6.0	No No
			Neter 384485.54	No No

Operational Problems (Please list well number):

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

Date 3-7-22

Name Decelotyman, Tanar Hollidar

Tir	ne Well	Depth*	Comments	System Operational (If no not any problems/corrective actions)
Ino		82.60	Flow 4.0	No
inter a		0.0.00	Meter 3207018.99	No No
094	a MW-26	73.25		No No
1035		- 13.63	Meter 6155 35.7	Vers No
121	- TW4-19	74.44	Flow 14.8	No No
			Meter +0824.40	Yas No
NA	TW4-20	NA	Flow NA	Yes the
Lisa			Meter NA	Yes Mo
1020	TW4-4	\$3.83	Flow 16.0 -	No No
HUA		63.85	Meter 796128.2	No No
	TWN-2	58.62	I mu	
0900		58.61	Meter 125614,44	Vers No
	TH/4 00		1	
0909		72.53	Flow 16.2	No No
0909			Meter 868668.8	No No
0918	TW4-24	71,34	Flow 16-0	X No
			Meter 1879375.04	No No
0853	TW4-25	66.18	Flow 10:8	No No
			Meter 1096246.15	No No
1010	TW4-1	106.66	Flow 13.6	No No
			Meter 390807.3	No No
2955	TW4-2	98.76	Flow 16.0	No No
			Meter 478664.4	No No
	TW4-11		Flaur	
949			Meter 8090.62	No No
846	TW4-21	and the second se	Flow 16.4	Xae No
			Meter 2949201.25	No No
925	TW4-37		Flow 18.0	Xee No
			Meter 2142122.9	X No
931	TW4-39		Flow 18,0	Yas No
			Veter 921993.2	No No
033	TW4-40		Flow 18.D	No No
			Meter 965256.32	No No
217	TW4-41	THE THE	Flow 6.0	No No
			Meter 383501,40	Yes No

Operational Problems (Please list well number):

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

Monthly Depth Check Form Date 3-10-22 Name Decn G Lyman, Tamer Halling					
Date 3	-10-22		Name j	Deen G Lyn	an Tanner Hallislay
<u>Time</u> 0955	<u>Well</u> MW-4	<u>Depth*</u> _ <u>\$2,\$0</u>	<u>Time</u> ।५०५	<u>Well</u> TWN-1	Depth* 49.58
1008	TW4-1	105,25	1336	TWN-2	58,30
0958	TW4-2 TW4-3	110.99	1332	TWN-3 TWN-4	43.55
0943	TW4-3 TW4-4	64.79	1327	TWN-7	62.42
1011 0933	TW4-5	86.33	1314	TWN-18	<u>80.41</u> 62.43
1014	TW4-6	79.26	1309	MW-27	57.85
0950	TW4-7	83.02	1259	MW-30	74.90
0947	TW4-8	85.41	1252	MW-31	69.11
0936	TW4-9	70.14			
0929	TW4-10	69.46			
1004	TW4-11	90.50			
1207	TW4-12	56.00		TW4-28	
1203	TW4-13 TW4-14	56,88	1212	TW4-28 TW4-29	49.35
1155	TW4-14 TW4-15	77.11	1058	TW4-29	78.65
0919	TW4-16	<u>83.08</u> 73.70	1045	TW4-31	74.86
1230	TW4-17	82.21	1215	TW4-32	<u> 15.87</u> 56.28
1349	TW4-18	73.29	1030	TW4-33	78.42
0850	TW4-19	72.20	1053	TW4-34	76.86
NA_	TW4-20	NA	1048	TW4-35	75.33
1346	TW4-21	\$5.80	H59_	TW4-36	58.15
0906	TW4-22	72.85	DAIL	TW4-37	70,04
1017	TW4-23	75.94	0939	TW4-38	60.10
0902	TW4-24	74.17	0915	TW4-39	73.12
13420	TW4-25	49.60	1024	TW4-40	72.35
2919	TW4-26 TW4-27	83.04	1007	TW4-41 TW4-42	105.25
1035_	1 VV4-2 <i>1</i>	78,79	1027	Tw4-42	<u>10.07</u> <u>13.10</u>

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

Weekly Inspection Form

Date 3-21-22

Name Deen Colyman Towner Holling

Tim	ne Well	Depth	Comments	System Operational (If no not any problems/corrective actions)
095	6 MW-4	82.17	Flow 4.0	See No
			Meter 3722177.00	No
084	o MW-26	85.22	Flow 16.2	Yars No
		0/LAD	Meter 680010.4	Yes No
1015	TW4-19	69,10	Flow 15.4	Yes No
			Meter 57976.83	Yes No
NA	TW4-20	NA	Flow NA	Yes Ma
			Meter NA	Yes Mo
0916	TW4-4	87.33	Flow 16.0 -	Views No
			Meter 797796.5	No No
0812	TWN-2	58.82	Flow 16.0	No No
	l.		Meter 128100.98	Yese No
0824	TW4-22	69.18	Flow 16.2	Yes No
Vent		0.1.18	Meter \$72080.6	Yas No
	TW4-24	_	Flow	
0818	1004-24	73.57	1.50.114	No No
	THULOF		Meter 1887365.75	
0803	TW4-25	66.90	Flow 10.8	No No
	TIALA		Meter 1110287-86	Yang No
0903	TW4-1	108.64	Flow 11.8	No No
14			Meter 392015.0	Yess No
0851	TW4-2	110.28	Flow 16.0	Yess No
			Meter 480392/8	No No
1845	TW4-11	<u></u>	Flow 141.8	Yes No
			Meter \$211.87	No No
0758	TW4-21	74.45	Flow 16.2	No No
			Meter 2963230.66	No No
829	TW4-37		Flow 18.0	Yes No
			Meter 21-18719.9	Yes No
834 1	FW4-39	71.44	Flow 18,0	No No
-			Meter 9260112 5	Yes No
950 T	W4-40	78:49 1	Flow 18.0	No No
			Meter 973486.44	No
rio T	W4-41		Flow 6.0	No No
		I	Meter 385 349.31	No No

Operational Problems (Please list well number):

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

* Depth is measured to the nearest 0.01 feet.

Weekly Inspection Form

Date 3-28-22

Name Deen Colyman

Time	Well	Depth*		System Operational (If no not any problems/corrective actions)
1227	MW-4	81.42	Flow 4.0	Wes No
			Meter 3229496.88	Yes No
1210	MW-26	85.80	Flow 16.0	Res No
france		1 02100	Meter 682436.7	Yes No
1320	TW4-19		Flow 15.8	
1340		72.69	Meter 66564.17	No No
	TW4-20		1.000	
NA	1117-20	NA	A de de la	Yes Me Yes Me
	704/4 4		1811	
1243	TW4-4	77.78	Flow 16.0 -	No
			Meter 798565,3	No No
0718	TWN-2	61.91	Flow 14,2	No No
			Meter 129446.44	Yess No
0829	TW4-22	68.22	Flow 16.0	No No
sua			Meter 873789.0	No No
	TW4-24		Plane I	
0823	1 44-24	66,80	10,0	No
			Meter 1890528,13	No -
0712 7	W4-25	73.16	Flow 10.8	Yes No
			Meter 1117551.76	Mars. No
233 T	W4-1	105.60	Flow 16.0	No No
			Meter 392658.6	Yes No
221 T	W4-2	108.09	Flow 16.2	Tes No
aart			Meter 481295.0	No No
	W4-11		P1	110
216 1	VV 49-) I		Meter 8320,32	No No
				Yiers No
706 T	N4-21	Concession of the local division of the loca	Flow 16,0	No No
			Meter 29-10152.36	Yes No
835 TV	V4-37	66.17	Flow 18.0	Yes No
	e.		Meter 2151926,1	Yes No
842 TV	V4-39	68.55	Flow 18.0	No No
			Meter 929630.9	Yes No
150 TM	V4-40	72.34	Flow 19.0	Years No
		- All and a second s	Meter 977441,44	No No
138 TH	/4-41	90.13 F		
				Ying No
			Aeter 386249.12	

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

* Depth is measured to the nearest 0.01 feet.

1

Weekly Inspection Form

Date 4-4-22

Name Deen & Lyman, Tonner Holliday

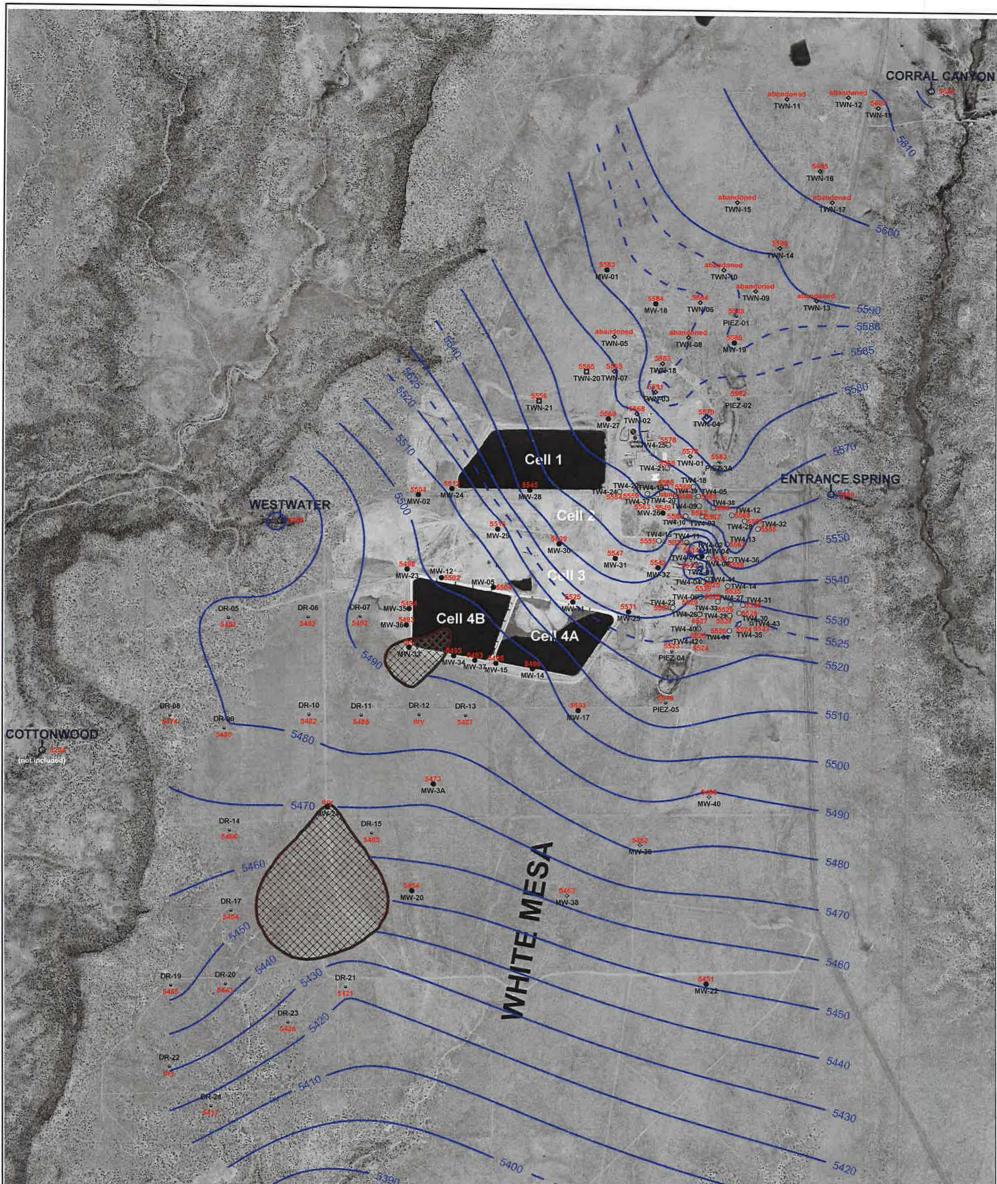
e <u>Well</u>	Depth*	Comments	System Operational (If no not any problems/corrective actions)
3 MW-4	82.05	Flow 4.0	No No
		Meter 3236967.48	Yes No
, MW-26	72.77	Flow 16.4	No No
		Meter 684697,7	Sie No
TW4-19	72.13	Flow 12.0	No
		Meter 76033.67	Yes No
TW4-20	NA	Flow NA	Yes 🌆
		Meter NA	Yes Mo
TW4-4	89.47	Flow 16.0 -	Xees No
		Meter 799392.2	Yans No
TWN-2	58.84	Flow 16.0	No
		Meter 130621.31	Mee No
TW4-22	73.33	Flow 16.2	No No
		Meter 875577.1	Yese. No
TW4-24	66.50	Flow 16.0	No No
	1		Yes No
TW4-25	69.11	EI.	Xee No
			No No
TW4-1		Flow 12.8	No No
		Meter 393461.1	Yes No
TW4-2	98.35	Flow 16.4	No No
			Yes No
TW4-11		F1	No No
	and the second sec		No No
TW4-21			Ver No
		1.001.30	No No
TW4-37			
			No No
TW4-39			No No
		Meter 931392.4	No No
W4-40	72.17 F	Flow IB.0	No No
	1.		THE NO
W4-41	- Advantation of the second se	Neter 387262.35	Vers No
	MW-4 MW-26 MW-26 TW4-19 TW4-20 TW4-20 TW4-20 TW4-20 TW4-21 TW4-21 TW4-21 TW4-37 W4-39	MW-4 82.05 MW-26 72.77 TW4-19 72.13 TW4-20 NIA TW4-20 NIA TW4-4 89.47 TW4-2 73.33 TW4-24 66.50 TW4-25 69.21 TW4-2 98.35 TW4-11 90.69 TW4-21 91.66 TW4-37 72.17 W4-39 73.25 W4-40 72.17	MW-4 S2.05 Flow 4.0 Meter 3236867.48 MW-26 72.77 Flow 16.4 Meter 236867.78 TW4-19 72.17 Flow 12.0 Meter 76.033.67 TW4-19 72.17 Flow 12.0 TW4-19 72.17 Flow 12.0 Neter 76.033.67 TW4-20 NIA Flow 12.0 Neter NA TW4-20 NIA Flow NA Neter NA TW4-20 NIA Flow 16.0 - Meter 93.92.12 TWA Neter NA TW4-20 NIA Flow 16.0 - Meter 130.62 1.131 - - - TW4-20 S.8.94 Flow 16.0 - - TW4-22 73.33 Flow 16.0 - - - TW4-24 66.50 Flow 16.0 <td< td=""></td<>

Se ...

Operational Problems (Please list well number):

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

* Depth is measured to the nearest 0.01 feet,



EXPLANATION



estimated dry area

TW4-43 ☆ 5523

temporary perched monitoring well installed September, 2021 showing elevation in feet amsl

TWN-20 temporary perched nitrate monitoring well installed April, 2021showing 5565 elevation in feet amsl

TW4-42 temporary perched monitoring well installed April, 2019 showing **\$5524** elevation in feet amsl

MW-38

 W-38
 perched monitoring well

 ∲ 5463
 installed February, 2018 showing
 elevation in feet amsl

MW-5

5504 perched monitoring well showing elevation in feet amsl

TW4-12

05568 temporary perched monitoring well showing elevation in feet amsl

TWN-7

WN-7 temporary perched nitrate monitoring well showing elevation in feet amsl

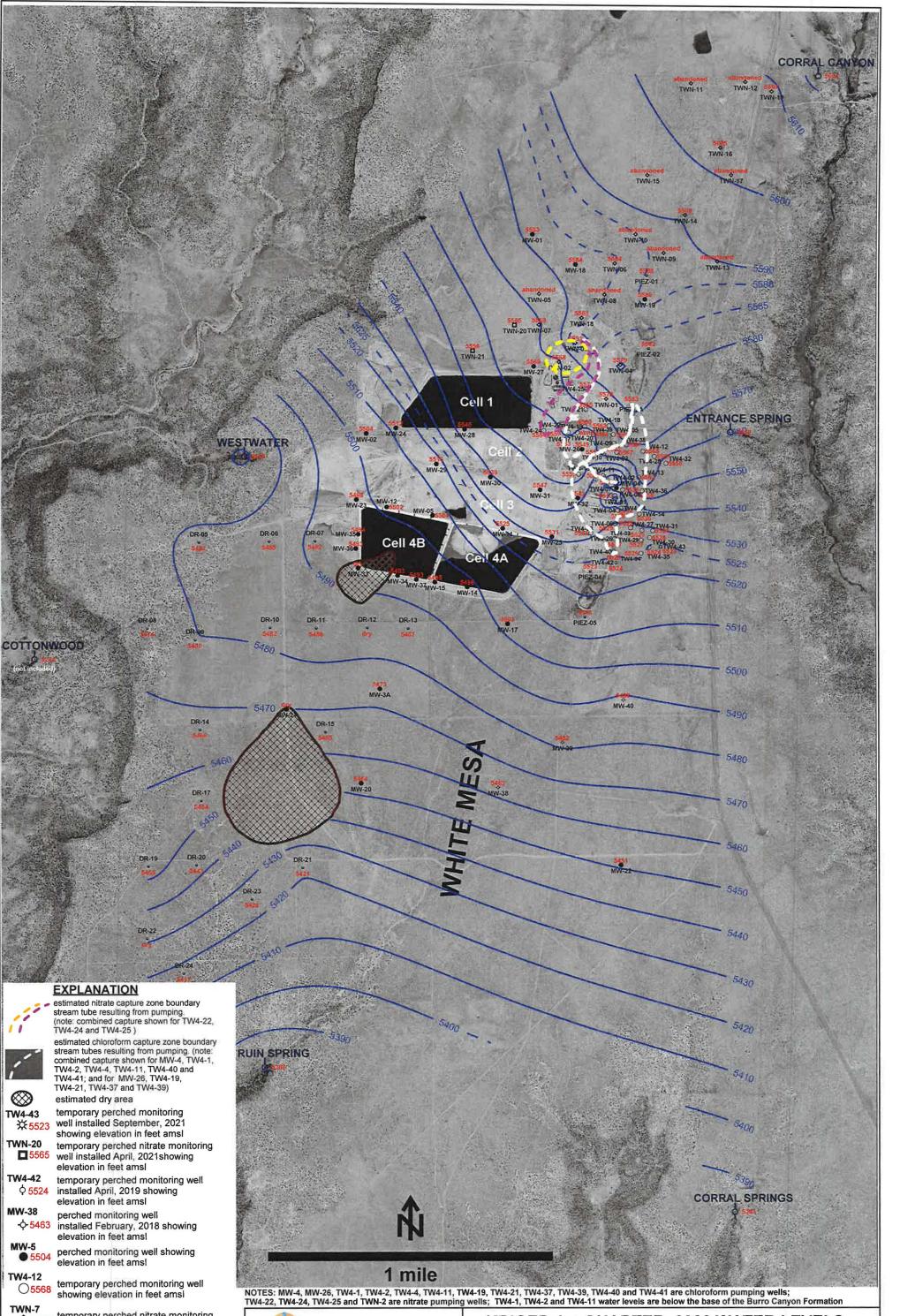
PIEZ-1 perched piezometer showing ● 5588 elevation in feet amsl

RUIN SPRING

5380 seep or spring showing elevation in feet amsl

				Setto	
	and the second			5400	
				CORRAL SPRINGS	1.2
THE YOU DAY THINK HE PERCENTIAN WATER AND A					
	Î			5005	
	Ŵ				
NOTES: MW-4, MW-2	1 mile 6, TW4-1, TW4-2, TW4-4, TW 4-25 and TWN-2 are pitrate p	4-11, TW4-19, TW4-21, TW4-37, 1	TW4-39, TW4-40 and TW4-41	are chloroform pumping wells;	ation
NOTES: MW-4, MW-2 TW4-22, TW4-24, TW	6, TW4-1, TW4-2, TW4-4, TW	4-11, TW4-19, TW4-21, TW4-37, 1 umping wells; TW4-1, TW4-2 an	d TW4-11 water levels are be	C 508	

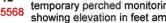
H:	17	180	000/	may	22/	WL	U\	w10322.	srf



HYDRO

GEO





temporary perched nitrate monitoring **\$**5569 well showing elevation in feet amsl

PIEZ-1 perched piezometer showing ➡ 5588 elevation in feet amsl

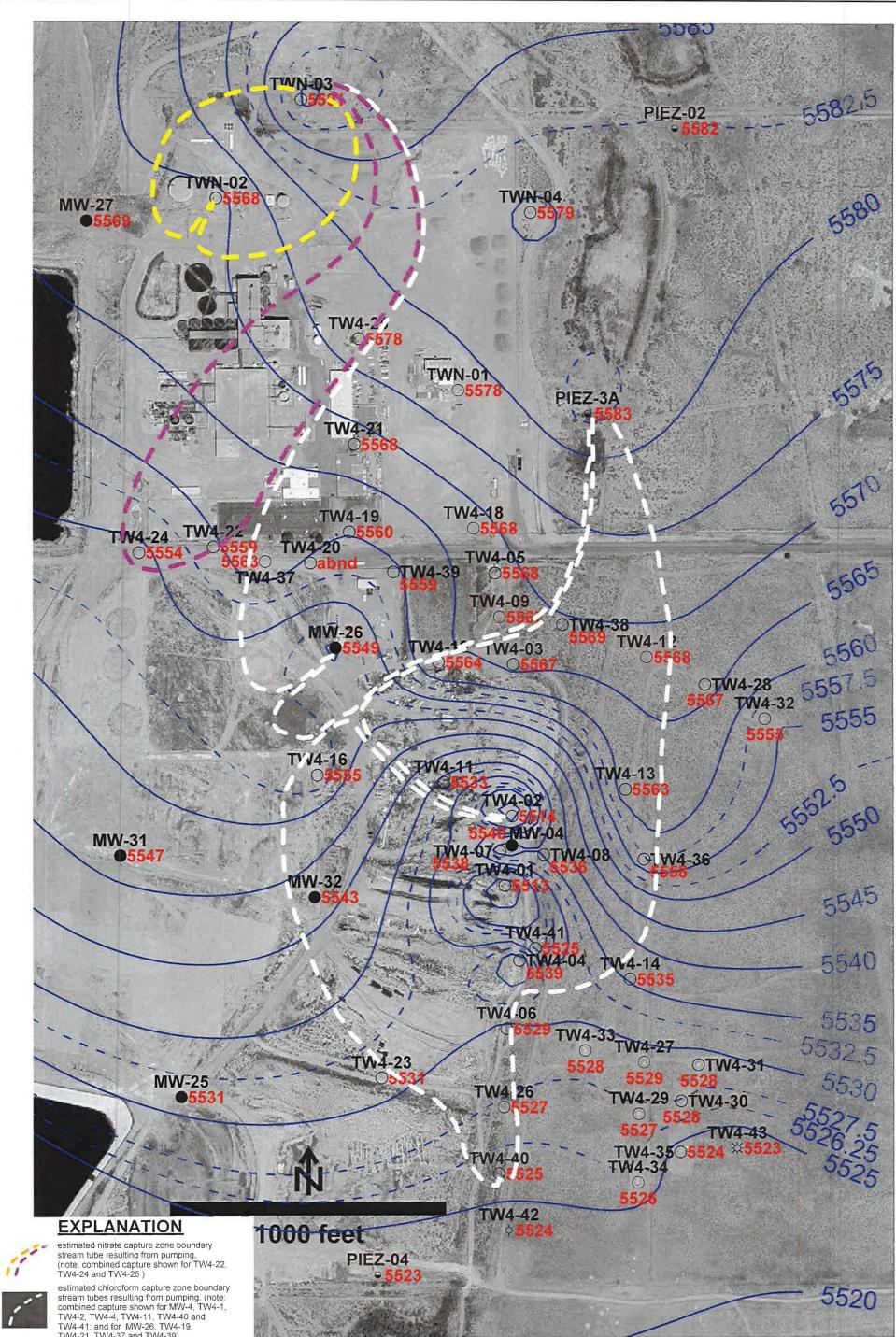
RUIN SPRING

\$ 5380 seep or spring showing elevation in feet amsl

KRIGED 1st QUARTER, 2022 WATER LEVELS AND ESTIMATED CAPTURE ZONES WHITE MESA SITE CHEM, INC. APPROVED DATE REFERENCE FIGURE

H:/718000/may22/WL/Uwl0322NTcz2.srf

C-2



NOTES: MW-4, MW-26, TW4-1, TW4-2, TW4-4, TW4-11, TW4-19, TW4-21, TW4-37, TW4-39, TW4-40 and TW4-41 are chloroform pumping wells; TW4-22, TW4-24, TW4-25 and TWN-2 are nitrate pumping wells; TW4-1, TW4-2 and TW4-11 water levels are below the base of the Burro Canyon Formation

HYDRO GEO	KF	AND ESTI	UARTER, 2022 WATER LEVELS MATED CAPTURE ZONES VHITE MESA SITE (detail map)	6
CHEM, INC.	APPROVED	DATE	REFERENCE H:/718000/may22/WL/Uw0322NTcz.srf	FIGURE

TW4-2, TW4-4, TW4-11, TW4-40 and TW4-41; and for MW-26, TW4-19, TW4-21, TW4-37 and TW4-39)



installed September, 2021 showing elevation in feet amsl temporary perched monitoring well installed April, 2019 showing elevation in feet amsl

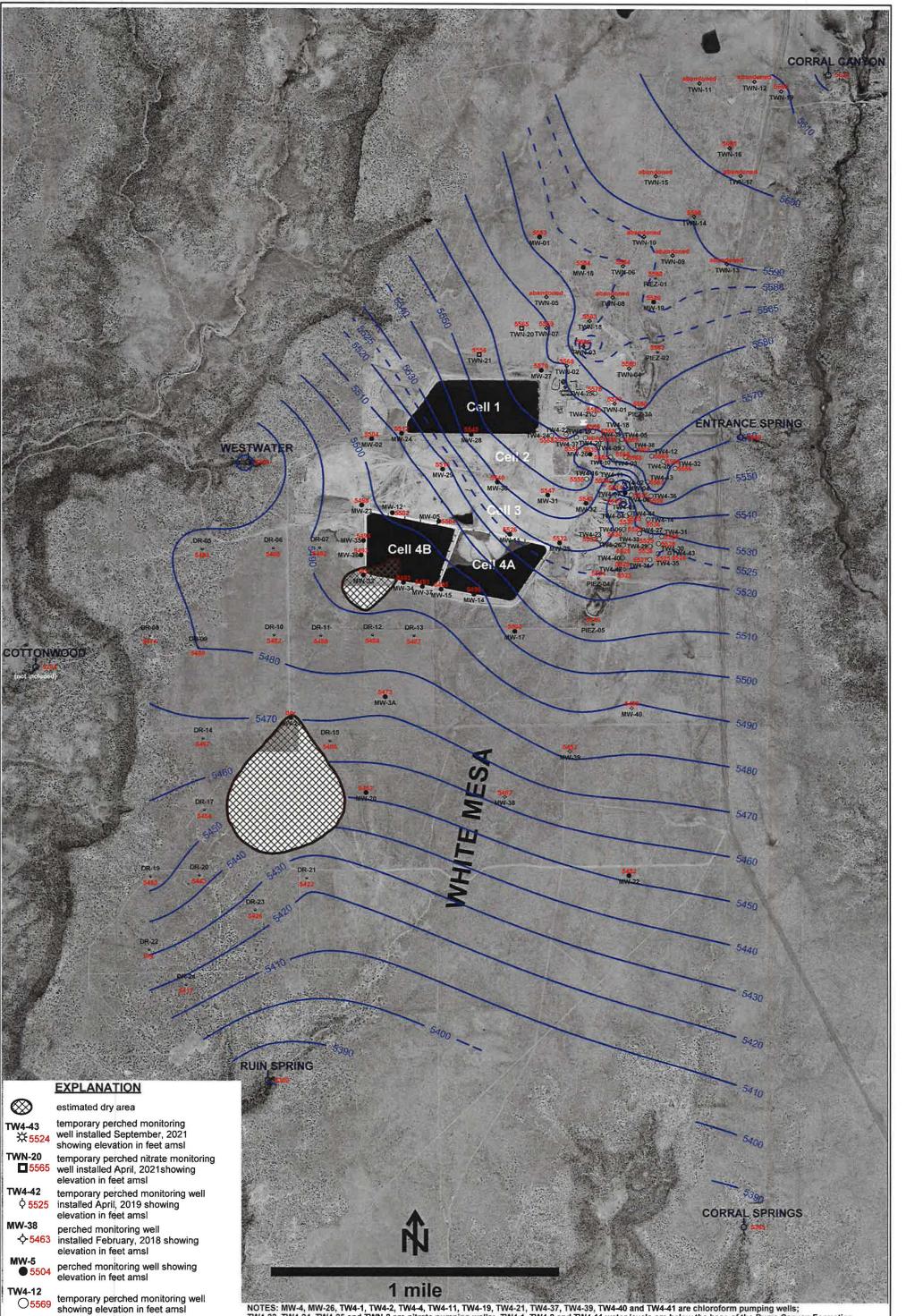
perched monitoring well showing elevation in feet amsl

temporary perched monitoring well showing elevation in feet amsl

perched piezometer showing elevation in feet amsl

Tab D

Kriged Previous Quarter Groundwater Contour Map









TWN-7

temporary perched nitrate monitoring well showing elevation in feet amsl **\$5569**

PIEZ-1

PIEZ-1perched piezometer showing● 5588elevation in feet amsl

RUIN SPRING

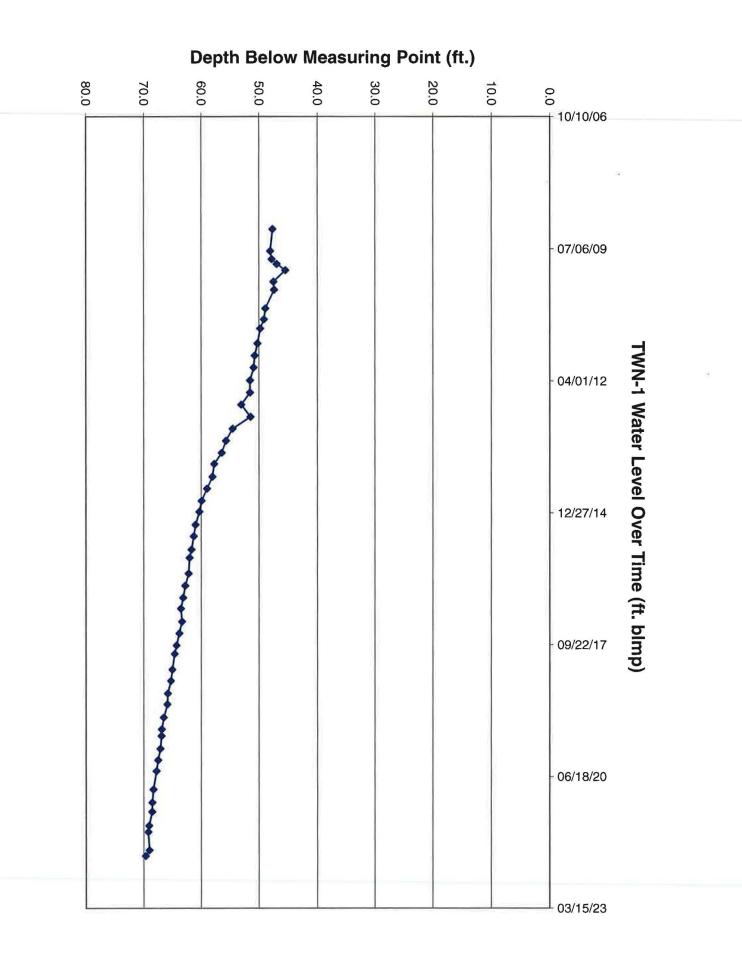
5380 seep or spring showing elevation in feet amsl

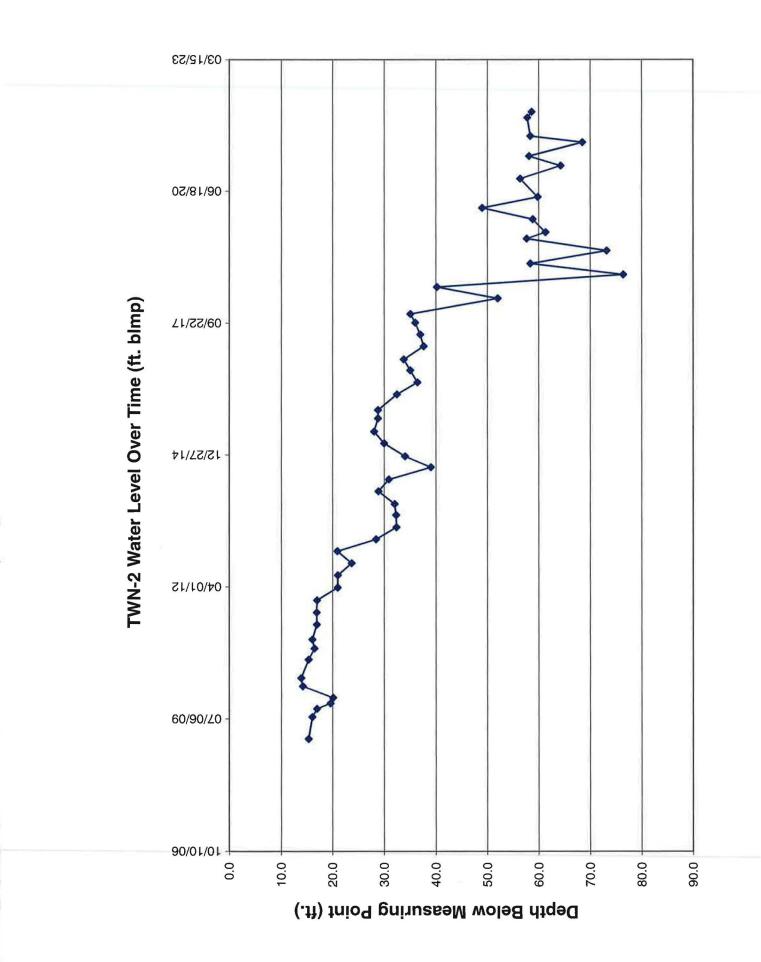
NOTES: MW-4, MW-26, TW4-1, TW4-2, TW4-4, TW4-11, TW4-19, TW4-21, TW4-37, TW4-39, TW4-40 and TW4-41 are chloroform pumping wells; TW4-22, TW4-24, TW4-25 and TWN-2 are nitrate pumping wells; TW4-1, TW4-2 and TW4-11 water levels are below the base of the Burro Canyon Formation

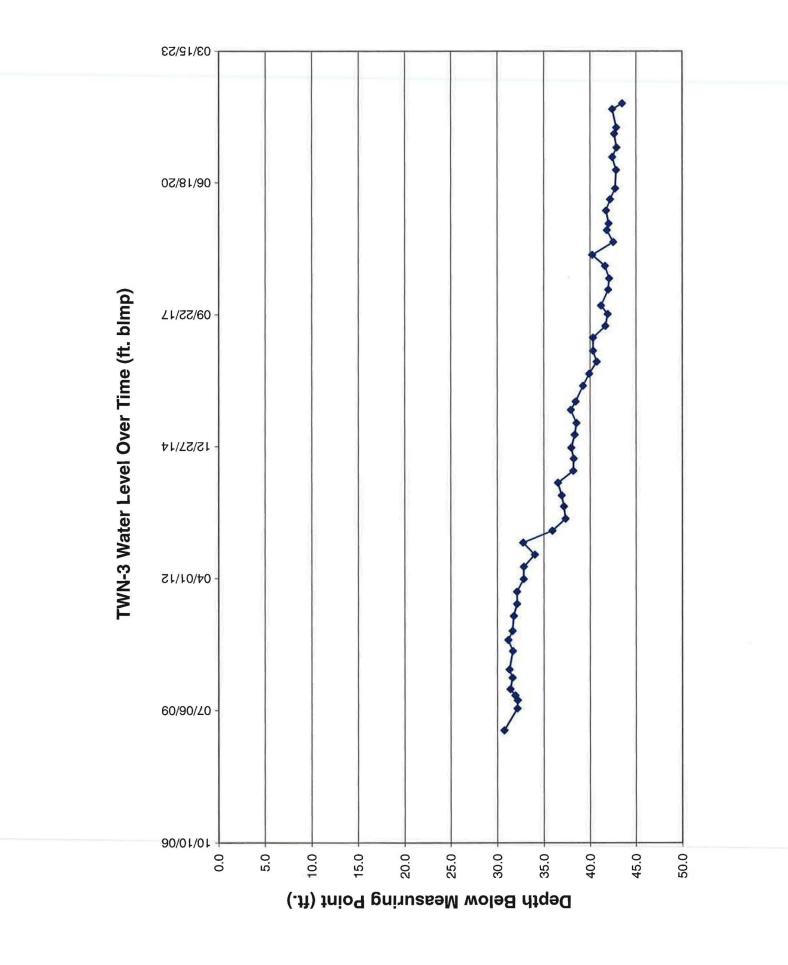
HYDRO GEO	KRI	GED 4th	QUARTER, 2021 WATER LEV WHITE MESA SITE	/ELS
CHEM, INC.	APPROVED	DATE	REFERENCE H:/718000/feb22/WL/UwI1221.srf	D-1

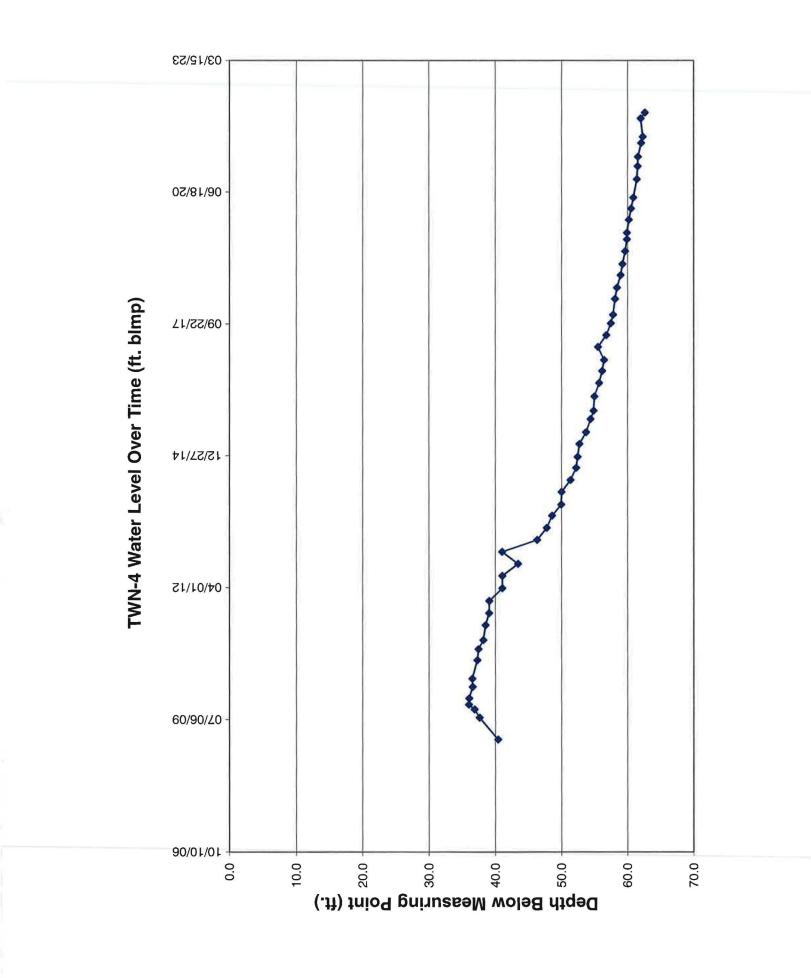
Tab E

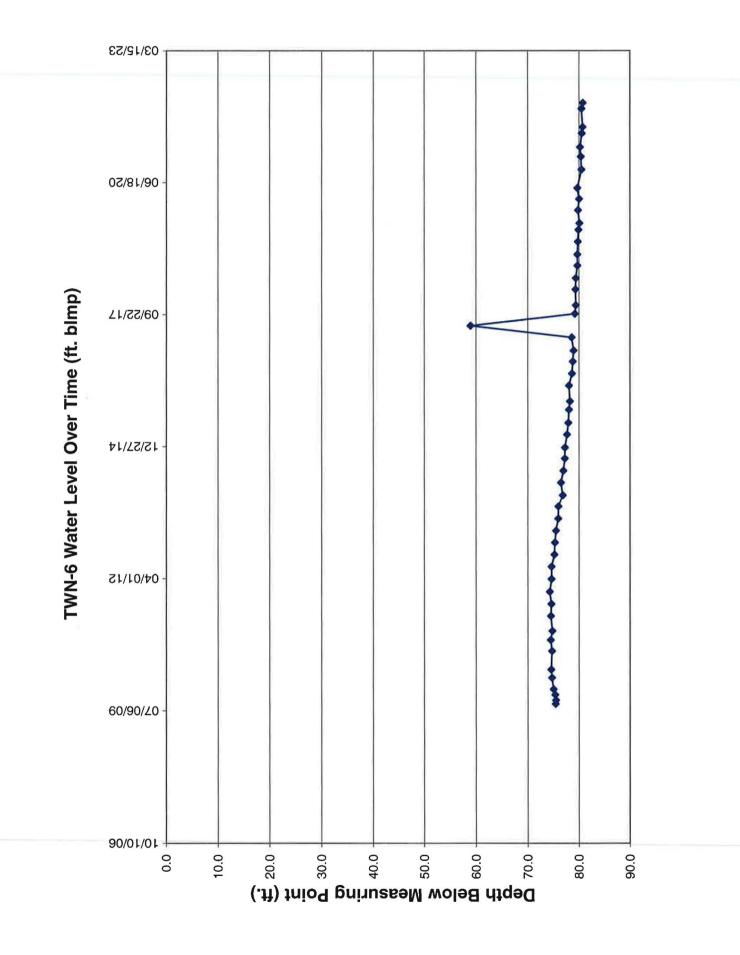
Hydrographs of Groundwater Elevations over Time for Nitrate Monitoring Wells

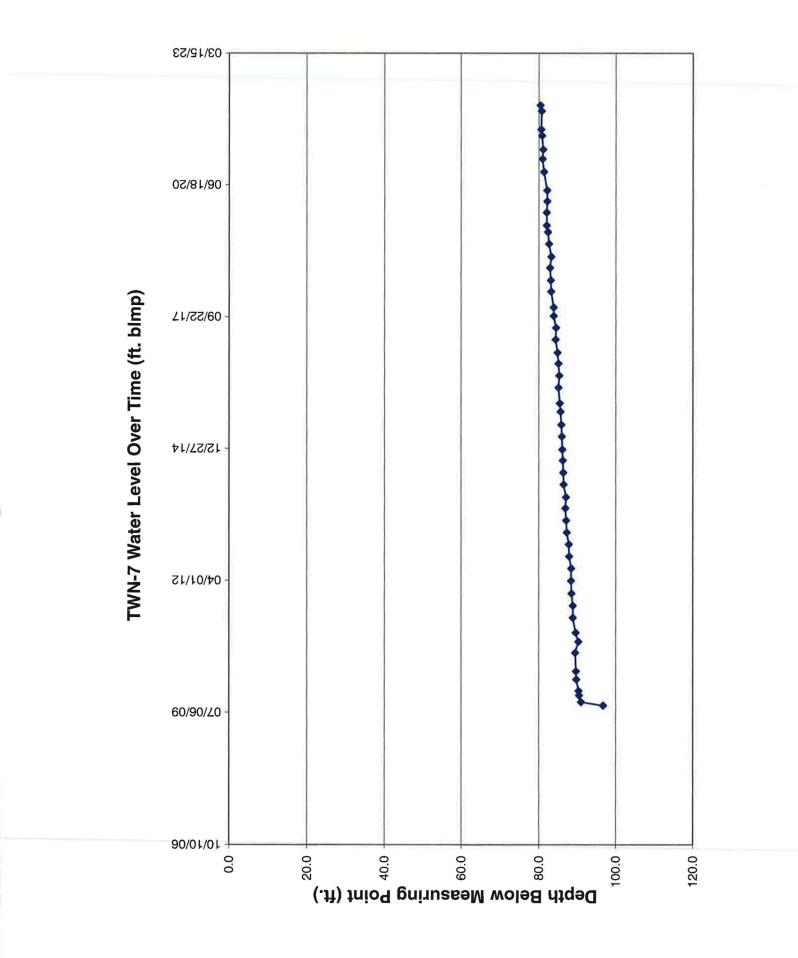


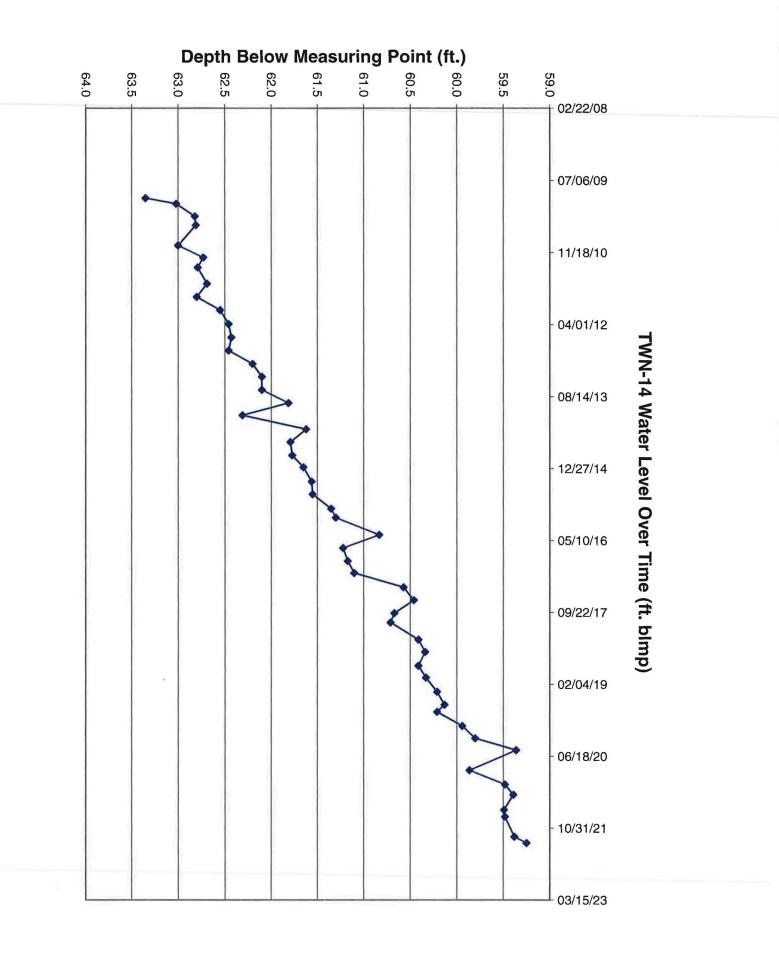


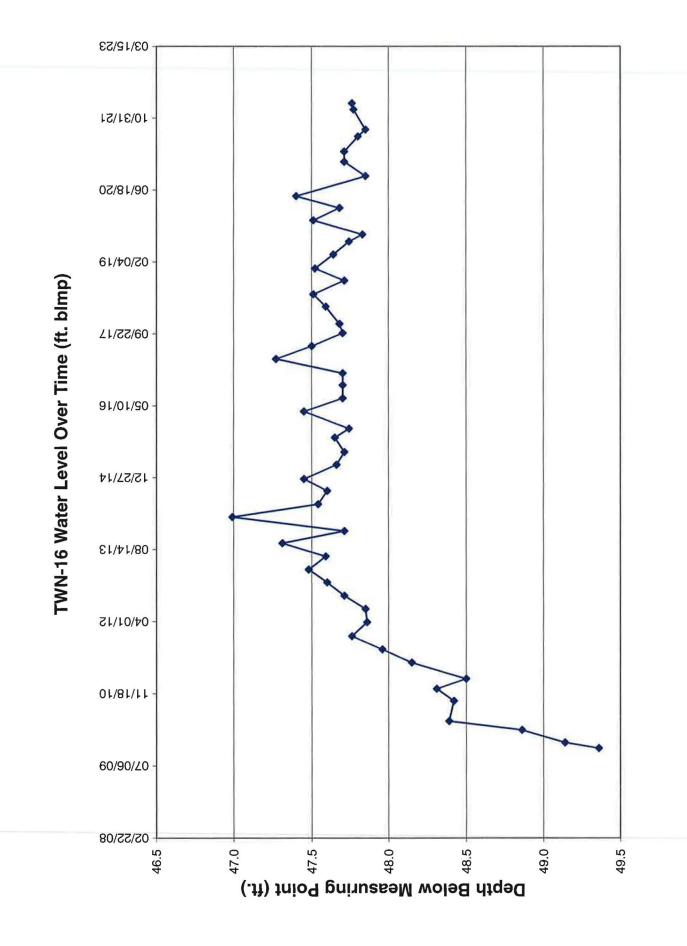


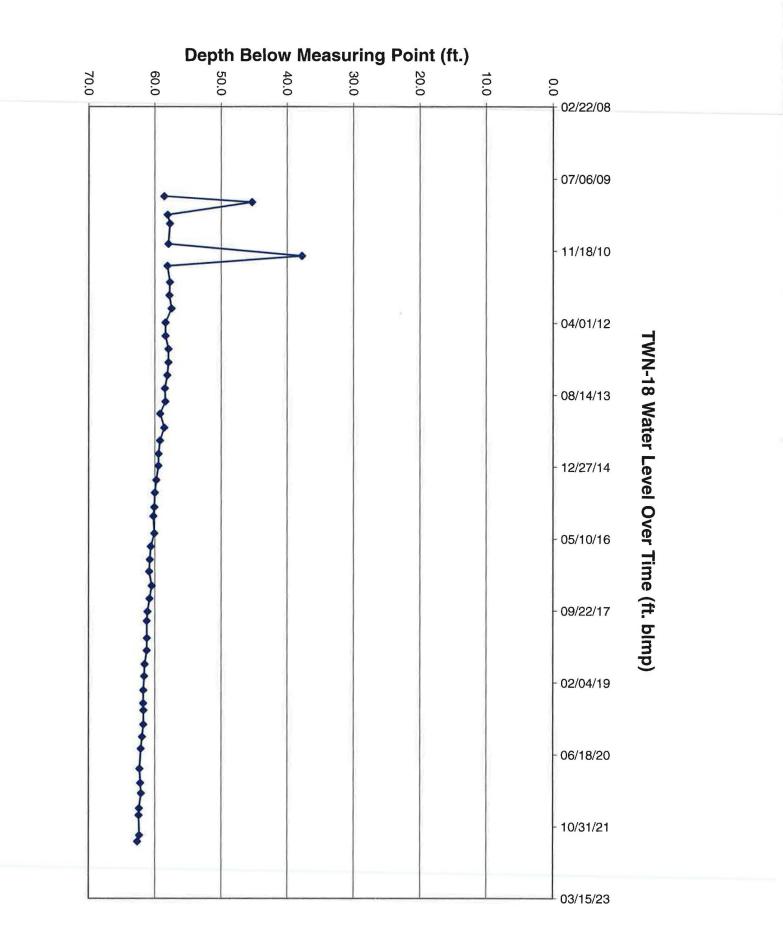


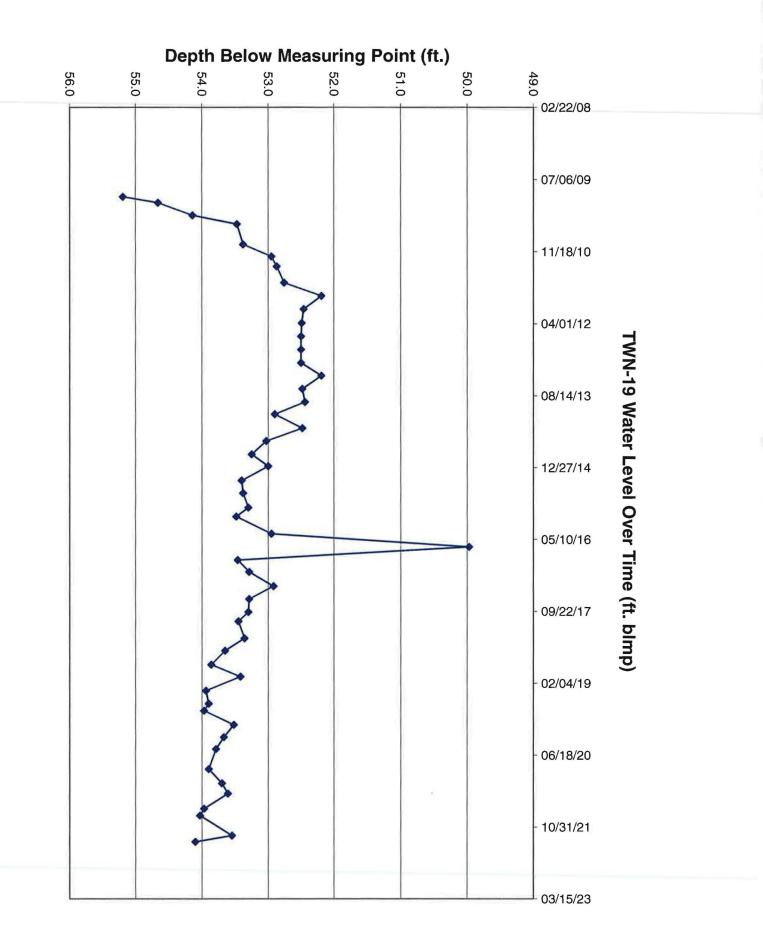


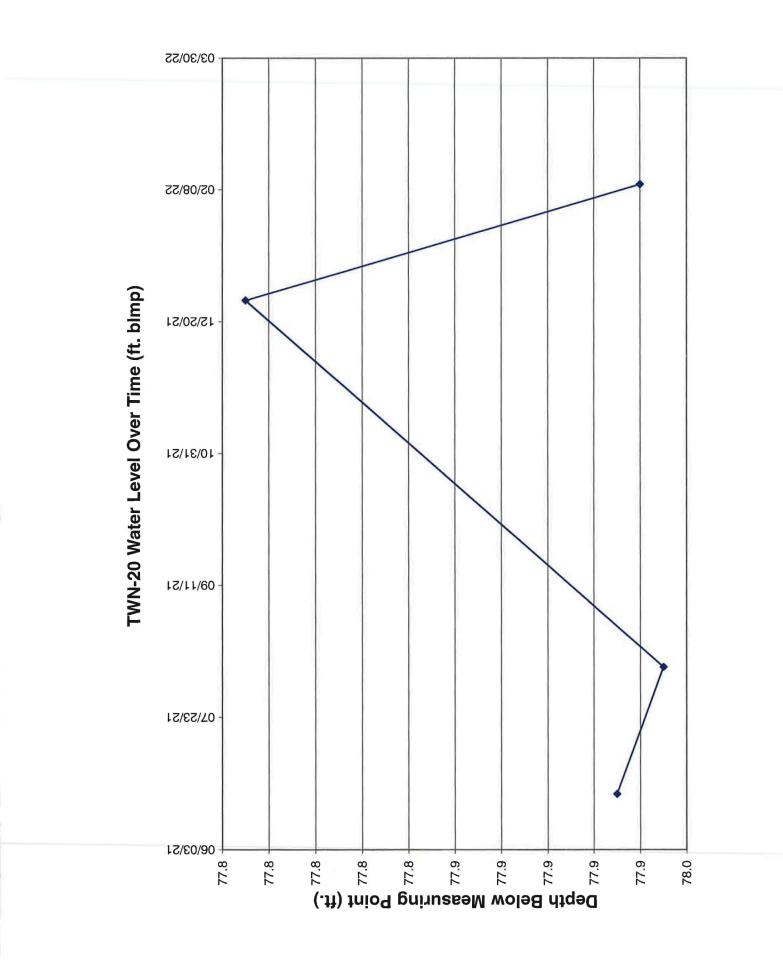


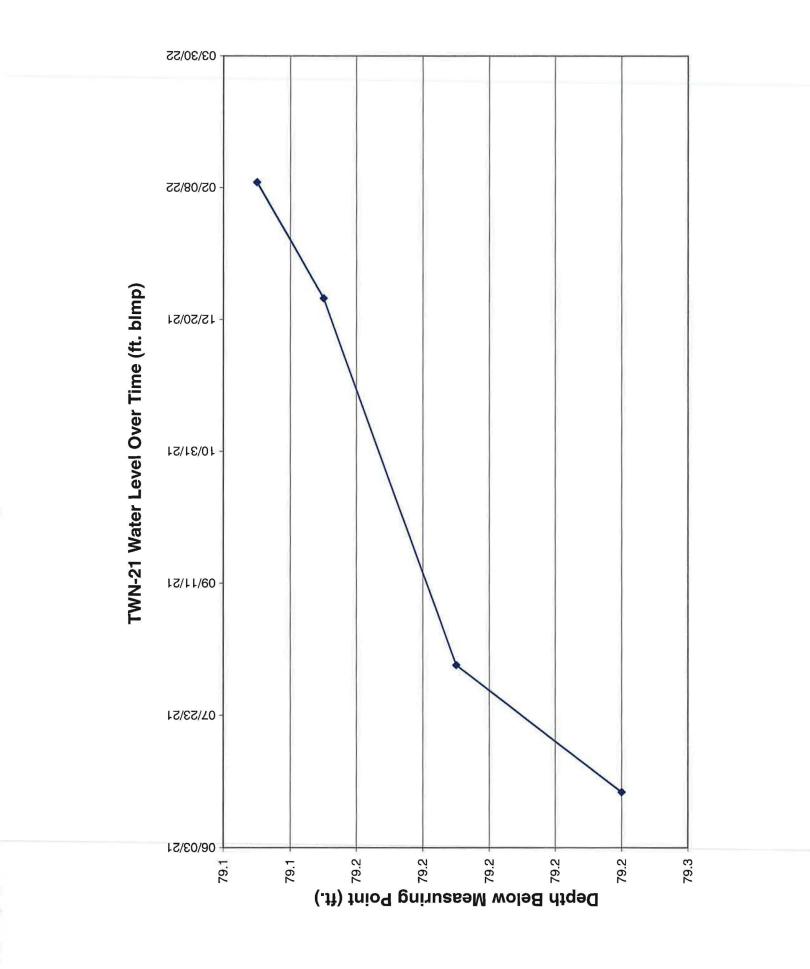


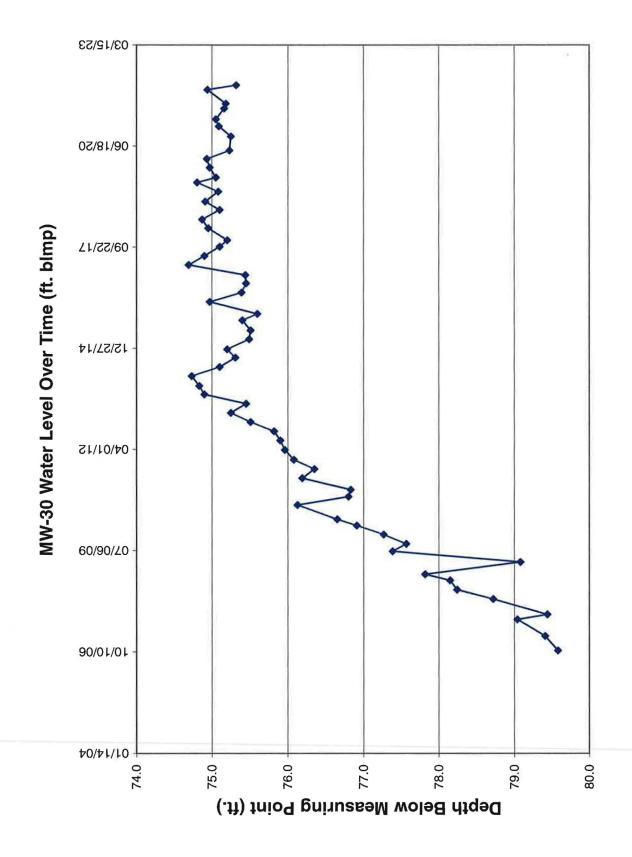


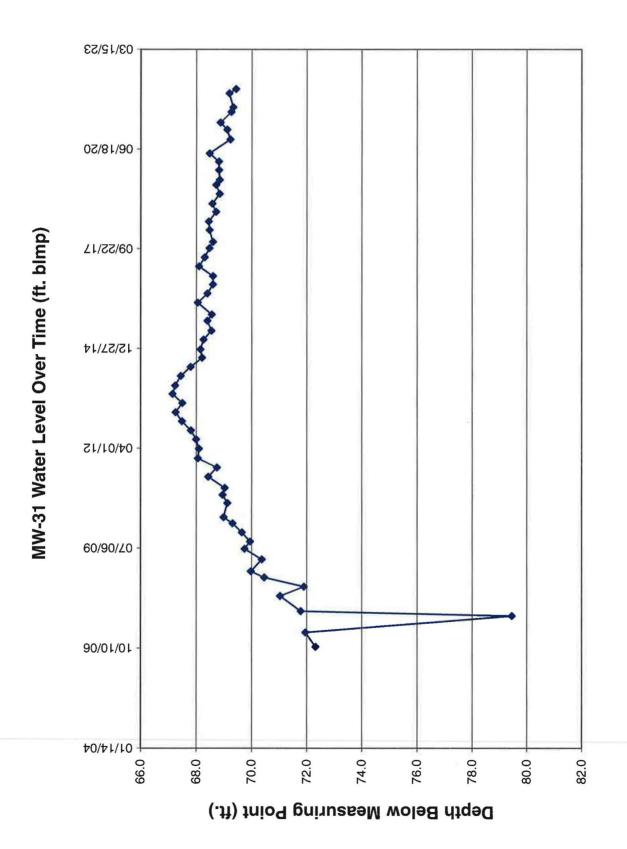












Tab F

Depths to Groundwater and Elevations over Time for Nitrate Monitoring Wells

					Total or		
		Measuring			Measured	Total	
Water	Land	Point			Depth to	Depth to	Total
Elevation	Surface	Elevation	Length Of	Date Of	Water	Water	Depth Of
(WL)	(LSD)	(MP)	Riser (L)	Monitoring	(blw.MP)	(blw.LSD)	Well
()	5,646.96	5,648.09	1.13		(0100012)	(106.13
5,600.38		,		02/06/09	47.71	46.58	
5,599.99				07/21/09	48.10	46.97	
5,600.26				09/21/09	47.83	46.70	
5,601.10				10/28/09	46.99	45.86	
5,602.59				12/14/09	45.50	44.37	
5,600.55				03/11/10	47.54	46.41	
5,600.66				05/11/10	47.43	46.30	
5,599.18				09/29/10	48.91	47.78	
5,598.92				12/21/10	49.17	48.04	
5,598.29				02/28/11	49.80	48.67	
5,597.80				06/21/11	50.29	49.16	
5,597.32				09/20/11	50.77	49.64	
5,597.15				12/21/11	50.94	49.81	
5,596.54				03/27/12	51.55	50.42	
5,596.52				06/28/12	51.57	50.44	
5,595.03				09/27/12	53.06	51.93	
5,596.62				12/28/12	51.47	50.34	
5,593.54				03/28/13	54.55	53.42	
5,592.38				06/27/13	55.71	54.58	
5,591.65				09/27/13	56.44	55.31	
5,590.34				12/20/13	57.75	56.62	
5,590.03				03/27/14	58.06	56.93	
5,589.09				06/25/14	59.00	57.87	
5,588.15				09/25/14	59.94	58.81	
5,587.74				12/17/14	60.35	59.22	
5,587.09				03/26/15	61.00	59.87	
5,586.79				06/22/15	61.30	60.17	
5,586.39				09/30/15	61.70	60.57	
5,586.05				12/02/15	62.04	60.91	
5,585.89				03/30/16	62.20	61.07	
5,585.30				06/30/16	62.20 62.79	61.66	
5,585.50				09/29/16	63.14	62.01	
5,584.95				12/21/16	63.54	62.41	
5,584.55 5,584.74				03/30/17	63.35	62.22	
5,584.74				06/27/17	63.80	62.67	
				09/26/17	64.32	63.19	
5,583.77 5,583.44				11/29/17	64.52 64.65	63.52	
				03/29/18		63.93	
5,583.03					65.06		
5,582.79				06/22/18	65.30	64.17	
5,582.22				09/26/18	65.87	64.74	
5,582.14				12/17/18	65.95 66.60	64.82 65.47	
5,581.49				03/26/19		65.47 65.78	
5,581.18				06/24/19	66.91		
5,581.12				08/13/19	66.97	65.84	
5,580.93				11/19/19	67.16	66.03	
5,580.54				02/13/20	67.55	66.42	
5,580.24				05/05/20	67.85	66.72	
5,579.73				09/22/20	68.36	67.23	

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

Water Elevation (WL)	Land Surface (LSD) 5,646.96	Measuring Point Elevation (MP) 5,648.09	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well 106.13
5,579.54	.,	0,0.000		12/30/20	68.55	67.42	
5,579.51				03/11/21	68.58	67.45	
5,578.97				06/24/21	69.12	67.99	
5,578.84				08/11/21	69.25	68.12	
5,579.03				12/28/21	69.06	67.93	
5,578.38				02/10/22	69.71	68.58	

Water Levels and Data over Time White Mesa Mill - Well TWN-1 Total or

					Total or		
		Measuring			Measured	Total	
Water	Land	Point			Depth to	Depth to	Total
Elevation	Surface	Elevation	Length Of	Date Of	Water	Water	Depth Of
(WL)	(LSD)	(MP)	Riser (L)	Monitoring	(blw.MP)	(blw.LSD)	Well
	5,625.75	5,626.69	0.94				95.9
5,611.37				2/6/09	15.32	14.38	
5,610.63				7/21/09	16.06	15.12	
5,609.73				9/21/09	16.96	16.02	
5,607.08				11/2/09	19.61	18.67	
5,606.57				12/14/09	20.12	19.18	
5,612.45				3/11/10	14.24	13.30	
5,612.78				5/11/10	13.91	12.97	
5,611.37				9/29/10	15.32	14.38	
5,610.24				12/21/10	16.45	15.51	
5,610.64				2/28/11	16.05	15.11	
5,609.78				6/21/11	16.91	15.97	
5609.79				9/20/11	16.90	15.96	
5609.72				12/21/11	16.97	16.03	
5,605.69				3/27/12	21.00	20.06	
5,605.67				6/28/12	21.02	20.08	
5,603.03				9/27/12	23.66	22.72	
5,605.76				12/28/12	20.93	19.99	
5,598.28				3/28/13	28.41	27.47	
5,594.32				6/27/13	32.37	31.43	
5,594.38				9/27/13	32.31	31.37	
5,594.68				12/20/13	32.01	31.07	
5,597.79				3/27/14	28.90	27.96	
5,595.80				6/25/14	30.89	29.95	
5,587.67				9/25/14	39.02	38.08	
5,592.66				12/17/14	34.03	33.09	
5,596.71				3/26/15	29.98	29.04	
5,598.64				6/22/15	28.05	27.11	
5,597.89				9/30/15	28.80	27.86	
5,597.89				12/2/15	28.80	27.86	
5,594.25				3/30/16	32.44	31.50	
5,590.26				6/30/16	36.43	35.49	
5,591.67				9/29/16	35.02	34.08	
5592.92				12/21/16	33.77	32.83	
5589.05				3/30/17	37.64	36.7	
5589.69				6/27/17	37.00	36.06	
5590.71				9/26/17	35.98	35.04	
5591.65				11/30/17	35.04	34.10	
5574.69				3/28/18	52.00	51.06	
					40.20	39.26	
5586.49				6/22/18 9/24/18	40.20 76.38		
5550.31						75.44	
5568.32				12/17/18	58.37	57.43	
5553.52				3/25/19	73.17	72.23	
5569.06				6/24/19	57.63	56.69	
5565.38				8/12/19	61.31	60.37	
5567.87				11/18/19	58.82	57.88	
5577.69				2/13/20	49.00	48.06	

Water Levels and Data over Time White Mesa Mill - Well TWN-2 Total or

Water Levels and Data over Time White Mesa Mill - Well TWN-2 Total or

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,625.75	5,626.69	0.94				95.9
5566.89				5/5/20	59.80	58.86	
5570.34				9/21/20	56.35	55.41	
5562.46				12/28/20	64.23	63.29	
5568.57				3/11/21	58.12	57.18	
5558.22				6/24/21	68.47	67.53	
5568.34				8/11/21	58.35	57.41	
5568.92				12/28/21	57.77	56.83	
5568.09				2/10/22	58.60	57.66	

MeasuringTotalWaterTotalSurfaceRevationLength Of Riser (1)MeasuredTotalWater%5,603.77 $= 2633.54$ $= 92/21/09$ 31.90 31.04 $= 31.25$ $= 560.25$ $= 51/11/10$ 31.64 30.74 $= 560.25$ $= 51/11/10$ 31.64 $= 30.78$ $= 560.23$ $= 51/11/10$ 31.61 30.75 $= 560.23$ $= 222/110$ 31.161 30.75 $= 560.23$ $= 92/21/10$ 31.161 30.75 $= 560.23$ $= 92/21/11$ 32.10 31.24 $= 560.24$ $= 92/21/11$ 32.10 31.24 $= 560.24$ $= 92/21/11$ 32.10 31.24 $= 560.23$ $= 92/21/12$ 32.60 33.14 $= 5598.60$ $= 322/12$ 32.60 33.14 $= 5598.60$ $= 322/12$ 32.60 33.14 $= 5598.60$ $= 322/13$ 32.64 $= 5598.64$ 5598.64 5598.64 </th <th></th> <th></th> <th></th> <th></th> <th></th> <th>Total or</th> <th></th> <th></th>						Total or		
$\begin{array}{c c c c c c c c c c c c c c c c c c c $			Measuring			Measured	Total	
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	Water	Land	Point			Depth to	Depth to	Total
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	Elevation	Surface	Elevation	Length Of	Date Of	Water	Water	Depth Of
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	(WL)	(LSD)	(MP)	Riser (L)	Monitoring	(blw.MP)	(blw.LSD)	Well
5,602.37 $7/21/09$ 32.13 31.27 $5,602.60$ $9/21/09$ 32.16 31.30 $5,602.60$ $10/28/09$ 31.90 31.04 $5,603.12$ $12/14/09$ 31.38 30.52 $5,602.260$ $3/11/10$ 31.60 30.74 $5,603.23$ $5/11/10$ 31.64 30.78 $5,603.35$ $12/21/10$ 31.15 30.29 $5,602.86$ $9/29/10$ 31.64 30.78 $5,602.89$ $2/28/11$ 31.75 30.89 $5,602.40$ $9/20/11$ 32.10 31.24 $5,602.40$ $9/20/11$ 32.10 31.24 $5,601.70$ $3/27/12$ 32.80 31.94 $5,601.70$ $3/27/12$ 32.80 31.94 $5,601.74$ $12/28/12$ 32.76 31.90 $5,598.60$ $3/28/13$ 35.90 35.04 $5,597.36$ $9/27/13$ 37.14 36.28 $5,597.60$ $12/20/13$ 36.90 36.04 $5,598.60$ $3/26/14$ 38.16 37.30 $5,596.30$ $9/22/14$ 38.20 37.34 $5,596.61$ $9/30/15$ 37.89 37.03 $5,596.20$ $3/26/15$ 38.50 37.44 $5,597.60$ $9/22/16$ 40.31 39.44 $5,596.20$ $3/26/15$ 38.50 37.44 $5,596.20$ $3/26/15$ 38.50 37.44 $5,596.20$ $3/26/15$ 38.50 37.44 $5,596.20$ $3/26/17$ 41.65 40.71 <tr< th=""><th></th><th>5,633.64</th><th>5,634.50</th><th>0.86</th><th></th><th></th><th></th><th>96</th></tr<>		5,633.64	5,634.50	0.86				96
5,602.34 $9/21/09$ 32.16 31.30 $5,602.60$ $10/28/09$ 31.90 31.04 $5,603.12$ $12/14/09$ 31.38 30.52 $5,602.90$ $3/11/10$ 31.60 30.74 $5,602.80$ $5/11/10$ 31.27 30.41 $5,602.86$ $9/29/10$ 31.64 30.75 $5,602.89$ $2/28/11$ 31.61 30.75 $5,602.75$ $6/21/11$ 31.75 30.89 $5,602.40$ $9/20/11$ 32.10 31.24 $5,602.75$ $6/21/11$ 32.10 31.24 $5,601.70$ $3/27/12$ 32.80 31.97 $5,601.67$ $6/28/12$ 32.83 31.97 $5,601.67$ $6/28/12$ 32.83 31.97 $5,601.74$ $12/28/12$ 32.76 31.90 $5,597.36$ $9/27/13$ 37.32 36.46 $5,597.36$ $9/27/13$ 37.32 36.46 $5,597.36$ $9/27/13$ 37.34 35.90 $5,596.55$ $12/17/14$ 38.50 37.44 $5,596.55$ $12/27/13$ 38.50 37.44 $5,596.55$ $9/25/14$ 38.50 37.44 $5,596.60$ $9/30/15$ 37.89 37.00 $5,596.55$ $9/21/15$ 38.50 37.64 $5,596.55$ $9/21/14$ 38.20 37.44 $5,596.61$ $9/30/15$ 37.89 37.03 $5,596.61$ $9/30/15$ 38.80 39.03 $5,595.29$ $3/30/16$ 39.21 38.35	5,603.77				2/6/09	30.73	29.87	
5,602.60 $10/28/09$ 31.90 31.04 $5,602.90$ $31/1/10$ 31.58 30.52 $5,602.30$ $31/1/10$ 31.64 30.74 $5,603.23$ $5/11/10$ 31.27 30.41 $5,602.86$ $9/29/10$ 31.64 30.78 $5,603.35$ $12/21/10$ 31.15 30.29 $5,602.89$ $2/28/11$ 31.61 30.75 $5,602.40$ $9/20/11$ 32.10 31.24 $5,602.40$ $9/20/11$ 32.10 31.24 $5,602.40$ $9/20/11$ 32.10 31.44 $5,601.70$ $3/27/12$ 32.80 31.94 $5,602.50$ $9/27/12$ 34.00 33.14 $5,601.70$ $3/28/13$ 35.90 35.04 $5,597.18$ $6/27/13$ 37.14 36.28 $5,597.60$ $12/20/13$ 36.90 36.04 $5,598.60$ $3/28/13$ 35.90 35.64 $5,597.60$ $12/20/13$ 36.90 36.04 $5,598.60$ $3/27/14$ 38.16 37.30 $5,596.30$ $9/25/14$ 38.16 37.30 $5,596.61$ $9/30/15$ 37.89 37.03 $5,596.61$ $9/30/15$ 37.89 37.03 $5,595.29$ $3/30/16$ 39.21 38.35 $5,594.20$ $3/26/15$ 38.50 37.64 $5,595.29$ $3/30/17$ 40.30 39.44 $5,592.49$ $3/30/17$ 40.30 39.44 $5,592.55$ $3/20/18$ 41.95 41.09 <	5,602.37				7/21/09	32.13	31.27	
5,603.12 12/14/09 31.38 30.52 5,602.20 3111/10 31.60 30.74 5,602.32 5/11/10 31.64 30.78 5,602.86 9/29/10 31.64 30.78 5,602.89 2/28/11 31.61 30.75 5,602.75 6/21/11 31.75 30.89 5,602.40 9/20/11 32.10 31.24 5,601.70 3/27/12 32.80 31.94 5,601.67 6/28/12 32.23 31.97 5,600.107 6/28/12 32.83 31.94 5,601.74 12/28/12 32.76 31.90 5,601.74 12/28/12 32.76 31.90 5,597.36 9/27/13 37.14 36.28 5,597.36 9/27/13 37.14 36.28 5,597.36 9/27/14 38.16 37.30 5,596.30 3/27/14 38.20 37.34 5,596.30 9/25/14 38.16 37.30 5,596.30 9/26/15 38.30 37.44 5,596.41 6/30/16 39.21 <td< td=""><td>5,602.34</td><td></td><td></td><td></td><td>9/21/09</td><td>32.16</td><td>31.30</td><td></td></td<>	5,602.34				9/21/09	32.16	31.30	
5,602.90 $3/11/10$ 31.60 30.74 $5,602.86$ $9/29/10$ 31.64 30.78 $5,602.89$ $2/28/11$ 31.15 30.29 $5,602.75$ $6/21/11$ 31.15 30.89 $5,602.40$ $9/20/11$ 32.10 31.24 $5,602.40$ $9/20/11$ 32.10 31.24 $5,601.70$ $3/27/12$ 32.80 31.94 $5,601.70$ $3/27/12$ 32.80 31.94 $5,601.70$ $3/27/12$ 34.00 33.14 $5,601.74$ $12/28/12$ 32.83 31.97 $5,600.50$ $9/27/12$ 34.00 33.14 $5,601.74$ $12/28/12$ 32.83 31.97 $5,600.50$ $9/27/12$ 34.00 33.14 $5,601.74$ $12/28/12$ 32.76 31.90 $5,597.60$ $3/28/13$ 35.90 35.04 $5,597.60$ $3/28/13$ 35.90 36.04 $5,597.60$ $3/27/14$ 36.50 36.44 $5,596.34$ $6/25/14$ 38.16 37.30 $5,596.30$ $9/25/14$ 38.20 37.34 $5,596.40$ $3/26/15$ 38.30 37.44 $5,596.20$ $3/26/15$ 38.30 37.44 $5,596.20$ $3/20/15$ 38.30 37.44 $5,595.29$ $3/30/16$ 39.21 38.35 $5,594.20$ $3/30/15$ 39.21 38.35 $5,594.20$ $3/20/15$ 38.41 37.55 $5,595.29$ $3/30/17$ 40.30 39.44 <t< td=""><td>5,602.60</td><td></td><td></td><td></td><td>10/28/09</td><td>31.90</td><td>31.04</td><td></td></t<>	5,602.60				10/28/09	31.90	31.04	
5,603.23 $5/11/10$ 31.27 30.41 $5,602.86$ $9/29/10$ 31.64 30.78 $5,603.35$ $12/21/10$ 31.15 30.29 $5,602.89$ $22/28/11$ 31.61 30.75 $5,602.75$ $6/21/11$ 31.75 30.89 $5,602.40$ $9/20/11$ 32.10 31.24 $5,601.70$ $3/27/12$ 32.80 31.94 $5,601.70$ $3/27/12$ 32.80 31.94 $5,601.67$ $6/28/12$ 32.83 31.97 $5,600.50$ $9/27/12$ 32.00 33.14 $5,601.74$ $12/28/12$ 32.76 31.90 $5,597.60$ $3/28/13$ 35.90 35.04 $5,597.36$ $9/27/13$ 37.14 36.28 $5,597.60$ $12/20/13$ 36.90 36.04 $5,596.34$ $6/25/14$ 38.16 37.30 $5,596.30$ $9/25/14$ 38.20 37.34 $5,596.55$ $12/17/14$ 37.95 37.09 $5,596.61$ $9/30/15$ 37.89 37.03 $5,596.61$ $9/30/15$ 37.89 37.03 $5,596.61$ $9/30/15$ 37.89 37.03 $5,594.61$ $6/30/16$ 39.89 39.03 $5,593.79$ $9/22/16$ 40.71 39.85 $5,594.20$ $3/20/17$ 41.65 40.79 $5,592.55$ $6/27/17$ 41.65 40.79 $5,592.60$ $9/26/17$ 41.09 $5,592.55$ $3/29/18$ 41.09 $5,592.45$ $6/22/18$	5,603.12				12/14/09		30.52	
5,602.86 $9/29/10$ 31.64 30.78 $5,602.35$ $12/21/10$ 31.15 30.29 $5,602.75$ $6/21/11$ 31.75 30.89 $5,602.40$ $9/20/11$ 32.10 31.24 $5,601.70$ $32/21/12$ 32.80 31.94 $5,601.70$ $32/21/12$ 32.80 31.94 $5,601.70$ $6/28/12$ 32.83 31.97 $5,601.70$ $9/27/12$ 32.80 31.44 $5,601.74$ $12/28/12$ 32.76 31.90 $5,601.74$ $12/28/12$ 32.76 31.90 $5,601.74$ $12/28/12$ 32.76 31.90 $5,597.18$ $6/27/13$ 37.32 36.46 $5,597.36$ $9/27/13$ 37.14 36.28 $5,597.60$ $12/20/13$ 36.90 36.04 $5,598.00$ $3/27/14$ 36.50 35.64 $5,596.30$ $9/25/14$ 38.10 37.34 $5,596.30$ $9/25/14$ 38.20 37.34 $5,596.61$ $9/30/15$ 37.89 37.03 $5,596.61$ $9/30/15$ 37.89 37.03 $5,595.29$ $3/30/16$ 39.241 $5,592.40$ $3/26/17$ 41.65 40.71 39.85 $5,592.45$ $6/27/17$ 41.65 40.79 39.24 $5,592.45$ $6/22/18$ 42.05 41.19 $5.392.45$ $6/22/18$ 42.05 41.19 $5.592.45$ $6/22/18$ 40.74 $5,592.45$ $6/22/18$ 42.05	5,602.90				3/11/10	31.60	30.74	
5,603.35 $12/21/10$ 31.15 30.29 $5,602.89$ $2/28/11$ 31.61 30.75 $5,602.75$ $6/21/11$ 31.75 30.89 $5,602.40$ $9/20/11$ 32.10 31.24 $5,601.70$ $3/27/12$ 32.80 31.94 $5,601.67$ $6/28/12$ 32.83 31.97 $5,600.50$ $9/27/12$ 34.00 33.14 $5,601.74$ $12/28/12$ 32.76 31.90 $5,598.60$ $3/28/13$ 35.90 35.04 $5,597.18$ $6/27/13$ 37.32 36.46 $5,597.60$ $12/20/13$ 36.90 36.04 $5,597.60$ $3/26/14$ 38.16 37.30 $5,596.34$ $6/25/14$ 38.16 37.30 $5,596.55$ $12/17/14$ 37.95 37.09 $5,596.20$ $3/26/15$ 38.30 37.44 $5,596.61$ $9/30/15$ 37.89 37.03 $5,596.61$ $9/30/15$ 37.89 37.03 $5,596.61$ $9/30/16$ 39.89 39.03 $5,594.61$ $6/30/16$ 39.89 39.03 $5,594.61$ $6/30/16$ 39.89 39.03 $5,594.61$ $6/30/16$ 39.89 39.03 $5,594.20$ $3/26/17$ 41.65 40.79 $5,592.29$ $3/30/17$ 40.30 39.44 $5,592.45$ $6/27/17$ 41.65 40.79 $5,592.45$ $6/27/17$ 41.65 40.79 $5,592.55$ $3/29/18$ 41.09 $5.592.59$ <t< td=""><td>5,603.23</td><td></td><td></td><td></td><td>5/11/10</td><td>31.27</td><td>30.41</td><td></td></t<>	5,603.23				5/11/10	31.27	30.41	
5,602.89 $2/28/11$ 31.61 30.75 $5,602.75$ $6/21/11$ 31.75 30.89 $5,602.40$ $9/20/11$ 32.10 31.24 $5,601.70$ $3/27/12$ 32.80 31.94 $5,601.70$ $3/27/12$ 32.80 31.94 $5,601.67$ $6/28/12$ 32.83 31.97 $5,600.50$ $9/27/12$ 34.00 33.14 $5,601.74$ $12/28/12$ 32.76 31.90 $5,597.18$ $6/27/13$ 37.32 36.46 $5,597.36$ $9/27/13$ 37.14 36.28 $5,597.60$ $12/20/13$ 36.90 36.04 $5,596.34$ $6/25/14$ 38.16 37.30 $5,596.55$ $12/17/14$ 37.95 37.09 $5,596.55$ $32/6/15$ 38.30 37.44 $5,596.61$ $9/30/15$ 37.89 37.03 $5,596.61$ $9/30/15$ 37.89 37.03 $5,595.29$ $33/0/16$ 39.21 38.35 $5,594.61$ $6/30/16$ 39.89 39.03 $5,594.20$ $3/26/17$ 41.65 40.79 $5,592.55$ $3/29/18$ 41.09 39.44 $5,592.60$ $9/26/17$ 41.65 40.79 $5,592.60$ $9/26/17$ 41.65 40.79 $5,592.60$ $9/26/17$ 41.65 40.79 $5,592.65$ $3/29/18$ 41.09 $5.592.45$ $6/22/18$ 42.05 41.19 $5,592.60$ $6/24/19$ 42.51 41.65 $5,592.78$ <td>5,602.86</td> <td></td> <td></td> <td></td> <td>9/29/10</td> <td>31.64</td> <td>30.78</td> <td></td>	5,602.86				9/29/10	31.64	30.78	
5,602.75 $6/21/11$ 31.75 30.89 $5,602.40$ $9/20/11$ 32.10 31.24 $5,601.70$ $3/271/12$ 32.80 31.94 $5,601.70$ $3/271/12$ 32.80 31.94 $5,601.67$ $6/28/12$ 32.83 31.97 $5,600.50$ $9/271/12$ 34.00 33.14 $5,601.74$ $12/28/12$ 32.76 31.90 $5,598.60$ $3/28/13$ 35.90 35.04 $5,597.36$ $9/27/13$ 37.14 36.28 $5,597.60$ $12/20/13$ 36.90 36.04 $5,598.60$ $3/26/14$ 38.16 37.30 $5,596.34$ $6/25/14$ 38.16 37.30 $5,596.55$ $12/21/14$ 38.30 37.44 $5,596.55$ $3/26/15$ 38.30 37.44 $5,596.60$ $9/21/15$ 38.50 37.64 $5,596.69$ $9/21/14$ 38.16 37.30 $5,596.69$ $9/21/14$ 38.16 37.30 $5,596.69$ $9/21/15$ 38.30 37.44 $5,596.69$ $9/21/15$ 38.41 37.55 $5,595.29$ $3/30/16$ 39.21 38.35 $5,594.61$ $6/30/16$ 39.89 39.03 $5,593.79$ $9/29/16$ 40.71 39.84 $5,594.20$ $3/30/17$ 40.30 39.44 $5,592.85$ $6/27/17$ 41.65 $5,592.45$ $6/22/18$ 41.95 $5,592.45$ $6/22/18$ 41.04 $5,592.45$ $6/22/18$ 41.04	5,603.35				12/21/10	31.15	30.29	
5,602.40 $9/20/11$ 32.10 31.24 $5,601.70$ $3/27/12$ 32.80 31.94 $5,601.67$ $6/28/12$ 32.83 31.97 $5,600.50$ $9/27/12$ 34.00 33.14 $5,601.74$ $12/28/12$ 32.76 31.90 $5,598.60$ $3/28/13$ 35.90 35.04 $5,597.18$ $6/27/13$ 37.32 36.46 $5,597.36$ $9/27/13$ 37.14 36.28 $5,597.60$ $12/20/13$ 36.90 36.04 $5,598.00$ $3/27/14$ 36.50 35.64 $5,596.34$ $6/25/14$ 38.16 37.30 $5,596.30$ $9/25/14$ 38.20 37.34 $5,596.55$ $12/17/14$ 37.95 37.09 $5,596.61$ $9/30/15$ 37.89 37.64 $5,596.61$ $9/30/15$ 37.89 37.64 $5,596.61$ $9/30/15$ 38.50 37.64 $5,595.29$ $3/30/16$ 39.21 38.35 $5,594.20$ $12/21/5$ 38.41 37.55 $5,592.60$ $9/26/17$ 41.65 40.79 $5,592.60$ $9/26/17$ 41.04 $5,592.60$ $9/26/17$ 41.90 41.04 $5,592.60$ $6/22/18$ 41.09 41.97 $5,592.60$ $6/22/18$ 41.09 39.35 $5,592.45$ $6/22/18$ 41.02 39.35 $5,592.45$ $6/22/18$ 41.02 39.35 $5,592.60$ $6/24/19$ 41.81 40.55 $5,592.60$ <td>5,602.89</td> <td></td> <td></td> <td></td> <td>2/28/11</td> <td>31.61</td> <td>30.75</td> <td></td>	5,602.89				2/28/11	31.61	30.75	
5,602.40 $12/21/11$ 32.10 31.24 $5,601.70$ $3/27/12$ 32.80 31.94 $5,601.67$ $6/28/12$ 32.83 31.97 $5,600.50$ $9/27/12$ 34.00 33.14 $5,601.74$ $12/28/12$ 32.76 31.90 $5,598.60$ $3/28/13$ 35.90 35.04 $5,597.18$ $6/27/13$ 37.32 36.46 $5,597.36$ $9/27/13$ 37.14 36.28 $5,597.60$ $12/20/13$ 36.90 36.04 $5,598.00$ $3/27/14$ 36.50 35.64 $5,596.30$ $9/25/14$ 38.20 37.34 $5,596.30$ $9/25/14$ 38.20 37.34 $5,596.55$ $12/17/14$ 37.95 37.09 $5,596.61$ $9/30/15$ 37.89 37.03 $5,596.61$ $9/30/15$ 38.30 37.44 $5,596.61$ $9/30/15$ 38.50 37.44 $5,596.61$ $9/30/16$ 39.21 38.35 $5,594.20$ $12/2/15$ 38.41 37.55 $5,595.29$ $3/30/16$ 39.21 38.35 $5,594.20$ $12/2/16$ 40.71 39.85 $5,594.20$ $3/30/17$ 40.30 39.44 $5,592.60$ $9/26/17$ 41.90 41.04 $5,592.60$ $9/26/17$ 41.90 41.04 $5,592.55$ $3/29/18$ 41.95 41.09 $5,592.60$ $6/27/17$ 41.65 41.19 $5,592.60$ $9/26/18$ 41.60 40.74 <	5,602.75				6/21/11	31.75	30.89	
5,601.70 $3/27/12$ 32.80 31.94 $5,601.67$ $6/28/12$ 32.83 31.97 $5,600.50$ $9/27/12$ 34.00 33.14 $5,601.74$ $12/28/12$ 32.76 31.90 $5,598.60$ $3/28/13$ 35.90 35.04 $5,597.36$ $9/27/13$ 37.14 36.28 $5,597.36$ $9/27/13$ 37.14 36.28 $5,597.60$ $12/20/13$ 36.60 35.64 $5,598.00$ $3/27/14$ 36.50 35.64 $5,596.34$ $6/25/14$ 38.16 37.30 $5,596.30$ $9/25/14$ 38.20 37.34 $5,596.55$ $12/17/14$ 37.95 37.09 $5,596.20$ $3/26/15$ 38.30 37.44 $5,596.00$ $6/22/15$ 38.50 37.64 $5,596.61$ $9/30/15$ 37.89 37.03 $5,596.09$ $12/2/15$ 38.41 37.55 $5,594.61$ $6/30/16$ 39.89 39.03 $5,594.61$ $6/30/16$ 39.89 39.03 $5,594.61$ $6/27/17$ 41.65 40.79 $5,592.60$ $9/26/17$ 41.90 41.04 $5,592.85$ $6/27/17$ 41.65 40.79 $5,592.60$ $9/26/17$ 41.90 41.04 $5,592.55$ $3/29/18$ 41.60 40.74 $5,592.60$ $9/26/18$ 41.60 40.74 $5,592.60$ $6/27/19$ 42.51 41.65 $5,592.50$ $6/27/19$ 42.51 41.65 <t< td=""><td>5,602.40</td><td></td><td></td><td></td><td>9/20/11</td><td>32.10</td><td>31.24</td><td></td></t<>	5,602.40				9/20/11	32.10	31.24	
5,601.67 $6/28/12$ 32.83 31.97 $5,600.50$ $9/27/12$ 34.00 33.14 $5,601.74$ $12/28/12$ 32.76 31.90 $5,598.60$ $3/28/13$ 35.90 35.04 $5,597.18$ $6/27/13$ 37.32 36.46 $5,597.36$ $9/27/13$ 37.14 36.28 $5,597.60$ $12/20/13$ 36.90 36.04 $5,598.00$ $3/27/14$ 36.50 35.64 $5,596.34$ $6/25/14$ 38.16 37.30 $5,596.30$ $9/25/14$ 38.20 37.34 $5,596.55$ $12/17/14$ 37.95 37.09 $5,596.20$ $3/26/15$ 38.30 37.44 $5,596.00$ $6/22/15$ 38.30 37.44 $5,596.00$ $9/30/15$ 37.89 37.03 $5,596.00$ $12/2/15$ 38.41 37.55 $5,596.09$ $12/2/15$ 38.41 37.55 $5,595.29$ $3/30/16$ 39.21 38.35 $5,594.61$ $6/30/16$ 39.89 39.03 $5,593.79$ $9/29/16$ 40.71 39.85 $5,594.20$ $3/20/17$ 41.65 40.79 $5,592.85$ $6/27/17$ 41.65 40.79 $5,592.85$ $6/27/17$ 41.65 40.79 $5,592.45$ $6/22/18$ 41.00 40.74 $5,592.50$ $9/26/18$ 41.60 40.74 $5,592.60$ $6/24/19$ 41.81 40.95 $5,592.50$ $8/13/19$ 42.05 41.19 <t< td=""><td>5,602.40</td><td></td><td></td><td></td><td>12/21/11</td><td>32.10</td><td>31.24</td><td></td></t<>	5,602.40				12/21/11	32.10	31.24	
5,600.50 $9/27/12$ 34.00 33.14 $5,601.74$ $12/28/12$ 32.76 31.90 $5,598.60$ $3/28/13$ 35.90 35.04 $5,597.18$ $6/27/13$ 37.32 36.46 $5,597.36$ $9/27/13$ 37.14 36.28 $5,597.60$ $12/20/13$ 36.90 36.04 $5,598.00$ $3/27/14$ 36.50 35.64 $5,596.34$ $6/25/14$ 38.16 37.34 $5,596.35$ $12/17/14$ 37.95 37.09 $5,596.55$ $12/17/14$ 37.95 37.09 $5,596.65$ $3/26/15$ 38.30 37.44 $5,596.00$ $6/22/15$ 38.50 37.64 $5,596.00$ $9/30/15$ 37.89 37.03 $5,596.09$ $12/2/15$ 38.41 37.55 $5,596.09$ $12/2/15$ 38.41 37.55 $5,596.09$ $12/2/15$ 38.41 37.55 $5,596.09$ $9/29/16$ 40.71 39.85 $5,594.20$ $3/30/16$ 39.89 39.03 $5,593.39$ $9/29/16$ 40.71 39.85 $5,594.20$ $3/30/17$ 41.65 40.79 $5,592.60$ $9/26/17$ 41.90 41.04 $5,592.45$ $6/22/18$ 41.09 41.04 $5,592.45$ $6/22/18$ 41.60 40.74 $5,592.60$ $9/26/18$ 41.60 40.74 $5,592.60$ $6/24/19$ 41.81 40.95 $5,592.50$ $8/13/19$ 42.00 41.14 <	5,601.70				3/27/12	32.80	31.94	
5,601.74 $12/28/12$ 32.76 31.90 $5,598.60$ $3/28/13$ 35.90 35.04 $5,597.18$ $6/27/13$ 37.32 36.46 $5,597.36$ $9/27/13$ 37.14 36.28 $5,597.60$ $12/20/13$ 36.90 36.04 $5,598.00$ $3/27/14$ 36.50 35.64 $5,596.34$ $6/25/14$ 38.16 37.30 $5,596.30$ $9/25/14$ 38.20 37.34 $5,596.55$ $12/17/14$ 37.95 37.09 $5,596.50$ $3/26/15$ 38.30 37.44 $5,596.61$ $9/30/15$ 37.89 37.03 $5,596.61$ $9/30/15$ 37.89 37.03 $5,596.61$ $9/30/15$ 37.89 37.03 $5,596.61$ $9/30/16$ 39.21 38.35 $5,594.20$ $12/2/15$ 38.41 37.55 $5,594.20$ $12/21/16$ 40.71 39.85 $5,594.20$ $12/21/16$ 40.30 39.44 $5,592.55$ $3/30/17$ 40.30 39.44 $5,592.60$ $9/26/17$ 41.95 41.09 $5,592.55$ $3/29/18$ 41.09 40.74 $5,592.45$ $6/22/18$ 42.05 41.19 $5,592.45$ $6/22/18$ 42.05 41.19 $5,592.50$ $3/26/19$ 42.51 41.65 $5,592.50$ $6/24/19$ 41.81 40.95 $5,592.50$ $8/13/19$ 42.00 41.14 $5,592.50$ $8/13/19$ 42.00 41.14 <td>5,601.67</td> <td></td> <td></td> <td></td> <td>6/28/12</td> <td>32.83</td> <td>31.97</td> <td></td>	5,601.67				6/28/12	32.83	31.97	
5,598.60 $3/28/13$ 35.90 35.04 $5,597.18$ $6/27/13$ 37.32 36.46 $5,597.36$ $9/27/13$ 37.14 36.28 $5,597.60$ $12/20/13$ 36.90 36.04 $5,598.00$ $3/27/14$ 36.50 35.64 $5,596.34$ $6/25/14$ 38.16 37.30 $5,596.30$ $9/25/14$ 38.20 37.34 $5,596.55$ $12/17/14$ 37.95 37.09 $5,596.00$ $3/26/15$ 38.30 37.44 $5,596.61$ $9/30/15$ 37.89 37.03 $5,596.61$ $9/30/15$ 37.89 37.03 $5,596.61$ $9/30/15$ 37.89 37.03 $5,596.61$ $9/30/15$ 37.89 37.03 $5,594.61$ $6/30/16$ 39.21 38.35 $5,594.61$ $6/30/16$ 39.44 $5,594.20$ $1/2/21/16$ 40.30 39.44 $5,594.20$ $3/30/17$ 40.30 39.44 $5,592.55$ $6/27/17$ 41.65 40.79 $5,592.60$ $9/26/17$ 41.90 41.04 $5,592.45$ $6/22/18$ 41.09 $5,592.45$ $6/22/18$ 41.09 $5,592.45$ $6/22/18$ 41.09 $5,592.45$ $6/22/18$ 41.60 41.19 41.60 40.74 $5,592.45$ $6/24/19$ 41.81 40.95 $5,592.50$ $8/13/19$ 42.00 41.14 $5,592.78$ $6/24/19$ 41.72 40.86 41.09 $41.$	5,600.50				9/27/12	34.00	33.14	
5,597.18 $6/27/13$ 37.32 36.46 $5,597.60$ $12/20/13$ 36.90 36.04 $5,597.60$ $12/20/13$ 36.90 36.04 $5,598.00$ $3/27/14$ 36.50 35.64 $5,596.34$ $6/25/14$ 38.16 37.30 $5,596.30$ $9/25/14$ 38.20 37.34 $5,596.55$ $12/17/14$ 37.95 37.09 $5,596.20$ $3/26/15$ 38.30 37.44 $5,596.61$ $9/30/15$ 37.89 37.03 $5,596.61$ $9/30/15$ 37.89 37.03 $5,596.61$ $9/30/16$ 39.21 38.35 $5,596.61$ $6/22/15$ 38.41 37.55 $5,595.29$ $3/30/16$ 39.21 38.35 $5,594.61$ $6/30/16$ 39.89 39.03 $5,594.61$ $6/27/17$ 41.65 40.79 $5,592.60$ $9/26/17$ 41.90 41.04 $5,592.60$ $9/26/17$ 41.90 41.04 $5,592.55$ $3/29/18$ 41.95 41.09 $5,592.45$ $6/22/18$ 42.05 41.19 $5,592.50$ $3/26/19$ 42.51 41.65 $5,591.29$ $3/26/19$ 42.51 41.65 $5,592.50$ $8/13/19$ 42.00 41.14 $5,592.50$ $8/13/19$ 42.00 41.14 $5,592.78$ $11/19/19$ 41.72 40.86	5,601.74				12/28/12	32.76	31.90	
5,597.36 $9/27/13$ 37.14 36.28 $5,597.60$ $12/20/13$ 36.90 36.04 $5,598.00$ $3/27/14$ 36.50 35.64 $5,596.34$ $6/25/14$ 38.16 37.30 $5,596.30$ $9/25/14$ 38.20 37.34 $5,596.55$ $12/17/14$ 37.95 37.09 $5,596.50$ $3/26/15$ 38.30 37.44 $5,596.00$ $3/26/15$ 38.50 37.64 $5,596.61$ $9/30/15$ 37.89 37.03 $5,596.09$ $12/2/15$ 38.41 37.55 $5,594.61$ $6/30/16$ 39.21 38.35 $5,594.61$ $6/30/16$ 39.89 39.03 $5,593.79$ $9/29/16$ 40.71 39.85 $5,594.20$ $3/30/17$ 40.30 39.44 $5,592.85$ $6/27/17$ 41.65 40.79 $5,592.85$ $3/29/18$ 41.95 41.09 $5,592.45$ $6/22/18$ 42.05 41.19 $5,592.45$ $6/22/18$ 42.05 41.19 $5,592.45$ $6/22/18$ 42.05 41.19 $5,592.99$ $3/26/19$ 41.61 40.95 $5,592.99$ $3/26/19$ 42.51 41.65 $5,592.99$ $3/26/19$ 42.51 41.65 $5,592.99$ $3/26/19$ 42.51 41.65 $5,592.99$ $3/26/19$ 42.51 41.65 $5,592.78$ $6/24/19$ 41.81 40.95 $5,592.78$ $6/24/19$ 41.14 $5,592.78$	5,598.60				3/28/13	35.90	35.04	
5,597.60 $12/20/13$ 36.90 36.04 $5,598.00$ $3/27/14$ 36.50 35.64 $5,596.34$ $6/25/14$ 38.16 37.30 $5,596.30$ $9/25/14$ 38.20 37.34 $5,596.55$ $12/17/14$ 37.95 37.09 $5,596.50$ $3/26/15$ 38.50 37.64 $5,596.00$ $6/22/15$ 38.50 37.64 $5,596.00$ $6/22/15$ 38.41 37.55 $5,596.00$ $12/2/15$ 38.41 37.55 $5,596.09$ $12/2/15$ 38.41 37.55 $5,595.29$ $3/30/16$ 39.21 38.35 $5,594.61$ $6/30/16$ 39.89 39.03 $5,593.79$ $9/29/16$ 40.71 39.85 $5,594.20$ $3/30/17$ 40.30 39.44 $5,592.85$ $6/27/17$ 41.65 40.79 $5,592.85$ $3/29/18$ 41.95 41.09 $5,592.45$ $6/22/18$ 42.05 41.19 $5,592.45$ $6/22/18$ 42.05 41.19 $5,592.99$ $3/26/19$ 41.60 40.74 $5,592.99$ $3/26/19$ 41.60 40.74 $5,592.99$ $3/26/19$ 41.60 40.74 $5,592.99$ $3/26/19$ 41.65 $5.592.99$ $5,591.99$ $3/26/19$ 42.51 41.65 $5,592.50$ $6/24/19$ 41.81 40.95 $5,592.78$ $11/19/19$ 41.72 40.86	5,597.18				6/27/13	37.32	36.46	
5,598.00 $3/27/14$ 36.50 35.64 $5,596.34$ $6/25/14$ 38.16 37.30 $5,596.30$ $9/25/14$ 38.20 37.34 $5,596.55$ $12/17/14$ 37.95 37.09 $5,596.20$ $3/26/15$ 38.30 37.44 $5,596.00$ $6/22/15$ 38.50 37.64 $5,596.61$ $9/30/15$ 37.89 37.03 $5,596.69$ $12/2/15$ 38.41 37.55 $5,596.69$ $12/2/15$ 38.41 37.55 $5,595.29$ $3/30/16$ 39.21 38.35 $5,594.61$ $6/30/16$ 39.89 39.03 $5,594.20$ $12/21/16$ 40.71 39.85 $5,594.20$ $3/30/17$ 40.30 39.44 $5,592.60$ $9/26/17$ 41.90 41.04 $5,592.55$ $3/29/18$ 41.95 41.09 $5,592.45$ $6/22/18$ 42.05 41.19 $5,592.45$ $6/22/18$ 41.60 40.74 $5,592.90$ $9/26/18$ 41.60 40.74 $5,592.90$ $9/26/18$ 41.60 40.74 $5,592.69$ $6/24/19$ 41.81 40.95 $5,592.69$ $6/24/19$ 41.81 40.95 $5,592.50$ $8/13/19$ 42.00 41.14 $5,592.78$ $11/19/19$ 41.72 40.86	5,597.36				9/27/13	37.14	36.28	
5,596.34 $6/25/14$ 38.16 37.30 $5,596.30$ $9/25/14$ 38.20 37.34 $5,596.55$ $12/17/14$ 37.95 37.09 $5,596.20$ $3/26/15$ 38.30 37.44 $5,596.00$ $6/22/15$ 38.50 37.64 $5,596.61$ $9/30/15$ 37.89 37.03 $5,596.09$ $12/2/15$ 38.41 37.55 $5,595.29$ $3/30/16$ 39.21 38.35 $5,594.61$ $6/30/16$ 39.89 39.03 $5,593.79$ $9/29/16$ 40.71 39.85 $5,594.20$ $12/21/16$ 40.30 39.44 $5,594.20$ $3/30/17$ 40.30 39.44 $5,592.85$ $6/27/17$ 41.65 40.79 $5,592.60$ $9/26/17$ 41.90 41.04 $5,592.55$ $3/29/18$ 41.95 41.09 $5,592.45$ $6/22/18$ 42.05 41.19 $5,592.90$ $9/26/18$ 41.60 40.74 $5,592.69$ $6/24/19$ 41.81 40.95 $5,592.69$ $6/24/19$ 41.81 40.95 $5,592.50$ $8/13/19$ 42.00 41.14 $5,592.78$ $11/19/19$ 41.72 40.86	5,597.60				12/20/13	36.90	36.04	
5,596.30 $9/25/14$ 38.20 37.34 $5,596.55$ $12/17/14$ 37.95 37.09 $5,596.20$ $3/26/15$ 38.30 37.44 $5,596.00$ $6/22/15$ 38.50 37.64 $5,596.61$ $9/30/15$ 37.89 37.03 $5,596.09$ $12/2/15$ 38.41 37.55 $5,595.29$ $3/30/16$ 39.21 38.35 $5,594.61$ $6/30/16$ 39.89 39.03 $5,593.79$ $9/29/16$ 40.71 39.85 $5,594.20$ $12/21/16$ 40.30 39.44 $5,594.20$ $3/30/17$ 40.30 39.44 $5,592.85$ $6/27/17$ 41.65 40.79 $5,592.60$ $9/26/17$ 41.90 41.04 $5,592.45$ $6/22/18$ 41.09 $5,592.45$ $6/22/18$ 41.09 $5,592.45$ $6/22/18$ 41.60 40.74 $5,592.45$ $6/22/18$ 41.95 41.09 $5,592.60$ $9/26/18$ 41.60 40.74 $5,592.45$ $6/22/18$ 42.05 41.19 $5,592.69$ $6/24/19$ 41.81 40.95 $5,592.69$ $6/24/19$ 41.81 40.95 $5,592.50$ $8/13/19$ 42.00 41.14 $5,592.78$ $11/19/19$	5,598.00				3/27/14	36.50	35.64	
5,596.55 $12/17/14$ 37.95 37.09 $5,596.20$ $3/26/15$ 38.30 37.44 $5,596.00$ $6/22/15$ 38.50 37.64 $5,596.61$ $9/30/15$ 37.89 37.03 $5,596.09$ $12/2/15$ 38.41 37.55 $5,595.29$ $3/30/16$ 39.21 38.35 $5,594.61$ $6/30/16$ 39.89 39.03 $5,593.79$ $9/29/16$ 40.71 39.85 $5,594.20$ $12/21/16$ 40.30 39.44 $5,594.20$ $3/30/17$ 40.30 39.44 $5,592.85$ $6/27/17$ 41.65 40.79 $5,592.60$ $9/26/17$ 41.09 41.04 $5,592.55$ $3/29/18$ 41.95 41.09 $5,592.45$ $6/22/18$ 42.05 41.19 $5,592.45$ $6/22/18$ 42.05 41.19 $5,592.45$ $6/24/19$ 41.81 40.95 $5,592.69$ $6/24/19$ 41.81 40.95 $5,592.69$ $6/24/19$ 41.81 40.95 $5,592.78$ $11/19/19$ 41.72 40.86	5,596.34				6/25/14	38.16	37.30	
5,596.20 $3/26/15$ 38.30 37.44 $5,596.00$ $6/22/15$ 38.50 37.64 $5,596.61$ $9/30/15$ 37.89 37.03 $5,596.09$ $12/2/15$ 38.41 37.55 $5,595.29$ $3/30/16$ 39.21 38.35 $5,594.61$ $6/30/16$ 39.89 39.03 $5,593.79$ $9/29/16$ 40.71 39.85 $5,594.20$ $12/21/16$ 40.30 39.44 $5,594.20$ $3/30/17$ 40.30 39.44 $5,592.85$ $6/27/17$ 41.65 40.79 $5,592.60$ $9/26/17$ 41.90 41.04 $5,592.55$ $3/29/18$ 41.95 41.09 $5,592.45$ $6/22/18$ 42.05 41.19 $5,592.90$ $9/26/18$ 41.60 40.74 $5,592.69$ $6/24/19$ 41.81 40.95 $5,592.50$ $8/13/19$ 42.00 41.14 $5,592.78$ $11/19/19$ 41.72 40.86	5,596.30				9/25/14	38.20	37.34	
5,596.00 $6/22/15$ 38.50 37.64 $5,596.61$ $9/30/15$ 37.89 37.03 $5,596.09$ $12/2/15$ 38.41 37.55 $5,595.29$ $3/30/16$ 39.21 38.35 $5,594.61$ $6/30/16$ 39.89 39.03 $5,593.79$ $9/29/16$ 40.71 39.85 $5,594.20$ $12/21/16$ 40.30 39.44 $5,594.20$ $3/30/17$ 40.30 39.44 $5,592.85$ $6/27/17$ 41.65 40.79 $5,592.60$ $9/26/17$ 41.90 41.04 $5,592.55$ $3/29/18$ 41.95 41.09 $5,592.45$ $6/22/18$ 42.05 41.19 $5,592.90$ $9/26/18$ 41.60 40.74 $5,592.69$ $3/26/19$ 42.51 41.65 $5,592.69$ $6/24/19$ 41.81 40.95 $5,592.50$ $8/13/19$ 42.00 41.14 $5,592.78$ $11/19/19$ 41.72 40.86	5,596.55				12/17/14	37.95	37.09	
5,596.61 $9/30/15$ 37.89 37.03 $5,596.09$ $12/2/15$ 38.41 37.55 $5,595.29$ $3/30/16$ 39.21 38.35 $5,594.61$ $6/30/16$ 39.89 39.03 $5,593.79$ $9/29/16$ 40.71 39.85 $5,594.20$ $12/21/16$ 40.30 39.44 $5,594.20$ $3/30/17$ 40.30 39.44 $5,592.85$ $6/27/17$ 41.65 40.79 $5,592.60$ $9/26/17$ 41.90 41.04 $5,592.55$ $3/29/18$ 41.95 41.09 $5,592.45$ $6/22/18$ 42.05 41.19 $5,592.90$ $9/26/18$ 41.60 40.74 $5,592.69$ $6/24/19$ 41.81 40.95 $5,592.50$ $8/13/19$ 42.00 41.14 $5,592.78$ $11/19/19$ 41.72 40.86	5,596.20				3/26/15	38.30	37.44	
5,596.09 $12/2/15$ 38.41 37.55 $5,595.29$ $3/30/16$ 39.21 38.35 $5,594.61$ $6/30/16$ 39.89 39.03 $5,593.79$ $9/29/16$ 40.71 39.85 $5,594.20$ $12/21/16$ 40.30 39.44 $5,592.85$ $6/27/17$ 41.65 40.79 $5,592.60$ $9/26/17$ 41.90 41.04 $5,593.33$ $11/29/17$ 41.17 40.31 $5,592.45$ $6/22/18$ 42.05 41.19 $5,592.90$ $9/26/18$ 41.60 40.74 $5,592.90$ $9/26/18$ 41.60 40.74 $5,592.69$ $6/24/19$ 41.81 40.95 $5,592.50$ $8/13/19$ 42.00 41.14 $5,592.78$ $11/19/19$ 41.72 40.86	5,596.00				6/22/15	38.50	37.64	
5,595.29 $3/30/16$ 39.21 38.35 $5,594.61$ $6/30/16$ 39.89 39.03 $5,593.79$ $9/29/16$ 40.71 39.85 $5,594.20$ $12/21/16$ 40.30 39.44 $5,594.20$ $3/30/17$ 40.30 39.44 $5,592.85$ $6/27/17$ 41.65 40.79 $5,592.60$ $9/26/17$ 41.90 41.04 $5,593.33$ $11/29/17$ 41.17 40.31 $5,592.55$ $3/29/18$ 41.95 41.09 $5,592.45$ $6/22/18$ 42.05 41.19 $5,592.90$ $9/26/18$ 41.60 40.74 $5,594.29$ $12/18/18$ 40.21 39.35 $5,591.99$ $3/26/19$ 42.51 41.65 $5,592.60$ $6/24/19$ 41.81 40.95 $5,592.50$ $8/13/19$ 42.00 41.14 $5,592.78$ $11/19/19$ 41.72 40.86	5,596.61				9/30/15	37.89	37.03	
5,594.61 $6/30/16$ 39.89 39.03 $5,593.79$ $9/29/16$ 40.71 39.85 $5,594.20$ $12/21/16$ 40.30 39.44 $5,594.20$ $3/30/17$ 40.30 39.44 $5,592.85$ $6/27/17$ 41.65 40.79 $5,592.60$ $9/26/17$ 41.90 41.04 $5,593.33$ $11/29/17$ 41.17 40.31 $5,592.55$ $3/29/18$ 41.95 41.09 $5,592.45$ $6/22/18$ 42.05 41.19 $5,592.90$ $9/26/18$ 41.60 40.74 $5,594.29$ $12/18/18$ 40.21 39.35 $5,591.99$ $3/26/19$ 42.51 41.65 $5,592.60$ $6/24/19$ 41.81 40.95 $5,592.50$ $8/13/19$ 42.00 41.14 $5,592.78$ $11/19/19$ 41.72 40.86	5,596.09				12/2/15	38.41	37.55	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	5,595.29				3/30/16	39.21	38.35	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	5,594.61				6/30/16		39.03	
5,594.20 $3/30/17$ 40.30 39.44 $5,592.85$ $6/27/17$ 41.65 40.79 $5,592.60$ $9/26/17$ 41.90 41.04 $5,593.33$ $11/29/17$ 41.17 40.31 $5,592.55$ $3/29/18$ 41.95 41.09 $5,592.45$ $6/22/18$ 42.05 41.19 $5,592.90$ $9/26/18$ 41.60 40.74 $5,594.29$ $12/18/18$ 40.21 39.35 $5,591.99$ $3/26/19$ 42.51 41.65 $5,592.69$ $6/24/19$ 41.81 40.95 $5,592.50$ $8/13/19$ 42.00 41.14 $5,592.78$ $11/19/19$ 41.72 40.86	5,593.79				9/29/16	40.71	39.85	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	5,594.20				12/21/16	40.30	39.44	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	5,594.20				3/30/17	40.30	39.44	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	5,592.85				6/27/17	41.65	40.79	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	5,592.60				9/26/17	41.90	41.04	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	5,593.33				11/29/17	41.17	40.31	
5,592.909/26/1841.6040.745,594.2912/18/1840.2139.355,591.993/26/1942.5141.655,592.696/24/1941.8140.955,592.508/13/1942.0041.145,592.7811/19/1941.7240.86	5,592.55				3/29/18	41.95	41.09	
5,594.2912/18/1840.2139.355,591.993/26/1942.5141.655,592.696/24/1941.8140.955,592.508/13/1942.0041.145,592.7811/19/1941.7240.86	5,592.45				6/22/18		41.19	
5,591.993/26/1942.5141.655,592.696/24/1941.8140.955,592.508/13/1942.0041.145,592.7811/19/1941.7240.86	5,592.90				9/26/18	41.60	40.74	
5,592.696/24/1941.8140.955,592.508/13/1942.0041.145,592.7811/19/1941.7240.86	5,594.29				12/18/18	40.21	39.35	
5,592.508/13/1942.0041.145,592.7811/19/1941.7240.86	5,591.99				3/26/19	42.51	41.65	
5,592.78 11/19/19 41.72 40.86	5,592.69				6/24/19	41.81	40.95	
	5,592.50				8/13/19	42.00	41.14	
5,592.33 2/13/20 42.17 41.31					11/19/19	41.72	40.86	
	5,592.33				2/13/20	42.17	41.31	

Water Levels and Data over Time White Mesa Mill - Well TWN-3 Total or

					lotal or			
		Measuring			Measured	Total		
Water	Land	Point			Depth to	Depth to	Total	
Elevation	Surface	Elevation	Length Of	Date Of	Water	Water	Depth Of	
(WL)	(LSD)	(MP)	Riser (L)	Monitoring	(blw.MP)	(blw.LSD)	Well	
5,591.78				5/5/20	42.72	41.86		
5,591.67				9/22/20	42.83	41.97		
5,592.09				12/30/20	42.41	41.55		
5,591.62				3/11/21	42.88	42.02		
5,591.89				6/24/21	42.61	41.75		
5,591.66				8/11/21	42.84	41.98		
5,592.09				12/28/21	42.41	41.55		
5,591.01				2/10/22	43.49	42.63		

Water Levels and Data over Time White Mesa Mill - Well TWN-3 Total or

					Total or		
		Measuring			Measured	Total	
Water	Land	Point			Depth to	Depth to	Total
Elevation	Surface	Elevation	Length Of	Date Of	Water	Water	Depth Of
(WL)	(LSD)	(MP)	Riser (L)	Monitoring	(blw.MP)	(blw.LSD)	Well
	5,641.04	5,641.87	0.83				126.4
5,601.47				2/6/09	40.40	39.57	
5,604.26				7/21/09	37.61	36.78	
5,605.02				9/21/09	36.85	36.02	
5,605.87				10/28/09	36.00	35.17	
5,605.81				12/14/09	36.06	35.23	
5,605.31				3/11/10	36.56	35.73	
5,605.36				5/11/10	36.51	35.68	
5,604.59				9/29/10	37.28	36.45	
5,604.42				12/21/10	37.45	36.62	
5,603.69				2/28/11	38.18	37.35	
5,603.36				6/21/11	38.51	37.68	
5,602.82				9/20/11	39.05	38.22	
5,602.79				12/21/11	39.08	38.25	
5,600.82				3/27/12	41.05	40.22	
5,600.84				6/28/12	41.03	40.20	
5,598.47				9/27/12	43.40	42.57	
5,600.86				12/28/12	41.01	40.18	
5,595.57				3/28/13	46.30	45.47	
5,594.12				6/27/13	47.75	46.92	
5,593.33				9/27/13	48.54	47.71	
5,591.92				12/20/13	49.95	49.12	
5,591.85				3/27/14	50.02	49.19	
5,590.49				6/25/14	51.38	50.55	
5,589.64				9/25/14	52.23	51.40	
5,589.42				12/17/14	52.45	51.62	
5,589.17				3/26/15	52.70	51.87	
5,588.17				6/22/15	53.70	52.87	
5,587.48				9/30/15	54.39	53.56	
5,587.02				12/2/15	54.85	54.02	
5,586.90				3/20/16	54.97	54.14	
5,586.18				6/30/16	55.69	54.86	
5,585.72				9/29/16	56.15	55.32	
5585.42				12/21/16	56.45	55.62	
5586.35				3/30/17	55.52	54.69	
5585.09				6/27/17	56.78	55.95	
5584.41				9/26/17	57.46	56.63	
5584.07				11/29/17	57.80	56.97	
5583.76				3/29/18	58.11	57.28	
5583.47				6/22/18	58.40	57.57	
5582.92				9/26/18	58.95	58.12	
5582.66				12/18/18	59.21	58.38	
5582.23				3/26/19	59.64	58.81	
5581.97				6/24/19	59.90	59.07	
5581.96				8/13/19	59.91	59.08	
5581.68				11/19/19	60.19	59.36	
5581.34				2/13/20	60.53	59.70	

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

					Total or		
		Measuring			Measured	Total	
Water	Land	Point			Depth to	Depth to	Total
Elevation	Surface	Elevation	Length Of	Date Of	Water	Water	Depth Of
(WL)	(LSD)	(MP)	Riser (L)	Monitoring	(blw.MP)	(blw.LSD)	Well
	5,641.04	5,641.87	0.83				126.4
5580.99				5/5/20	60.88	60.05	
5580.45				9/22/20	61.42	60.59	
5580.34				12/30/20	61.53	60.70	
5580.29				3/11/21	61.58	60.75	
5579.80				6/24/21	62.07	61.24	
5579.55				8/11/21	62.32	61.49	
5579.87				12/28/21	62.00	61.17	
5579.25				2/10/22	62.62	61.79	

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

					Total or		
		Measuring			Measured	Total	
Water	Land	Point			Depth to	Depth to	Total
Elevation	Surface	Elevation	Length Of	Date Of	Water	Water	Depth Of
(WL)	(LSD)	(MP)	Riser (L)	Monitoring	(blw.MP)	(blw.LSD)	Well
()	5,663.03	5,664.94	1.91		(001110100)	(011111010)	131.91
5,589.52	-,			8/25/09	75.42	73.51	
5,589.46				9/22/09	75.48	73.57	
5,589.61				11/3/09	75.33	73.42	
5,589.92				12/14/09	75.02	73.11	
5,590.24				3/11/10	74.70	72.79	
5,590.40				5/11/10	74.54	72.63	
5,590.24				9/29/10	74.70	72.79	
5,590.49				12/21/10	74.45	72.54	
5,590.16				2/28/11	74.78	72.87	
5,590.44				6/21/11	74.50	72.59	
5,590.35				9/20/11	74.59	72.68	
5,590.67				12/21/11	74.27	72.36	
5,590.34				3/27/12	74.60	72.69	
5,590.32				6/28/12	74.62	72.71	
5,589.77				9/27/12	75.17	73.26	
5,589.67				12/28/12	75.27	73.36	
5,589.45				3/28/13	75.49	73.58	
5,589.01				6/27/13	75.93	74.02	
5,588.99				9/27/13	75.95	74.04	
5,588.15				12/20/13	76.79	74.88	
5,588.50				3/27/14	76.44	74.53	
5,588.03				6/25/14	76.91	75.00	
5,587.74				9/25/14	77.20	75.29	
5,587.69				12/17/14	77.25	75.34	
5,587.29				3/26/15	77.65	75.74	
5,587.04				6/22/15	77.90	75.99	
5,586.93				9/30/15	78.01	76.10	
5,586.72				12/2/15	78.22	76.31	
5,586.92				3/30/16	78.02	76.11	
5,586.32				6/30/16	78.62	76.71	
5,586.16				9/29/16	78.78	76.87	
5,586.03				12/21/16	78.91	77.00	
5,586.40				3/30/17	78.54	76.63	
5,605.99				6/27/17	58.95	57.04	
5585.76				9/26/17	79.18	77.27	
5585.59				11/29/17	79.35	77.44	
5585.63				3/29/18	79.31	77.4	
5585.59				6/22/18	79.35	77.44	
5585.26				9/26/18	79.68	77.77	
5585.27				12/18/18	79.67	77.76	
5585.16				3/26/19	79.78	77.87	
5585.05				6/24/19	79.89	77.98	
5584.86				8/13/19	80.08	78.17	
5585.14				11/19/19	79.80	77.89	
5584.92				2/13/20	80.02	78.11	
5585.27				5/5/20	79.67	77.76	

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

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,663.03	5,664.94	1.91				131.91
5584.46				9/22/20	80.48	78.57	
5584.58				12/30/20	80.36	78.45	
5584.73				3/11/21	80.21	78.30	
5584.38				6/24/21	80.56	78.65	
5584.25		5		8/11/21	80.69	78.78	
5584.46				12/28/21	80.48	78.57	
5584.2				2/10/22	80.74	78.83	

Water Levels and Data over Time White Mesa Mill - Well TWN-6 Total or

						Total or		
	_		Measuring			Measured	Total	
	Water	Land	Point			Depth to	Depth to	Total
	Elevation	Surface	Elevation	Length Of	Date Of	Water	Water	Depth Of
ā	(WL)	(LSD)	(MP)	Riser (L)	Monitoring	(blw.MP)	(blw.LSD)	Well
à		5,647.39	5,649.26	1.87				107.2
	5,552.56				08/25/09	96.70	94.83	
	5,558.34				09/21/09	90.92	89.05	
	5,558.82				11/10/09	90.44	88.57	
	5,558.96				12/14/09	90.30	88.43	
	5,559.54				03/11/10	89.72	87.85	
	5,559.60				05/11/10	89.66	87.79	
	5,559.83				09/29/10	89.43	87.56	
	5,559.00				12/21/10	90.26	88.39	
	5,559.68				02/28/11	89.58	87.71	
	5,560.43				06/21/11	88.83	86.96	
	5,560.46				09/20/11	88.80	86.93	
	5,560.78				12/21/11	88.48	86.61	
	5,560.92				03/27/12	88.34	86.47	
	5,560.87				06/28/12	88.39	86.52	
	5,561.40				09/27/12	87.86	85.99	
	5,561.50				12/28/12	87.76	85.89	
	5,562.01				03/28/13	87.25	85.38	
	5,562.21				06/27/13	87.05	85.18	
	5,562.41				09/27/13	86.85	84.98	
	5,562.23				12/20/13	87.03	85.16	
	5,562.85				03/27/14	86.41	84.54	
	5,562.95				06/25/14	86.31	84.44	
	5,563.06				09/25/14	86.20	84.33	
	5,563.21				12/17/14	86.05	84.18	
	5,563.33				03/26/15	85.93	84.06	
	5,563.46				06/22/15	85.80	83.93	
	5,563.64				09/30/15	85.62	83.75	
	5,563.88				12/02/15	85.38	83.51	
	5,564.19				03/30/16	85.07	83.20	
	5,563.97				06/30/16	85.29	83.42	
	5,564.21				09/29/16	85.05	83.18	
	5,564.46				12/21/16	84.80	82.93	
	5,564.96				03/30/17	84.30	82.43	
	5,564.81				06/27/17	84.45	82.58	
	5,565.46				09/26/17	83.80	81.93	
	5,565.45				11/29/17	83.81	81.94	
	5,566.11				03/29/18	83.15	81.28	
	5,566.21				06/22/18	83.05	81.18	
	5,566.42				09/26/18	82.84	80.97	
	5,566.09				12/18/18	83.17	81.30	
	5,566.67				03/26/19	82.59	80.72	
	5,566.93				06/24/19	82.33	80.46	
	5,567.28				08/13/19	81.98	80.11	
	5,567.26				11/19/19	82.00	80.13	
	5,567.12				02/13/20	82.14	80.27	
	5,567.14				05/05/20	82.12	80.25	

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

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,647.39	5,649.26	1.87				107.2
5,567.98				09/22/20	81.28	79.41	
5,568.38				12/30/20	80.88	79.01	
5,568.18				03/11/21	81.08	79.21	
5,568.50				06/24/21	80.76	78.89	
5,568.71				08/11/21	80.55	78.68	
5,568.56				12/28/21	80.70	78.83	
5,568.90				02/10/22	80.36	78.49	

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

Water Bar Elevation (USD)Measuring PointMeasured Depth to (MP)Total Depth 0 Riser (L)Depth to Depth 0 MonitoringTotal Depth 0 (blw.MP) $5,586.18$ 5,649.531.7312/14/0963.3561.62 $5,586.51$ 12/14/0963.0261.2912/17 $5,586.51$ 3/11/1062.8261.09 $5,586.53$ 9/29/1063.0061.27 $5,586.53$ 9/29/1063.0061.27 $5,586.53$ 9/29/1063.0061.27 $5,586.53$ 9/20/1162.7361.00 $5,586.53$ 9/20/1162.8061.07 $5,586.73$ 9/20/1162.8061.07 $5,587.73$ 9/20/1162.8060.73 $5,587.73$ 9/20/1162.6060.73 $5,587.73$ 9/27/1262.4660.73 $5,587.74$ 6/28/1262.4360.70 $5,587.73$ 9/27/1362.1060.37 $5,587.74$ 6/27/1362.1060.37 $5,587.74$ 9/27/1361.8160.08 $5,587.74$ 6/25/1461.77 $5,587.74$ 6/25/1461.77 $5,587.74$ 6/22/1561.55 $5,587.74$ 6/22/1561.55 $5,587.74$ 6/22/1461.77 $5,587.74$ 6/22/1461.77 $5,587.74$ 6/22/1461.77 $5,588.79$ 3/30/1760.35 $5,588.79$ 3/30/1760.35 $5,588.79$ 3/30/1760.77 $5,588$						Total or		
Water BlevationLand SurfacePoint ElevationLength Of Name (LSD)Date Of Namitoring (blw.MP)Depth to WaterDepth Of Water $5,647.80$ $5,649.53$ 1.73 $11/4/09$ 63.35 61.62 $5,586.11$ $11/4/09$ 63.35 61.62 124.73 $5,586.71$ $3/11/10$ 62.82 61.09 $5,586.73$ $3/11/10$ 62.82 61.09 $5,586.73$ $3/11/10$ 62.81 61.08 $5,586.74$ $2/22/11$ 62.79 61.06 $5,586.73$ $9/20/11$ 62.80 60.96 $5,586.74$ $2/22/11$ 62.59 60.96 $5,586.73$ $9/20/11$ 62.80 60.73 $5,587.07$ $3/27/12$ 62.46 60.73 $5,587.07$ $3/27/12$ 62.46 60.73 $5,587.10$ $6/28/12$ 62.20 60.47 $5,587.22$ $12/28/11$ 62.20 60.47 $5,587.22$ $12/28/12$ 62.20 60.47 $5,587.76$ $9/27/13$ 61.81 $5,587.97$ $3/26/15$ 61.55 $5,587.98$ $12/2/1/16$ 61.55 $5,587.98$ $12/2/1/16$ 61.77 $5,587.98$ $3/27/14$ 61.65 $5,587.98$ $3/27/14$ 61.65 $5,587.98$ $9/27/13$ 61.81 60.98 $5.587.97$ $5,587.98$ $9/27/13$ 61.35 $5,587.98$ $6/22/14$ 61.77 $5,587.98$ $6/22/16$ 61.77 <tr< th=""><th></th><th></th><th>Measuring</th><th></th><th></th><th></th><th>Total</th><th></th></tr<>			Measuring				Total	
Elevation (LSD) Surface (MP) Elevation (MP) Length Of Riser (L) Date Of Monitoring Water (blw.MP) Depth Of (blw.LSD) 5,647.80 5,647.80 5,649.53 1.73 5,866.18 11/4/09 63.35 61.62 5,586.51 12/14/09 63.02 61.29 5,586.72 5,586.73 5/11/10 62.82 61.09 5,586.73 9/29/10 63.00 61.27 5 5,586.73 9/20/11 62.69 60.96 5 5,586.73 9/20/11 62.69 60.96 5 5,587.07 3/27/12 62.46 60.73 5 5,587.07 3/27/12 62.46 60.73 5 5,587.72 9/27/13 62.10 60.37 5 5,587.72 9/27/13 62.10 60.37 5 5,587.72 9/27/13 62.10 60.37 5 5,587.74 6/22/13 62.10 60.37 5 5,587.72 9/27/13 61.81 <th>Water</th> <th>Land</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>Total</th>	Water	Land						Total
(WL)(LSD)(MP)Riser (L)Monitoring(blw.MP)(blw.LSD)Well5.647.805.649.531.7311/4/09 63.35 61.62 5.586.5112/14/09 63.02 61.29 5.866.713/11/10 62.81 61.08 5.586.725/11/10 62.81 61.08 5.586.739/22/10 63.00 61.27 5.586.742/22/110 62.79 61.06 5.586.739/22/11 62.69 60.96 5.586.742/22/11 62.69 60.96 5.586.739/22/11 62.69 60.73 5.587.073/27/12 62.46 60.73 5.587.10 $672/13$ 62.10 60.37 5.587.3312/22/12 62.20 60.47 5.587.43 $3/27/12$ 62.20 60.47 5.587.74 $9/27/13$ 61.10 65.88 5.587.75 $9/27/13$ 61.10 60.37 5.587.74 $9/27/13$ 61.10 60.37 5.587.74 $6/27/13$ 62.10 60.37 5.587.75 $9/27/14$ 61.62 59.89 5.587.76 $9/27/14$ 61.62 59.89 5.587.76 $9/27/14$ 61.55 59.82 5.587.81 $9/20/16$ 61.77 59.84 5.587.98 $6/22/15$ 61.55 59.82 5.587.99 $6/22/15$ 61.55 59.82 5.587.91 $3/30/16$ 60.23 59.25 5.588.31 $9/20/16$ 61.77 59.84 <th></th> <th></th> <th></th> <th>Length Of</th> <th>Date Of</th> <th>-</th> <th>-</th> <th></th>				Length Of	Date Of	-	-	
5,647.80 $5,649.53$ 1.73 124.73 $5,586.51$ $12/14/09$ 63.35 61.62 $5,586.51$ $21/14/09$ 63.02 61.29 $5,586.71$ $3/11/10$ 62.82 61.09 $5,586.53$ $9/29/10$ 63.00 61.27 $5,586.53$ $9/29/10$ 62.30 61.07 $5,586.53$ $9/20/11$ 62.69 60.96 $5,586.73$ $9/20/11$ 62.80 61.07 $5,587.73$ $9/20/11$ 62.46 60.73 $5,587.07$ $3/27/12$ 62.46 60.73 $5,587.10$ $6/28/12$ 62.243 60.73 $5,587.33$ $12/21/12$ 62.46 60.73 $5,587.10$ $9/27/12$ 62.46 60.73 $5,587.72$ $9/27/13$ 62.10 60.37 $5,587.72$ $9/27/13$ 62.10 60.37 $5,587.74$ $6/25/14$ 61.77 60.06 $5,587.88$ $12/2$				-				-
5,886.18 $11/4/09$ 63.35 61.62 $5,886.51$ $12/14/09$ 63.02 61.29 $5,886.51$ $3/11/10$ 62.82 61.09 $5,886.72$ $5/11/10$ 62.81 61.08 $5,886.53$ $9/29/10$ 63.00 61.27 $5,586.53$ $9/29/10$ 63.00 61.27 $5,586.74$ $2/28/11$ 62.79 61.06 $5,586.73$ $9/20/11$ 62.80 61.07 $5,586.73$ $9/20/11$ 62.80 61.07 $5,586.73$ $9/20/11$ 62.43 60.70 $5,587.70$ $3/27/12$ 62.46 60.73 $5,587.07$ $9/27/12$ 62.46 60.73 $5,587.10$ $6/28/12$ 62.20 60.47 $5,587.33$ $12/28/12$ 62.10 60.37 $5,587.43$ $3/228/13$ 62.10 60.37 $5,587.22$ $12/20/13$ 62.31 60.58 $5,587.74$ $6/27/13$ 61.81 60.08 $5,587.74$ $6/22/14$ 61.79 60.06 $5,587.74$ $6/22/14$ 61.79 60.04 $5,587.74$ $6/22/14$ 61.79 59.89 $5,587.74$ $9/25/14$ 61.55 59.82 $5,587.91$ $3/21/14$ 61.35 59.82 $5,587.92$ $12/2/15$ 61.35 59.82 $5,588.73$ $9/25/14$ 61.79 59.62 $5,588.73$ $9/25/14$ 61.22 59.49 $5,588.74$ $9/26/16$ 61.17 59.48 <					intoining	(04)101(14)	(8111252)	
5,586.51 $12/14/09$ 63.02 61.29 $5,586.72$ $5/11/10$ 62.81 61.08 $5,586.72$ $5/11/10$ 62.73 61.00 $5,586.53$ $9/29/10$ 63.00 61.27 $5,586.74$ $2/21/11$ 62.73 61.00 $5,586.74$ $2/21/11$ 62.69 60.96 $5,586.73$ $9/20/11$ 62.80 61.07 $5,586.73$ $9/20/11$ 62.80 61.07 $5,587.07$ $3/27/12$ 62.46 60.73 $5,587.07$ $3/27/12$ 62.46 60.73 $5,587.07$ $9/27/12$ 62.46 60.73 $5,587.07$ $9/27/12$ 62.46 60.73 $5,587.33$ $12/28/12$ 62.10 60.37 $5,587.43$ $62/21/13$ 62.10 60.37 $5,587.72$ $9/27/13$ 61.81 60.08 $5,587.72$ $9/27/13$ 61.81 60.08 $5,587.74$ $6/25/14$ 61.77 60.06 $5,587.74$ $6/25/14$ 61.77 60.06 $5,587.74$ $6/25/14$ 61.77 60.06 $5,587.74$ $6/25/14$ 61.77 60.06 $5,587.97$ $3/26/15$ 61.55 59.82 $5,587.97$ $3/26/15$ 61.55 59.62 $5,588.31$ $6/30/16$ 61.27 59.42 $5,587.98$ $6/22/17$ 61.55 59.62 $5,588.31$ $6/20/17$ 60.67 58.94 $5,587.98$ $3/30/17$ 60.33 59.10 <t< td=""><td>5 586 18</td><td>51011100</td><td>0,017100</td><td></td><td>11/4/09</td><td>63 35</td><td>61.62</td><td></td></t<>	5 586 18	51011100	0,017100		11/4/09	63 35	61.62	
5,88.71 $3/11/10$ 62.82 61.09 $5,88.672$ $5/11/10$ 62.81 61.08 $5,88.672$ $9/29/10$ 63.00 61.27 $5,586.53$ $9/29/10$ 62.73 61.00 $5,586.74$ $228/11$ 62.79 61.06 $5,586.73$ $9/20/11$ 62.80 60.96 $5,586.73$ $9/20/11$ 62.80 61.07 $5,586.98$ $12/21/11$ 62.55 60.82 $5,587.07$ $3/27/12$ 62.46 60.73 $5,587.10$ $6628/12$ 62.43 60.70 $5,587.33$ $12/28/12$ 62.20 60.47 $5,587.43$ $3/28/13$ 62.10 60.37 $5,587.43$ $3/28/13$ 62.10 60.37 $5,587.72$ $9/27/13$ 61.81 60.08 $5,587.72$ $9/27/14$ 61.62 59.89 $5,587.72$ $9/27/14$ 61.62 59.89 $5,587.74$ $6/22/14$ 61.79 60.06 $5,587.75$ $9/25/14$ 61.79 60.06 $5,587.76$ $9/25/14$ 61.79 60.04 $5,587.88$ $12/17/14$ 61.55 59.82 $5,588.33$ $6/22/15$ 61.55 59.83 $5,587.97$ $3/26/15$ 61.55 59.83 $5,587.98$ $6/22/15$ 61.55 59.82 $5,588.33$ $6/22/15$ 61.55 59.82 $5,588.34$ $9/20/16$ 61.17 59.44 $5,588.35$ $9/20/16$ 61.17 59.44								
5,88.72 $5/11/10$ 62.81 61.08 $5,88.63$ $9/29/10$ 63.00 61.27 $5,586.84$ $12/21/10$ 62.73 61.00 $5,586.74$ $2/28/11$ 62.79 61.06 $5,586.73$ $9/20/11$ 62.69 60.96 $5,586.73$ $9/20/11$ 62.69 60.96 $5,586.73$ $9/20/11$ 62.64 60.73 $5,587.07$ $3/27/12$ 62.46 60.73 $5,587.10$ $6/28/12$ 62.20 60.47 $5,587.33$ $12/28/12$ 62.20 60.47 $5,587.43$ $3/28/13$ 62.10 60.37 $5,587.43$ $6/27/13$ 61.81 60.08 $5,587.72$ $9/27/13$ 61.81 60.08 $5,587.72$ $9/27/13$ 61.81 60.08 $5,587.74$ $6/25/14$ 61.79 60.06 $5,587.76$ $9/27/14$ 61.65 59.83 $5,587.76$ $9/22/15$ 61.55 59.82 $5,587.76$ $9/20/15$ 61.55 59.82 $5,587.88$ $12/21/16$ 61.55 59.82 $5,587.89$ $6/22/15$ 61.55 59.82 $5,588.31$ $6/30/16$ 60.23 59.62 $5,588.33$ $6/22/15$ 61.55 59.82 $5,588.43$ $12/21/16$ 61.10 59.37 $5,588.34$ $9/26/18$ 60.41 58.68 5589.12 $3/20/17$ 60.77 58.84 5589.12 $3/20/17$ 60.34 58.61								
5,586.53 9/29/10 63.00 61.27 5,586.74 2/28/11 62.73 61.00 5,586.74 2/28/11 62.69 60.96 5,586.73 9/20/11 62.80 61.07 5,586.73 9/20/11 62.80 61.07 5,587.07 3/27/12 62.46 60.73 5,587.07 9/27/12 62.46 60.73 5,587.33 12/28/12 62.20 60.47 5,587.33 12/28/12 62.20 60.47 5,587.43 3/28/13 62.10 60.37 5,587.72 9/27/13 61.81 60.08 5,587.74 6/25/14 61.79 60.06 5,587.75 9/27/13 62.31 60.58 5,587.76 9/25/14 61.77 60.04 5,587.76 9/25/14 61.77 60.04 5,587.76 9/25/14 61.55 59.82 5,587.97 3/26/15 61.55 59.82 5,587.98 6/22/15 61.55 59.82 5,588.70 3/30/16 61.35 5								
5,586.80 12/21/10 62.73 61.00 5,586.74 22.8/11 62.79 61.06 5,586.73 9/20/11 62.69 60.96 5,586.73 9/20/11 62.80 61.07 5,586.73 9/20/11 62.80 60.73 5,587.07 3/27/12 62.46 60.73 5,587.10 62.81/2 62.43 60.70 5,587.33 12/28/12 62.20 60.47 5,587.43 3/28/13 62.10 60.37 5,587.43 6/27/13 62.10 60.37 5,587.72 9/27/13 61.81 60.08 5,587.74 6/25/14 61.79 60.06 5,587.74 6/25/14 61.79 60.06 5,587.74 6/25/14 61.79 60.06 5,587.75 9/25/14 61.55 59.82 5,587.74 6/22/15 61.55 59.82 5,587.75 9/26/15 61.55 59.82 5,587.88 9/26/15 61.35 59.82 5,588.70 3/30/16 60.83 5								
5,86.74 $2/28/11$ 62.79 61.06 $5,86.84$ $6'21/11$ 62.69 60.96 $5,86.73$ $9'20/11$ 62.69 60.96 $5,86.98$ $12/21/11$ 62.55 60.82 $5,87.07$ $3/27/12$ 62.46 60.73 $5,587.07$ $9'27/12$ 62.46 60.73 $5,587.07$ $9'27/12$ 62.46 60.73 $5,587.07$ $9'27/12$ 62.46 60.73 $5,587.33$ $12/28/12$ 62.20 60.47 $5,587.43$ $3'2X/13$ 62.10 60.37 $5,587.43$ $6'27/13$ 62.10 60.37 $5,587.22$ $9'27/13$ 61.81 60.08 $5,587.23$ $9'27/13$ 61.81 60.08 $5,587.74$ $6'25/14$ 61.79 60.06 $5,587.74$ $6'25/14$ 61.79 60.04 $5,587.76$ $9'25/14$ 61.55 59.82 $5,587.97$ $3'26/15$ 61.56 59.83 $5,587.98$ $6'22/15$ 61.55 59.82 $5,588.70$ $3'30/16$ 60.83 59.10 $5,588.31$ $6'30/16$ 61.22 59.49 $5,588.36$ $9'26/17$ 60.57 58.84 $5,589.07$ $3'30/17$ 60.57 58.84 5589.12 $3'30/17$ 60.57 58.84 5589.12 $3'26/17$ 60.57 58.84 5589.12 $3'26/17$ 60.57 58.48 5589.12 $3'26/19$ 60.21 58.48 5589.32	5							
5,586.84 $6/21/11$ 62.69 60.96 $5,586.73$ $9/20/11$ 62.80 61.07 $5,586.98$ $12/21/11$ 62.55 60.82 $5,587.07$ $32/27/12$ 62.46 60.73 $5,587.07$ $9/27/12$ 62.46 60.73 $5,587.07$ $9/27/12$ 62.46 60.73 $5,587.33$ $12/28/12$ 62.20 60.47 $5,587.33$ $3/28/13$ 62.10 60.37 $5,587.43$ $6/27/13$ 61.81 60.08 $5,587.72$ $9/27/13$ 61.81 60.08 $5,587.72$ $9/27/14$ 61.62 59.89 $5,587.74$ $6/25/14$ 61.77 60.04 $5,587.76$ $9/25/14$ 61.77 60.04 $5,587.76$ $9/25/14$ 61.55 59.82 $5,587.97$ $3/26/15$ 61.55 59.83 $5,587.97$ $3/26/15$ 61.55 59.82 $5,588.18$ $9/30/15$ 61.35 59.62 $5,588.18$ $9/30/15$ 61.35 59.62 $5,588.30$ $3/30/16$ 61.22 59.49 $5,588.43$ $12/21/16$ 61.10 59.37 $5,588.43$ $12/21/16$ 61.10 59.37 $5,588.43$ $12/21/16$ 61.17 59.44 $5,588.43$ $12/21/16$ 61.17 59.44 $5,588.43$ $12/21/16$ 61.17 59.44 $5,588.43$ $12/21/16$ 61.17 59.44 $5,588.43$ $12/21/16$ 61.17 59.44 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
5,586.73 9/20/11 62.80 61.07 5,586.98 12/21/11 62.55 60.82 5,587.07 3/27/12 62.46 60.73 5,587.10 62/81/2 62.43 60.70 5,587.07 9/27/12 62.46 60.73 5,587.07 9/27/13 62.10 60.37 5,587.43 3/28/13 62.10 60.37 5,587.72 9/27/13 61.81 60.08 5,587.72 9/27/13 61.81 60.08 5,587.72 9/27/13 61.79 60.06 5,587.74 61.51 59.89 5,587.74 5,587.76 9/25/14 61.79 60.06 5,587.97 3/26/15 61.55 59.82 5,587.98 62/21/5 61.55 59.82 5,588.18 9/30/15 61.35 59.62 5,588.31 63/0/16 61.22 59.49 5,588.43 12/21/16 61.17 59.44 5,588.43 12/21/17 60.46 58.73 5,588.43 12/21/16 61.17 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>								
5,586.98 12/21/11 62.55 60.82 5,587.07 3/27/12 62.46 60.73 5,587.07 9/27/12 62.46 60.73 5,587.03 12/28/12 62.20 60.47 5,587.33 12/28/12 62.20 60.47 5,587.43 3/28/13 62.10 60.37 5,587.72 9/27/13 61.81 60.08 5,587.72 9/27/14 61.62 59.89 5,587.74 6/25/14 61.79 60.06 5,587.76 9/25/14 61.77 60.04 5,587.76 9/25/14 61.55 59.82 5,587.98 6/22/15 61.55 59.82 5,587.99 3/26/15 61.35 59.62 5,587.98 6/22/15 61.35 59.62 5,588.18 9/30/15 61.35 59.62 5,588.31 6/30/16 61.22 59.49 5,588.43 12/21/16 61.17 59.44 5,588.43 12/21/16 61.10 59.37 5,588.43 12/21/16 61.17 <								
5,587.07 $3/27/12$ 62.46 60.73 $5,587.10$ $6/28/12$ 62.43 60.70 $5,587.07$ $9/27/12$ 62.46 60.73 $5,587.33$ $12/28/12$ 62.20 60.47 $5,587.43$ $3/28/13$ 62.10 60.37 $5,587.43$ $6/27/13$ 62.10 60.37 $5,587.72$ $9/27/13$ 61.81 60.68 $5,587.22$ $12/20/13$ 62.31 60.58 $5,587.74$ $6/25/14$ 61.79 60.06 $5,587.76$ $9/25/14$ 61.77 60.04 $5,587.76$ $9/25/14$ 61.55 59.83 $5,587.76$ $9/25/14$ 61.56 59.92 $5,587.97$ $3/26/15$ 61.56 59.83 $5,587.97$ $3/26/15$ 61.55 59.82 $5,588.18$ $9/30/15$ 61.35 59.62 $5,588.23$ $12/21/5$ 61.30 59.57 $5,588.70$ $3/30/16$ 60.83 59.10 $5,588.31$ $6/30/16$ 61.22 59.49 $5,588.43$ $12/21/16$ 61.10 59.37 $5,588.45$ $9/26/17$ 60.67 58.84 $5,589.07$ $6/27/17$ 60.44 58.68 5589.12 $3/26/18$ 60.41 58.84 5589.12 $3/26/19$ 60.21 58.48 5589.12 $9/26/18$ 60.41 58.68 5589.12 $3/26/19$ 60.21 58.48 5589.32 $3/26/19$ 60.21 58.48 55								
5,587.10 $6/28/12$ 62.43 60.70 $5,587.07$ $9/27/12$ 62.46 60.73 $5,587.33$ $12/28/12$ 62.20 60.47 $5,587.43$ $3/28/13$ 62.10 60.37 $5,587.43$ $62/27/13$ 61.81 60.08 $5,587.72$ $9/27/13$ 61.81 60.08 $5,587.72$ $9/27/14$ 61.62 59.89 $5,587.74$ $62/25/14$ 61.79 60.06 $5,587.76$ $9/25/14$ 61.77 60.04 $5,587.76$ $9/25/14$ 61.55 59.82 $5,587.97$ $3/26/15$ 61.55 59.82 $5,587.97$ $3/26/15$ 61.55 59.82 $5,587.97$ $3/26/15$ 61.35 59.62 $5,588.18$ $9/30/15$ 61.35 59.62 $5,588.70$ $3/30/16$ 60.83 59.10 $5,588.36$ $9/229/16$ 61.17 59.44 $5,588.36$ $9/26/17$ 60.67 58.94 $5,588.43$ $12/21/16$ 61.10 59.37 $5,588.43$ $12/21/16$ 61.10 59.37 $5,588.44$ $9/26/17$ 60.67 58.94 5589.07 $6/27/17$ 60.44 58.68 5589.12 $3/29/18$ 60.41 58.68 5589.12 $3/26/19$ 60.21 58.48 5589.23 $8/13/19$ 60.21 58.48 5589.32 $8/13/19$ 60.21 58.48 5589.32 $8/13/19$ 50.21 58.48								
5,587.07 $9/27/12$ 62.46 60.73 $5,587.33$ $12/28/12$ 62.20 60.47 $5,587.43$ $3/28/13$ 62.10 60.37 $5,587.43$ $62/21/13$ 62.10 60.37 $5,587.72$ $9/27/13$ 61.81 60.08 $5,587.22$ $12/20/13$ 62.31 60.58 $5,587.91$ $3/27/14$ 61.62 59.89 $5,587.74$ $6/25/14$ 61.77 60.04 $5,587.76$ $9/25/14$ 61.77 60.04 $5,587.76$ $9/25/14$ 61.55 59.82 $5,587.97$ $3/26/15$ 61.56 59.83 $5,587.98$ $6/22/15$ 61.55 59.82 $5,588.18$ $9/30/15$ 61.35 59.62 $5,588.18$ $9/30/15$ 61.35 59.62 $5,588.30$ $9/29/16$ 61.17 59.49 $5,588.31$ $6/30/16$ 60.83 59.10 $5,588.36$ $9/29/16$ 61.17 59.49 $5,588.43$ $12/21/16$ 61.10 59.37 $5,588.43$ $12/21/16$ 61.10 59.37 $5,588.43$ $12/21/16$ 60.41 58.98 5589.12 $3/29/18$ 60.41 58.68 5589.12 $3/26/19$ 60.21 58.48 5589.12 $3/26/19$ 60.21 58.48 5589.32 $8/13/19$ 60.21 58.48 5589.32 $8/13/19$ 60.21 58.48 5589.32 $8/13/19$ 50.21 58.48								
5,587.33 $12/28/12$ 62.20 60.47 $5,587.43$ $3/28/13$ 62.10 60.37 $5,587.43$ $6/27/13$ 61.81 60.08 $5,587.72$ $9/27/13$ 61.81 60.08 $5,587.22$ $12/20/13$ 62.31 60.58 $5,587.22$ $12/20/13$ 61.62 59.89 $5,587.74$ $6/25/14$ 61.79 60.06 $5,587.76$ $9/25/14$ 61.77 60.04 $5,587.76$ $9/25/14$ 61.55 59.82 $5,587.76$ $9/25/14$ 61.55 59.83 $5,587.97$ $3/26/15$ 61.55 59.83 $5,587.98$ $6/22/15$ 61.55 59.83 $5,587.98$ $6/22/15$ 61.35 59.62 $5,588.18$ $9/30/15$ 61.35 59.62 $5,588.31$ $6/30/16$ 61.22 59.49 $5,588.31$ $6/30/16$ 61.22 59.49 $5,588.31$ $6/30/16$ 61.22 59.49 $5,588.31$ $6/30/16$ 61.17 59.44 $5,588.43$ $12/21/16$ 61.17 59.44 $5,588.43$ $12/21/16$ 61.17 59.44 $5,588.45$ $9/26/17$ 60.67 58.94 5589.62 $3/30/17$ 60.77 58.84 5589.12 $3/29/18$ 60.41 58.68 5589.12 $3/26/19$ 60.21 58.48 5589.32 $3/26/19$ 60.21 58.48 5589.32 $3/26/19$ 60.33 58.60								
5,587.43 $3/28/13$ 62.10 60.37 $5,587.43$ $6/27/13$ 62.10 60.37 $5,587.72$ $9/27/13$ 61.81 60.08 $5,587.22$ $12/20/13$ 62.31 60.58 $5,587.91$ $3/27/14$ 61.62 59.89 $5,587.74$ $6/25/14$ 61.79 60.06 $5,587.76$ $9/25/14$ 61.77 60.04 $5,587.88$ $12/17/14$ 61.55 59.92 $5,587.97$ $3/26/15$ 61.56 59.83 $5,587.98$ $6/22/15$ 61.55 59.82 $5,587.98$ $6/22/15$ 61.35 59.62 $5,588.18$ $9/30/15$ 61.35 59.62 $5,588.31$ $6/30/16$ 61.22 59.49 $5,588.36$ $9/29/16$ 61.17 59.44 $5,588.36$ $9/29/16$ 61.17 59.44 $5,588.43$ $12/21/16$ 61.10 59.37 $5,588.36$ $9/26/17$ 60.67 58.84 5589.07 $6/27/17$ 60.67 58.94 5588.12 $9/26/17$ 60.77 58.98 5589.12 $3/29/18$ 60.41 58.68 5589.12 $3/26/19$ 60.21 58.48 5589.20 $12/18/18$ 60.33 58.60 5589.32 $8/13/19$ 60.21 58.48 5589.32 $8/13/19$ 60.21 58.48 5589.33 $8/13/19$ 60.21 58.48 5589.59 $11/19/19$ 59.36 57.63 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
5,587.43 $6/27/13$ 62.10 60.37 $5,587.72$ $9/27/13$ 61.81 60.08 $5,587.22$ $12/20/13$ 62.31 60.58 $5,587.22$ $3/27/14$ 61.62 59.89 $5,587.74$ $6/25/14$ 61.79 60.06 $5,587.76$ $9/25/14$ 61.77 60.04 $5,587.76$ $9/25/14$ 61.55 59.92 $5,587.98$ $6/22/15$ 61.55 59.83 $5,587.98$ $6/22/15$ 61.55 59.82 $5,588.23$ $12/2/15$ 61.30 59.57 $5,588.23$ $12/2/15$ 61.30 59.57 $5,588.31$ $6/30/16$ 61.83 59.10 $5,588.36$ $9/29/16$ 61.17 59.44 $5,588.43$ $12/2/17$ 60.46 58.73 $5,588.43$ $12/2/17$ 60.46 58.73 $5,588.96$ $3/30/17$ 60.57 58.84 $5,589.07$ $6/27/17$ 60.46 58.73 5588.86 $9/26/17$ 60.67 58.94 5589.12 $3/29/18$ 60.41 58.68 5589.12 $3/26/19$ 60.21 58.48 5589.32 $3/26/19$ 60.21 58.48 5589.32 $3/26/19$ 60.21 58.48 5589.32 $3/26/19$ 60.21 58.48 5589.33 $2/13/20$ 59.80 58.07 5580.43 57.63 $2/13/20$ 59.36								
5,587.72 $9/27/13$ 61.81 60.08 $5,587.22$ $12/20/13$ 62.31 60.58 $5,587.24$ $3/27/14$ 61.62 59.89 $5,587.74$ $6/25/14$ 61.79 60.06 $5,587.76$ $9/25/14$ 61.77 60.04 $5,587.76$ $9/25/14$ 61.77 60.04 $5,587.97$ $3/26/15$ 61.56 59.83 $5,587.97$ $3/26/15$ 61.55 59.82 $5,588.18$ $9/30/15$ 61.35 59.62 $5,588.23$ $12/2/15$ 61.35 59.62 $5,588.31$ $6/30/16$ 61.22 59.49 $5,588.36$ $9/29/16$ 61.17 59.44 $5,588.36$ $9/29/16$ 61.17 59.44 $5,588.43$ $12/21/16$ 61.10 59.37 $5,588.43$ $12/21/16$ 61.10 59.37 $5,588.43$ $12/21/16$ 61.10 59.37 $5,588.43$ $12/21/16$ 61.10 59.37 $5,588.43$ $12/21/16$ 61.10 59.37 $5,588.46$ $9/26/17$ 60.67 58.94 5589.12 $3/30/17$ 60.271 58.98 5589.12 $3/29/18$ 60.41 58.68 5589.12 $9/26/18$ 60.41 58.68 5589.12 $9/26/18$ 60.41 58.68 5589.32 $3/26/19$ 60.21 58.48 5589.32 $3/26/19$ 60.21 58.48 5589.32 $3/26/19$ 60.21 58.48								
5,587.22 $12/20/13$ 62.31 60.58 $5,587.74$ $3/27/14$ 61.62 59.89 $5,587.76$ $9/25/14$ 61.79 60.06 $5,587.76$ $9/25/14$ 61.77 60.04 $5,587.76$ $9/25/14$ 61.57 59.92 $5,587.97$ $3/26/15$ 61.56 59.83 $5,587.97$ $3/26/15$ 61.55 59.82 $5,587.98$ $6/22/15$ 61.35 59.62 $5,588.18$ $9/30/15$ 61.35 59.62 $5,588.70$ $3/30/16$ 60.83 59.10 $5,588.70$ $3/30/16$ 60.83 59.10 $5,588.36$ $9/29/16$ 61.17 59.44 $5,588.43$ $12/21/16$ 61.10 59.37 $5,588.43$ $12/21/16$ 61.10 59.37 $5,588.43$ $12/21/16$ 61.10 59.37 $5,588.43$ $12/21/16$ 61.17 59.44 $5,588.43$ $12/21/16$ 61.17 59.44 $5,588.43$ $12/21/16$ 61.10 59.37 $5,588.43$ $12/21/16$ 61.10 59.37 $5,588.43$ $12/21/16$ 61.10 59.37 $5,588.45$ $9/26/17$ 60.67 58.94 5589.12 $3/29/18$ 60.41 58.68 5589.12 $9/26/18$ 60.41 58.68 5589.32 $3/26/19$ 60.21 58.48 5589.32 $3/30/19$ 60.21 58.48 5589.32 $3/13/19$ 60.21 58.48 <								
5,587.91 $3/27/14$ 61.62 59.89 $5,587.74$ $6/25/14$ 61.79 60.06 $5,587.76$ $9/25/14$ 61.77 60.04 $5,587.88$ $12/17/14$ 61.65 59.92 $5,587.97$ $3/26/15$ 61.56 59.83 $5,587.97$ $3/26/15$ 61.55 59.82 $5,588.18$ $9/30/15$ 61.35 59.62 $5,588.23$ $12/2/15$ 61.30 59.57 $5,588.23$ $12/2/15$ 61.30 59.57 $5,588.36$ $9/29/16$ 61.17 59.44 $5,588.36$ $9/29/16$ 61.17 59.44 $5,588.43$ $12/21/16$ 61.10 59.37 $5,588.43$ $12/21/16$ 61.10 59.37 $5,588.43$ $12/21/16$ 61.17 59.44 $5,588.70$ $3/30/17$ 60.57 58.84 $5,589.07$ $6/27/17$ 60.67 58.94 $5,589.12$ $3/29/18$ 60.41 58.68 5589.12 $3/29/18$ 60.41 58.68 5589.12 $3/26/19$ 60.21 58.48 5589.32 $3/26/19$ 60.21 58.48 5589.32 $3/26/19$ 60.21 58.48 5589.32 $3/21/19$ 60.21 58.48 5589.59 $11/19/19$ 59.94 58.21 5589.73 $2/13/20$ 59.80 58.07 5590.17 $5/5/20$ 59.36 57.63								
5,587.74 $6/25/14$ 61.79 60.06 $5,587.76$ $9/25/14$ 61.77 60.04 $5,587.88$ $12/17/14$ 61.65 59.92 $5,587.97$ $3/26/15$ 61.56 59.83 $5,587.98$ $6/22/15$ 61.55 59.82 $5,588.18$ $9/30/15$ 61.35 59.62 $5,588.23$ $12/2/15$ 61.30 59.57 $5,588.70$ $3/30/16$ 60.83 59.10 $5,588.36$ $9/29/16$ 61.17 59.44 $5,588.36$ $9/29/16$ 61.17 59.44 $5,588.43$ $12/21/16$ 61.10 59.37 $5,588.96$ $3/30/17$ 60.57 58.84 $5,589.07$ $6/27/17$ 60.67 58.94 5588.82 $11/29/176$ 60.71 58.98 5589.12 $3/29/18$ 60.41 58.68 5589.12 $3/26/19$ 60.21 58.48 5589.20 $12/18/18$ 60.33 58.60 5589.32 $3/26/19$ 60.21 58.48 5589.32 $3/26/19$ 60.21 58.48 5589.32 $8/13/19$ 60.21 58.48 5589.59 $11/19/19$ 59.94 58.21 5589.73 $2/13/20$ 59.80 58.07 5590.17 $5/5/20$ 59.36 57.63								
5,587.76 $9/25/14$ 61.77 60.04 $5,587.88$ $12/17/14$ 61.65 59.92 $5,587.97$ $3/26/15$ 61.56 59.83 $5,587.98$ $6/22/15$ 61.55 59.82 $5,588.18$ $9/30/15$ 61.35 59.62 $5,588.23$ $12/2/15$ 61.30 59.57 $5,588.70$ $3/30/16$ 61.22 59.49 $5,588.70$ $3/30/16$ 61.22 59.49 $5,588.36$ $9/29/16$ 61.17 59.44 $5,588.43$ $12/2/1/16$ 61.10 59.37 $5,588.43$ $12/2/1/16$ 61.10 59.37 $5,588.43$ $12/2/1/16$ 61.10 59.37 $5,588.43$ $12/2/1/16$ 61.10 59.37 $5,588.43$ $12/2/1/16$ 61.10 59.37 $5,588.43$ $12/2/1/16$ 61.10 59.37 $5,588.43$ $12/2/1/16$ 61.10 59.37 $5,588.43$ $12/2/1/16$ 61.10 59.37 $5,588.43$ $12/2/1/16$ 61.10 59.37 $5,589.12$ $3/20/17$ 60.67 58.94 5589.12 $3/29/18$ 60.41 58.68 5589.12 $9/26/18$ 60.41 58.68 5589.20 $12/18/18$ 60.33 58.60 5589.32 $3/26/19$ 60.21 58.48 5589.32 $3/26/19$ 60.21 58.48 5589.59 $11/19/19$ 59.94 58.21 5589.73 $2/13/20$ 59.36 57.63								
5,587.88 $12/17/14$ 61.65 59.92 $5,587.97$ $3/26/15$ 61.56 59.83 $5,587.98$ $6/22/15$ 61.55 59.82 $5,588.18$ $9/30/15$ 61.35 59.62 $5,588.23$ $12/2/15$ 61.30 59.57 $5,588.70$ $3/30/16$ 60.83 59.10 $5,588.31$ $6/30/16$ 61.22 59.49 $5,588.36$ $9/29/16$ 61.17 59.44 $5,588.43$ $12/21/16$ 61.10 59.37 $5,588.43$ $12/21/16$ 61.10 59.37 $5,588.43$ $12/21/16$ 61.10 59.37 $5,588.907$ $6/27/17$ 60.46 58.73 5588.86 $9/26/17$ 60.67 58.94 5589.12 $3/29/18$ 60.41 58.68 5589.12 $3/26/18$ 60.41 58.68 5589.12 $9/26/18$ 60.41 58.68 5589.20 $12/18/18$ 60.33 58.40 5589.32 $8/13/19$ 60.21 58.48 5589.32 $8/13/19$ 60.21 58.48 5589.32 $8/13/19$ 60.21 58.48 5589.32 $8/13/19$ 60.21 58.48 5589.59 $11/19/19$ 59.94 58.21 5589.73 $2/13/20$ 59.80 58.07 5590.17 $5/5/20$ 59.36 57.63								
5,587.97 $3/26/15$ 61.56 59.83 $5,587.98$ $6/22/15$ 61.55 59.82 $5,588.18$ $9/30/15$ 61.35 59.62 $5,588.23$ $12/2/15$ 61.30 59.57 $5,588.70$ $3/30/16$ 60.83 59.10 $5,588.31$ $6/30/16$ 61.22 59.49 $5,588.36$ $9/29/16$ 61.17 59.44 $5,588.43$ $12/21/16$ 61.10 59.37 $5,588.96$ $3/30/17$ 60.57 58.84 $5,589.07$ $6/27/17$ 60.46 58.73 5588.82 $11/29/17$ 60.67 58.94 5589.12 $3/29/18$ 60.41 58.68 5589.12 $9/26/18$ 60.34 58.61 5589.20 $12/18/18$ 60.33 58.60 5589.32 $3/26/19$ 60.21 58.48 5589.32 $3/26/19$ 60.21 58.48 5589.59 $11/19/19$ 59.94 58.21 5589.73 $2/13/20$ 59.80 58.07 5590.17 $5/5/20$ 59.36 57.63								
5,587.98 $6/22/15$ 61.55 59.82 $5,588.18$ $9/30/15$ 61.35 59.62 $5,588.23$ $12/2/15$ 61.30 59.57 $5,588.70$ $3/30/16$ 60.83 59.10 $5,588.31$ $6/30/16$ 61.22 59.49 $5,588.36$ $9/29/16$ 61.17 59.44 $5,588.43$ $12/21/16$ 61.10 59.37 $5,588.43$ $12/21/16$ 61.10 59.37 $5,588.96$ $3/30/17$ 60.57 58.84 $5,589.07$ $6/27/17$ 60.46 58.73 5588.86 $9/26/17$ 60.67 58.94 5588.82 $11/29/17$ 60.71 58.98 5589.12 $3/29/18$ 60.41 58.68 5589.12 $9/26/18$ 60.41 58.68 5589.20 $12/18/18$ 60.33 58.60 5589.32 $3/26/19$ 60.21 58.48 5589.32 $8/13/19$ 60.21 58.48 5589.59 $11/19/19$ 59.94 58.21 5589.73 $2/13/20$ 59.80 58.07 5590.17 $5/5/20$ 59.36 57.63								
5,588.18 $9/30/15$ 61.35 59.62 $5,588.23$ $12/2/15$ 61.30 59.57 $5,588.70$ $3/30/16$ 60.83 59.10 $5,588.31$ $6/30/16$ 61.22 59.49 $5,588.36$ $9/29/16$ 61.17 59.44 $5,588.43$ $12/21/16$ 61.10 59.37 $5,588.96$ $3/30/17$ 60.57 58.84 $5,589.07$ $6/27/17$ 60.46 58.73 5588.86 $9/26/17$ 60.67 58.94 5588.82 $11/29/17$ 60.71 58.98 5589.12 $3/29/18$ 60.41 58.68 5589.12 $9/26/18$ 60.41 58.68 5589.20 $12/18/18$ 60.33 58.60 5589.32 $3/26/19$ 60.21 58.48 5589.32 $8/13/19$ 60.21 58.48 5589.59 $11/19/19$ 59.94 58.21 5589.73 $2/13/20$ 59.80 58.07 5590.17 $5/5/20$ 59.36 57.63								
5,588.23 $12/2/15$ 61.30 59.57 $5,588.70$ $3/30/16$ 60.83 59.10 $5,588.31$ $6/30/16$ 61.22 59.49 $5,588.36$ $9/29/16$ 61.17 59.44 $5,588.43$ $12/21/16$ 61.10 59.37 $5,588.96$ $3/30/17$ 60.57 58.84 $5,589.07$ $6/27/17$ 60.46 58.73 5588.86 $9/26/17$ 60.67 58.94 5588.82 $11/29/17$ 60.71 58.98 5589.12 $3/29/18$ 60.41 58.68 5589.12 $9/26/18$ 60.41 58.68 5589.12 $9/26/18$ 60.41 58.68 5589.12 $9/26/18$ 60.41 58.68 5589.12 $9/26/18$ 60.41 58.68 5589.20 $12/18/18$ 60.33 58.60 5589.32 $3/26/19$ 60.21 58.48 5589.32 $8/13/19$ 60.21 58.48 5589.59 $11/19/19$ 59.94 58.21 5589.73 $2/13/20$ 59.80 58.07 5590.17 $5/5/20$ 59.36 57.63								
5,588.70 $3/30/16$ 60.83 59.10 $5,588.31$ $6/30/16$ 61.22 59.49 $5,588.36$ $9/29/16$ 61.17 59.44 $5,588.43$ $12/21/16$ 61.10 59.37 $5,588.96$ $3/30/17$ 60.57 58.84 $5,589.07$ $6/27/17$ 60.46 58.73 5588.86 $9/26/17$ 60.67 58.94 5588.82 $11/29/17$ 60.71 58.98 5589.12 $3/29/18$ 60.41 58.68 5589.12 $3/29/18$ 60.41 58.68 5589.12 $9/26/18$ 60.34 58.61 5589.12 $9/26/18$ 60.41 58.68 5589.12 $9/26/18$ 60.41 58.68 5589.20 $12/18/18$ 60.33 58.60 5589.32 $3/26/19$ 60.21 58.48 5589.32 $8/13/19$ 60.21 58.48 5589.59 $11/19/19$ 59.94 58.21 5589.73 $2/13/20$ 59.80 58.07 5590.17 $5/5/20$ 59.36 57.63								
5,588.31 $6/30/16$ 61.22 59.49 $5,588.36$ $9/29/16$ 61.17 59.44 $5,588.43$ $12/21/16$ 61.10 59.37 $5,588.96$ $3/30/17$ 60.57 58.84 $5,589.07$ $6/27/17$ 60.46 58.73 5588.86 $9/26/17$ 60.67 58.94 5588.82 $11/29/17$ 60.71 58.98 5589.12 $3/29/18$ 60.41 58.68 5589.12 $3/29/18$ 60.41 58.68 5589.12 $9/26/18$ 60.41 58.68 5589.12 $9/26/18$ 60.41 58.68 5589.12 $9/26/18$ 60.41 58.68 5589.12 $9/26/18$ 60.41 58.68 5589.32 $3/26/19$ 60.21 58.48 5589.32 $8/13/19$ 60.21 58.48 5589.59 $11/19/19$ 59.94 58.21 5589.73 $2/13/20$ 59.80 58.07 5590.17 $5/5/20$ 59.36 57.63						60.83		
5,588.36 $9/29/16$ 61.17 59.44 $5,588.43$ $12/21/16$ 61.10 59.37 $5,588.96$ $3/30/17$ 60.57 58.84 $5,589.07$ $6/27/17$ 60.46 58.73 5588.86 $9/26/17$ 60.67 58.94 5588.82 $11/29/17$ 60.71 58.98 5589.12 $3/29/18$ 60.41 58.68 5589.12 $9/26/18$ 60.34 58.61 5589.12 $9/26/18$ 60.41 58.68 5589.12 $9/26/18$ 60.41 58.68 5589.12 $9/26/18$ 60.41 58.68 5589.12 $9/26/18$ 60.41 58.68 5589.20 $12/18/18$ 60.33 58.60 5589.32 $3/26/19$ 60.21 58.48 5589.32 $8/13/19$ 60.21 58.48 5589.59 $11/19/19$ 59.94 58.21 5589.73 $2/13/20$ 59.80 58.07 5590.17 $5/5/20$ 59.36 57.63					6/30/16			
5,588.43 $12/21/16$ 61.10 59.37 $5,588.96$ $3/30/17$ 60.57 58.84 $5,589.07$ $6/27/17$ 60.46 58.73 5588.86 $9/26/17$ 60.67 58.94 5588.82 $11/29/17$ 60.71 58.98 5589.12 $3/29/18$ 60.41 58.68 5589.12 $3/29/18$ 60.41 58.68 5589.12 $9/26/18$ 60.41 58.68 5589.12 $9/26/18$ 60.41 58.68 5589.20 $12/18/18$ 60.33 58.60 5589.32 $3/26/19$ 60.21 58.48 5589.40 $6/25/19$ 60.21 58.48 5589.32 $8/13/19$ 60.21 58.48 5589.32 $8/13/19$ 50.21 58.48 5589.73 $2/13/20$ 59.80 58.07 5590.17 $5/5/20$ 59.36 57.63								
5,589.07 $6/27/17$ 60.46 58.73 5588.86 $9/26/17$ 60.67 58.94 5588.82 $11/29/17$ 60.71 58.98 5589.12 $3/29/18$ 60.41 58.68 5589.12 $3/29/18$ 60.34 58.61 5589.12 $9/26/18$ 60.41 58.68 5589.12 $9/26/18$ 60.41 58.68 5589.20 $12/18/18$ 60.33 58.60 5589.32 $3/26/19$ 60.21 58.48 5589.32 $8/13/19$ 60.21 58.48 5589.59 $11/19/19$ 59.94 58.21 5589.73 $2/13/20$ 59.80 58.07 5590.17 $5/5/20$ 59.36 57.63					12/21/16	61.10	59.37	
5,589.07 $6/27/17$ 60.46 58.73 5588.86 $9/26/17$ 60.67 58.94 5588.82 $11/29/17$ 60.71 58.98 5589.12 $3/29/18$ 60.41 58.68 5589.19 $6/22/18$ 60.34 58.61 5589.12 $9/26/18$ 60.41 58.68 5589.12 $9/26/18$ 60.41 58.68 5589.20 $12/18/18$ 60.33 58.60 5589.32 $3/26/19$ 60.21 58.48 5589.32 $8/13/19$ 60.21 58.48 5589.59 $11/19/19$ 59.94 58.21 5589.73 $2/13/20$ 59.80 58.07 5590.17 $5/5/20$ 59.36 57.63	5,588.96				3/30/17	60.57	58.84	
5588.869/26/1760.6758.945588.8211/29/1760.7158.985589.123/29/1860.4158.685589.196/22/1860.3458.615589.129/26/1860.4158.685589.129/26/1860.4158.685589.2012/18/1860.3358.605589.323/26/1960.2158.485589.406/25/1960.1358.405589.328/13/1960.2158.485589.5911/19/1959.9458.215589.732/13/2059.8058.075590.175/5/2059.3657.63						60.46	58.73	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$					9/26/17	60.67	58.94	
5589.196/22/1860.3458.615589.129/26/1860.4158.685589.2012/18/1860.3358.605589.323/26/1960.2158.485589.406/25/1960.1358.405589.328/13/1960.2158.485589.3211/19/1959.9458.215589.5911/19/1959.8058.075590.175/5/2059.3657.63	5588.82				11/29/17	60.71	58.98	
5589.196/22/1860.3458.615589.129/26/1860.4158.685589.2012/18/1860.3358.605589.323/26/1960.2158.485589.406/25/1960.1358.405589.328/13/1960.2158.485589.3211/19/1959.9458.215589.5911/19/1959.8058.075590.175/5/2059.3657.63					3/29/18	60.41		
5589.129/26/1860.4158.685589.2012/18/1860.3358.605589.323/26/1960.2158.485589.406/25/1960.1358.405589.328/13/1960.2158.485589.5911/19/1959.9458.215589.732/13/2059.8058.075590.175/5/2059.3657.63					6/22/18			
5589.2012/18/1860.3358.605589.323/26/1960.2158.485589.406/25/1960.1358.405589.328/13/1960.2158.485589.5911/19/1959.9458.215589.732/13/2059.8058.075590.175/5/2059.3657.63	5589.12				9/26/18	60.41	58.68	
5589.406/25/1960.1358.405589.328/13/1960.2158.485589.5911/19/1959.9458.215589.732/13/2059.8058.075590.175/5/2059.3657.63	5589.20				12/18/18	60.33	58.60	
5589.328/13/1960.2158.485589.5911/19/1959.9458.215589.732/13/2059.8058.075590.175/5/2059.3657.63	5589.32				3/26/19	60.21	58.48	
5589.5911/19/1959.9458.215589.732/13/2059.8058.075590.175/5/2059.3657.63	5589.40				6/25/19	60.13	58.40	
5589.732/13/2059.8058.075590.175/5/2059.3657.63	5589.32				8/13/19	60.21	58.48	
5590.17 5/5/20 59.36 57.63	5589.59				11/19/19	59.94	58.21	
5590.17 5/5/20 59.36 57.63	5589.73				2/13/20	59.80	58.07	
	5590.17					59.36	57.63	
5589.67 9/22/20 59.86 58.13	5589.67				9/22/20	59.86	58.13	
5590.05 12/30/20 59.48 57.75	5590.05				12/30/20	59.48	57.75	

					Total or		
		Measuring			Measured	Total	
Water	Land	Point			Depth to	Depth to	Total
Elevation	Surface	Elevation	Length Of	Date Of	Water	Water	Depth Of
(WL)	(LSD)	(MP)	Riser (L)	Monitoring	(blw.MP)	(blw.LSD)	Well
	5,647.80	5,649.53	1.73				124.73
5590.14				3/11/21	59.39	57.66	
5590.04				6/24/21	59.49	57.76	
5590.05				8/11/21	59.48	57.75	
5590.15				12/28/21	59.38	57.65	
5590.28				2/10/22	59.25	57.52	

					Total or		
		Measuring			Measured	Total	
Water	Land	Point			Depth to	Depth to	Total
Elevation	Surface	Elevation	Length Of	Date Of	Water	Water	Depth Of
(WL)	(LSD)	(MP)	Riser (L)	Monitoring	(blw.MP)	(blw.LSD)	Well
	5,651.07	5,652.70	1.63		(Matterial)	(01111202)	94.63
5,603.34	.,			11/4/09	49.36	47.73	5 1100
5,603.56				12/14/09	49.14	47.51	
5,603.84				3/11/10	48.86	47.23	
5,604.31				5/11/10	48.39	46.76	
5,604.28				9/29/10	48.42	46.79	
5,604.39				12/21/10	48.31	46.68	
5,604.20				2/28/11	48.50	46.87	
5,604.55				6/21/11	48.15	46.52	
5,604.74				9/20/11	47.96	46.33	
5,604.94				12/21/11	47.76	46.13	
5,604.84				3/27/12	47.86	46.23	
5,604.85				6/28/12	47.85	46.22	
5,604.99				9/27/12	47.71	46.08	
5,605.10				12/28/12	47.60	45.97	
5,605.22				3/28/13	47.48	45.85	
5,605.11				6/27/13	47.59	45.96	
5,605.39				9/27/13	47.31	45.68	
5,604.99				12/20/13	47.71	46.08	
5,605.71				3/27/14	46.99	45.36	
5,605.16				6/25/14	47.54	45.91	
5,605.10				9/25/14	47.60	45.97	
5,605.25				12/17/14	47.45	45.82	
5,605.04				3/26/15	47.66	46.03	
5,604.99				6/22/15	47.71	46.08	
5,605.05				9/30/15	47.65	46.02	
5,604.96				12/2/15	47.74	46.11	
5,605.25				3/30/16	47.45	45.82	
5,605.00				6/30/16	47.70	46.07	
5,605.00				9/29/16	47.70	46.07	
5,605.00				12/21/16	47.70	46.07	
5,605.43				3/30/17	47.27	45.64	
5,605.20				6/27/17	47.50	45.87	
5605.00				9/26/17	47.70	46.07	
5605.02				11/29/17	47.68	46.05	
5605.11				3/29/18	47.59	45.96	
5605.19				6/22/18	47.51	45.88	
5604.99				9/26/18	47.71	46.08	
5605.18				12/19/18	47.52	45.89	
5605.06				3/26/19	47.64	46.01	
5604.96				6/24/19	47.74	46.11	
5604.87				8/13/19	47.83	46.20	
5605.19				11/19/19	47.51	45.88	
5605.02				2/13/20	47.68	46.05	
5605.30				5/5/20	47.40	45.77	
5604.85				9/22/20	47.85	46.22	
5604.99				12/30/20	47.71	46.08	
5004.22				12/30/20	7/./1	-0.00	

					Total or		
Water	Land	Measuring Point			Measured Depth to	Total Depth to	Total
Elevation (WL)	Surface (LSD)	Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Water (blw.MP)	Water (blw.LSD)	Depth Of Well
	5,651.07	5,652.70	1.63			· · · · · · · · · · · · · · · · · · ·	94.63
5604.99				3/11/21	47.71	46.08	
5604.90				6/24/21	47.80	46.17	
5604.85				8/11/21	47.85	46.22	
5604.93				12/28/21	47.77	46.14	
5604.94				2/10/22	47.76	46.13	

					Total or		
		Measuring			Measured	Total	
Water	Land	Point			Depth to	Depth to	Total
Elevation	Surface	Elevation	Length Of	Date Of	Water	Water	Depth Of
(WL)	(LSD)	(MP)	Riser (L)	Monitoring	(blw.MP)	(blw.LSD)	Well
	5,643.95	5,645.45	1.50	8			147
5,586.85				11/2/09	58.60	57.10	
5,600.14				12/14/09	45.31	43.81	
5,587.36				3/11/10	58.09	56.59	
5,587.71				5/11/10	57.74	56.24	
5,587.50				9/29/10	57.95	56.45	
5,607.66				12/21/10	37.79	36.29	
5,587.35				2/28/11	58.10	56.60	
5,587.71				6/21/11	57.74	56.24	
5,587.65				9/20/11	57.80	56.30	
5,587.95				12/21/11	57.50	56.00	
5,587.05				3/27/12	58.40	56.90	
5,587.05				6/28/12	58.40	56.90	
5,587.50				9/27/12	57.95	56.45	
5,587.50				12/28/12	57.95	56.45	
5,587.32				3/28/13	58.13	56.63	
5,586.95				6/27/13	58.50	57.00	
5,587.02				9/27/13	58.43	56.93	
5,586.26				12/20/13	59.19	57.69	
5,586.87				3/27/14	58.58	57.08	
5,586.23				6/25/14	59.22	57.72	
5,586.02				9/25/14	59.43	57.93	
5,585.99				12/17/14	59.46	57.96	
5,585.66				3/26/15	59.79	58.29	
5,585.45				6/22/15	60.00	58.50	
5,585.37				9/30/15	60.08	58.58	
5,585.24				12/2/15	60.21	58.71	
5,585.38				3/30/16	60.07	58.57	
5,584.85				6/30/16	60.60	59.10	
5,584.69				9/29/16	60.76	59.26	
5,584.60				12/21/16	60.85	59.35	
5,584.99				3/30/17	60.46	58.96	
5,584.65				6/27/17	60.80	59.30	
5584.36				9/26/17	61.09	59.59	
5584.24				11/29/17	61.21	59.71	
5584.25				3/29/18	61.20	59.70	
5584.23				6/22/18	61.22	59.72	
5583.92				9/26/18	61.53	60.03	
5583.85				12/18/18	61.60	60.10	
5583.72				3/26/19	61.73	60.23	
5583.69				6/24/19	61.76	60.26	
5583.76				8/13/19	61.69	60.19	
5583.72				11/19/19	61.73	60.23	
5583.54				2/13/20	61.91	60.41	
5583.34				5/5/20	62.11	60.61	
5583.15				9/22/20	62.30	60.8	
5583.26				12/30/20	62.19	60.69	

					Total or		
Water Elevation	Land Surface	Measuring Point Elevation	Length Of	Date Of	Measured Depth to Water	Total Depth to Water	Total Depth Of
(WL)	(LSD)	(MP)	Riser (L)	Monitoring	(blw.MP)	(blw.LSD)	Well
	5,643.95	5,645.45	1.50				147
5583.36				3/11/21	62.09	60.59	
5583.06				6/24/21	62.39	60.89	
5583.01				8/11/21	62.44	60.94	
5583.10				12/28/21	62.35	60.85	
5582.80				2/10/22	62.65	61.15	

Water BelavationMeasuring SurfaceLength Of Riser (L)Date Of MonitoringMeasured WaterTotal Depth Of WaterTotal Depth Of WaterTotal Depth Of Water(ULSD)(MP)Riser (L)Monitoring Riser (L)(blw.MP)(blw.LSD)WaterTotal Depth Of Water5,606.171.7711/2/0955.1953.4255.075,607.2031/1/1054.1452.3755.075,607.895/11/1053.4751.705,607.892/2/1/1052.9551.185,608.4012/2/1/1052.9551.185,608.809/20/1152.1950.425,608.809/20/1152.1950.425,608.869/20/1152.1950.425,608.869/27/1252.0050.735,608.869/27/1252.5050.735,608.869/27/1352.4850.715,608.869/27/1352.4850.715,608.869/27/1352.4850.715,608.869/27/1352.4850.715,608.869/27/1352.4850.715,608.869/27/1352.4850.715,608.869/27/1352.4850.715,608.869/27/1352.4850.715,608.869/27/1352.4850.715,608.869/27/1352.4850.715,608.869/27/1352.4850.715,608.869/27/1352.4850.715,						Total or		
Elevation (WI)Surface (LSD)Elevation (MP)Length Of Riser (L)Wate Of MonitoringWater (blw.MP)Depth Of (blw.LSD)5,606.171.7711/2/09 55.19 5.42 107.77 5,606.1712/14/09 54.66 52.89 $5.607.22$ $31/170$ 54.14 52.37 5,607.8999/29/10 53.38 51.61 $5.608.41$ 52.37 $5.607.89$ 5,607.8999/29/10 52.37 51.10 $5.608.41$ 52.77 $5.607.99$ 5,608.4112/21/10 52.95 51.18 $5.608.60$ 5608.60 52.767 50.99 5,609.179/20/11 52.16 50.42 $50.698.87$ $327/12$ 52.49 50.73 5,608.869/22/11 52.49 50.73 5608.86 $9/27/11$ 52.48 50.71 5,608.869/27/12 52.50 50.73 5608.86 $9/27/12$ 52.48 50.71 5,608.869/27/13 52.48 50.71 5608.86 $9/27/13$ 52.48 50.71 5,608.869/27/13 52.48 50.71 5608.86 $9/27/14$ 52.90 51.13 5,608.869/27/14 52.48 50.71 5608.86 $9/27/14$ 52.48 50.71 5,608.81 $9/27/13$ 52.48 50.71 5608.86 $9/27/14$ 53.25 51.88 5,608.82 $9/27/14$ 53.30 51.63 5608.86 $9/27/14$ 53.29 51.13 5,608.83 <th></th> <th></th> <th>Measuring</th> <th></th> <th></th> <th>Measured</th> <th>Total</th> <th></th>			Measuring			Measured	Total	
Elevation (WL)Surface (LSD)Elevation (MP)Length Of Riser (L)Date Of MonitoringWater (blw.MP)Depth Of (blw.LSD)5,650.595,661.361.775,006.1711/2/0955.1953.425,607.2231/1/1054.1452.375,607.895/11/1053.4251.615,607.899/29/1052.3851.615,607.899/29/1052.3751.105,607.899/29/1052.3751.105,608.4112/21/1052.9551.185,608.606/21/1152.7650.995,609.179/20/1152.4650.695,608.863/27/1252.4950.725,608.869/22/1152.4950.735,608.869/22/1252.5050.735,608.869/27/1252.4950.735,608.869/27/1252.4850.715,608.869/27/1352.4450.675,608.869/27/1452.4850.715,608.869/27/1352.4450.675,608.819/27/1452.4850.715,608.829/27/1452.4850.715,608.836/22/1553.3451.615,608.849/27/1452.4951.625,608.859/27/1452.4950.735,608.869/27/1452.4950.715,608.869/27/1553.3051.635,608.879/27/1452.4850.715,608.88 <th>Water</th> <th>Land</th> <th>Point</th> <th></th> <th></th> <th>Depth to</th> <th>Depth to</th> <th>Total</th>	Water	Land	Point			Depth to	Depth to	Total
	Elevation	Surface	Elevation	Length Of	Date Of	Water	Water	Depth Of
5,606.17 $11/2/09$ 55.19 53.42 $5,607.22$ $3711/10$ 54.66 52.89 $5,607.22$ $3711/10$ 53.47 51.70 $5,607.89$ $9729/10$ 53.38 51.61 $5,608.41$ $12/21/10$ 52.95 51.18 $5,608.49$ $2728/11$ 52.87 51.10 $5,608.49$ $2728/11$ 52.87 51.10 $5,608.60$ $621/11$ 52.19 50.42 $5,608.70$ $3271/12$ 52.49 50.73 $5,608.87$ $3271/12$ 52.50 50.73 $5,608.86$ $9/271/12$ 52.50 50.73 $5,608.86$ $9/271/12$ 52.50 50.73 $5,608.86$ $9/271/12$ 52.50 50.73 $5,608.86$ $9/271/13$ 52.48 50.71 $5,608.86$ $9/271/13$ 52.48 50.71 $5,608.86$ $9/271/13$ 52.48 50.71 $5,608.86$ $9/271/13$ 52.48 50.71 $5,608.86$ $9/271/13$ 52.48 50.71 $5,608.88$ $3/271/4$ 52.90 51.13 $5,608.88$ $3/271/4$ 52.90 51.13 $5,608.86$ $12/20/13$ 53.30 51.63 $5,607.90$ $3/26/15$ 53.30 51.63 $5,607.90$ $9/29/16$ 53.46 51.69 $5,607.90$ $9/29/16$ 53.46 51.69 $5,607.91$ $12/21/16$ 53.29 51.18 $5,607.92$ 51.52 5608.66 $9/20/17$ <t< th=""><th>(WL)</th><th>(LSD)</th><th>(MP)</th><th>-</th><th>Monitoring</th><th>(blw.MP)</th><th>(blw.LSD)</th><th>-</th></t<>	(WL)	(LSD)	(MP)	-	Monitoring	(blw.MP)	(blw.LSD)	-
5,606.70 $12/14/09$ 54.66 52.89 $5,607.22$ $3111/10$ 53.47 51.70 $5,607.98$ $9/29/10$ 53.38 51.61 $5,608.41$ $12/21/10$ 52.95 51.18 $5,608.49$ $2/28/11$ 52.76 50.99 $5,608.60$ $6/21/11$ 52.76 50.99 $5,608.60$ $6/21/11$ 52.76 50.99 $5,608.90$ $12/21/11$ 52.46 50.69 $5,608.87$ $3/27/12$ 52.49 50.72 $5,608.86$ $9/27/12$ 52.50 50.73 $5,608.86$ $9/27/12$ 52.50 50.73 $5,608.86$ $9/27/12$ 52.50 50.73 $5,608.86$ $9/27/13$ 52.48 50.71 $5,608.86$ $9/27/13$ 52.48 50.71 $5,608.86$ $9/27/13$ 52.48 50.71 $5,608.86$ $3/27/14$ 52.90 51.13 $5,608.86$ $3/27/14$ 52.48 50.71 $5,608.86$ $3/27/14$ 52.48 50.71 $5,608.86$ $3/27/14$ 52.48 50.71 $5,608.86$ $3/27/14$ 52.48 50.71 $5,608.88$ $3/27/14$ 52.48 50.71 $5,608.81$ $9/25/14$ 53.30 51.23 $5,607.96$ $3/26/15$ 53.340 51.63 $5,607.98$ $6/22/15$ 53.348 51.71 $5,607.98$ $6/20/15$ 53.30 51.53 $5,607.90$ $9/26/17$ 53.29 51.18		5,659.59	5,661.36	1.77				107.77
5,607.22 $3/11/10$ 54.14 52.37 $5,607.89$ $5'11/10$ 53.38 51.61 $5,607.98$ $9/29/10$ 52.95 51.18 $5,608.41$ $12/21/10$ 52.95 51.18 $5,608.60$ $6'21/11$ 52.76 50.99 $5,608.60$ $6'21/11$ 52.19 50.42 $5,608.60$ $6'21/11$ 52.49 50.72 $5,608.70$ $3'27/12$ 52.50 50.73 $5,608.86$ $9'27/13$ 52.19 50.73 $5,608.86$ $9'27/13$ 52.19 50.42 $5,608.86$ $9'27/13$ 52.48 50.71 $5,608.86$ $9'27/13$ 52.48 50.71 $5,608.86$ $9'27/13$ 52.44 50.67 $5,608.86$ $9'27/13$ 52.44 50.67 $5,608.86$ $9'27/13$ 52.44 50.67 $5,608.86$ $9'27/13$ 52.48 50.71 $5,608.86$ $9'27/13$ 52.48 50.71 $5,608.86$ $9'27/14$ 52.50 51.13 $5,608.86$ $9'27/14$ 52.48 50.71 $5,608.86$ $9'27/14$ 53.25 51.48 $5,607.98$ $6'22/15$ 53.340 51.63 $5,607.98$ $6'22/15$ 53.34 51.61 $5,607.99$ $9'26/17$ 53.29 51.52 $5,608.41$ $3'30/16$ 52.95 51.18 $5,607.90$ $9'26/17$ 53.29 51.52 $5,608.60$ $9'26/17$ 53.29 51.52 <td< td=""><td>5,606.17</td><td></td><td></td><td></td><td>11/2/09</td><td>55.19</td><td>53.42</td><td></td></td<>	5,606.17				11/2/09	55.19	53.42	
5,607.89 $5/11/10$ 53.47 51.70 $5,608.41$ $12/21/10$ 52.95 51.18 $5,608.41$ $12/21/11$ 52.87 51.10 $5,608.60$ $621/11$ 52.76 50.99 $5,609.17$ $9/20/11$ 52.19 50.42 $5,608.90$ $12/21/11$ 52.46 50.69 $5,608.87$ $3/27/12$ 52.49 50.72 $5,608.86$ $6/28/12$ 52.50 50.73 $5,608.86$ $9/27/12$ 52.50 50.73 $5,608.86$ $9/27/12$ 52.50 50.73 $5,608.86$ $9/27/13$ 52.48 50.71 $5,608.86$ $9/27/13$ 52.48 50.71 $5,608.86$ $9/27/13$ 52.44 50.67 $5,608.88$ $6/27/13$ 52.48 50.71 $5,608.88$ $3/27/14$ 53.03 51.26 $5,608.88$ $3/27/14$ 53.30 51.26 $5,608.88$ $3/27/14$ 53.30 51.23 $5,608.86$ $9/27/15$ 53.30 51.23 $5,608.76$ $3/26/15$ 53.30 51.53 $5,607.96$ $3/26/15$ 53.30 51.53 $5,607.96$ $3/26/15$ 53.38 51.61 $5,608.07$ $6/27/17$ 53.29 51.52 $5,608.07$ $6/27/17$ 53.29 51.52 $5,608.07$ $6/27/17$ 53.29 51.52 $5,608.07$ $6/27/17$ 53.29 51.52 $5,608.07$ $6/27/17$ 53.29 51.52 <td< td=""><td>5,606.70</td><td></td><td></td><td></td><td>12/14/09</td><td>54.66</td><td>52.89</td><td></td></td<>	5,606.70				12/14/09	54.66	52.89	
5,607.98 $9/29/10$ 53.38 51.61 $5,608.49$ $22/21/10$ 52.95 51.18 $5,608.49$ $22/8/11$ 52.76 50.99 $5,608.50$ $6/21/11$ 52.76 50.99 $5,608.90$ $12/21/11$ 52.46 50.69 $5,608.80$ $3/27/12$ 52.49 50.72 $5,608.86$ $6/22/12$ 52.50 50.73 $5,608.86$ $9/27/12$ 52.50 50.73 $5,608.86$ $9/27/12$ 52.50 50.73 $5,608.86$ $9/27/13$ 52.44 50.67 $5,608.86$ $9/27/13$ 52.44 50.67 $5,608.86$ $9/27/13$ 52.44 50.67 $5,608.86$ $9/27/13$ 52.44 50.67 $5,608.86$ $9/27/13$ 52.44 50.67 $5,608.86$ $3/27/14$ 53.03 51.23 $5,608.86$ $3/27/14$ 53.03 51.23 $5,608.86$ $3/26/15$ 53.40 51.63 $5,607.96$ $3/26/15$ 53.34 51.61 $5,607.96$ $3/26/15$ 53.34 51.61 $5,607.98$ $6/22/15$ 53.38 51.61 $5,607.98$ $6/22/15$ 53.348 51.71 $5,608.60$ $9/30/16$ 49.97 48.20 $5,607.90$ $9/29/16$ 53.46 51.69 $5,607.90$ $9/26/17$ 53.30 51.53 $5,607.91$ $6/27/17$ 53.29 51.52 $5,608.60$ $9/26/17$ 53.36 51.59 <t< td=""><td>5,607.22</td><td></td><td></td><td></td><td>3/11/10</td><td>54.14</td><td>52.37</td><td></td></t<>	5,607.22				3/11/10	54.14	52.37	
5,608.41 $12/21/10$ 52.95 51.18 $5,608.60$ $6/21/11$ 52.87 51.10 $5,608.60$ $6/21/11$ 52.87 50.99 $5,609.17$ $9/20/11$ 52.19 50.42 $5,608.80$ $12/21/11$ 52.46 50.69 $5,608.86$ $9/27/12$ 52.50 50.73 $5,608.86$ $9/22/12$ 52.50 50.73 $5,608.86$ $9/22/12$ 52.50 50.73 $5,608.86$ $9/22/12$ 52.50 50.73 $5,608.86$ $9/22/12$ 52.50 50.73 $5,608.86$ $9/22/12$ 52.50 50.73 $5,608.86$ $9/22/12$ 52.50 50.73 $5,608.86$ $9/22/12$ 52.50 50.73 $5,608.86$ $9/22/13$ 52.44 50.67 $5,608.86$ $9/27/13$ 52.48 50.71 $5,608.86$ $9/22/14$ 52.48 50.71 $5,608.86$ $3/27/14$ 52.48 50.71 $5,608.86$ $3/27/14$ 52.48 50.71 $5,608.36$ $12/20/13$ 53.30 51.23 $5,607.96$ $3/26/15$ 53.30 51.63 $5,607.96$ $3/26/15$ 53.34 51.61 $5,607.90$ $9/29/16$ 53.46 51.69 $5,607.90$ $9/29/16$ 53.46 51.69 $5,607.91$ $11/29/17$ 53.29 51.52 $5,608.06$ $9/26/17$ 53.30 51.53 $5,607.91$ $11/29/17$ 53.45 51.88	5,607.89				5/11/10	53.47	51.70	
5,608.49 $2/28/11$ 52.87 51.10 $5,608.60$ $6/21/11$ 52.76 50.99 $5,609.17$ $9/20/11$ 52.19 50.42 $5,608.90$ $12/21/11$ 52.46 50.69 $5,608.87$ $3/27/12$ 52.49 50.72 $5,608.86$ $6/28/12$ 52.50 50.73 $5,608.86$ $9/27/12$ 52.50 50.73 $5,608.86$ $9/27/12$ 52.50 50.73 $5,608.86$ $12/28/12$ 52.50 50.73 $5,608.86$ $9/27/13$ 52.44 50.42 $5,608.88$ $6/27/13$ 52.44 50.67 $5,608.88$ $6/27/13$ 52.44 50.67 $5,608.86$ $9/27/13$ 52.44 50.67 $5,608.86$ $9/27/14$ 53.25 51.48 $5,608.33$ $6/25/14$ 53.00 51.23 $5,608.36$ $12/17/14$ 53.00 51.23 $5,607.96$ $3/26/14$ 53.30 51.63 $5,607.96$ $3/26/14$ 53.30 51.53 $5,607.98$ $6/22/15$ 53.38 51.61 $5,608.66$ $9/30/15$ 53.46 51.69 $5,608.07$ $2/2/16$ 53.29 51.18 $5,607.90$ $9/29/16$ 53.29 51.52 $5,608.07$ $6/27/17$ 53.29 51.52 $5,608.07$ $9/26/17$ 53.36 51.59 $5,607.91$ $11/29/17$ 53.45 51.68 5607.91 $11/29/17$ 53.45 51.68 <t< td=""><td>5,607.98</td><td></td><td></td><td></td><td>9/29/10</td><td>53.38</td><td>51.61</td><td></td></t<>	5,607.98				9/29/10	53.38	51.61	
5,608.60 $6/21/11$ 52.76 50.99 $5,608.90$ $12/21/11$ 52.19 50.42 $5,608.87$ $3/27/12$ 52.49 50.73 $5,608.86$ $6/28/12$ 52.50 50.73 $5,608.86$ $9/27/12$ 52.50 50.73 $5,608.86$ $9/27/12$ 52.50 50.73 $5,608.86$ $12/28/12$ 52.50 50.73 $5,608.86$ $12/28/12$ 52.50 50.73 $5,608.86$ $12/28/12$ 52.50 50.73 $5,608.86$ $12/20/13$ 52.48 50.71 $5,608.88$ $6/27/13$ 52.48 50.71 $5,608.88$ $3/27/14$ 52.48 50.71 $5,608.88$ $3/27/14$ 52.48 50.71 $5,608.83$ $6/25/14$ 53.03 51.26 $5,608.84$ $3/27/14$ 52.48 50.71 $5,608.36$ $12/1/714$ 53.00 51.23 $5,607.96$ $3/26/15$ 53.38 51.61 $5,607.98$ $6/22/15$ 53.38 51.61 $5,607.98$ $6/22/15$ 53.38 51.61 $5,607.90$ $9/29/16$ 53.46 51.69 $5,607.91$ $12/21/16$ 53.29 51.52 $5,608.07$ $6/27/17$ 53.29 51.52 $5,608.07$ $6/27/17$ 53.30 51.53 $5,607.91$ $11/29/17$ 53.36 51.59 $5,607.91$ $11/29/17$ 53.36 51.59 $5,607.71$ $6/27/17$ 53.29 51.52	5,608.41				12/21/10	52.95	51.18	
5,609.17 $9/20/11$ 52.19 50.42 $5,608.90$ $12/21/11$ 52.46 50.69 $5,608.87$ $3/27/12$ 52.49 50.72 $5,608.86$ $6/28/12$ 52.50 50.73 $5,608.86$ $9/27/12$ 52.50 50.73 $5,608.86$ $9/27/12$ 52.50 50.73 $5,608.86$ $9/27/13$ 52.48 50.71 $5,608.88$ $6/27/13$ 52.48 50.71 $5,608.88$ $6/27/13$ 52.48 50.71 $5,608.88$ $3/27/14$ 52.48 50.71 $5,608.88$ $3/27/14$ 52.48 50.71 $5,608.88$ $3/27/14$ 53.03 51.26 $5,608.36$ $3/2/1/14$ 53.00 51.23 $5,607.96$ $3/2/6/15$ 53.40 51.63 $5,607.96$ $6/22/15$ 53.30 51.53 $5,607.98$ $6/22/15$ 53.30 51.53 $5,607.88$ $12/27/14$ 52.95 51.18 $5,607.88$ $12/27/16$ 53.29 51.52 $5,608.07$ $9/29/16$ 53.46 51.69 $5,607.90$ $9/29/16$ 53.46 51.69 $5,608.07$ $6/27/17$ 53.29 51.52 $5,608.07$ $6/27/17$ 53.29 51.52 $5,608.07$ $9/26/18$ 53.36 51.59 5607.91 $11/29/17$ 53.30 51.53 5607.92 51.52 51.88 5607.50 $9/26/18$ 53.46 52.99 5607.46 $6/25/1$	5,608.49				2/28/11	52.87	51.10	
5,608.90 $12/21/11$ 52.46 50.69 $5,608.87$ $3/27/12$ 52.49 50.72 $5,608.86$ $6/28/12$ 52.50 50.73 $5,608.86$ $12/28/12$ 52.50 50.73 $5,608.86$ $12/28/12$ 52.50 50.73 $5,608.86$ $12/28/12$ 52.50 50.73 $5,608.88$ $6/27/13$ 52.48 50.71 $5,608.88$ $6/27/13$ 52.48 50.71 $5,608.46$ $12/20/13$ 52.48 50.71 $5,608.46$ $12/20/13$ 52.48 50.71 $5,608.33$ $6/25/14$ 53.03 51.26 $5,608.11$ $9/25/14$ 53.25 51.48 $5,607.96$ $3/26/15$ 53.30 51.23 $5,607.96$ $3/26/15$ 53.30 51.63 $5,607.98$ $6/22/15$ 53.38 51.61 $5,608.41$ $3/30/16$ 52.95 51.18 $5,607.98$ $6/30/16$ 49.97 48.20 $5,607.90$ $9/29/16$ 53.46 51.69 $5,608.07$ $2/2/17$ 53.29 51.52 $5,608.07$ $9/26/17$ 53.30 51.52 $5,608.07$ $9/26/17$ 53.36 51.52 $5,608.07$ $9/26/17$ 53.36 51.59 5607.91 $11/29/17$ 53.45 51.68 5607.91 $12/21/16$ 53.97 52.20 5607.42 $3/26/19$ 53.97 52.20 5607.44 53.97 52.13 5607.45 <t< td=""><td>5,608.60</td><td></td><td></td><td></td><td>6/21/11</td><td>52.76</td><td>50.99</td><td></td></t<>	5,608.60				6/21/11	52.76	50.99	
5,608.87 $3/27/12$ 52.49 50.72 $5,608.86$ $9/27/12$ 52.50 50.73 $5,608.86$ $9/27/12$ 52.50 50.73 $5,608.86$ $12/28/12$ 52.50 50.73 $5,608.86$ $12/28/12$ 52.50 50.73 $5,608.86$ $12/28/13$ 52.19 50.42 $5,608.88$ $6/27/13$ 52.44 50.67 $5,608.892$ $9/27/13$ 52.44 50.67 $5,608.46$ $12/20/13$ 52.90 51.13 $5,608.46$ $12/20/13$ 52.90 51.13 $5,608.36$ $3/27/14$ 52.48 50.71 $5,608.36$ $12/17/14$ 53.25 51.48 $5,608.36$ $12/17/14$ 53.00 51.23 $5,607.96$ $3/26/15$ 53.40 51.63 $5,607.96$ $3/26/15$ 53.30 51.53 $5,607.98$ $6/22/15$ 53.38 51.71 $5,608.41$ $3/30/16$ 52.95 51.18 $5,607.90$ $9/2/2/15$ 53.48 51.71 $5,608.44$ $3/30/17$ 52.92 51.52 $5,608.07$ $12/21/16$ 53.29 51.52 $5,608.06$ $9/2/6/17$ 53.30 51.53 5607.91 $11/29/17$ 53.45 51.68 5607.71 $6/27/17$ 53.29 51.52 5608.06 $9/2/6/18$ 53.66 51.59 5607.71 $6/27/19$ 53.90 52.13 5607.74 $3/26/19$ 53.90 52.13 <	5,609.17				9/20/11	52.19	50.42	
5,608.86 $6/28/12$ 52.50 50.73 $5,608.86$ $9/27/12$ 52.50 50.73 $5,608.86$ $12/28/12$ 52.50 50.73 $5,609.17$ $3/28/13$ 52.19 50.42 $5,608.88$ $6/27/13$ 52.48 50.71 $5,608.92$ $9/27/13$ 52.44 50.67 $5,608.88$ $3/27/14$ 52.48 50.71 $5,608.88$ $3/27/14$ 52.48 50.71 $5,608.36$ $12/20/13$ 52.48 50.71 $5,608.36$ $12/27/14$ 53.25 51.48 $5,608.36$ $12/17/14$ 53.03 51.26 $5,607.96$ $3/26/15$ 53.40 51.63 $5,607.96$ $3/26/15$ 53.30 51.53 $5,607.98$ $6/22/15$ 53.38 51.61 $5,608.41$ $3/30/16$ 52.95 51.18 $5,617.90$ $9/29/16$ 53.46 51.69 $5,607.90$ $9/29/16$ 53.46 51.69 $5,608.07$ $12/21/17$ 53.29 51.52 5608.06 $9/26/17$ 53.30 51.53 5607.91 $11/29/17$ 53.46 51.69 $5,608.07$ $9/26/18$ 53.36 51.59 5607.71 $6/27/17$ 53.30 51.53 5607.94 $21/18$ 53.65 51.88 5607.50 $9/26/18$ 53.90 52.13 5607.746 $6/27/19$ 53.97 52.20 5607.746 $6/27/19$ 53.90 52.13 5	5,608.90				12/21/11	52.46	50.69	
5,608.86 $9/27/12$ 52.50 50.73 $5,608.86$ $12/28/12$ 52.50 50.73 $5,608.86$ $12/28/12$ 52.50 50.73 $5,608.88$ $6/27/13$ 52.48 50.71 $5,608.88$ $6/27/13$ 52.44 50.67 $5,608.46$ $12/20/13$ 52.90 51.13 $5,608.46$ $12/20/13$ 52.90 51.13 $5,608.33$ $6/25/14$ 53.03 51.26 $5,608.33$ $6/25/14$ 53.25 51.48 $5,608.36$ $12/17/14$ 53.00 51.23 $5,607.96$ $3/26/15$ 53.30 51.63 $5,607.98$ $6/22/15$ 53.38 51.61 $5,607.98$ $6/22/15$ 53.38 51.61 $5,607.98$ $9/30/15$ 53.30 51.53 $5,607.98$ $9/29/16$ 53.46 51.69 $5,607.90$ $9/29/16$ 53.46 51.69 $5,608.07$ $12/21/17$ 53.29 51.52 $5,608.07$ $9/26/17$ 53.30 51.53 $5,607.91$ $11/29/17$ 53.45 51.68 5607.91 $11/29/17$ 53.45 51.68 5607.91 $11/29/17$ 53.45 51.68 5607.91 $11/29/18$ 53.45 51.68 5607.91 $11/29/18$ 53.45 51.68 5607.71 $6/27/17$ 53.30 51.53 5607.94 $22/9$ 53.90 52.13 5607.746 $6/25/19$ 53.90 52.13 <td< td=""><td>5,608.87</td><td></td><td></td><td></td><td>3/27/12</td><td>52.49</td><td>50.72</td><td></td></td<>	5,608.87				3/27/12	52.49	50.72	
5,608.86 $12/28/12$ 52.50 50.73 $5,609.17$ $3/28/13$ 52.19 50.42 $5,608.88$ $6/27/13$ 52.48 50.71 $5,608.92$ $9/27/13$ 52.44 50.67 $5,608.46$ $12/20/13$ 52.90 51.13 $5,608.88$ $3/27/14$ 52.48 50.71 $5,608.33$ $6/25/14$ 53.05 51.48 $5,608.36$ $12/17/14$ 53.25 51.48 $5,608.36$ $12/17/14$ 53.00 51.23 $5,607.96$ $3/26/15$ 53.40 51.63 $5,607.98$ $6/22/15$ 53.38 51.61 $5,607.88$ $12/2/15$ 53.38 51.61 $5,607.88$ $12/2/15$ 53.46 51.63 $5,607.90$ $9/29/16$ 53.46 51.69 $5,608.44$ $3/30/16$ 52.95 51.18 $5,607.90$ $9/29/16$ 53.46 51.63 $5,607.91$ $12/21/16$ 53.29 51.52 $5,608.07$ $6/27/17$ 53.29 51.52 $5,608.07$ $6/27/17$ 53.29 51.52 $5,608.06$ $9/26/17$ 53.36 51.68 507.91 $11/29/17$ 53.46 51.68 507.91 $11/29/17$ 53.46 52.09 5607.71 $6/21/18$ 53.65 51.88 5607.70 $9/26/18$ 53.86 52.09 5607.746 $6/25/19$ 53.97 52.20 5607.757 $55/200$ 53.79 52.02	5,608.86				6/28/12	52.50	50.73	
5,609.17 $3/28/13$ 52.19 50.42 $5,608.88$ $6/27/13$ 52.48 50.71 $5,608.92$ $9/27/13$ 52.44 50.67 $5,608.46$ $12/20/13$ 52.90 51.13 $5,608.88$ $3/27/14$ 52.48 50.71 $5,608.33$ $6/25/14$ 53.03 51.26 $5,608.36$ $12/17/14$ 53.00 51.23 $5,607.96$ $3/26/15$ 53.40 51.63 $5,607.98$ $6/22/15$ 53.38 51.61 $5,607.98$ $6/22/15$ 53.38 51.61 $5,607.98$ $12/2/15$ 53.48 51.71 $5,607.98$ $12/2/15$ 53.48 51.71 $5,607.90$ $9/30/15$ 53.30 51.53 $5,607.90$ $9/29/16$ 53.46 51.69 $5,608.07$ $12/21/16$ 53.29 51.52 $5,608.07$ $9/29/16$ 53.46 51.69 $5,607.90$ $9/29/16$ 53.36 51.53 5607.91 $11/29/17$ 53.29 51.52 5608.06 $9/26/17$ 53.30 51.53 5607.91 $11/29/17$ 53.45 51.68 5607.94 $12/21/18$ 53.65 51.88 5607.742 $3/26/19$ 53.94 52.07 5607.742 $3/26/19$ 53.90 52.13 5607.757 $55/20$ 53.79 52.02 5607.757 $55/20$ 53.79 52.02 5607.46 $9/22/20$ 53.90 52.13 <td>5,608.86</td> <td></td> <td></td> <td></td> <td>9/27/12</td> <td>52.50</td> <td>50.73</td> <td></td>	5,608.86				9/27/12	52.50	50.73	
5,608.88 $6/27/13$ 52.48 50.71 $5,608.46$ $12/20/13$ 52.44 50.67 $5,608.46$ $12/20/13$ 52.49 51.13 $5,608.83$ $3/27/14$ 52.48 50.71 $5,608.33$ $6/25/14$ 53.03 51.26 $5,608.34$ $9/25/14$ 53.25 51.48 $5,608.36$ $12/17/14$ 53.00 51.23 $5,607.96$ $3/26/15$ 53.40 51.63 $5,607.98$ $6/22/15$ 53.38 51.61 $5,608.66$ $9/30/15$ 53.30 51.53 $5,607.88$ $12/2/15$ 53.48 51.71 $5,608.41$ $3/30/16$ 52.95 51.18 $5,607.90$ $9/29/16$ 53.46 51.69 $5,608.07$ $9/29/16$ 53.46 51.69 $5,608.07$ $12/21/16$ 53.29 51.52 $5,608.07$ $6/27/17$ 53.29 51.52 $5,608.07$ $9/26/17$ 53.30 51.53 $5,608.06$ $9/26/17$ 53.30 51.53 $5,608.06$ $9/26/17$ 53.30 51.53 $5,608.06$ $9/26/17$ 53.30 51.53 5607.91 $11/29/17$ 53.45 51.68 5607.91 $11/29/17$ 53.45 51.68 5607.94 $2/2/18$ 53.65 51.88 5607.70 $9/26/18$ 53.86 52.09 5607.742 $3/26/19$ 53.90 52.13 5607.84 $11/19/19$ 53.52 51.75	5,608.86				12/28/12	52.50	50.73	
5,608.92 $9/27/13$ 52.44 50.67 $5,608.46$ $12/20/13$ 52.90 51.13 $5,608.88$ $3/27/14$ 52.48 50.71 $5,608.33$ $6/25/14$ 53.03 51.26 $5,608.11$ $9/25/14$ 53.25 51.48 $5,608.36$ $12/17/14$ 53.00 51.23 $5,607.96$ $3/26/15$ 53.40 51.63 $5,607.98$ $6/22/15$ 53.38 51.61 $5,607.98$ $6/22/15$ 53.38 51.61 $5,607.98$ $6/22/15$ 53.48 51.71 $5,608.41$ $3/30/16$ 49.97 48.20 $5,607.98$ $6/30/16$ 49.97 48.20 $5,607.90$ $9/29/16$ 53.46 51.69 $5,608.41$ $3/30/17$ 52.92 51.18 $5,608.07$ $12/21/16$ 53.29 51.52 $5,608.06$ $9/26/17$ 53.30 51.53 5607.91 $11/29/17$ 53.36 51.53 5607.91 $11/29/17$ 53.45 51.68 508.06 $9/26/17$ 53.36 51.59 5607.71 $6/21/18$ 53.65 51.88 5607.71 $6/21/18$ 53.46 51.59 5607.94 $12/19/18$ 53.42 51.65 5607.44 $3/26/19$ 53.90 52.13 5607.50 $9/26/18$ 53.90 52.13 5607.69 $2/13/20$ 53.67 51.90 5607.757 $5/520$ 53.79 52.02 5607.6	5,609.17				3/28/13	52.19	50.42	
5,608.46 $12/20/13$ 52.90 51.13 $5,608.88$ $3/27/14$ 52.48 50.71 $5,608.33$ $6/25/14$ 53.03 51.26 $5,608.11$ $9/25/14$ 53.00 51.23 $5,608.36$ $12/17/14$ 53.00 51.23 $5,607.96$ $3/26/15$ 53.40 51.63 $5,607.98$ $6/22/15$ 53.38 51.61 $5,607.98$ $6/22/15$ 53.30 51.53 $5,607.98$ $6/22/15$ 53.30 51.53 $5,607.88$ $12/2/15$ 53.48 51.71 $5,608.41$ $3/30/16$ 52.95 51.18 $5,611.39$ $6/30/16$ 49.97 48.20 $5,607.90$ $9/29/16$ 53.46 51.69 $5,608.07$ $12/21/16$ 53.29 51.52 $5,608.07$ $6/27/17$ 53.30 51.53 5607.91 $11/29/17$ 53.45 51.68 5608.06 $9/26/17$ 53.36 51.59 5607.91 $11/29/17$ 53.45 51.68 5607.91 $11/29/17$ 53.45 51.68 5607.94 $2/19/18$ 53.42 51.65 5607.42 $3/26/19$ 53.94 52.17 5607.46 $6/25/19$ 53.90 52.13 5607.57 $5/5120$ 53.79 52.02 5607.57 $5/51/20$ 53.79 52.02 5607.46 $9/22/20$ 53.90 52.13	5,608.88				6/27/13	52.48	50.71	
5,608.88 $3/27/14$ 52.48 50.71 $5,608.33$ $6/25/14$ 53.03 51.26 $5,608.11$ $9/25/14$ 53.25 51.48 $5,608.36$ $12/17/14$ 53.00 51.23 $5,607.96$ $3/26/15$ 53.30 51.63 $5,607.98$ $6/22/15$ 53.38 51.61 $5,608.06$ $9/30/15$ 53.30 51.53 $5,607.88$ $12/2/15$ 53.48 51.71 $5,608.41$ $3/30/16$ 52.95 51.18 $5,607.90$ $9/29/16$ 53.46 51.69 $5,608.07$ $12/21/16$ 53.29 51.52 $5,608.07$ $2/21/16$ 53.29 51.52 $5,608.07$ $2/21/16$ 53.29 51.52 $5,608.07$ $6/27/17$ 53.29 51.52 $5,608.06$ $9/26/17$ 53.30 51.53 5607.91 $11/29/17$ 53.45 51.68 5607.50 $9/26/18$ 53.86 51.59 5607.71 $6/21/18$ 53.66 51.88 5607.50 $9/26/19$ 53.94 52.17 5607.42 $3/26/19$ 53.90 52.13 5607.44 $11/19/19$ 53.57 51.75 5607.69 $2/13/20$ 53.67 51.90 5607.57 $5/5/20$ 53.79 52.02 5607.46 $9/22/20$ 53.90 52.13	5,608.92				9/27/13	52.44	50.67	
5,608.33 $6/25/14$ 53.03 51.26 $5,608.11$ $9/25/14$ 53.25 51.48 $5,608.36$ $12/17/14$ 53.00 51.23 $5,607.96$ $3/26/15$ 53.40 51.63 $5,607.98$ $6/22/15$ 53.38 51.61 $5,608.06$ $9/30/15$ 53.30 51.53 $5,607.88$ $12/2/15$ 53.48 51.71 $5,608.41$ $3/30/16$ 52.95 51.18 $5,607.90$ $9/29/16$ 53.46 51.69 $5,608.07$ $12/21/16$ 53.29 51.52 $5,608.07$ $6/27/17$ 53.29 51.52 $5,608.07$ $6/27/17$ 53.30 51.53 5607.91 $11/29/17$ 53.45 51.68 5608.06 $9/26/17$ 53.36 51.59 5607.91 $11/29/17$ 53.45 51.68 5607.91 $11/29/17$ 53.45 51.68 5607.91 $11/29/17$ 53.45 51.68 5607.50 $9/26/18$ 53.86 52.09 5607.42 $3/26/19$ 53.94 52.17 5607.44 $12/19/18$ 53.52 51.75 5607.44 $11/19/19$ 53.52 51.75 5607.50 $2/13/20$ 53.67 51.90 5607.50 $2/13/20$ 53.67 51.90 5607.50 $2/13/20$ 53.67 51.90 5607.46 $6/25/19$ 53.90 52.13 5607.50 $2/13/20$ 53.67 51.90 5607.5	5,608.46				12/20/13	52.90	51.13	
5,608.11 $9/25/14$ 53.25 51.48 $5,608.36$ $12/17/14$ 53.00 51.23 $5,607.96$ $3/26/15$ 53.40 51.63 $5,607.98$ $6/22/15$ 53.38 51.61 $5,608.06$ $9/30/15$ 53.30 51.53 $5,607.88$ $12/2/15$ 53.348 51.71 $5,608.41$ $3/30/16$ 52.95 51.18 $5,617.90$ $9/29/16$ 53.46 51.69 $5,607.90$ $9/29/16$ 53.46 51.69 $5,608.07$ $12/21/16$ 53.29 51.52 $5,608.07$ $6/27/17$ 53.29 51.52 $5,608.06$ $9/26/17$ 53.30 51.53 5607.91 $11/29/17$ 53.45 51.68 5607.91 $11/29/17$ 53.45 51.68 5607.50 $9/26/18$ 53.36 51.59 5607.71 $6/21/18$ 53.65 51.88 5607.42 $3/26/19$ 53.94 52.17 5607.46 $6/25/19$ 53.94 52.17 5607.69 $2/13/20$ 53.67 51.90 5607.46 $9/22/20$ 53.90 52.13	5,608.88				3/27/14	52.48	50.71	
5,608.36 $12/17/14$ 53.00 51.23 $5,607.96$ $3/26/15$ 53.40 51.63 $5,607.98$ $6/22/15$ 53.38 51.61 $5,608.06$ $9/30/15$ 53.30 51.53 $5,607.88$ $12/2/15$ 53.48 51.71 $5,608.41$ $3/30/16$ 52.95 51.18 $5,611.39$ $6/30/16$ 49.97 48.20 $5,607.90$ $9/29/16$ 53.46 51.69 $5,608.07$ $12/21/16$ 53.29 51.52 $5,608.07$ $12/21/16$ 53.29 51.52 $5,608.07$ $6/27/17$ 53.29 51.52 $5,608.07$ $6/27/17$ 53.30 51.53 5607.91 $11/29/17$ 53.45 51.68 5607.91 $11/29/17$ 53.45 51.68 5607.91 $11/29/17$ 53.45 51.68 5607.91 $11/29/17$ 53.45 51.68 5607.91 $11/29/17$ 53.45 51.68 5607.94 $21/18$ 53.65 51.88 5607.42 $3/26/19$ 53.94 52.17 5607.44 $31/19/19$ 53.97 52.20 5607.84 $11/19/19$ 53.52 51.75 5607.69 $2/13/20$ 53.67 51.90 5607.746 $6/25/19$ 53.90 52.13 5607.57 $5/5/20$ 53.79 52.02 5607.46 $9/22/20$ 53.90 52.13	5,608.33				6/25/14	53.03	51.26	
5,607.96 $3/26/15$ 53.40 51.63 $5,607.98$ $6/22/15$ 53.38 51.61 $5,608.06$ $9/30/15$ 53.30 51.53 $5,607.88$ $12/2/15$ 53.48 51.71 $5,608.41$ $3/30/16$ 52.95 51.18 $5,611.39$ $6/30/16$ 49.97 48.20 $5,607.90$ $9/29/16$ 53.46 51.69 $5,608.07$ $12/21/16$ 53.29 51.52 $5,608.07$ $6/27/17$ 53.29 51.52 $5,608.07$ $6/27/17$ 53.29 51.52 $5,608.07$ $6/27/17$ 53.30 51.53 5607.91 $11/29/17$ 53.45 51.68 5607.91 $11/29/17$ 53.45 51.68 5607.91 $11/29/17$ 53.45 51.68 5607.91 $11/29/17$ 53.45 51.68 5607.50 $9/26/18$ 53.86 52.09 5607.50 $9/26/18$ 53.96 52.17 5607.42 $3/26/19$ 53.90 52.13 5607.44 $11/19/19$ 53.52 51.75 5607.84 $11/19/19$ 53.52 51.75 5607.69 $2/13/20$ 53.67 51.90 5607.73 $5/5/20$ 53.79 52.02 5607.746 $9/22/20$ 53.90 52.13	5,608.11				9/25/14	53.25	51.48	
5,607.98 $6/22/15$ 53.38 51.61 $5,608.06$ $9/30/15$ 53.30 51.53 $5,607.88$ $12/2/15$ 53.48 51.71 $5,608.41$ $3/30/16$ 52.95 51.18 $5,611.39$ $6/30/16$ 49.97 48.20 $5,607.90$ $9/29/16$ 53.46 51.69 $5,608.07$ $12/21/16$ 53.29 51.52 $5,608.07$ $12/21/16$ 53.29 51.52 $5,608.07$ $6/27/17$ 53.29 51.52 $5,608.07$ $6/27/17$ 53.29 51.52 $5,608.07$ $6/27/17$ 53.30 51.53 5607.91 $11/29/17$ 53.36 51.59 5607.91 $11/29/17$ 53.45 51.68 5607.71 $6/21/18$ 53.65 51.88 5607.50 $9/26/18$ 53.86 52.09 5607.42 $3/26/19$ 53.94 52.17 5607.46 $6/25/19$ 53.97 52.20 5607.39 $8/13/19$ 53.97 52.20 5607.46 $6/25/19$ 53.97 52.20 5607.57 $5/5/20$ 53.79 52.02 5607.69 $2/13/20$ 53.67 51.90 5607.57 $5/5/20$ 53.79 52.02 5607.46 $9/22/20$ 53.90 52.13	5,608.36				12/17/14	53.00	51.23	
5,608.06 $9/30/15$ 53.30 51.53 $5,607.88$ $12/2/15$ 53.48 51.71 $5,608.41$ $3/30/16$ 52.95 51.18 $5,611.39$ $6/30/16$ 49.97 48.20 $5,607.90$ $9/29/16$ 53.46 51.69 $5,608.07$ $12/21/16$ 53.29 51.52 $5,608.07$ $6/27/17$ 53.29 51.52 $5,608.07$ $6/27/17$ 53.29 51.52 $5,608.06$ $9/26/17$ 53.30 51.53 5607.91 $11/29/17$ 53.45 51.68 5607.91 $11/29/17$ 53.45 51.68 5607.91 $11/29/17$ 53.45 51.68 5607.91 $11/29/17$ 53.45 51.68 5607.50 $9/26/18$ 53.86 52.09 5607.50 $9/26/18$ 53.86 52.09 5607.42 $3/26/19$ 53.94 52.17 5607.46 $6/25/19$ 53.97 52.20 5607.39 $8/13/19$ 53.97 52.20 5607.84 $11/19/19$ 53.52 51.75 5607.69 $2/13/20$ 53.67 51.90 5607.57 $5/5/20$ 53.79 52.02 5607.46 $9/22/20$ 53.90 52.13	5,607.96				3/26/15	53.40	51.63	
5,607.88 $12/2/15$ 53.48 51.71 $5,608.41$ $3/30/16$ 52.95 51.18 $5,611.39$ $6/30/16$ 49.97 48.20 $5,607.90$ $9/29/16$ 53.46 51.69 $5,608.07$ $12/21/16$ 53.29 51.52 $5,608.07$ $6/27/17$ 53.29 51.52 $5,608.07$ $6/27/17$ 53.29 51.52 $5,608.07$ $6/27/17$ 53.29 51.52 $5,608.06$ $9/26/17$ 53.30 51.53 5607.91 $11/29/17$ 53.45 51.68 5608.00 $3/28/18$ 53.36 51.59 5607.71 $6/21/18$ 53.65 51.88 5607.50 $9/26/18$ 53.86 52.09 5607.94 $12/19/18$ 53.42 51.65 5607.42 $3/26/19$ 53.94 52.17 5607.46 $6/25/19$ 53.90 52.13 5607.73 $8/13/19$ 53.97 52.20 5607.69 $2/13/20$ 53.67 51.90 5607.57 $5/5/20$ 53.79 52.02 5607.46 $9/22/20$ 53.90 52.13	5,607.98				6/22/15	53.38	51.61	
5,608.41 $3/30/16$ 52.95 51.18 $5,611.39$ $6/30/16$ 49.97 48.20 $5,607.90$ $9/29/16$ 53.46 51.69 $5,608.07$ $12/21/16$ 53.29 51.52 $5,608.07$ $6/27/17$ 53.29 51.52 $5,608.07$ $6/27/17$ 53.29 51.52 5608.06 $9/26/17$ 53.30 51.53 5607.91 $11/29/17$ 53.45 51.68 5608.00 $3/28/18$ 53.36 51.59 5607.71 $6/21/18$ 53.65 51.88 5607.50 $9/26/18$ 53.86 52.09 5607.42 $3/26/19$ 53.94 52.17 5607.46 $6/25/19$ 53.90 52.13 5607.39 $8/13/19$ 53.52 51.75 5607.69 $2/13/20$ 53.67 51.90 5607.57 $5/5/20$ 53.79 52.02 5607.46 $9/22/20$ 53.90 52.13	5,608.06				9/30/15	53.30		
5,611.39 $6/30/16$ 49.97 48.20 $5,607.90$ $9/29/16$ 53.46 51.69 $5,608.07$ $12/21/16$ 53.29 51.52 $5,608.44$ $3/30/17$ 52.92 51.15 $5,608.07$ $6/27/17$ 53.29 51.52 5608.06 $9/26/17$ 53.30 51.53 5607.91 $11/29/17$ 53.45 51.68 5608.00 $3/28/18$ 53.36 51.59 5607.71 $6/21/18$ 53.65 51.88 5607.50 $9/26/18$ 53.86 52.09 5607.42 $3/26/19$ 53.94 52.17 5607.46 $6/25/19$ 53.97 52.20 5607.84 $11/19/19$ 53.52 51.75 5607.69 $2/13/20$ 53.67 51.90 5607.57 $5/5/20$ 53.79 52.02 5607.46 $9/22/20$ 53.90 52.13								
5,607.90 $9/29/16$ 53.46 51.69 $5,608.07$ $12/21/16$ 53.29 51.52 $5,608.44$ $3/30/17$ 52.92 51.15 $5,608.07$ $6/27/17$ 53.29 51.52 5608.06 $9/26/17$ 53.30 51.53 5607.91 $11/29/17$ 53.45 51.68 5608.00 $3/28/18$ 53.36 51.59 5607.71 $6/21/18$ 53.65 51.88 5607.50 $9/26/18$ 53.86 52.09 5607.42 $3/26/19$ 53.94 52.17 5607.46 $6/25/19$ 53.94 52.17 5607.39 $8/13/19$ 53.97 52.20 5607.69 $2/13/20$ 53.67 51.90 5607.57 $5/5/20$ 53.79 52.02 5607.46 $9/22/20$ 53.90 52.13								
5,608.07 $12/21/16$ 53.29 51.52 $5,608.44$ $3/30/17$ 52.92 51.15 $5,608.07$ $6/27/17$ 53.29 51.52 5608.06 $9/26/17$ 53.30 51.53 5607.91 $11/29/17$ 53.45 51.68 5608.00 $3/28/18$ 53.36 51.59 5607.71 $6/21/18$ 53.65 51.88 5607.50 $9/26/18$ 53.86 52.09 5607.42 $3/26/19$ 53.94 52.17 5607.46 $6/25/19$ 53.94 52.17 5607.46 $6/25/19$ 53.97 52.20 5607.84 $11/19/19$ 53.52 51.75 5607.69 $2/13/20$ 53.67 51.90 5607.57 $5/5/20$ 53.79 52.02 5607.46 $9/22/20$ 53.90 52.13								
5,608.44 $3/30/17$ 52.92 51.15 $5,608.07$ $6/27/17$ 53.29 51.52 5608.06 $9/26/17$ 53.30 51.53 5607.91 $11/29/17$ 53.45 51.68 5608.00 $3/28/18$ 53.36 51.59 5607.71 $6/21/18$ 53.65 51.88 5607.50 $9/26/18$ 53.86 52.09 5607.42 $3/26/19$ 53.94 52.17 5607.46 $6/25/19$ 53.90 52.13 5607.39 $8/13/19$ 53.97 52.20 5607.69 $2/13/20$ 53.67 51.90 5607.57 $5/5/20$ 53.79 52.02 5607.46 $9/22/20$ 53.90 52.13								
5,608.07 $6/27/17$ 53.29 51.52 5608.06 $9/26/17$ 53.30 51.53 5607.91 $11/29/17$ 53.45 51.68 5608.00 $3/28/18$ 53.36 51.59 5607.71 $6/21/18$ 53.65 51.88 5607.50 $9/26/18$ 53.86 52.09 5607.94 $12/19/18$ 53.42 51.65 5607.42 $3/26/19$ 53.94 52.17 5607.46 $6/25/19$ 53.90 52.13 5607.39 $8/13/19$ 53.52 51.75 5607.69 $2/13/20$ 53.67 51.90 5607.57 $5/5/20$ 53.79 52.02 5607.46 $9/22/20$ 53.90 52.13								
5608.06 $9/26/17$ 53.30 51.53 5607.91 $11/29/17$ 53.45 51.68 5608.00 $3/28/18$ 53.36 51.59 5607.71 $6/21/18$ 53.65 51.88 5607.50 $9/26/18$ 53.86 52.09 5607.94 $12/19/18$ 53.42 51.65 5607.42 $3/26/19$ 53.94 52.17 5607.46 $6/25/19$ 53.90 52.13 5607.39 $8/13/19$ 53.97 52.20 5607.69 $2/13/20$ 53.67 51.90 5607.57 $5/5/20$ 53.79 52.02 5607.46 $9/22/20$ 53.90 52.13								
$\begin{array}{cccccccccccccccccccccccccccccccccccc$								
$\begin{array}{cccccccccccccccccccccccccccccccccccc$								
$\begin{array}{cccccccccccccccccccccccccccccccccccc$								
5607.509/26/1853.8652.095607.9412/19/1853.4251.655607.423/26/1953.9452.175607.466/25/1953.9052.135607.398/13/1953.9752.205607.692/13/2053.6751.905607.575/5/2053.7952.025607.469/22/2053.9052.13								
5607.9412/19/1853.4251.655607.423/26/1953.9452.175607.466/25/1953.9052.135607.398/13/1953.9752.205607.8411/19/1953.5251.755607.692/13/2053.6751.905607.575/5/2053.7952.025607.469/22/2053.9052.13								
5607.423/26/1953.9452.175607.466/25/1953.9052.135607.398/13/1953.9752.205607.8411/19/1953.5251.755607.692/13/2053.6751.905607.575/5/2053.7952.025607.469/22/2053.9052.13								
5607.466/25/1953.9052.135607.398/13/1953.9752.205607.8411/19/1953.5251.755607.692/13/2053.6751.905607.575/5/2053.7952.025607.469/22/2053.9052.13								
5607.398/13/1953.9752.205607.8411/19/1953.5251.755607.692/13/2053.6751.905607.575/5/2053.7952.025607.469/22/2053.9052.13								
5607.8411/19/1953.5251.755607.692/13/2053.6751.905607.575/5/2053.7952.025607.469/22/2053.9052.13								
5607.692/13/2053.6751.905607.575/5/2053.7952.025607.469/22/2053.9052.13								
5607.575/5/2053.7952.025607.469/22/2053.9052.13								
5607.46 9/22/20 53.90 52.13								
5607.66 12/30/20 53.70 51.93								
	5607.66				12/30/20	53.70	51.93	

.

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
(112)	5,659.59	5,661.36	1.77	monitoring	(010.001)	(DIWLDD)	107.77
5607.75				3/11/21	53.61	51.84	
5607.39				6/24/21	53.97	52.20	
5607.33				8/11/21	54.03	52.26	
5607.81				12/28/21	53.55	51.78	
5607.26				2/10/22	54.10	52.33	

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
	5,640.46	5,642.46	2.00				95.5
5,564.53				6/24/21	77.93	75.93	
5,564.51				8/11/21	77.95	75.95	
5,564.69				12/28/21	77.77	75.77	
5,564.52				2/10/22	77.94	75.94	

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,633.08	5,635.08	2.00				105.7
5,555.84				6/24/21	79.24	77.24	
5,555.89				8/11/21	79.19	77.19	
5,555.93				12/28/21	79.15	77.15	
5,555.95				2/10/22	79.13	77.13	

					Total or		
		Measuring			Measured	Total	
Water	Land	Point			Depth to	Depth to	Total
Elevation	Surface	Elevation	Length Of	Date Of	Water	Water	Depth Of
(WL)	(LSD)	(MP)	Riser (L)	Monitoring	(blw.MP)	(blw.LSD)	Well
(((L)	5,613.34	5,614.50	1.16	Monitoring	(DIW.MII)	(DIW.LSD)	110
5,534.92	5,015.54	5,014.50	1.10	10/24/06	79.58	78.42	110
5,535.09				3/16/07	79.41	78.25	
5,535.46				8/27/07	79.04	77.88	
5,535.06				10/15/07	79.44	78.28	
5,535.78				3/15/08	78.72	77.56	
5,536.26				6/15/08	78.24	77.08	
5,536.35				9/15/08	78.15	76.99	
5,536.68				11/15/08	77.82	76.66	
5,535.42				3/15/09	79.08	77.92	
5,537.11				6/30/09	77.39	76.23	
5,536.93				9/10/09	77.57	76.41	
5,537.23				12/11/09	77.27	76.11	
5,537.59				3/11/10	76.91	75.75	
5,537.85				5/11/10	76.65	75.49	
5,538.37				9/29/10	76.13	74.97	
5,537.70				12/21/10	76.8	75.64	
5,537.67				2/28/11	76.83	75.67	
5,538.31				6/21/11	76.19	75.03	
5,538.15				9/20/11	76.35	75.19	
5,538.42				12/21/11	76.08	74.92	
5,538.54				3/27/12	75.96	74.8	
5,538.60				6/28/12	75.9	74.74	
5,538.68				9/27/12	75.82	74.66	
5,538.99				12/28/12	75.51	74.35	
5,539.25				3/28/13	75.25	74.09	
5,539.05				6/27/13	75.45	74.29	
5,539.60				9/27/13	74.90	73.74	
5,539.67				12/20/13	74.90	73.67	
5,539.77				3/27/14	74.73	73.57	
5,539.40				6/25/14	75.10	73.94	
5,539.19				9/25/14	75.31	74.15	
5,539.30				12/17/14	75.20	74.04	
5,539.01				3/26/15	75.49	74.33	
5,538.99				6/22/15	75.51	74.35	
5,539.10				9/30/15	75.40	74.24	
5,538.90				12/2/15	75.60	74.44	
5,539.53				3/30/16	74.97	73.81	
5,539.11				6/30/16	75.39	74.23	
5,539.05				9/29/16	75.45	74.29	
5,539.06				12/21/16	75.44	74.28	
5,539.81				3/30/17	74.69	73.53	
5,539.60				6/27/17	74.90	73.74	
5539.40				9/27/17	75.10	73.94	
5539.30				11/30/17	75.20	74.04	
5539.55				3/29/18	74.95	73.79	
5539.63				6/22/18	74.87	73.71	
5539.40				9/26/18	75.10	73.94	
5539.59				12/17/18	74.91	73.75	
5539.39				3/26/19	74.91	73.92	
5539.42 5539.70							
				6/24/19	74.80	73.64	
5539.45				8/13/19	75.05	73.89	
5539.53				11/19/19	74.97	73.81	
5539.57				2/13/20	74.93	73.77	
5539.27				5/5/20	75.23	74.07	

Water Elevation (WL)	Land Surface (LSD) 5,613,34	Measuring Point Elevation (MP) 5,614,50	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well 110
5539.25	e je rete i	0,01,00		9/22/20	75.25	74.09	
5539.41				12/30/20	75.09	73.93	
5539.45				3/11/21	75.05	73.89	
5539.34				6/24/21	75.16	74.00	
5539.32				8/11/21	75.18	74.02	
5539.56				12/28/21	74.94	73.78	
5539.18				2/10/22	75.32	74.16	

Water Levels and Data over Time White Mesa Mill - Well MW-30 Total or

Water	Levels	and	Da	ata o	ver	Time
White	e Mesa	Mill	- 1	Well	MV	V-31
						Total or

					Total or		
		Measuring			Measured	Total	
Water	Land	Point			Depth to	Depth to	Total
Elevation	Surface	Elevation	Length Of	Date Of	Water	Water	Depth Of
(WL)	(LSD)	(MP)	Riser (L)	Monitoring	(blw.MP)	(blw.LSD)	Well
	5,615.26	5,616.40	1.14				130
5,544.07				10/24/06	72.33	71.19	
5,544.45				3/16/07	71.95	70.81	
5,536.94				8/27/07	79.46	78.32	
5,544.62				10/15/07	71.78	70.64	
5,545.37				3/15/08	71.03	69.89	
5,544.50				6/15/08	71.90	70.76	
5,545.94				9/15/08	70.46	69.32	
5,546.42				11/15/08	69.98	68.84	
5,546.03				3/15/09	70.37	69.23	
5,546.65				6/30/09	69.75	68.61	
5,546.45				9/10/09	69.95	68.81	
5,546.75				12/11/09	69.65	68.51	
5,547.09				3/11/10	69.31	68.17	
5,547.41				5/11/10	68.99	67.85	
5,547.28				9/29/10	69.12	67.98	
5,547.45				12/21/10	68.95	67.81	
5,547.37				2/28/11	69.03	67.89	
5,547.96				6/21/11	68.44	67.3	
5,547.65				9/20/11	68.75	67.61	
5,548.34				12/21/11	68.06	66.92	
5,548.30				3/27/12	68.10	66.96	
5,548.40				6/28/12	68.00	66.86	
5,548.59				9/27/12	67.81	66.67	
5,548.91				12/28/12	67.49	66.35	
5,549.14				3/28/13	67.26	66.12	
5,548.90				6/27/13	67.50	66.36	
5,549.25				9/27/13	67.15	66.01	
5,549.16				12/20/13	67.24	66.10	
5,548.95				3/27/14	67.45	66.31	
5,548.60				6/25/14	67.80	66.66	
5,548.19				9/25/14	68.21	67.07	
5,548.25				12/17/14	68.15	67.01	
5,548.14				3/26/15	68.26	67.12	
5,547.85				6/22/15	68.55	67.41	
5,548.00				9/30/15	68.40	67.26	
5,547.84				12/2/15	68.56	67.42	
5,548.35				3/30/16	68.05	66.91	
5,548.00				6/30/16	68.40	67.26	
5,547.80				9/29/16	68.60	67.46	
5,547.80				12/21/16	68.60	67.46	
5,548.30				3/30/17	68.10	66.96	
5,548.10				6/27/17	68.30	67.16	
5,547.93				9/27/17	68.47	67.33	
5,547.80				11/30/17	68.60	67.46	
5,547.92				3/29/18	68.48	67.34	
5,547.95				6/22/18	68.45	67.31	
5,547.69				9/26/18	68.71	67.57	
5,547.82				12/17/18	68.58	67.44	
5,547.56				3/26/19	68.84	67.70	
5,547.68				6/24/19	68.72	67.58	
5,547.56				8/13/19	68.84	67.70	
5,547.58				11/19/19	68.82	67.68	
5,547.59				2/13/20	68.81	67.67	
5,547.92				5/5/20	68.48	67.34	
5,547.18				9/22/20	69.22	68.08	
.,				>, = 2/20		00.00	

Water Elevation (WL)	Land Surface (LSD) 5,615.26	Measuring Point Elevation (MP) 5,616.40	Length Of Riser (L) 1.14	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well 130
5,547.29	.,	5,010110		12/30/20	69.11	67.97	
5,547.53				3/11/21	68.87	67.73	
5,547.14				6/24/21	69.26	68.12	
5,547.07				8/11/21	69.33	68.19	
5,547.21				12/28/21	69.19	68.05	
5,546.97				2/10/22	69.43	68.29	

Tab G

Laboratory Analytical Reports



INORGANIC ANALYTICAL REPORT

Client:Chemtech-Ford LaboratoryContact:David GayerProject:22B1363Lab Sample ID:220208-013Client Sample ID:PIEZ-01_02162022Collection Date:2/16/2022900hReceived Date:2/18/20221213h

Analytical Results

3440 South 700 West	Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Salt Lake City, UT 84119	Nitrate/Nitrite (as N)	mg/L		2/18/2022 1621h	E353.2	0.100	7.40	

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

web: www.awal-labs.com

Jennifer Osborn Laboratory Director



Chloride

68.8

Serving the Intermountain West Since 1953

9632 South 500 West Sandy, UT 84070 O:(801) 262-7299 F: (866) 792-0093 www.ChemtechFord.com

2/21/22

2/22/22



Amended		С	ertificate of	Analysis		Amended			
Energy Fuels Resources, Inc. Tanner Holliday				PO#: Receipt: 2/17/22	15:09 @ 0.0 °C				
6425 South Highway 191			Dat	e Reported: 3/10/20	-				
Blanding, UT 84511				oject Name: 1st Qua					
Sample ID: PIEZ-01_02162022									
Matrix: Water						Lab ID: 2	22B1363-13		
Date Sampled: 2/16/22 9:00			Sa	ampled By: Tanner H	lolliday				
			Minimum Reporting		Preparation	Analysis			
	Result	<u>Units</u>	Limit	Method	Date/Time	Date/Time	Flag(s)		
Inorganie									

1.0

mg/L

EPA 300.0



INORGANIC ANALYTICAL REPORT

	Client:	Chemtech-F	ord Laboratory	Contact:	David Gayer
	Project:	22B1363			
	Lab Sample ID:	2202208-01	2		
	Client Sample ID:	PIEZ-02_02	162022		
ES	Collection Date:	2/16/2022	846h		
	Received Date:	2/18/2022	1213h		

Analytical Results

3440 South 700 West	Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Salt Lake City, UT 84119	Nitrate/Nitrite (as N)	mg/L		2/18/2022 1619h	E353.2	0.100	0.330	

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

web: www.awal-labs.com

Jennifer Osborn Laboratory Director



Chemtech-Ford Laboratories

Serving the Intermountain West Since 1953

9632 South 500 West Sandy, UT 84070 O:(801) 262-7299 F: (866) 792-0093 www.ChemtechFord.com



.

AmendedCertificate of AnalysisAmendedEnergy Fuels Resources, Inc.PO#:Tanner HollidayReceipt: 2/17/22 15:09 @ 0.0 °C6425 South Highway 191Date Reported: 3/10/2022Blanding, UT 84511Project Name: 1st Quarter Nitrate 2022

Sample ID: **PIEZ-02_02162022**

Matrix: Water						Lab ID: 2	2B1363-12
Date Sampled: 2/16/22 8:46							
			Minimum Reporting		Preparation	Analysis	
	Result	<u>Units</u>	<u>Limit</u>	Method	Date/Time	Date/Time	Flag(s)
Inorganic							
Chloride	14.0	mg/L	1.0	EPA 300.0	2/21/22	2/22/22	



INORGANIC ANALYTICAL REPORT

Client: Contact: David Gayer Chemtech-Ford Laboratory **Project:** 22B1363 Lab Sample ID: 2202208-014 Client Sample ID: PIEZ-03A 02162022 **Collection Date:** 2/16/2022 915h **Received Date:** 2/18/2022 1213h

Analytical Results

3440 South 700 West	Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Salt Lake City, UT 84119	Nitrate/Nitrite (as N)	mg/L		2/18/2022 1622h	E353.2	0.100	12.1	

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

web: www.awal-labs.com

Jennifer Osborn Laboratory Director



Chloride

91.7

mg/L

1.0

Serving the Intermountain West Since 1953

9632 South 500 West Sandy, UT 84070 O:(801) 262-7299 F: (866) 792-0093 www.ChemtechFord.com

2/21/22

2/22/22



Amended		Ce	ertificate of	Amended			
Energy Fuels Resources, Inc.				PO#:			
Tanner Holliday 6425 South Highway 191			Dat	Receipt: 2/17/22 e Reported: 3/10/20	· · · · · · · · · · · · · · · · · · ·		
Blanding, UT 84511				oject Name: 1st Qua			
Sample ID: PIEZ-03A_02162022							
Matrix: Water						Lab ID:	22B1363-14
Date Sampled: 2/16/22 9:15			Sa	ampled By: Tanner H	lolliday		
			Minimum Reporting		Preparation	Analysis	
	<u>Result</u>	Units	<u>Limit</u>	Method	Date/Time	Date/Time	Flag(s)
Inorganic							

EPA 300.0



INORGANIC ANALYTICAL REPORT

	Client:	Chemtech-Ford Laboratory	Contact:	David Gayer
	Project:	22B1363		
	Lab Sample ID:	2202208-004		
+	Client Sample ID:	TWN-01_02152022		
ES	Collection Date:	2/15/2022 1234h		
	Received Date:	2/18/2022 1213h		

Analytical Results

3440 South 700 West	Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
t Lake City, UT 84119	Nitrate/Nitrite (as N)	mg/L		2/18/2022 1608h	E353.2	0.100	3.01	

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

Salt Lake

web: www.awal-labs.com

Jennifer Osborn Laboratory Director



Chloride

35.6

mg/L

1.0

Serving the Intermountain West Since 1953

9632 South 500 West Sandy, UT 84070 O:(801) 262-7299 F: (866) 792-0093 www.ChemtechFord.com

2/21/22

2/22/22



Amended		С	ertificate o	Amended					
Energy Fuels Resources, Inc.				PO#:					
Tanner Holliday									
6425 South Highway 191									
Blanding, UT 84511	Project Name: 1st Quarter Nitrate 2022								
Sample ID: TWN-01_02152022									
Matrix: Water						Lab ID: 2	2B1363-04		
Date Sampled: 2/15/22 12:34			S	ampled By: Tanner H	lolliday				
			Minimum						
			Reporting		Preparation	Analysis			
	Result	<u>Units</u>	<u>Limit</u>	<u>Method</u>	Date/Time	Date/Time	Flag(s)		
Inorganie					and the second				

EPA 300.0

ANALYTICAL LABORATORIES

INORGANIC ANALYTICAL REPORT

Client: Chemtech-Ford Laboratory **Project:** 22B1363 2202208-005 Lab Sample ID: Client Sample ID: TWN-02_02152022 **Collection Date:** 2/15/2022 1315h **Received Date:** 2/18/2022 1213h

Contact: David Gayer

Analytical Results

3440 South 700 West	Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
t Lake City, UT 84119	Nitrate/Nitrite (as N)	mg/L		2/18/2022 1611h	E353.2	0.100	15.3	

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

Salt Lake

web: www.awal-labs.com

Jennifer Osborn Laboratory Director



Chloride

59.5

mg/L

1.0

Serving the Intermountain West Since 1953

2/21/22

2/22/22



Amended		С	ertificate of	Amended				
Energy Fuels Resources, Inc.				PO#:				
Tanner Holliday				Receipt: 2/17/22	15:09 @ 0.0 °C			
6425 South Highway 191			Date					
Blanding, UT 84511	84511 Project Name: 1st Quarter Nitrate 2022							
Sample ID: TWN-02_02152022								
Matrix: Water						Lab ID: 2	2B1363-05	
Date Sampled: 2/15/22 13:15			Sa	mpled By: Tanner H	lolliday			
			Minimum					
	Second Control	1.000 M	Reporting		Preparation	Analysis	1988 - 1989 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -	
	<u>Result</u>	<u>Units</u>	<u>Limit</u>	Method	Date/Time	Date/Time	Flag(s)	
Inorganic								

EPA 300.0



INORGANIC ANALYTICAL REPORT

	Client:	Chemtech-F	ord Laboratory	Contact:	David Gayer
	Project:	22B1363			
	Lab Sample ID:	2202208-01	1		
+	Client Sample ID:	TWN-03_02	2162022		
S	Collection Date:	2/16/2022	835h		
	Received Date:	2/18/2022	1213h		

Analytical Results

0 South 700 West	Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
e City, UT 84119	Nitrate/Nitrite (as N)	mg/L		2/18/2022 1618h	E353.2	0.200	25.3	

Phone: (801) 263-8686 Toll Free: (888) 263-8686 Fax: (801) 263-8687 ٤-mail: awal@awal-labs.com

3440 Salt Lake

web: www.awal-labs.com

Jennifer Osborn Laboratory Director



Serving the Intermountain West Since 1953

9632 South 500 West Sandy, UT 84070 O:(801) 262-7299 F: (866) 792-0093 www.ChemtechFord.com



Amended	Certificate of Analysis	Amended
Energy Fuels Resources, Inc.	PO#:	
Tanner Holliday	Receipt: 2/17/22 15:0	09 @ 0.0 °C
6425 South Highway 191	Date Reported: 3/10/2022	-
Blanding, UT 84511	Project Name: 1st Quarter	Nitrate 2022
Sample ID: TWN-03_02162022		
Matrix: Water		Lab ID: 22B1363-11
Date Sampled: 2/16/22 8:35	Sampled By: Tanner Hollic	
	Minimum Reporting	Preparation Analysis

					reparation	Analysis	
	Result	<u>Units</u>	<u>Limit</u>	Method	Date/Time	Date/Time	Flag(s)
Inorganic		No. of Concession, Name					
Chloride	140	mg/L	2.0	EPA 300.0	2/23/22	2/24/22	

VTICAL LABOR

INORGANIC ANALYTICAL REPORT

	Client:	Chemtech-Ford Laboratory
1	Project:	22B1363
	Lab Sample ID:	2202208-003
act	Client Sample ID:	TWN-04_02152022
RIES	Collection Date:	2/15/2022 1200h
	Received Date:	2/18/2022 1213h

Contact: David Gayer

VUUT

Analytical Results

3440 South 700 West	Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
t Lake City, UT 84119	Nitrate/Nitrite (as N)	mg/L		2/18/2022 1604h	E353.2	0.100	1.50	£.

¹ - Matrix spike recovery indicates matrix interference. The method is in control as indicated by the LCS.

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

Salt Lake City, UT

web: www.awal-labs.com

Jennifer Osborn Laboratory Director



Inorganic Chloride

22.7

mg/L

1.0

Serving the Intermountain West Since 1953

2/21/22

2/22/22



Amended		Ce	ertificate	Amended			
Energy Fuels Resources, Inc. Tanner Holliday 6425 South Highway 191 Blanding, UT 84511			ł	PO#: Receipt: 2/17/22 1 Date Reported: 3/10/2022 Project Name: 1st Quart	2		
Sample ID: TWN-04_02152022							
Matrix: Water Date Sampled: 2/15/22 12:00				Sampled By: Tanner Ho	olliday	Lab ID:	22B1363-03
	<u>Result</u>	<u>Units</u>	Minimum Reporting <u>Limit</u>	Method	Preparation <u>Date/Time</u>	Analysis <u>Date/Time</u>	<u>Flag(s)</u>

EPA 300.0

American West

INORGANIC ANALYTICAL REPORT

Client:Chemtech-Ford LaboratoryProject:22B1363Lab Sample ID:2202208-010Client Sample ID:TWN-07_02162022Collection Date:2/16/2022827h2/18/2022Received Date:2/18/2022

Contact: David Gayer

Analytical Results

3440 South 700 West	Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Salt Lake City, UT 84119	Nitrate/Nitrite (as N)	mg/L		2/18/2022 1617h	E353.2	0.100	16.9	

Phone: (801) 263-8686 Toll Free: (888) 263-8686 Fax: (801) 263-8687 ۶-mail: awal@awal-labs.com

web: www.awal-labs.com

Jennifer Osborn Laboratory Director



Serving the Intermountain West Since 1953

9632 South 500 West Sandy, UT 84070 O:(801) 262-7299 F: (866) 792-0093 www.ChemtechFord.com



Amended	C	ertificate of		Amended		
Energy Fuels Resources, Inc.			PO#:			
Tanner Holliday			Receipt: 2/17/22	15:09 @ 0.0 °C		
6425 South Highway 191		Dat	e Reported: 3/10/20	22		
Blanding, UT 84511		Pro	oject Name: 1st Qua	rter Nitrate 2022		
Sample ID: TWN-07_02162022						
Matrix: Water					Lab ID:	22B1363-10
Date Sampled: 2/16/22 8:27		Sa	ampled By: Tanner H	lolliday		
		Minimum				
		Reporting		Preparation	Analysis	
Result	Units	Limit	Method	Date/Time	Date/Time	Flag(s)

	Result	<u>Units</u>	<u>Limit</u>	Method	Date/Time	Date/Time	Flag(s)
Inorganic							3
Chloride	120	mg/L	10.0	EPA 300.0	2/21/22	2/22/22	



INORGANIC ANALYTICAL REPORT

Client:Chemtech-Ford LaboratoryProject:22B1363Lab Sample ID:2202208-002Client Sample ID:TWN-18_02152022Collection Date:2/15/2022957hReceived Date:2/18/20221213h

Contact: David Gayer

Analytical Results

3440 South 700 West	Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Salt Lake City, UT 84119	Nitrate/Nitrite (as N)	mg/L		2/18/2022 1600h	E353.2	0.100	0.199	i.

¹ - Matrix spike recovery indicates matrix interference. The method is in control as indicated by the LCS.

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

web: www.awal-labs.com

Jennifer Osborn Laboratory Director



Chloride

40.9

mg/L

1.0

Serving the Intermountain West Since 1953

9632 South 500 West Sandy, UT 84070 O:(801) 262-7299 F: (866) 792-0093 www.ChemtechFord.com

2/21/22

2/22/22



Amended		С	ertificate	of Analysis		Amended		
Energy Fuels Resources, Inc. Tanner Holliday 6425 South Highway 191 Blanding, UT 84511				PO#: Receipt: 2/17/22 ate Reported: 3/10/20 Project Name: 1st Qua	22			
Sample ID: TWN-18_02152022								
Matrix: Water						Lab ID:	22B1363-02	
Date Sampled: 2/15/22 9:57				Sampled By: Tanner H	lolliday			
	Result	Units	Minimum Reporting <u>Limit</u>	Method	Preparation <u>Date/Time</u>	Analysis Date/Time	Flag(s)	
Inorganic	inter i							

EPA 300.0

American West ANALYTICAL LABORATORIES

INORGANIC ANALYTICAL REPORT

	Client:	Chemtech-F	ord Laboratory	Contact:	David Gayer
	Project:	22B1363			
	Lab Sample ID:	2202208-00	1		
et	Client Sample ID:	TWN-18R_	02152022		
IES	Collection Date:	2/15/2022	825h		
	Received Date:	2/18/2022	1213h		

Analytical Results

3440 South 700 West	Compound Units		Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Salt Lake City, UT 84119	Nitrate/Nitrite (as N)	mg/L		2/18/2022 1559h	E353.2	0.100	< 0.100	

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

web: www.awal-labs.com

Jennifer Osborn Laboratory Director

> Jose Rocha QA Officer

All analyses applicable to the CWA. SDWA. and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. Confidential Business Information: This report addresses 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 subsect 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 subsect 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 subsect 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 advertisement.



Inorganic Chloride

< 1.0

Serving the Intermountain West Since 1953

9632 South 500 West Sandy, UT 84070 O:(801) 262-7299 F: (866) 792-0093 www.ChemtechFord.com

2/21/22

2/22/22



Amended		C	ertificate	Amended			
Energy Fuels Resources, Inc. Tanner Holliday 6425 South Highway 191 Blanding, UT 84511				Date Reported:	2/17/22 15:09 @ 0.0 °C 3/10/2022 1st Quarter Nitrate 2022		
Sample ID: TWN-18R_02152022							
Matrix: Water Date Sampled: 2/15/22 8:25				Sampled By: T	Fanner Holliday	Lab ID:	22B1363-01
	<u>Result</u>	<u>Units</u>	Minimum Reporting <u>Limit</u>	Metho	Preparation <u>d</u> <u>Date/Time</u>	Analysis <u>Date/Time</u>	Flag(s)

EPA 300.0

1.0

mg/L

American West

INORGANIC ANALYTICAL REPORT

	Client:	Chemtech-F	ord Laboratory	Contact:	David Gayer
	Project:	22B1363			
C.	Lab Sample ID:	2202208-00	8		
	Client Sample ID:	TWN-20_02	2162022		
ES	Collection Date:	2/16/2022	808h		
	Received Date:	2/18/2022	1213h		

Analytical Results

3440 South 700 West	Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Salt Lake City, UT 84119	Nitrate/Nitrite (as N)	mg/L		2/18/2022 1615h	E353.2	0.100	0.436	

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

web: www.awal-labs.com

Jennifer Osborn Laboratory Director



Inorganic Chloride

31.2

mg/L

1.0

Serving the Intermountain West Since 1953

9632 South 500 West Sandy, UT 84070 O:(801) 262-7299 F: (866) 792-0093 www.ChemtechFord.com

2/21/22

2/22/22



Amended Amended **Certificate of Analysis** Energy Fuels Resources, Inc. PO#: **Tanner Holliday** Receipt: 2/17/22 15:09 @ 0.0 °C 6425 South Highway 191 Date Reported: 3/10/2022 Blanding, UT 84511 Project Name: 1st Quarter Nitrate 2022 TWN-20_02162022 Sample ID: Lab ID: 22B1363-08 Matrix: Water Date Sampled: 2/16/22 8:08 Sampled By: Tanner Holliday Minimum Reporting Preparation Analysis Limit Date/Time Date/Time Result <u>Units</u> Method Flag(s)

EPA 300.0

TICAL LABORATORIES

INORGANIC ANALYTICAL REPORT

Client: Chemtech-Ford Laboratory Contact: David Gayer **Project:** 22B1363 Lab Sample ID: 2202208-009 Client Sample ID: TWN-21 02162022 **Collection Date:** 2/16/2022 818h **Received Date:** 2/18/2022 1213h

Analytical Results

3440 South 700 West	Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Salt Lake City, UT 84119	Nitrate/Nitrite (as N)	mg/L		2/18/2022 1616h	E353,2	0.100	1.10	

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

web: www.awal-labs.com

Jennifer Osborn Laboratory Director

> Jose Rocha QA Officer

JUC



Chloride

40.4

mg/L

1.0

Serving the Intermountain West Since 1953

9632 South 500 West Sandy, UT 84070 O:(801) 262-7299 F: (866) 792-0093 www.ChemtechFord.com

2/21/22

2/22/22



Amended		С	ertificate of	Amended					
Energy Fuels Resources, Inc.				PO#:					
Tanner Holliday				Receipt: 2/17/22	15:09 @ 0.0 °C				
6425 South Highway 191	Highway 191 Date Reported: 3/10/202								
Blanding, UT 84511			Pr	oject Name: 1st Qua	arter Nitrate 2022				
Sample ID: TWN-21_02162022									
Matrix: Water						Lab ID: 2	22B1363-09		
Date Sampled: 2/16/22 8:18			Sa	ampled By: Tanner H	lolliday				
			Minimum						
			Reporting		Preparation	Analysis			
	Result	<u>Units</u>	<u>Limit</u>	Method	Date/Time	Date/Time	Flag(s)		
Inorganic									

EPA 300.0



Serving the Intermountain West Since 1953

9632 South 500 West Sandy, UT 84070 O:(801) 262-7299 F: (866) 792-0093 www.ChemtechFord.com



Certificate of Analysis

Blanding, UT 84511	Project Name: 1st Quarter Chloroform 2022
6425 South Highway 191	Date Reported: 4/8/2022
Tanner Holliday	Receipt: 3/11/22 14:00 @ 0.7 °C
Energy Fuels Resources, Inc.	PO#:

Sample ID: TW4-22_03092022

Matrix: Water						Lab ID: 2	2C1015-13
Date Sampled: 3/9/22 9:25			S				
			Minimum Reporting		Preparation	Analysis	
11 <u></u>	Result	<u>Units</u>	<u>Limit</u>	Method	Date/Time	Date/Time	Flag(s)
Inorganic							
Chloride	442	mg/L	10,0	EPA 300.0	3/23/22	3/23/22	
Nitrate + Nitrite, Total, as N	40.4	mg/L	1.0	EPA 353,2	3/15/22	3/16/22	



Serving the Intermountain West Since 1953

9632 South 500 West Sandy, UT 84070 O:(801) 262-7299 F: (866) 792-0093 www.ChemtechFord.com



Certificate of Analysis

Blanding, UT 84511	Project Name: 1st Quarter Chloroform 2022
6425 South Highway 191	Date Reported: 4/8/2022
Tanner Holliday	Receipt: 3/11/22 14:00 @ 0.7 °C
Energy Fuels Resources, Inc.	PO#:

Sample ID: TW4-24_03092022

Matrix: Water Date Sampled: 3/9/22 9:15			S	ampled By: Tanner I	lolliday	Lab ID: 2	2C1015-02
	Result	<u>Units</u>	Minimum Reporting <u>Limit</u>	<u>Method</u>	Preparation <u>Date/Time</u>	Analysis <u>Date/Time</u>	Flag(s)
Inorganic	ar burnesse 1						
Chloride	890	mg/L	10.0	EPA 300.0	3/23/22	3/23/22	
Nitrate + Nitrite, Total, as N	36.2	mg/L	1.0	EPA 353.2	3/15/22	3/16/22	



Serving the Intermountain West Since 1953

9632 South 500 West Sandy, UT 84070 O:(801) 262-7299 F: (866) 792-0093 www.ChemtechFord.com



Certificate of Analysis

Energy Fuels Resources, Inc.	PO#:
Tanner Holliday	Receipt: 3/11/22 14:00 @ 0.7 °C
6425 South Highway 191	Date Reported: 4/8/2022
Blanding, UT 84511	Project Name: 1st Quarter Chloroform 2022

Sample ID: TW4-25_03092022

Matrix: Water Date Sampled: 3/9/22 8:55		Sa	ampled By: Tanner I	Holliday	Lab ID: 2	2C1015-01	
	<u>Result</u>	<u>Units</u>	Minimum Reporting <u>Limit</u>	Method	Preparation Date/Time	Analysis Date/Time	Flag(s)
Inorganic							
Chloride	70.3	mg/L	1.0	EPA 300.0	3/22/22	3/22/22	
Nitrate + Nitrite, Total, as N	1.8	mg/L	0.5	EPA 353.2	3/29/22	3/30/22	



INORGANIC ANALYTICAL REPORT

Client:Chemtech-Ford LaboratoryContact:David GayerProject:22B1363Lab Sample ID:2202208-007Client Sample ID:TWN-60_02152022Collection Date:2/15/2022Acceived Date:2/18/202212D12D

Analytical Results

3440 South 700 West	Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Salt Lake City, UT 84119	Nitrate/Nitrite (as N)	mg/L		2/18/2022 1614h	E353.2	0.100	< 0.100	

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

web: www.awal-labs.com

Jennifer Osborn Laboratory Director

> Jose Rocha QA Officer

āπ



Serving the Intermountain West Since 1953

9632 South 500 West Sandy, UT 84070 O:(801) 262-7299 F: (866) 792-0093 www.ChemtechFord.com



Certificate of Analysis

6425 South Highway 191 Blanding, UT 84511	Date Reported: 4/8/2022 Project Name: 1st Quarter Chloroform 2022
6425 South Highway 191	Date Reported: 4/8/2022
Tanner Holliday	Receipt: 3/11/22 14:00 @ 0.7 °C
Energy Fuels Resources, Inc.	PO#:

Lab ID: 22C1015-16 Matrix: Water Date Sampled: 3/9/22 12:30 Sampled By: Tanner Holliday Minimum Reporting Preparation Analysis **Limit** Method Date/Time Date/Time Result Units Flag(s) Inorganic Chloride < 1.0 EPA 300.0 3/22/22 3/22/22 mg/L 1.0 Nitrate + Nitrite, Total, as N < 0.1 mg/L 0.1 EPA 353.2 3/15/22 3/16/22



Chloride

< 1.0

mg/L

Serving the Intermountain West Since 1953

2/21/22

2/22/22



Amended		С	ertificate o	f Analysis	Amended		
Energy Fuels Resources, Inc.				PO#:			
Tanner Holliday	Tanner Holliday			Receipt: 2/17/22	15:09 @ 0.0 °C		
6425 South Highway 191	6425 South Highway 191			te Reported: 3/10/202	22		
Blanding, UT 84511			P	roject Name: 1st Qua	rter Nitrate 2022		
Sample ID: TWN-60_02152022							
Matrix: Water						Lab ID: 2	2B1363-07
Date Sampled: 2/15/22 14:00			S	ampled By: Tanner H	lolliday		
14			Minimum				
			Reporting		Preparation	Analysis	
	<u>Result</u>	<u>Units</u>	Limit	Method	Date/Time	Date/Time	Flag(s)
Inorganie							

EPA 300.0

1.0

NALYTICAL LABORATOR

INORGANIC ANALYTICAL REPORT

	Client:	Chemtech-Ford Laboratory	Contact:	David Gayer
	Project:	22B1363		
	Lab Sample ID:	2202208-006		
St	Client Sample ID:	TWN-65_02152022		
RIES	Collection Date:	2/15/2022 957h		
	Received Date:	2/18/2022 1213h		

Analytical Results

3440 South 700 West	Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Salt Lake City, UT 84119	Nitrate/Nitrite (as N)	mg/L		2/18/2022 1612h	E353.2	0.100	< 0.100	

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

web: www.awal-labs.com

Jennifer Osborn Laboratory Director

> Jose Rocha QA Officer



Inorganic Chloride

Chemtech-Ford Laboratories

40.5

mg/L

Serving the Intermountain West Since 1953

2/21/22

2/22/22



Amended	C	ertificate of	Analysis		Amended	
Energy Fuels Resources, Inc.			PO#:			
Tanner Holliday			Receipt: 2/17/22	15:09 @ 0.0 °C		
6425 South Highway 191		Date	e Reported: 3/10/20			
Blanding, UT 84511		Pro	oject Name: 1st Qua	arter Nitrate 2022		
Sample ID: TWN-65_02152022						
Matrix: Water					Lab ID: 2	22B1363-06
Date Sampled: 2/15/22 9:57		Sa	mpled By: Tanner I	Holliday		
		Minimum Reporting		Preparation	Analysis	
Result	Units	Limit	Method	Date/Time	Date/Time	Flag(s)

EPA 300.0

1.0





3/10/2022

Work Order: 22B1363 Project: 1st Quarter Nitrate 2022

> Energy Fuels Resources, Inc. Attn: Tanner Holliday 6425 South Highway 191 Blanding, UT 84511

Client Service Contact: 801.262.7299

The analyses presented on this report were performed in accordance with the National Environmental Laboratory Accreditation Program (NELAP) unless noted in the comments, flags, or case narrative. If the report is to be used for regulatory compliance, it should be presented in its entirety, and not be altered.



Approved By:

1=AA

Patrick Noteboom, Project Manager

9632 South 500 West

Sandy, Utah 84070

801.262.7299 Main

866.792.0093 Fax

www.ChemtechFord.com

Serving the Intermountain West since 1953



Amended Report Narrative

Report Changes:

The client sample ID for 22B1363-14 has been changed. No analytical data has been changed.

Energy Fuels Resources, Inc.

Project: 1st Quarter Nitrate 2022 Project Manager: Tanner Holliday Laboratory ID Sample Name 22B1363-01 TWN-18R_02152022 TWN-18 02152022 22B1363-02 22B1363-03 TWN-04 02152022 22B1363-04 TWN-01_02152022 TWN-02_02152022 22B1363-05 22B1363-06 TWN-65_02152022 22B1363-07 TWN-60_02152022 22B1363-08 TWN-20_02162022 22B1363-09 TWN-21_02162022 TWN-07_02162022 22B1363-10 TWN-03_02162022 22B1363-11 PIEZ-02 02162022 22B1363-12 22B1363-13 PIEZ-01 02162022 22B1363-14 PIEZ-03A_02162022

Work Order Report Narrative

Sample Preparation

All samples were prepared within method specified holding times. No preparation issues were noted.

Method Blanks

All blank values were within method acceptance criteria. No blank values exceeded the minimum reporting limit for any analysis in this work order.

Laboratory Control Samples

All laboratory control samples were within method acceptance criteria.

Method Spikes

All method spike recoveries were within method acceptance criteria, except as noted by qualifying flags.

Method Spike Duplicates

All method spike duplicates were within method acceptance criteria, except as noted by qualifying flags.

Corrective Actions

There are no corrective actions associated with this work order.



Serving the Intermountain West Since 1953

9632 South 500 West Sandy, UT 84070 O:(801) 262-7299 F: (866) 792-0093 www.ChemtechFord.com



Amended

Certificate of Analysis

Amended

Energy Fuels Resources, Inc. Tanner Holliday 6425 South Highway 191 Blanding, UT 84511 PO#: Receipt: 2/17/22 15:09 @ 0.0 °C Date Reported: 3/10/2022 Project Name: 1st Quarter Nitrate 2022

Report Footnotes

Abbreviations

ND = Not detected at the corresponding Minimum Reporting Limit (MRL).

1 mg/L = one milligram per liter or 1 mg/kg = one milligram per kilogram = 1 part per million.

1 ug/L = one microgram per liter or 1 ug/kg = one microgram per kilogram = 1 part per billion.

1 ng/L = one nanogram per liter or 1 ng/kg = one nanogram per kilogram = 1 part per trillion.

Linke	of
Clerity Energy Fuels Resources, Inc. July	
G425 F. Hwy. 191 Blanding, UT 84511 Blanding, UT 84511 Blanding, UT 84511 Cortact: Tanner Holliday Fed Filtered For: Fed Filtered For: Blanding, UT 84511 Cortact: Tanner Holliday Call #	
Address: 64/25 8: HWF. 191 EXCE_ Bandaing, UT 34511 Contact: Tanaer Hollday Field Filtered For: Field Filtered For: 1 Stopped or hard: Project Name: Ist Quarter Nitrate 2022 Coll #: Field Filtered For: Field Filtered For: 1 Stopped or hard: Project Name: Ist Quarter Nitrate 2022 Coll #: Field Filtered For: Field Filtered For: 1 Stopped or hard: Project Name: Ist Quarter Nitrate 2022 Coll #: Filtered For: Filtered For: 1 Stopped or hard: Project Name: Ist Quarter Nitrate 2022 Coll #: Filtered For: Filtered For: 9 Project Name: Project Name: Tanner Holliday Sampled Sampled Sampled Sampled Filtered For: 9 Project Name: Filtered For: 9 Project Name: 9 Project Name: Filtered For: 9 Project Name:	Use Only
Contact: Tanner Holliday: Cell #:	
Phone #: [435] 678-2221 Cell #:	delivered
Phone # [435] 678-2221 Cell # Cell # Intervention I	0.0
Email: tabilitatygenergyttela.com; invelaelgenergyttela.com; CWA CWA 4 Recorded Bukk Project #	O.T.c
Project Name: Int Quarter Nitrate 2022 Int Nitrate 2022 In	
Project #:	id) N
Left Sampled	be
Left Sampled	
Image: Sampled	N
TWN-18_02152022 2/15/2022 957 2 w x x TWN-04_02152022 2/15/2022 1200 2 w x x TWN-04_02152022 2/15/2022 1200 2 w x x TWN-01_02152022 2/15/2022 1234 2 w x x TWN-02_02152022 2/15/2022 1315 2 w x x TWN-66_02152022 2/15/2022 1315 2 w x x TWN-60_02152022 2/15/2022 1400 2 w x x TWN-20_02162022 2/16/2022 808 2 w x x TWN-21_02162022 2/16/2022 808 2 w x x TWN-20_02162022 2/16/2022 818 2 w x x TWN-07_02162022 2/16/2022 827 2 w x x TWN-07_02162022 2/16/2022 827 2 w x x	N
3 TWR-04_02152022 2/15/2022 1200 2 W X X 4 TWR-01_02152022 2/15/2022 1234 2 W X X 5 TWR-02_02152022 2/15/2022 1315 2 W X X 6 TWR-65_02152022 2/15/2022 1315 2 W X X 7 TWR-60_02152022 2/15/2022 957 2 W X X 7 TWR-60_02152022 2/15/2022 1400 2 W X X 7 TWR-20_02162022 2/16/2022 808 2 W X X 7 TWR-21_02162022 2/16/2022 818 2 W X X 7 TWR-07_02162022 2/16/2022 827 2 W X X 7 TWR-07_02162022 2/16/2022 827 2 W X X 7 TWR-07_02162022 2/16/2022 827 2 W X X	
1 WR-04_02152022 2/15/2022 1200 2 W X X 4 TWR-01_02152022 2/15/2022 1234 2 W X X 6 TWR-02_02152022 2/15/2022 1315 2 W X X 6 TWR-65_02152022 2/15/2022 957 2 W X X 7 TWR-60_02152022 2/15/2022 957 2 W X X 7 TWR-60_02152022 2/15/2022 1400 2 W X X 7 TWR-20_02162022 2/16/2022 808 2 W X X 7 TWR-21_02162022 2/16/2022 818 2 W X X 7 TWR-07_02162022 2/16/2022 827 2 W X X 7 TWR-07_02162022 2/16/2022 827 2 W X X 7 TWR-07_02162022 2/16/2022 827 2 W X X 6 TWR-07_02162022 2/16/2022<	19 10 1
Image: Window Series of Containers Integration of Series of Serie	Package NA
Image: Window Series of Containers Integration of Series of Serie	er Package
1 TWN-60_02152022 1400 2 W X X 3 TWN-20_02162022 2/16/2022 808 2 W X X 3 TWN-20_02162022 2/16/2022 808 2 W X	NA
% TWN-20_02162022 2/16/2022 808 2 w x x % TWN-21_02162022 2/16/2022 818 2 w x x % TWN-21_02162022 2/16/2022 818 2 w x x % TWN-07_02162022 2/16/2022 827 2 w x x	NA
Image: Contract of the state of th	nple NA
IWR-21_02162022 2/16/2022 818 2 W X X Correct Containers Within Hold Time IWR-07_02162022 2/16/2022 827 2 W X X Correct Containers () Within Hold Time	
11TWB-03_02162022 2/16/2022 835 2/W X I X I // LUL Included Checked by	N
PIEZ-02_02162022 2/16/2022 846 2 W X PIEZ-01_02162022 2/16/2022 900 2 W X	
Relinquished by: Date: Received by: Date:	
Signature Signature Time: Time	
Processor Processor Relinquished by: Date: Skipnature Skipnature	
Print Name: Print Name	
Reinquisted by: Date: Received by: Signature Signature S	
Print Name: Time: 1/2187Y4Y0391699259 Print Name: 17 00:37:24 2022 HIPPS	

Λ		American W Analytical Labor 463 W. 3600 S. Salt Lake Cit Phone # (801) 263-8686 Toll Free	atories پ. ۲۰۰۲ 84115		All	analy					АР асст	edited me	athods and	i al <mark>i</mark> data '		rted usin	g AWAL's standard analyte lists and reporting d/or attached documentation.	AWAL Lab Sample Set # Page of
		Fax # (801) 263-8687 Email a					QC L					Tu	Im Arou		ne:		Unless other arrangements have been made signed reports will be emailed by 5:00 pm or	
		www.awal-labs.c	om			-		3	_		_		Stan	dard	_	_	the day they are due.	
Client:	Energy Fu	els Resources, Inc.															X Include EDD:	Laboratory Use Only
Address:	6425 S. H	wy. 191															LOCUS UPLOAD EXCEL	Samples Were:
	Blanding,	UT 84511															Field Filtered For.	1 Shipped or hand delivered
Contact:	Tanner H	olliday																2 Ambient or Chilled 0.0
Phone #:	(435) 678	-2221 Cell #.				1											For Compliance With:	3 Temperature
Email:	tholliday@er	ergyfuels.com; kweinel@energyfu																4 Received Broken/Leeking
Project Name:	1st Quart	er Nitrate 2022															□ SDWA □ ELAP / A2LA	(Improperty Sealed)
Project #:							6	6									Non-Compliance	5 Property Preserved
PO #:							NO2/NO3 (353.2)	300.0)									Other:	Y N Checked at bench
Sampler Name:	Tanner H	olliday			ainer	Matrix	33	0 or										Y N
			Date	Time	Cont	ample M	2/M	(4500									Known Hazards &	6 Received Within Holding Times
22376	5 Sam	ole ID:	Sampled	Sampled	ъ #	Sam	NO.	ซ									Sample Comments	Y N
PIEZ-03A_02162	222		2/16/2022	915	2	W	х	х										
15					Π	Τ												COC Tape Was:
10					Π	Т												1 Present on Outer Package Y N NA
17					Π	Т												2 Unbroken on Outer Package
18					П	Т												Y N NA
19					Π	Т												3 Present on Sample Y N NA
20					П	Τ												4 Unbroken on Sample
21					П	T												Y N NA
22					П	1												Discrepancies Between Sample
23					H	1							1					Labels and COC Record?
24					H	1												
25				-	H	1	+											
26					H	┪	+				+	-			-			
Relinquished by: Jdu Signature Jdu		1./	Date:	Received by:	7	11	7	1		u		Date	2.	17.	70	_	Special Instructions:	
		any	Time:			-	N	24	- au	a		Тяти		SIF		_		
Print Name: Relinquished by:	Tanner Holliday		1100 Date:	Print Name: Received by:	-	-	-			-	-	Date		SUP		-		
Signature			Time:	Signature		-	_		-			Time	Ð:		_			
Print Name: Relinquished by:			Date:	Print Name: Received by:		-			-			Dete	9:			_		
Signature			Time:	Signature	_							Time	8:		-			
Print Name: Relinquished by:			Date:	Print Name: Received by:		_	_	-				Dete):					
Signature			Time:	Signature		-						Tim						
Print Name:				Print Name:														

			r Work Ord	•			-		25
Analyte	% Rec	RPD	Limits	RPD Max 300.0	Result	Source Conc	Spk Value	MRL	DF
QC Sample ID: BWB0788-BLK1	Batch: I	BWB0788							
Date Prepared: 02/21/2022		nalyzed: 02	/22/2022						
Chloride	Dutern	iaiy200. 02			ND			1.0	1.00
QC Sample ID: BWB0853-BLK1	Batch: I	BWB0853							
Date Prepared: 02/23/2022		nalyzed: 02	/24/2022						
Chloride					ND			1.0	1.00
		L	CS - EPA 3	0.00					
QC Sample ID: BWB0788-BS1	Batch: I	BWB0788							
Date Prepared: 02/21/2022	Date Ar	nalyzed: 02	/22/2022						
Chloride	101		90 - 110		50.5		50.0	1.0	1.00
QC Sample ID: BWB0853-BS1	Batch: I	BWB0853					-		
Date Prepared: 02/23/2022	Date Ar	nalyzed: 02	/24/2022						
Chloride	104		90 - 110		52.2		50.0	1.0	1.00
		Matri	ix Spike - E	PA 300.0					
QC Sample ID: BWB0788-MS1	Batch: I	BWB0788	QC Se	ource Sampl	e: 22B136	53-01			
Date Prepared: 02/21/2022	Date Ar	nalyzed: 02	/22/2022						
Chloride	97.4		80 - 120		10.8	ND	11.1	1.1	1.00
QC Sample ID: BWB0788-MS2	Batch: I	BWB0788	QC So	ource Sampl	e: 22B136	63-02			
Date Prepared: 02/21/2022	Date Ar	nalyzed: 02	/22/2022						
Chloride	99.5		80 - 120		52.0	40.9	11.1	1.1	1.00
QC Sample ID: BWB0853-MS1	Batch: H	BWB0853	QC So	ource Sampl	e: 22B136	53-11			
Date Prepared: 02/23/2022	Date Ar	nalyzed: 02	/24/2022						
Chloride	89.8		80 - 120		160	140	22.2	2.2	1.00
		Matrix	Spike Dup ·	EPA 300	.0				
QC Sample ID: BWB0788-MSD1	Batch: I	BWB0788	QC So	ource Sampl	e: 22B136	53-01			
Date Prepared: 02/21/2022	Date Ar	nalyzed: 02	/22/2022						
Chloride	98.7	1.26	80 - 120	20	11.0	ND	11.1	1.1	1.00
QC Sample ID: BWB0788-MSD2	Batch: I	BWB0788	QC So	ource Sampl	e: 22B136	53-02			
Date Prepared: 02/21/2022	Date Ar	nalyzed: 02	/22/2022						
Chloride	91.7	1.68	80 - 120	20	51.1	40.9	11.1	1.1	1.00
QC Sample ID: BWB0853-MSD1	Batch: I	BWB0853	QC Se	ource Sampl	e: 22B136	53-11			
Date Prepared: 02/23/2022	Date An	nalyzed: 02	/24/2022						
Chloride	84.0	0.813	80 - 120	20	158	140	22.2	2.2	1.00



David Gaver Chemtech-Ford Laboratory 9632 S. 500 W. Sandy, UT 84070 TEL: (801) 262-7299

RE: 22B1363

Dear David Gayer: Lab Set ID: 2202208 3440 South 700 West Salt Lake City, UT 84119 American West Analytical Laboratories received sample(s) on 2/18/2022 for the analyses presented in the following report. American West Analytical Laboratories (AWAL) is accredited by The National Phone: (801) 263-8686 Environmental Laboratory Accreditation Program (NELAP) in Utah and Texas; and is Toll Free: (888) 263-8686 state accredited in Colorado, Idaho, New Mexico, Wyoming, and Missouri. Fax: (801) 263-8687 All analyses were performed in accordance to the NELAP protocols unless noted e-mail: awal@awal-labs.com otherwise. Accreditation scope documents are available upon request. If you have any questions or concerns regarding this report please feel free to call. web: www.awal-labs.com 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 Jennifer Osborn purging efficiency. The "Reporting Limit" found on the report is equivalent to the Laboratory Director practical quantitation limit (POL). This is the minimum concentration that can be reported by the method referenced and the sample matrix. The reporting limit must not be Jose Rocha confused with any regulatory limit. Analytical results are reported to three significant figures for quality control and calculation purposes. **QA** Officer

> Thank You, Digitally signed by Jennifer Osborn DN: cn=Jennifer Osborn, o=AWAL, ou=Organics, email=jenn@awal-labs, com, c=US Date: 2022.03.01 08:12:19 -07'00'

Approved by:

Laboratory Director or designee



SAMPLE SUMMARY

Contact: David Gayer

Client: Chemtech-Ford Laboratory **Project:** 22B1363 Lab Set ID: 2202208 Date Received: 2/18/2022 1213h

	Lab Sample ID	Client Sample ID	Date Colle	cted	Matrix	Analysis
3440 South 700 West	2202208-001A	TWN-18R_02152022	2/15/2022	825h	Aqueous	Nitrite/Nitrate (as N), E353.2
Salt Lake City, UT 84119	2202208-002A	TWN-18_02152022	2/15/2022	957h	Aqueous	Nitrite/Nitrate (as N), E353.2
	2202208-003A	TWN-04_02152022	2/15/2022	1200h	Aqueous	Nitrite/Nitrate (as N), E353.2
	2202208-004A	TWN-01_02152022	2/15/2022	1234h	Aqueous	Nitrite/Nitrate (as N), E353.2
Phone: (801) 263-8686	2202208-005A	TWN-02_02152022	2/15/2022	1315h	Aqueous	Nitrite/Nitrate (as N), E353.2
Toll Free: (888) 263-8686	2202208-006A	TWN-65_02152022	2/15/2022	957h	Aqueous	Nitrite/Nitrate (as N), E353.2
Fax: (801) 263-8687	2202208-007A	TWN-60_02152022	2/15/2022	1400h	Aqueous	Nitrite/Nitrate (as N), E353.2
	2202208-008A	TWN-20_02162022	2/16/2022	808h	Aqueous	Nitrite/Nitrate (as N), E353.2
e-mail: awal@awal-labs.com	2202208-009A	TWN-21_02162022	2/16/2022	818h	Aqueous	Nitrite/Nitrate (as N), E353.2
web: www.awal-labs.com	2202208-010A	TWN-07_02162022	2/16/2022	827h	Aqueous	Nitrite/Nitrate (as N), E353.2
web. www.awai-iabs.com	2202208-011A	TWN-03_02162022	2/16/2022	835h	Aqueous	Nitrite/Nitrate (as N), E353.2
	2202208-012A	PIEZ-02_02162022	2/16/2022	846h	Aqueous	Nitrite/Nitrate (as N), E353.2
	2202208-013A	PIEZ-01_02162022	2/16/2022	900h	Aqueous	Nitrite/Nitrate (as N), E353.2
Jennifer Osborn	2202208-014A	PIEZ-03A_02162022	2/16/2022	915h	Aqueous	Nitrite/Nitrate (as N), E353.2
Laboratory Director	-					

Jose Rocha **QA** Officer

All analyses applicable to the CWA. SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC, Confidential Business Information: This report advertisement, promotion or sale of any product or process, or in connection with the advertisement, promotion or sale of any product or process, or in connection with the advertisement, promotion or sale of any product or process, or in connection with the advertisement promotion or sale of any product or process, or in connection with the advertisement promotion or sale of any product or process, or in connection with the advertisement promotion or sale of any product or process, or in connection with the advertisement promotion or sale of any product or process, or in connection with the advertisement promotion or sale of any product or process, or in connection with the advertisement promotion or sale of any product or process, or in connection with the advertisement promotion or sale of any product or process, or in connection with the advertisement promotion or sale of any product or process, or in connection with the advertisement promotion or sale of any product or process, or in connection with the advertisement promotion or sale of any product or process, or in connection with the advertisement provide to the process. on man the re-promeanon or and report

Inorganic Case Narrative



Chemtech-Ford Lab ID: Project Name: AWAL Lab Set ID:

22B1363 1st Quarter Nitrate 2022 2202208

Sample Receipt Information:

3440 South 700 West Salt Lake City, UT 84119	Date of Receipt: Date of Collection Sample Condition C-O-C Discrepa	on: on:	2/18/2022 2/15/2022 Intact None	2 2-2/16/2022
Phone: (801) 263-8686				analysis and preparation of all nes. All samples were properly
Toll Free: (888) 263-8686 Fax: (801) 263-8687	Preparation and Analy methods stated on the ana	-	nts: The sampl	es were analyzed following the
e-mail: awal@awal-labs.com web: www.awal-labs.com	Analytical QC Requir requirements were met. A Batch QC Requirement	All internal standa	ard recoveries me	ibration and calibration check et method criterion.
Jennifer Osborn Laboratory Director	Method Blanks indicating that the		· · · · · · · · · · · · · · · · · · ·	detected above reporting limits, ination.
Jose Rocha	Laboratory Con limits, indicating	-		5 recoveries were within control were in control.
QA Officer		Percent Differe		(SD): All percent recoveries and ide established limits, with the
	Sample ID	Analyte	QC	Explanation
	2202208-002A	Nitrate/Nitrite	MS	Sample matrix interference

Nitrate/Nitrite

Duplicate (DUP): The parameters that required a duplicate analysis had RPDs within the control limits.

Sample matrix interference

MSD

Corrective Action: None required.

2202208-003A

				3440 Se	outh 700 West								
				Salt Lake	City, UT 841	19				Je	ennifer Os	born	
		Pho	one: (801) 263-8	8686, Toll Fre	e: (888) 263-86	86, Fax: (801) 2	63-8687			L	aboratory	Directo	or
			e-mail: awal	@awal-labs.c	om, web: www.	awal-labs.com							
											ose Rocha		
American West			000	NMIT	ARY RE	DODT				Ç	A Office		
ANALYTICAL LABORATORIES			QC.			FURI							
Client: Chemtech-Ford Laboratory	/					Contact:	David Ga	iyer					
Lab Set ID: 2202208						Dept:	WC						
Project: 22B1363						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-R161573Test Code:NO2/NO3-W-353.2	Date Analyzed:	02/18/202	22 1558h										
Nitrate/Nitrite (as N)	1.02	mg/L	E353,2	0.00541	0.0100	1.000	0	102	90 - 110				

			Pho	ne: (801) 263-	Salt Lake	outh 700 West City, UT 841 e: (888) 263-86		63-8687				ennifer O aboratory)r
America	nWest					om, web: www.						ose Rocha A Office		
Lab Set ID:	Chemtech-Ford Laboratory 2202208 22B1363	/					Contact: Dept: QC Type:	David Ga WC MBLK	yer					
Analyte		Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID Test Code:	D: MB-R161573 NO2/NO3-W-353.2	Date Analyzed:	02/18/202	2 1557h										
Nitrate/Nitrite	(as N)	< 0.0100	mg/L	E353.2	0.00541	0.0100								

		Pho		Salt Lake 8686, Toll Fre		19 86, Fax: (801) 24	53-8687				ennifer Os aboratory		or
American West					om, web: www.						ose Rocha A Officer		
Client: Chemtech-Ford Laborator	У					Contact:	David Ga	yer					
Lab Set ID: 2202208 Project: 22B1363						Dept: QC Type:	WC 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: 2202208-002AMS Test Code: NO2/NO3-W-353.2	Date Analyzed:	02/18/202	2 1602h										
Nitrate/Nitrite (as N)	12.0	mg/L	E353.2	0.0541	0.100	10.00	0.199	118	90 - 110				1
Lab Sample ID: 2202208-003AMS Test Code: NO2/NO3-W-353.2	Date Analyzed:	02/18/202	2 1605h										
Nitrate/Nitrite (as N)	12.1	mg/L	E353.2	0.0541	0.100	10.00	1.5	106	90 - 110				

- Matrix spike recovery indicates matrix interference. The method is in control as indicated by the LCS.

American West		Pho	e-mail: awal	Salt Lake 8686, Toll Fre @awal-labs.c	outh 700 West City, UT 841 ee: (888) 263-86 om, web: www.	19 86, Fax: (801) 2 awal-labs.com	63-8687			L	ennifer O aboratory ose Rocha A Office	Directo	or
Client:Chemtech-Ford LaLab Set ID:2202208Project:22B1363	boratory					Contact: Dept: QC Type:	David Ga WC MSD	yer					
Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2202208-002AMS Test Code: NO2/NO3-W-353.		02/18/202	22 1603h										
Nitrate/Nitrite (as N)	10.9	mg/L	E353.2	0.0541	0.100	10.00	0.199	107	90 - 110	12	9.61	10	
Lab Sample ID: 2202208-003AMS Test Code: NO2/NO3-W-353.		02/18/202	22 1606h										
Nitrate/Nitrite (as N)	12.9	mg/L	E353,2	0.0541	0.100	10.00	1.5	114	90 - 110	12.1	6.40	10	1

'- Matrix spike recovery indicates matrix interference. The method is in control as indicated by the LCS.

west Allalytical Lab	bratories				ot Emailed:		D
RDER Summary Chemtech-Ford Laboratory							Page 1 of 2
22B1363	e are Enerøy Fuels Quari	QC Leve			WO Type: Sta	ndard	
Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
TWN-18R_02152022	2/15/2022 0825h	2/18/2022 1213h	NO2/NO3-W-353.2 1 SEL Analytes: NO3NO2N	Aqueous		df - no2/no3	1
TWN-18_02152022	2/15/2022 0957h	2/18/2022 1213h	NO2/NO3-W-353.2 I SEL Analytes: NO3NO2N	Aqueous		df - no2/no3	0
TWN-04_02152022	2/15/2022 1200h	2/18/2022 1213h	NO2/NO3-W-353.2 I SEL Analytes: NO3NO2N	Aqueous		df - no2/no3	1
TWN-01_02152022	2/15/2022 1234h	2/18/2022 1213h	NO2/NO3-W-353.2 1 SEL Analytes: NO3NO2N	Aqueous		df - no2/no3	1
TWN-02_02152022	2/15/2022 1315h	2/18/2022 1213h	NO2/NO3-W-353.2 I SEL Analytes: NO3NO2N	Aqueous	V	df - no2/no3	1
TWN-65_02152022	2/15/2022 0957h	2/18/2022 1213h	NO2/NO3-W-353.2 1 SEL Analytes: NO3NO2N	Aqueous	V	df - no2/no3	1
TWN-60_02152022	2/15/2022 1400h	2/18/2022 1213h	NO2/NO3-W-353.2 1 SEL Analytes: NO3NO2N	Aqueous	⊻	df - no2/no3	1
TWN-20_02162022	2/16/2022 0808h	2/18/2022 1213h	NO2/NO3-W-353.2 I SEL Analytes: NO3NO2N	Aqueous		df - no2/no3	1
TWN-21_02162022	2/16/2022 0818h	2/18/2022 1213h	NO2/NO3-W-353.2 1 SEL Analytes: NO3NO2N	Aqueous		df - no2/no3	1
TWN-07_02162022	2/16/2022 0827h	2/18/2022 1213h	NO2/NO3-W-353.2 I SEL Analytes: NO3NO2N	Aqueous		df - no2/no3	1
TWN-03_02162022	2/16/2022 0835h	2/18/2022 1213h	NO2/NO3-W-353.2 I SEL Analytes: NO3NO2N	Aqueous		df - no2/no3	1
PIEZ-02_02162022	2/16/2022 0846h	2/18/2022 1213h	NO2/NO3-W-353.2 1 SEL Analytes: NO3NO2N	Aqueous	V	df - no2/no3	1
	Chemtech-Ford Laboratory CHE 190 22B1363 PA Rush; Email Group / QC3 Thes Client Sample ID TWN-18R_02152022 TWN-04_02152022 TWN-01_02152022 TWN-02_02152022 TWN-65_02152022 TWN-66_02152022 TWN-60_02152022 TWN-20_02162022 TWN-20_02162022 TWN-07_02162022 TWN-03_02162022	Chemtech-Ford Laboratory CHE 190 22B1363 PA Rush; Email Group / QC3 These are Energy Fuels Quart Client Sample ID Collected Date TWN-18R_02152022 2/15/2022 0825h TWN-18_02152022 2/15/2022 0957h TWN-04_02152022 2/15/2022 1200h TWN-04_02152022 2/15/2022 1200h TWN-01_02152022 2/15/2022 1234h TWN-02_02152022 2/15/2022 1315h TWN-65_02152022 2/15/2022 1315h TWN-60_02152022 2/15/2022 1400h TWN-60_02152022 2/16/2022 0808h TWN-20_02162022 2/16/2022 0808h TWN-20_02162022 2/16/2022 0818h TWN-03_02162022 2/16/2022 0827h	Contact: Contact: Contact: 22B1363 Contact: 22B1363 QC Leve PA Rush; Email Group / QC3 These are Energy Fuels Quarterly Nitrates.; Client Sample ID Collected Date Received Date TWN-18_02152022 2/15/2022 0825h 2/18/2022 1213h TWN-18_02152022 2/15/2022 0957h 2/18/2022 1213h TWN-04_02152022 2/15/2022 1200h 2/18/2022 1213h TWN-04_02152022 2/15/2022 1234h 2/18/2022 1213h TWN-04_02152022 2/15/2022 1315h 2/18/2022 1213h TWN-04_02152022 2/15/2022 1315h 2/18/2022 1213h TWN-04_02152022 2/15/2022 085h 2/18/2022 1213h TWN-04_02152022 2/16/2022 0808h 2/18/2022 1213h TWN-04_02152022 2/16/2022 0808h 2/18/2022 1213h TWN-04_02162022 2/16/2022 0818h	Chemtech-Ford Laboratory CHEI 90 Contact: David Gayer QC Level: 22B1363 QC Level: III PA Rush; Email Group / QC3 These are Energy Fuels QuarterJy Nitrates.; III Client Sample ID Collected Date Received Date Test Code TWN-188_02152022 2/15/2022 0825h 2/18/2022 1213h NO2/NO3-W-353.2 I SEL Analytes: NO3NO2N TWN-18_02152022 2/15/2022 0957h 2/18/2022 1213h NO2/NO3-W-353.2 I SEL Analytes: NO3NO2N TWN-04_02152022 2/15/2022 1200h 2/18/2022 1213h NO2/NO3-W-353.2 I SEL Analytes: NO3NO2N TWN-04_02152022 2/15/2022 1234h 2/18/2022 1213h NO2/NO3-W-353.2 I SEL Analytes: NO3NO2N TWN-02_02152022 2/15/2022 1315h 2/18/2022 1213h NO2/NO3-W-353.2 I SEL Analytes: NO3NO2N TWN-66_02152022 2/15/2022 1315h 2/18/2022 1213h NO2/NO3-W-353.2 I SEL Analytes: NO3NO2N TWN-30_02162022 2/16/2022 0808h 2/18/2022 1213h NO2/NO3-W-353.2 I SEL Analytes: NO3NO2N TWN-30_02162022 2/16/2022 0818h 2/18/2022 1213h NO2/NO3-W-353.2 I SEL Analytes: NO3NO2N TWN-30_02162022 2/16/2022 0827h 2/18/2022 1213h NO2/NO3-W-353.2 I SEL Anal	Chemitech-Ford Laboratory CHE 190 Contact: David Gayer QC Level: III PARush; Email Group / QC3 These are Energy Fuels Quarterly Nitrates.; Client Sample ID Collected Date Received Date Test Code Matrix TWN-18_02152022 2/15/2022 0825h 2/18/2022 1213h NO2/NO3-W-353.2 I SEL Anabytes: NO3NO2N TWN-18_02152022 2/15/2022 0957h 2/18/2022 1213h NO2/NO3-W-353.2 I SEL Anabytes: NO3NO2N TWN-04_02152022 2/15/2022 1200h 2/18/2022 1213h NO2/NO3-W-353.2 I SEL Anabytes: NO3NO2N TWN-01_02152022 2/15/2022 1200h 2/18/2022 1213h NO2/NO3-W-353.2 I SEL Anabytes: NO3NO2N TWN-01_02152022 2/15/2022 1213h NO2/NO3-W-353.2 I SEL Anabytes: NO3NO2N TWN-02_02152022 2/15/2022 1213h NO2/NO3-W-353.2 I SEL Anabytes: NO3NO2N TWN-06_02152022 2/16/2022 0808h 2/18/2022 1213h NO2/NO3-W-353.2 I SEL Anabytes: NO3NO2N TWN-06_02152022 2/16/2022 0808h <th< td=""><td>Work Order: 22 BDER Summary Work Order: 22 Chemtech-Ford Laboratory Due Date: 3/4/2 Contact: David Gayer QC Level: III Work Order: 22 22B1363 Contact: David Gayer QC Level: III Wo Type: Sta PA Rush; Email Group / QC3 These are Energy Fuels Quarterly Nitrates.; Contact: David Gayer QC Level: III Wo Type: Sta PA Rush; Email Group / QC3 These are Energy Fuels Quarterly Nitrates.; Contact: David Gayer QC Level: III Wo Type: Sta TWN-188_02152022 2/15/2022 0825h 2/18/2022 1213h NO2/NO3-W-353.2 Aqueous © TWN-18_02152022 2/15/2022 1220h 2/18/2022 1213h NO2/NO3-W-353.2 Aqueous © TWN-01_02152022 2/15/2022 1223h NO2/NO3-W-353.2 Aqueous © TWN-02_02152022 2/15/2022 1213h NO2/NO3-W-353.2</td><td>BDER Summary Work Order: 2002208 Chemtech-Ford Laboratory Chatte: David Gayer Due Date: 3/4/2022 22B1363 QC Level: III WO Type: Standard PA Rush; Email Group / QC3 These are Energy Fuels Quarterly Nitrates.; III WO Type: Standard Client Sample ID Collected Date Received Date Test Code Matrix Sel Storage TWN-18R_02152022 2/15/2022 0825h 2/18/2022 1213h NO2NO3-W-353.2 I SEL Analytes: NO3NO2N Aqueous If -no2no5 TWN-04_02152022 2/15/2022 120h 2/18/2022 1213h NO2NO3-W-353.2 I SEL Analytes: NO3NO2N Aqueous If -no2no5 TWN-04_02152022 2/15/2022 123h 2/18/2022 1213h NO2NO3-W-353.2 I SEL Analytes: NO3NO2N Aqueous If -no2no5 TWN-04_02152022 2/15/2022 123h 2/18/2022 1213h NO2NO3-W-353.2 I SEL Analytes: NO3NO2N Aqueous If -no2no5 TWN-04_02152022 2/15/2022 1095h 2/18/2022 1213h NO2NO3-W-353.2 I SEL Analytes: NO3NO2N If -no2no5 If -no2no5 TWN-04_02152022 2/15/2022 1095h 2/18/2022 12</td></th<>	Work Order: 22 BDER Summary Work Order: 22 Chemtech-Ford Laboratory Due Date: 3/4/2 Contact: David Gayer QC Level: III Work Order: 22 22B1363 Contact: David Gayer QC Level: III Wo Type: Sta PA Rush; Email Group / QC3 These are Energy Fuels Quarterly Nitrates.; Contact: David Gayer QC Level: III Wo Type: Sta PA Rush; Email Group / QC3 These are Energy Fuels Quarterly Nitrates.; Contact: David Gayer QC Level: III Wo Type: Sta TWN-188_02152022 2/15/2022 0825h 2/18/2022 1213h NO2/NO3-W-353.2 Aqueous © TWN-18_02152022 2/15/2022 1220h 2/18/2022 1213h NO2/NO3-W-353.2 Aqueous © TWN-01_02152022 2/15/2022 1223h NO2/NO3-W-353.2 Aqueous © TWN-02_02152022 2/15/2022 1213h NO2/NO3-W-353.2	BDER Summary Work Order: 2002208 Chemtech-Ford Laboratory Chatte: David Gayer Due Date: 3/4/2022 22B1363 QC Level: III WO Type: Standard PA Rush; Email Group / QC3 These are Energy Fuels Quarterly Nitrates.; III WO Type: Standard Client Sample ID Collected Date Received Date Test Code Matrix Sel Storage TWN-18R_02152022 2/15/2022 0825h 2/18/2022 1213h NO2NO3-W-353.2 I SEL Analytes: NO3NO2N Aqueous If -no2no5 TWN-04_02152022 2/15/2022 120h 2/18/2022 1213h NO2NO3-W-353.2 I SEL Analytes: NO3NO2N Aqueous If -no2no5 TWN-04_02152022 2/15/2022 123h 2/18/2022 1213h NO2NO3-W-353.2 I SEL Analytes: NO3NO2N Aqueous If -no2no5 TWN-04_02152022 2/15/2022 123h 2/18/2022 1213h NO2NO3-W-353.2 I SEL Analytes: NO3NO2N Aqueous If -no2no5 TWN-04_02152022 2/15/2022 1095h 2/18/2022 1213h NO2NO3-W-353.2 I SEL Analytes: NO3NO2N If -no2no5 If -no2no5 TWN-04_02152022 2/15/2022 1095h 2/18/2022 12

WORK O	RDER Summary					Work Order: 220	2208	Page 2 of 2
Client:	Chemtech-Ford Laboratory					Due Date: 3/4/20	022	
Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel S	Storage	
2202208-013A	PIEZ-01_02162022	2/16/2022 0900h	2/18/2022 1213h	NO2/NO3-W-353.2 I SEL Analytes: NO3NO2N	Aqueous	~	df - no2/no3	1
2202208-014A	PIEZ-03A_02162022	2/16/2022 0915h	2/18/2022 1213h	NO2/NO3-W-353.2 1 SEL Analytes: NO3NO2N	Aqueous	~	df - no2/no3	1



SUBCONTRACT ORDER

Chemtech-Ford Laboratories

Work Order Number 22B1363

SENDING LABORATORY:

Chemtech-Ford Laboratories 9632 South 500 West Sandy, UT 84070 Phone: 801.262.7299 Fax: 866.792.0093

Work Order Comments:

RECEIVING LABORATORY:

American West Analytical Labs 3440 South 700 West Salt Lake City, UT 84119 Phone: (801) 263-8686 Fax: (801) 263-8687

QC 3

3302208

1

Laboratory ID: 22B1363-01		Matrix: Water
Requested Test	Suggested Analytical Method *	Sampled: 02/15/2022 08:25
Nitrate + Nitrite, Total, as N	EPA 353.2	
Laboratory ID: 22B1363-02		Matrix: Water
Requested Test	Suggested Analytical Method *	Sampled: 02/15/2022 09:57
Nitrate + Nitrite, Total, as N	EPA 353.2	
Laboratory ID: 22B1363-03	a na anala na anala ana ana ana ana ana	Matrix: Water
Requested Test	Suggested Analytical Method *	Sampled: 02/15/2022 12:00
Nitrate + Nitrite, Total, as N	EPA 353.2	
Laboratory ID: 22B1363-04		Matrix: Water
Requested Test	Suggested Analytical Method *	Sampled: 02/15/2022 12:34
Nitrate + Nitrite, Total, as N	EPA 353.2	
Laboratory ID: 22B1363-05		Matrix: Water
Requested Test	Suggested Analytical Method *	Sampled: 02/15/2022 13:15
Nitrate + Nitrite, Total, as N	EPA 353.2	
Laboratory ID: 22B1363-06		Matrix: Water
Requested Test	Suggested Analytical Method *	Sampled: 02/15/2022 09:57
Nitrate + Nitrite, Total, as N	EPA 353.2	
Laboratory ID: 22B1363-07		Matrix: Water
Requested Test	Suggested Analytical Method *	Sampled: 02/15/2022 14:00
Nitrate + Nitrite, Total, as N	EPA 353.2	
Laboratory ID: 22B1363-08		Matrix: Water
Requested Test	Suggested Analytical Method *	Sampled: 02/16/2022 08:08
Nitrate + Nitrite, Total, as N	EPA 353.2	

Date 18/22 2 Released By Date Date Received By

* NOTE - If you are not certified for our suggested analytical method, please use your certified method.

Page 1 of 2 Page 44 of 48



Laboratory ID: 22B1363-09		Matrix: Water
Requested Test	Suggested Analytical Method *	Sampled: 02/16/2022 08:18
Nitrate + Nitrite, Total, as N	EPA 353.2	
Laboratory ID: 22B1363-10		Matrix: Water
Requested Test	Suggested Analytical Method *	Sampled: 02/16/2022 08:27
Nitrate + Nitrite, Total, as N	EPA 353.2	
Laboratory ID: 22B1363-11		Matrix: Water
Requested Test	Suggested Analytical Method *	Sampled: 02/16/2022 08:35
Nitrate + Nitrite, Total, as N	EPA 353.2	
Laboratory ID: 22B1363-12		Matrix: Water
Requested Test	Suggested Analytical Method *	Sampled: 02/16/2022 08:46
Nitrate + Nitrite, Total, as N	EPA 353.2	
Laboratory ID: 22B1363-13		Matrix: Water
Requested Test	Suggested Analytical Method *	Sampled: 02/16/2022 09:00
Nitrate + Nitrite, Total, as N	EPA 353.2	
Laboratory ID: 22B1363-14		Matrix: Water
Requested Test	Suggested Analytical Method *	Sampled: 02/16/2022 09:15
Nitrate + Nitrite, Total, as N	EPA 353.2	

3.5°C

allo 2 2% 6 Received By Date 2 18/22 1923 Date Received By Released By Date

* NOTE - If you are not certified for our suggested analytical method, please use your certified method.

Page 2 of 2 Page 45 of 48

A	American V Analytical Labo 463 W. 3600 S. Sett Lake C Phone # (601) 263-8666 Toll Fr Fax # (601) 263-8687 Email www.awal-Jabs	Dratories http://ut 84115 ab # (888) 263-6686 awal@awal-labs.com		A1	analy	QCL	limits i	(PQL) un		accredit	d melhods estad othe Tum #	and sil da	is Chain of C	orted ush	ng AWAL's standard analyle lists and reporting rd/or attached documentation. Unless offer armsperiorits have been made, signed reports will be smalled by 6:00 pm on the day they are due.	AWAL Lab Sample Set # Page 1 of 2 Due Date:
	www.dwai-haus	com			-	_	-			-						
Client Energy	Fuels Resources, Inc.						13								X Include EDD:	Laboratory Use Only
Address: 6425 8.	Hwy. 191														LOCUS UPLOAD EXCEL	Samples Wore:
Blandin	g, UT 84511														Field Filtered For:	1 Shipped or hand delivered
Contact Tanner	Holliday															2 Ambient or Chilled
Phone # (435) 67	78-2221 Cell	k						1	1						For Compliance With:	3 Témpenature
Emait tholidaya	energyinels.com; kweinel@energy	fuels.com													C RCRA	4 Received Broken/Leaking
Project Name: 1st Qua	rter Nitrate 2022														D SOWA D ELAP/AZLA	(improperty Sealed) Y N
Project #						R	(0)							×	NLLAP Non-Compliance	5 Property Preserved
PO #				ļ,		353	300								Other:	Y N Checked at bench
Sampler Name: Tanner	Holliday			Contalners	Alatrix	03	(4500 or 300.0)								Kana Umada	Y N 8 Received Within
	mple ID:	Date Sampled	Time Sampled	# of Con	Sample Matrix	ко2/ноз (353.2)	CI (45)								Known Hazards & Sample Comments	Hoking Times Y N
TWN-18R_02152022		2/15/2022	825	-	w	x	x			+	\vdash		++	+	Gampie Commente	
TWN-18_02152022		2/15/2022	957	2	w	x	x			1		-		+		COC Tape Was
TWN-04_02152022		2/15/2022	1200	2	W	x	x	+	-	+	\vdash					1 Present on Outer Package
WN-01_02152022		2/15/2022	1234	2	W	x	x		-		\vdash		++	-		Y N NA 2 Unbrokan on Outer Package
TWN-02_02152022		2/15/2022	1315	2	w	x	x			1		-				Y N NA
TWN-65_02152022	in the second	2/15/2022	957	2	w	x	x	+		1	+					8 Present on Sample
TWR-60_02152022	1.1	2/15/2022	1400	2	w	x	x		-	1		+				Y N NA
TWR-20_02162022	and the second s	2/16/2022	808	2	W	x	x			-	\vdash	-		-		4 Unbroken on Semple Y N NA
TWN-21_02162022		2/16/2022	818	2	W	x	x			1			++		1	Discrepencies Between Semple
TWN-07_02162022		2/16/2022	827	2	w	x	x			1		-		1		Labels and COC Record? Y
TWN-03_02162022		2/16/2022	835	2	W	x	x		-	1			++			
PIEZ-02_02162022		2/16/2022	846	2	w	x	x						$\uparrow \uparrow$			
PIEZ-01_02162022		2/16/2022	900	2	w	x	x									
Relinquished by: -1	11.1.	Date:	Received by:	-			-	des sold			Date:				Special Instructions:	
signature - IAANOK MO	una	Time:	Print Name:		211						Time:					
Relinguished by:		Dele:	Received by:					_			Date;	-	-			
Signature		Time:	Signatura Print Name:			-					Time;				1	
Print Name: -	alinguinhed by: Received by:					-	-				Date:					
Signature		Time:	Print Name:	-	-	-					Time;					
Relinquiehed by: Date: Received by:					-						Date:		-		-	
nature Stoneture Stoneture Print Name:				-	-		-				Time:					

A	American Analytical La 463 W. 3600 S. Sait L Phone # (801) 263-8686 T Fax # (801) 263-8687 E www.awal-J	aboratories ake City, UT 84115 oll Free # (888) 263-8686 imail awal@awal-labs.com		~	l analy	QC	limits (Level	(PQL) un		accred	ited meth posted of	ode enc therwise Arcor	i elli deta	Chain of C	ieu behox	ng AWAL's standard analyte lists and reporting rulor attached documentation. Unless other arrangements have been made, signed reports will be emailed by 5:00 pm on the day thay are due.	AWAL Lab Sample Set # Page 2 of 2 Due Date:
		aus.com				-	3	-	┹	1		Stan			-		
Client	Energy Fuels Resources, Inc.															X Include EDD: LOCUS UPLOAD	Laboratory Use Only
Address:	6425 S. Hwy. 191															EXCEL Field Filtered For:	Samples Were:
	Blanding, UT 84511															Field Filtered For:	1 Shipped or hand delivered
66.1000	Tanner Holliday															For Compliance With	2 Ambient or Chilled
	the second se	Ceil #:							1	1						For Compliance With:	S Temperature*C
	tholliday@energyinels.com; kweinel@m	cryfaels.com														CWA	4 Received Broken/Leeking
Project Name:	1st Quarter Nitrate 2022															D ELAP/A2LA	(Improperly Saaled) Y N
Project #						3.2)	10.01									NLLAP Non-Compliance Other:	5 Property Preserved
PO#				2	×	(35)	or 300.0)										Y N Checked at bench
Sampler Name:	Tanner Holliday			Containers	Matri	RO3	(4500									Known Hazards	Y N 8 Received Within
		Date	Time	fe of Co	Sample Matrix	HO2/NO3 (353.2)	CIF					1				&	Holding Times Y N
EZ-03A_021620	Sample ID:	Sampled 2/16/2022	Sampled 915	1	Ŵ	A X	x			+	-	-		-+-	+-	Sample Comments	-
																	COC Tape Was; 1 Present on Ouler Package Y N NA
					Ц				_	-		-		_	-		2 Unbroken on Outer Packaga Y N NA
				-	Н	-	-		_	-	-	-	\square		+		3 Present on Sample
				-	Н		-	\vdash	-	+	-	-		_			Y N NA
				\vdash	Η				+	-					-		4 Unbroken on Sample Y N NA
																	Discrepancies Between Sample
																	Labels and COC Record? Y N
Inquished by: Jau	ner Hollidary	Date: 2/16/2022	Received by: Signature								Date:					Special Instructions:	
nt Name:	Temner Holliday	Time:	Print Name:								Time:						
Inquished by: nature		Date:	Received by: Signature								Date:						
nt. Name:		Time:	Print Name:					-			Time:						
Inquished by: nature	ulshed by: Received by;									Date:							
Time:										Time:							
nt Name: Print Name: Print Name: Induction P											Date:				1		

Receipt Condition and Preservation Check Sheet

 Lab Set ID:
 220220 §

 pH Lot #:
 C682/

Samples Were:	Received Within Hold:	Received Intact:
□ Shipped By:	₽Yes □ No □ N/A	🖓 Yes 🗆 No 🗆 N/A
A Hand Delivered	Notes:	Notes:
Ambient 🕅 Chilled		
Temperature 3, 5 [−] °C		
COC Tape Was:	Properly Preserved:	Sample Labels and COC Record Match?
Present on Outer Package: 🗆 Yes 🗖 No 🗖 N/A	🗹 Yes 🗆 No 🗖 Checked at Bench	₽Yes ₽ No
Unbroken on Outer Package: 🗆 Yes 🗆 No 🙀 N/A	Notes:	Notes:
Present on Sample 🛛 Yes 🗖 No 🙀 N/A		
Unbroken on Sample 🛛 Yes 🗆 No 🙀 N/A		
	Sample Set Extension and pH	

9 Analysis Preservative 3 10 11 12 2 4 8 13 14 5 7 6 $pH < 2 H_2SO_4$ Ammonia $pH < 2 H_2SO_4$ COD Cyanide pH>10 NaOH Metals $pH < 2 HNO_3$ NO2/NO3 $pH < 2 H_2SO_4$ 16 Yes Yes Yes Yes Yas Yes Yos VES VES Ves Yes Yes Ves 0&G pH < 2 HCL $pH < 2 H_2SO_4$ Phenols pH>9 NaOH, ZnAC Sulfide $pH < 2 H_2SO_4$ TKN T PO₄ $pH < 2 H_2SO_4$ Cr VI+ $pH > 9 (NH_4)_2 SO_4$

* The sample required additional preservative upon receipt.

+ The sample was received unpreserved.

- ▲ The sample was received unpreserved and therefore preserved upon receipt.
- # The sample pH was unadjustable to a pH < 2 due to the sample matrix.
- The sample pH was unadjustable to a pH > _____ due to the sample matrix interference.



4/8/2022

Work Order: 22C1015 Project: 1st Quarter Chlorof<u>orm 2022</u>

Energy Fuels Resources, Inc. Attn: Tanner Holliday 6425 South Highway 191 Blanding, UT 84511

Client Service Contact: 801.262.7299

The analyses presented on this report were performed in accordance with the National Environmental Laboratory Accreditation Program (NELAP) unless noted in the comments, flags, or case narrative. If the report is to be used for regulatory compliance, it should be presented in its entirety, and not be altered.



Approved By:

IE

Patrick Noteboom, Project Manager

9632 South 500 Wes	9632	2 South	1 500	West
--------------------	------	---------	-------	------

Sandy, Utah 84070

801,262.7299 Main

866,792,0093 Fax

www.ChemtechFord.com

Serving the Intermountain West since 1953



Energy Fuels Resources, Inc.

Project: 1st Quarter Chloroform 2022 Project Manager: Tanner Holliday

Laboratory ID	Sample Name
22C1015-01	TW4-25_03092022
22C1015-02	TW4-24_03092022
22C1015-03	TW4-40_03092022
22C1015-04	TW4-21_03092022
22C1015-05	TW4-39_03092022
22C1015-06	MW-26_03092022
22C1015-07	TW4-02_03092022
22C1015-08	TW4-04_03092022
22C1015-09	TW4-01_03092022
22C1015-10	TW4-41_03092022
22C1015-11	MW-04_03092022
22C1015-12	TW4-11_03092022
22C1015-13	TW4-22_03092022
22C1015-14	TW4-19_03092022
22C1015-15	TW4-37_03092022
22C1015-16	TW4-60_03092022
22C1015-17	Trip Blank

Work Order Report Narrative

Sample Preparation

All samples were prepared within method specified holding times. No preparation issues were noted.

Method Blanks

All blank values were within method acceptance criteria. No blank values exceeded the minimum reporting limit for any analysis in this work order.

Laboratory Control Samples

All laboratory control samples were within method acceptance criteria.

Method Spikes

All method spike recoveries were within method acceptance criteria, except as noted by qualifying flags.

Method Spike Duplicates

All method spike duplicates were within method acceptance criteria, except as noted by qualifying flags.

Corrective Actions

There are no corrective actions associated with this work order.

Project Name: 1st Quarter Chloroform 2022 www.ChemtechFord.com CtF WO#: 22C1015

Λ	American W Analytical Labor 463 W. 3600 S. Sait Lake City Phone # (801) 263-8686 Toll Free	All a	analysis			Y ing AWAL's standard enalyte lists and reporting Ind/or altached documentation.	22 C / 0 / 5 AWAL Lab Sample Set # Page 1 of 2								
	Fax # (801) 263-8687 Email an www.awal-labs.c	-			Q	C Leve	el:			Tun	n Aroui Standa	n d Time: ard		Unless other arrangements have been made, signed reports will be emailed by 5:00 pm on the day they are due.	Due Date:
Address: 6425 S. H Blanding Contact: Tanner H Phone #: (435) 678 Email: tholliday@et Project Name: 1st Quart Project #: PO #: Sampler Name: Tanner H	nels Resources, Inc. Iwy. 191 , UT 84511 olliday -2221 Cell #: nergyfnels.com; kweinel@energyfn icer Chloroform 2022	els.com	Time Sampled	# of Containers	Sample Matrix 1100 / 1100 2 (353 2)		Ca (8260							X Include EDD: LOCU'S UPLOAD EXCEL Field Filtered For: For Compliance With: NELAP RCRA CWA SDWA ELAP / A2LA NLLAP Non-Compliance Other: Known Hazards & Sample Comments	Laboratory Use Only Samples Were: 1 Shipped or hand delivered 2 Ambient or Chilled 3 Temperature*C 4 Received Broken/Leeking (Improperty Sealed) Y N 5 Property Preserved Y N 5 Property Preserved Y N 6 Received Within Holding Times Y N
TW4-25 03092022	pie iD.	3/9/2022	855	** 1 5 V	-	-	-	┝─┼	-	-				Sample Comments	
TW4-24 03092022		3/9/2022	915	5 1	+	-	-	++	-				-		
TW4-40_03092022		3/9/2022 3/9/2022 3/9/2022	1048	5 1	+	-	+	┢┼┥	-	+	\vdash				COC Tape Was: 1 Present on Outer Package
TW4-21_03092022			845 5	5 1	+	-	+	\vdash	-	+-	+				Y N NA
TW4-39_03092022				5 1	-	-	-	⊢	-	-			-		2 Unbroken on Outer Package Y N NA
MW-26_03092022		3/9/2022	948	5 1	-	-	+	┢┼┥	-	-	+				3 Present on Sample
TW4-02_03092022		3/9/2022	1006	5 1	-	_	-	+		+	+				Y N NA
TW4-04_03092022		3/9/2022	1038	5 1	+	-	+	+	-	+	+		-		4 Unbroken on Sample Y N NA
TW4-01_03092022		3/9/2022	1024	5 1	-	-	-	+	-	-					
TW4-41_03092022		3/9/2022	1032	5 1	-	-	-	+		-					Discrepancies Between Sample Labels and COC Record?
MW-04_03092022		3/9/2022	1015	5 1	+		-	+							Y N
TW4-11_03092022		3/9/2022	957	5 1	-	-	-	+							-
TW4-22_03092022		3/9/2022	925	5 1	v 🤉	< x	x	+	-						
Relinquished by:	11/10	Date:	Received by:				<u> </u>	<u> </u>		Date:				Special Instructions:	
Inquished by:							/			Time: Date:-		,		Special Instructions: See the Analytical Scope of Work for Reporting Limit	
Signature	me: Print Nama: 4		Received by:	ly		-9			1	Time:	111	122		analyte list.	
Print Name: Relinguished by:			5/0	44	He	100	an	1	Date:	14	100	_			
gnature Signature					-		20			_					
Int Name: Print Name: Print Name:										Time: Date:					
Relinquished by: Signature	gnature Signature Time:														
Print Namo:										Tame:					

A		American Analytical Lab	oratories								С	HAI	NO	FCL	ISTO	DDY	(22 01015
		463 W. 3600 S. Salt Lake			AI	l analy											ng AWAL's standard analyte lists and reporting ad/or attached documentation.	AWAL Lab Sample Set #
		Phone # (801) 263-8686 Toll Fax # (801) 263-8687 Ema			-		QCL		_			Constant Constant of St	ing she soo				1	Page 2 of 2 Due Date:
							_		6	- 11		Tu		und Tim	ie:		Unless other arrangements have been made signed reports will be emailed by 5:00 pm or	
		www.awal-lab	is.com			_		3	_			_	Stan	dard	_	_	the day they are due.	
Client:	Energy F	iels Resources, Inc.															X Include EDD:	Laboratory Use Only
Address:	6425 S. H	wy. 191															LOCUS UPLOAD EXCEL	Samples Were:
	Blanding,	UT 84511															Field Filtered For:	1 Shipped or hand delivered
Contact:	Tanner H	olliday																2 Ambient or Chilled
Phone #:	(435) 678	- 2221 Cel	11 #:													For Compliance With:	3 Temperature (1, > *c	
Email:	thollidayaen	ergyfuels.com; kweinelgenerg	yfuels.com															4 Received Broken/Leaking
Project Name:	1st Quart	er Chloroform 2022															CI SOWA	(Improperty Sealed)
Project #:					11		()	6									NLLAP Non-Compliance	5 Property Preserved
PO #:							353.	10.005	Ū				-				Other:	Y N Checked at banch
Sampler Name:	Tanner H	olliday			Containers	atrix	03 (0 or	(8260C)									Y N
[Date	Time	Col	ple N	NO2/NO3 (353.2)	(4500 or :	C. (8								Known Hazards &	6 Received Within Holding Times
	Sample ID:		Sampled	Sampled	jo #	Sample	0 M	ប	Vocs				1				Sample Comments	Y N
4 TW4-19_0309202	W4-19_03092022		3/9/2022	1200	5	w	x	х	x			_						
5 TW4-37_0309202	22		3/9/2022	933	5	W	х	х	x									COC Tape Was:
TW4-60_0309202	22		3/9/2022	1230	5	w	х	х	x									1 Present on Outer Package Y N NA
TRIP BLANK			3/9/2022	845	3	w			x									2 Unbroken on Outer Package
8																		Y N NA
9																		3 Present on Semple Y N NA
D																		4 Unbroken on Sample
1																		Y N NA
2																		Discrepancies Between Sample
3																		Labels and COC Record? Y N
4																		
5																		
6																		
Relinquished by:	anner +	Alledon	Date: 3/10/2022	Received by: Signature								Date					Special Instructions:	
Print Name:	Time:									_	Time							
Relinquished by: Signature	Date: Received by: Signature				ili	ilu	6. J	a h		_	/	Date	3/1	1/21				ork for Reporting Limits and VC
Print Name:					-100			ta	T	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	1	Time	_	, 41.			analyte list.	
Relinquished by: Signature	Date: Received by: Signature Time: Print Name: Date: Received by: Signature							1		-2		Date						
Print Name:						-						Time	:					
Relinquished by: Signature												Date						
and the second s			Time:									Time	:					
L UNE (ABILIO)	Print Name:								_			_						

Work O	rder #	2201	67	5	-			CHEMTECH FORD LABORATORIES Sample Receipt	
Delivery M	ethod:								CHEMTECH-FOR
K UPS	D USPS								LABORATORIES
1 FedEx 1 Walk-in - 187 Y	Chemtech Co Customer Co Check Co Customer Co	ourier	plas	/Third Party	ing/Laboratory	Client		Receiving Temperature <u>C · 7</u> °C	Sample Condition (check If yes)
Sample #	Container	Chemtech Lot # or Preservative	vumber of Subsamples	reserved by Client/Third Party	reserved in Receiving/Laboratory	litered In Field by Client	Misc Volume (az/mL)	Comments	Custody Seals
1-16	Ap	diet				Ĩ			Correct Containers(s)
	N	cliet							Sufficent Sample Volume
	w (3)	cliet							Headspace Present (VOC)
									Temperature Blank
17	w (3)	clint							Received within Holding Time
			$\left \right $						Plastic Containers
									A - Plastic Unpreserved B - Miscellaneous Plastic C - Cyanide Qt (NaOH) E - Coliform/Ecoli/HPC F - Sulfide Qt (Zn Acetate) L - Mercury 1631 M - Metals Pint (HNO3) N - Nutrient Pint (H2SO4) R - Radiological (HNO3) S - Sludge Cups/Tubs Q - Plastic Bag
									Glass Containers
									D- 625 (Na2S2O3) G- Glass Unpreserved H- HAAs (NH4CI) I- 508/515/525 (Na2SO3) K- 515 3 Herbicides O- Oil & Grease (HCI) P- Phenois (H2SO4) T- TOC/TOX (H3PO4)
									U - 531 (MCAA, Na252O3) V - 524/THMs (Ascorbic Acid) W - 8250 VOC (1-1 HCI) X - Viai Unpreserved

Page 23 of 54

	QC F	Report fo	r Work Ord	ler (WO) - 2	22C1018	5			
Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
		E	Blank - EPA	300.0					
QC Sample ID: BWC0940-BLK1	Batch:	BWC0940							
Date Prepared: 03/22/2022	Date A	nalyzed: 03	3/22/2022						
Chloride					ND			1.0	1.00
			LCS - EPA	300.0					
QC Sample ID: BWC0940-BS1	Batch:	BWC0940							
Date Prepared: 03/22/2022	Date An	halyzed: 03	3/22/2022						
Chloride	98.5		90 - 110		49.2		50.0	1.0	1.00
		Matr	ix Spike - E	PA 300.0					
QC Sample ID: BWC0940-MS1	Batch:	BWC0940	QC S	ource Sampl	e: 22C101	15-01			
Date Prepared: 03/22/2022	Date An	nalyzed: 03	3/22/2022						
Chloride	99.8		80 - 120		81.4	70.3	11.1	1.1	1.00
QC Sample ID: BWC0940-MS2	Batch:	BWC0940	QC S	ource Sampl	e: XXXX	XXX-XX			
Date Prepared: 03/22/2022	Date An	nalyzed: 03	3/22/2022						
Chloride	99.8		80 - 120		19.5	8.5	11.1	1.1	1.00
		Matrix	Spike Dup	- EPA 300	.0				
QC Sample ID: BWC0940-MSD1	Batch:	BWC0940	QC S	ource Sampl	e: 22C10	15-01	•		
Date Prepared: 03/22/2022	Date A	nalyzed: 03	3/22/2022						
Chloride	101	0.205	80 - 120	20	81.5	70.3	11.1	1.1	1.00
QC Sample ID: BWC0940-MSD2	Batch:	BWC0940	QC S	ource Sampl	e: XXXX	XXX-XX			
Date Prepared: 03/22/2022	Date A	nalyzed: 03	3/22/2022						
Chloride	96.6	1.86	80 - 120	20	19.2	8.5	11.1	1.1	1.00

	QC Repo	ort for Work Order (W	D) - 22C1015				
Analyte	% Rec R	PD Limits RPD I	Max Result	Source Conc	Spk Value	MRL	DF
		Blank - EPA 353.2					
QC Sample ID: BWC0625-BLK1	Batch: BWC	20625					
Date Prepared: 03/15/2022	Date Analyz	ed: 03/16/2022					
Nitrate + Nitrite, Total, as N			ND			0.1	1.00
QC Sample ID: BWC0638-BLK1	Batch: BWC	20638					
Date Prepared: 03/15/2022	Date Analyz	red: 03/16/2022					
Nitrate + Nitrite, Total, as N			ND			0.1	1.00
QC Sample ID: BWC1227-BLK1	Batch: BWC	01227					
Date Prepared: 03/29/2022	Date Analyz	red: 03/30/2022					
Nitrate + Nitrite, Total, as N			ND			0.1	1.00
		LCS - EPA 353.2					
QC Sample ID: BWC0625-BS1	Batch: BWC	0625					
Date Prepared: 03/15/2022		red: 03/16/2022					
Nitrate + Nitrite, Total, as N	110	80 - 120	2.2		2.00	0.1	1.00
QC Sample ID: BWC0638-BS1	Batch: BWC						
Date Prepared: 03/15/2022		zed: 03/16/2022					
Nitrate + Nitrite, Total, as N	112	80 - 120	2.2		2.00	0.1	1.00
	Batch: BWC		2		2.00	0.1	1.00
QC Sample ID: BWC1227-BS1 Date Prepared: 03/29/2022		zed: 03/30/2022					
Nitrate + Nitrite, Total, as N	106	80 - 120	2.1		2.00	0.1	1.00
Niliale + Nilille, Total, as N		Matrix Spike - EPA 35			2.00	0.1	1.00
QC Sample ID: BWC0625-MS1	Batch: BWC		ample: XXXXX	XX-XX			
Date Prepared: 03/15/2022		red: 03/16/2022	<u>.</u>		4.00		1.00
Nitrate + Nitrite, Total, as N	106	80 - 120	3.5	2.4	1.00	0.1	1.00
QC Sample ID: BWC0625-MS2	Batch: BWC		ample: 22C1015	-01			
Date Prepared: 03/15/2022		red: 03/16/2022					
Nitrate + Nitrite, Total, as N	170	80 - 120	1.7	ND	1.00	0.1	1.00
QM-RPD - The recovery was outs	ide acceptance iim	its for the MS and/or MSD		en me MS ar			
acceptable and indicates the reco							
acceptable and indicates the record recovery of the LCS and the RPD.	6	rix interference. The batch	was accepted b	ased on the			
acceptable and indicates the recorrecovery of the LCS and the RPD. QC Sample ID: BWC0638-MS1	Batch: BWC	rix interference. The batch C0638 QC Source S		ased on the			
acceptable and indicates the recorrecovery of the LCS and the RPD. QC Sample ID: BWC0638-MS1 Date Prepared: 03/15/2022	Batch: BWC Date Analyz	rix interference. The batch C0638 QC Source S red: 03/16/2022	was accepted b ample: 22C1015	ased on the a	acceptable	0.1	1.00
acceptable and indicates the recorrecovery of the LCS and the RPD. QC Sample ID: BWC0638-MS1 Date Prepared: 03/15/2022 Nitrate + Nitrite, Total, as N	Batch: BWC Date Analyz 85.8	rix interference. The batch C0638 QC Source S red: 03/16/2022 80 - 120	was accepted b ample: 22C1015	ased on the a -06 0.3		0.1	1.00
acceptable and indicates the recorrecovery of the LCS and the RPD. QC Sample ID: BWC0638-MS1 Date Prepared: 03/15/2022 Nitrate + Nitrite, Total, as N QC Sample ID: BWC0638-MS2	Batch: BWC Date Analyz 85.8 Batch: BWC	rix interference. The batch C0638 QC Source S zed: 03/16/2022 80 - 120 C0638 QC Source S	was accepted b ample: 22C1015	ased on the a -06 0.3	acceptable	0.1	1.00
acceptable and indicates the recorrecovery of the LCS and the RPD. QC Sample ID: BWC0638-MS1 Date Prepared: 03/15/2022 Nitrate + Nitrite, Total, as N QC Sample ID: BWC0638-MS2 Date Prepared: 03/15/2022	Batch: BWC Date Analyz 85.8 Batch: BWC Date Analyz	rix interference. The batch C0638 QC Source S zed: 03/16/2022 80 - 120 C0638 QC Source S zed: 03/16/2022	was accepted b ample: 22C1015 1.1 ample: XXXXX	-06 0.3 XX-XX	acceptable		
acceptable and indicates the recorrecovery of the LCS and the RPD. QC Sample ID: BWC0638-MS1 Date Prepared: 03/15/2022 Nitrate + Nitrite, Total, as N QC Sample ID: BWC0638-MS2 Date Prepared: 03/15/2022 Nitrate + Nitrite, Total, as N	Batch: BWC Date Analyz 85.8 Batch: BWC Date Analyz 108	rix interference. The batch C0638 QC Source S zed: 03/16/2022 80 - 120 C0638 QC Source S zed: 03/16/2022 80 - 120	was accepted b ample: 22C1015 1.1 ample: XXXXX 6.8	-06 0.3 XX-XX 5.7	acceptable	0.1	
acceptable and indicates the recorrecovery of the LCS and the RPD. QC Sample ID: BWC0638-MS1 Date Prepared: 03/15/2022 Nitrate + Nitrite, Total, as N QC Sample ID: BWC0638-MS2 Date Prepared: 03/15/2022 Nitrate + Nitrite, Total, as N QC Sample ID: BWC1227-MS1	Batch: BWC Date Analyz 85.8 Batch: BWC Date Analyz 108 Batch: BWC	rix interference. The batch C0638 QC Source S 20638 CC Source S 20638 QC Source S	was accepted b ample: 22C1015 1.1 ample: XXXXX	-06 0.3 XX-XX 5.7	acceptable		
acceptable and indicates the recorrecovery of the LCS and the RPD. QC Sample ID: BWC0638-MS1 Date Prepared: 03/15/2022 Nitrate + Nitrite, Total, as N QC Sample ID: BWC0638-MS2 Date Prepared: 03/15/2022 Nitrate + Nitrite, Total, as N QC Sample ID: BWC1227-MS1 Date Prepared: 03/29/2022	Batch: BWC Date Analyz 85.8 Batch: BWC Date Analyz 108 Batch: BWC Date Analyz	rix interference. The batch C0638 QC Source S red: 03/16/2022 80 - 120 C0638 QC Source S red: 03/16/2022 80 - 120 C1227 QC Source S red: 03/30/2022	was accepted b ample: 22C1015 1.1 ample: XXXXX 6.8 ample: XXXXX	-06 0.3 XX-XX 5.7 XX-XX	1.00 1.00	0.5	5.00
acceptable and indicates the recorrecovery of the LCS and the RPD. QC Sample ID: BWC0638-MS1 Date Prepared: 03/15/2022 Nitrate + Nitrite, Total, as N QC Sample ID: BWC0638-MS2 Date Prepared: 03/15/2022 Nitrate + Nitrite, Total, as N QC Sample ID: BWC1227-MS1 Date Prepared: 03/29/2022 Nitrate + Nitrite, Total, as N	Batch: BWC Date Analyz 85.8 Batch: BWC Date Analyz 108 Batch: BWC Date Analyz 111	rix interference. The batch C0638 QC Source S 20638 CC Source S 20658 CC Source S 206	was accepted b ample: 22C1015 1.1 ample: XXXXX 6.8 ample: XXXXX 6.2	ased on the a -06 0.3 XX-XX 5.7 XX-XX 5.1	acceptable		
acceptable and indicates the recorrecovery of the LCS and the RPD. QC Sample ID: BWC0638-MS1 Date Prepared: 03/15/2022 Nitrate + Nitrite, Total, as N QC Sample ID: BWC0638-MS2 Date Prepared: 03/15/2022 Nitrate + Nitrite, Total, as N QC Sample ID: BWC1227-MS1 Date Prepared: 03/29/2022 Nitrate + Nitrite, Total, as N QC Sample ID: BWC1227-MS2	Batch: BWC Date Analyz 85.8 Batch: BWC Date Analyz 108 Batch: BWC Date Analyz 111 Batch: BWC	rix interference. The batch C0638 QC Source S red: 03/16/2022 80 - 120 C0638 QC Source S red: 03/16/2022 80 - 120 C1227 QC Source S red: 03/30/2022 80 - 120 C1227 QC Source S	was accepted b ample: 22C1015 1.1 ample: XXXXX 6.8 ample: XXXXX	ased on the a -06 0.3 XX-XX 5.7 XX-XX 5.1	1.00 1.00	0.5	5.00
acceptable and indicates the recorrecovery of the LCS and the RPD. QC Sample ID: BWC0638-MS1 Date Prepared: 03/15/2022 Nitrate + Nitrite, Total, as N QC Sample ID: BWC0638-MS2 Date Prepared: 03/15/2022 Nitrate + Nitrite, Total, as N QC Sample ID: BWC1227-MS1 Date Prepared: 03/29/2022 Nitrate + Nitrite, Total, as N QC Sample ID: BWC1227-MS2 Date Prepared: 03/29/2022	Batch: BWC Date Analyz 85.8 Batch: BWC Date Analyz 108 Batch: BWC Date Analyz 111 Batch: BWC Date Analyz	rix interference. The batch C0638 QC Source S 2ed: 03/16/2022 80 - 120 C0638 QC Source S 2ed: 03/16/2022 80 - 120 C1227 QC Source S 2ed: 03/30/2022 80 - 120 C1227 QC Source S 2ed: 03/30/2022	was accepted b ample: 22C1015 1.1 ample: XXXXX 6.8 ample: XXXXX 6.2 ample: XXXXX	ased on the a -06 0.3 XX-XX 5.7 XX-XX 5.1 XX-XX	1.00 1.00 1.00	0.5	5.00 5.00
acceptable and indicates the recorrecovery of the LCS and the RPD. QC Sample ID: BWC0638-MS1 Date Prepared: 03/15/2022 Nitrate + Nitrite, Total, as N QC Sample ID: BWC0638-MS2 Date Prepared: 03/15/2022 Nitrate + Nitrite, Total, as N QC Sample ID: BWC1227-MS1 Date Prepared: 03/29/2022	Batch: BWC Date Analyz 85.8 Batch: BWC Date Analyz 108 Batch: BWC Date Analyz 111 Batch: BWC	rix interference. The batch C0638 QC Source S red: 03/16/2022 80 - 120 C0638 QC Source S red: 03/16/2022 80 - 120 C1227 QC Source S red: 03/30/2022 80 - 120 C1227 QC Source S	was accepted b ample: 22C1015 1.1 ample: XXXXX 6.8 ample: XXXXX 6.2	ased on the a -06 0.3 XX-XX 5.7 XX-XX 5.1	1.00 1.00	0.5	5.00 5.00
acceptable and indicates the recorrecovery of the LCS and the RPD. QC Sample ID: BWC0638-MS1 Date Prepared: 03/15/2022 Nitrate + Nitrite, Total, as N QC Sample ID: BWC0638-MS2 Date Prepared: 03/15/2022 Nitrate + Nitrite, Total, as N QC Sample ID: BWC1227-MS1 Date Prepared: 03/29/2022 Nitrate + Nitrite, Total, as N QC Sample ID: BWC1227-MS2 Date Prepared: 03/29/2022	Batch: BWC Date Analyz 85.8 Batch: BWC Date Analyz 108 Batch: BWC Date Analyz 111 Batch: BWC Date Analyz	rix interference. The batch C0638 QC Source S red: 03/16/2022 80 - 120 C0638 QC Source S red: 03/16/2022 80 - 120 C1227 QC Source S red: 03/30/2022 80 - 120 C1227 QC Source S red: 03/30/2022 80 - 120	was accepted b ample: 22C1015 1.1 ample: XXXXX 6.8 ample: XXXXX 6.2 ample: XXXXX	ased on the a -06 0.3 XX-XX 5.7 XX-XX 5.1 XX-XX 3.0	1.00 1.00 1.00	0.5	5.00
acceptable and indicates the recorrecovery of the LCS and the RPD. QC Sample ID: BWC0638-MS1 Date Prepared: 03/15/2022 Nitrate + Nitrite, Total, as N QC Sample ID: BWC0638-MS2 Date Prepared: 03/15/2022 Nitrate + Nitrite, Total, as N QC Sample ID: BWC1227-MS1 Date Prepared: 03/29/2022 Nitrate + Nitrite, Total, as N QC Sample ID: BWC1227-MS2 Date Prepared: 03/29/2022 Nitrate + Nitrite, Total, as N	Batch: BWC Date Analyz 85.8 Batch: BWC Date Analyz 108 Batch: BWC Date Analyz 111 Batch: BWC Date Analyz 89.5 Batch: BWC	rix interference. The batch C0638 QC Source S red: 03/16/2022 80 - 120 C0638 QC Source S red: 03/16/2022 80 - 120 C1227 QC Source S red: 03/30/2022 80 - 120 C1227 QC Source S red: 03/30/2022 80 - 120	was accepted b ample: 22C1015 1.1 ample: XXXXX 6.8 ample: XXXXX 6.2 ample: XXXXX 3.9	ased on the a -06 0.3 XX-XX 5.7 XX-XX 5.1 XX-XX 3.0	1.00 1.00 1.00	0.5	5.00 5.00

CtF WO#: 22C1015 www.ChemtechFord.com

	QC R	eport for	Work	Orde	r (WO) - 2	22C1015				
Analyte	% Rec	RPD	Lim	its	RPD Max	Result	Source Conc	Spk Value	MRL	DF
	Ма	atrix Spik	e Dup	- EPA	A 353.2 (c	ont.)				
QC Sample ID: BWC0625-MSD1	Batch: E	3WC0625		QC Sou	urce Sample	e: XXXXX	XXX-XX			
Date Prepared: 03/15/2022	Date An	alyzed: 03/	/16/202	2						
Nitrate + Nitrite, Total, as N	112	1.56	80 -	120	20	3.5	2.4	1.00	0.1	1.00
QC Sample ID: BWC0625-MSD2	Batch: E	3WC0625		QC Sou	urce Sample	e: 22C101	5-01			
Date Prepared: 03/15/2022	Date An	alyzed: 03/	/16/202	2						
Nitrate + Nitrite, Total, as N	161	5.27	80 -	120	20	1.6	ND	1.00	0.1	1.00
QM-RPD - The recovery was outside and acceptable and indicates the recovery recovery of the LCS and the RPD.										
QC Sample ID: BWC0638-MSD1	Batch: E	3WC0638		QC Sou	urce Sample	e: 22C101	5-06			
Date Prepared: 03/15/2022	Date An	alyzed: 03/	/16/202	2						
Nitrate + Nitrite, Total, as N	76.0	8.97	80 -	120	20	1.0	0.3	1.00	0.1	1.00
QM-12 - The MSD recovery was outsid accepted based on the acceptability of		ince limits,	but pas	sed du	plicate spik	e accepta	nce criteria. T	he batch was		
QC Sample ID: BWC0638-MSD2	Batch: E	3WC0638		QC Sou	arce Sample	e: XXXXX	XXX-XX			
Date Prepared: 03/15/2022	Date An	alyzed: 03/	16/202	2						
Nitrate + Nitrite, Total, as N	109	0.162	80 -	120	20	6.8	5.7	1.00	0.5	5.00
QC Sample ID: BWC1227-MSD1	Batch: E	3WC1227		QC Sou	urce Sample	e: XXXXX	XXX-XX			
Date Prepared: 03/29/2022	Date An	alyzed: 03/	/30/202	2						
Nitrate + Nitrite, Total, as N	124	2.10	80 -	120	20	6.3	5.1	1.00	0.5	5.00
QM-12 - The MSD recovery was outsid accepted based on the acceptability of		ince limits,	but pas	sed du	plicate spik	e accepta	nce criteria. T	he batch was		
QC Sample ID: BWC1227-MSD2	Batch: E	3WC1227		QC Sou	urce Sample	e: XXXXX	XXX-XX			
Date Prepared: 03/29/2022	Date An	alyzed: 03/	/30/202	2						
Nitrate + Nitrite, Total, as N	105	3.85	80 -	120	20	4.0	3.0	1.00	0.1	1.00
QC Sample ID: BWC1227-MSD3	Batch: E	3WC1227		QC Sou	urce Sample	e: 22C101	5-01			
Date Prepared: 03/29/2022	Date An	alyzed: 03/	/30/202:	2						
Nitrate + Nitrite, Total, as N	108	3.18	80 -	120	20	2.9	1.8	1.00	0.5	5.00

Tab H

Quality Assurance and Data Validation Tables

H-1: Field QA/QC Evaluation

		Volume	Volume Check	Conduc	tivity	RPD	pł	4	RPD	Tempe	rature	RPD	Red	ox	RPD	Turb	idity	RPD	Dissol Oxyg		RPD
			okay	243	5	NC	7.2		NC	12.		NC	33		NC	5.		NC	66.0		NC
			okay	954	1	NC	7.4	19	NC	12.	40	NC	303	3	NC	1.	7	NC	18.5	;	NC
			okay	127	6	NC	7.3	32	NC	12.	10	NC	34	1	NC	80	.3	NC	104.	2	NC
ntinuously Pumped well	uously Pumped well	A CAL PROPERTY AND		550	3	NC	6.8	37	NC	14.	18	NC	36)	NC	C)	NC	90.0)	NC
ntinuously Pumped well	uously Pumped well			770	8	NC	6.7	75	NC	14.	36	NC	38	2	NC	3.	0	NC	38.0)	NC
ntinuously Pumped well	uously Pumped well	Contraction of the local distance		260	3	NC	7.0)1	NC	14.	48	NC	32	2	NC	C)	NC	34.1	Sector Sector	NC
55.00	55.00	47.98	okay	932	941	0.96	7.42	7.37	0.68	15.16	15.14	0.13	296	313	5.58	2.3	2.3	0.00	48.0	46.0	4.26
ntinuously Pumped well	uously Pumped well	Contra La terre		202	4	NC	6.8	37	NC	14.	87	NC	29	9	NC	C)	NC	83.0)	NC
51.33	51.33	68.92	Pumped Dry	2334	2332	0.09	7.12	7.12	0.00	12.45	12.50	0.40	NN	1	NC	N	M	NC	NM		NC
99.00	99.00	83.68	okay	1065	1061	0.38	7.18	7.18	0.00	14.67	14.66	0.07	411	414	0.73	3.2	3.2	0.00	6.6	6.8	2.99
19.25	19.25	35.06	Pumped Dry	1909	1916	0.37	7.33	7.39	0.82	12.41	12.48	0.56	NA	1	NC	N	M	NC	NM		NC
132.00	132.00	110.44	okay	2830	2829	0.04	6.83	6.83	0.00	14.47	14.44	0.21	314	313	0.32	1.4	1.4	0.00	1.6	1.6	0.00
14.66	14.66	26.68	Pumped Dry	2969	2974	0.17	6.87	6.90	0.44	14.97	14.97	0.00	NA	1	NC	N	M	NC	. NM		NC
25.66	25.66	38.84	Pumped Dry	3780	3767	0.34	7.18	7.17	0.14	12.87	12.85	0.16	NA	1	NC	N	M	NC	NM	1.5531	NC
		14.66 25.66	14.66 26.68 25.66 38.84	14.66 26.68 Pumped Dry 25.66 38.84 Pumped Dry	14.66 26.68 Pumped Dry 2969	14.66 26.68 Pumped Dry 2969 2974 25.66 38.84 Pumped Dry 3780 3767	14.66 26.68 Pumped Dry 2969 2974 0.17 25.66 38.84 Pumped Dry 3780 3767 0.34	14.66 26.68 Pumped Dry 2969 2974 0.17 6.87 25.66 38.84 Pumped Dry 3780 3767 0.34 7.18	14.66 26.68 Pumped Dry 2969 2974 0.17 6.87 6.90 25.66 38.84 Pumped Dry 3780 3767 0.34 7.18 7.17	14.66 26.68 Pumped Dry 2969 2974 0.17 6.87 6.90 0.44 25.66 38.84 Pumped Dry 3780 3767 0.34 7.18 7.17 0.14	14.66 26.68 Pumped Dry 2969 2974 0.17 6.87 6.90 0.44 14.97 25.66 38.84 Pumped Dry 3780 3767 0.34 7.18 7.17 0.14 12.87	14.66 26.68 Pumped Dry 2969 2974 0.17 6.87 6.90 0.44 14.97 14.97 25.66 38.84 Pumped Dry 3780 3767 0.34 7.18 7.17 0.14 12.87 12.85	14.66 26.68 Pumped Dry 2969 2974 0.17 6.87 6.90 0.44 14.97 14.97 0.00 25.66 38.84 Pumped Dry 3780 3767 0.34 7.18 7.17 0.14 12.87 12.85 0.16	14.66 26.68 Pumped Dry 2969 2974 0.17 6.87 6.90 0.44 14.97 14.97 0.00 NN 25.66 38.84 Pumped Dry 3780 3767 0.34 7.18 7.17 0.14 12.87 12.85 0.16 NN	14.66 26.68 Pumped Dry 2969 2974 0.17 6.87 6.90 0.44 14.97 14.97 0.00 NM 25.66 38.84 Pumped Dry 3780 3767 0.34 7.18 7.17 0.14 12.87 12.85 0.16 NM	14.66 26.68 Pumped Dry 2969 2974 0.17 6.87 6.90 0.44 14.97 14.97 0.00 NM NC 25.66 38.84 Pumped Dry 3780 3767 0.34 7.18 7.17 0.14 12.87 12.85 0.16 NM NC	14.66 26.68 Pumped Dry 2969 2974 0.17 6.87 6.90 0.44 14.97 14.97 0.00 NM NC N 25.66 38.84 Pumped Dry 3780 3767 0.34 7.18 7.17 0.14 12.87 12.85 0.16 NM NC N	14.66 26.68 Pumped Dry 2969 2974 0.17 6.87 6.90 0.44 14.97 14.97 0.00 NM NC NM 25.66 38.84 Pumped Dry 3780 3767 0.34 7.18 7.17 0.14 12.87 12.85 0.16 NM NC NM	14.66 26.68 Pumped Dry 2969 2974 0.17 6.87 6.90 0.44 14.97 14.97 0.00 NM NC NM NC 25.66 38.84 Pumped Dry 3780 3767 0.34 7.18 7.17 0.14 12.87 12.85 0.16 NM NC NM NC	14.66 26.68 Pumped Dry 2969 2974 0.17 6.87 6.90 0.44 14.97 14.97 0.00 NM NC NM NC NM NC NM 25.66 38.84 Pumped Dry 3780 3767 0.34 7.18 7.17 0.14 12.87 12.85 0.16 NM NC NM NC NM	14.66 26.68 Pumped Dry 2969 2974 0.17 6.87 6.90 0.44 14.97 14.97 0.00 NM NC NM NC NM NC NM 25.66 38.84 Pumped Dry 3780 3767 0.34 7.18 7.17 0.14 12.87 12.85 0.16 NM NC NM NC NM

TWN-03, TWN-07, TWN-20, TWN-21 were pumped dry and sampled after recovery.

NM = Not Measured. The QAP does not require the measurement of redox potential or turbidity in wells that were purged to dryness.

RPD = Relative Percent Difference

The QAP states that turbidity should be less than 5 Nephelometric Turbidity Units ("NTU") prior to sampling unless the well is characterized by water that has a higher turbidity. The QAP does not require that turbidity measurements be less than 5 NTU prior to sampling. As such, the noted observations regarding turbidity measurements less than 5 NTU are included for information purposes only.

H-2: Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
PIEZ-01	Chloride	2/16/2022	2/22/2022	6	28	OK
PIEZ-01	Nitrate + Nitrite as N	2/16/2022	2/18/2022	2	28	OK
PIEZ-02	Chloride	2/16/2022	2/22/2022	6	28	OK
PIEZ-02	Nitrate + Nitrite as N	2/16/2022	2/18/2022	2	28	OK
PIEZ-03A	Chloride	2/16/2022	2/22/2022	6	28	OK
PIEZ-03A	Nitrate + Nitrite as N	2/16/2022	2/18/2022	2	28	OK
TWN-01	Chloride	2/15/2022	2/22/2022	7	28	OK
TWN-01	Nitrate + Nitrite as N	2/15/2022	2/18/2022	3	28	OK
TWN-02	Chloride	2/15/2022	2/22/2022	7	28	OK
TWN-02	Nitrate + Nitrite as N	2/15/2022	2/18/2022	3	28	OK
TWN-03	Chloride	2/16/2022	2/24/2022	8	28	OK
TWN-03	Nitrate + Nitrite as N	2/16/2022	2/18/2022	2	28	OK
TWN-04	Chloride	2/15/2022	2/22/2022	7	28	OK
TWN-04	Nitrate + Nitrite as N	2/15/2022	2/18/2022	3	28	OK
TWN-07	Chloride	2/16/2022	2/22/2022	6	28	OK
TWN-07	Nitrate + Nitrite as N	2/16/2022	2/18/2022	2	28	OK
TWN-18	Chloride	2/15/2022	2/22/2022	7	28	OK
TWN-18	Nitrate + Nitrite as N	2/15/2022	2/18/2022	3	28	OK
TWN-18R	Chloride	2/15/2022	2/22/2022	7	28	OK
TWN-18R	Nitrate + Nitrite as N	2/15/2022	2/18/2022	3	28	OK
TWN-20	Chloride	2/16/2022	2/22/2022	6	28	OK
TWN-20	Nitrate + Nitrite as N	2/16/2022	2/18/2022	2	28	OK
TWN-21	Chloride	2/16/2022	2/22/2022	6	28	OK
TWN-21	Nitrate + Nitrite as N	2/16/2022	2/18/2022	2	28	OK
TWN-60	Chloride	2/15/2022	2/22/2022	7	28	OK
TWN-60	Nitrate + Nitrite as N	2/15/2022	2/18/2022	3	28	OK
TWN-65	Chloride	2/15/2022	2/22/2022	7	28	OK
TWN-65	Nitrate + Nitrite as N	2/15/2022	2/18/2022	3	28	OK
TW4-22	Chloride	3/9/2022	3/23/2022	14	28	OK
TW4-22	Nitrate + Nitrite as N	3/9/2022	3/16/2022	7	28	OK
TW4-24	Chloride	3/9/2022	3/23/2022	14	28	OK
TW4-24	Nitrate + Nitrite as N	3/9/2022	3/16/2022	7	28	OK
TW4-25	Chloride	3/9/2022	3/22/2022	13	28	OK
TW4-25	Nitrate + Nitrite as N	3/9/2022	3/30/2022	21	28	OK
TW4-60	Chloride	3/9/2022	3/22/2022	13	28	OK
TW4-60	Nitrate + Nitrite as N	3/9/2022	3/16/2022	7	28	OK

H-3: Analytical Method Check

Parameter	Method	Method Used by Lab
Nitrate	E353.1 or E353.2	E353.2
	A4500-Cl B or A4500-Cl E	
Chloride	or E300.0	E300.0

Both Nitrate and Chloride were analyzed with the correct analytical method.

H-41	Reporting	Limit	Check
------	-----------	-------	-------

		Lab Reporting			Dilution	Required Reporting	RL
Location	Analyte	Limit	Units	Qualifier		Limit	Check
PIEZ-01	Chloride	1	mg/L		1	1	OK
PIEZ-01	Nitrate + Nitrite as N	0.1	mg/L		10	0.1	OK
PIEZ-02	Chloride	1	mg/L		1	1	OK
PIEZ-02	Nitrate + Nitrite as N	0.1	mg/L	3	10	0.1	OK
PIEZ-03A	Chloride	1	mg/L		1	1	OK
PIEZ-03A	Nitrate + Nitrite as N	0.1	mg/L		10	0.1	OK
TWN-01	Chloride	1	mg/L		1	1	OK
TWN-01	Nitrate + Nitrite as N	0.1	mg/L		10	0.1	OK
TWN-02	Chloride	1	mg/L		1	1	OK
TWN-02	Nitrate + Nitrite as N	0.1	mg/L		10	0.1	OK
TWN-03	Chloride	2	mg/L		2	1	OK
TWN-03	Nitrate + Nitrite as N	0.2	mg/L		20	0.1	OK
TWN-04	Chloride	1	mg/L		1	1	OK
TWN-04	Nitrate + Nitrite as N	0.1	mg/L		10	0.1	OK
TWN-07	Chloride	10	mg/L		10	1	OK
TWN-07	Nitrate + Nitrite as N	0.1	mg/L		10	0.1	OK
TWN-18	Chloride	1	mg/L		1	1	OK
TWN-18	Nitrate + Nitrite as N	0.1	mg/L		10	0.1	OK
TWN-18R	Chloride	1	mg/L	U	1	1	OK
TWN-18R	Nitrate + Nitrite as N	0.1	mg/L	U	10	0.1	OK
TWN-20	Chloride	1	mg/L		1	1	OK
TWN-20	Nitrate + Nitrite as N	0.1	mg/L		10	0.1	OK
TWN-21	Chloride	1	mg/L		1	1	OK
TWN-21	Nitrate + Nitrite as N	0.1	mg/L		10	0.1	OK
TWN-60	Chloride	1	mg/L	U	1	1	OK
TWN-60	Nitrate + Nitrite as N	0.1	mg/L	U	10	0.1	OK
TWN-65	Chloride	1	mg/L		1	1	OK
TWN-65	Nitrate + Nitrite as N	0.1	mg/L	U	10	0.1	OK
TW4-22	Chloride	10	mg/L		10	1	OK
TW4-22	Nitrate + Nitrite as N	1	mg/L		10	0.1	OK
TW4-24	Chloride	10	mg/L		10	1	OK
TW4-24	Nitrate + Nitrite as N	1	mg/L		10	0.1	OK
TW4-25	Chloride	1	mg/L		1	1	OK
TW4-25	Nitrate + Nitrite as N	0.5	mg/L		5	0.1	OK
TW4-60	Chloride	1	mg/L	U	1	1	OK
TW4-60	Nitrate + Nitrite as N	0.1	mg/L	U	1	0.1	OK

H-5 QA/QC Evaluation for Sample Duplicates

Constituent	TWN-18	TWN-65	%RPD
Chloride	40.9	40.5	0.98
Nitrogen	0.199	<0.100	N/A

2

 $\left| \text{N/A} - \text{The duplicate test was not performed because both results were not greater than the RL.} \right.$

H-6 QC Control Limits for Analysis and Blanks

Method Blank Detections

All Method Blanks for the quarter were non-detect.

Matrix Spike % Recovery Comparison

			1			REC	
Lab Report	Lab Sample ID	Well	Analyte	MS %REC	MSD %REC	Range	RPD
2202208	2202208-002	TWN-18	Nitrate	118	107	80-120	9.61
22C1015	22C1015-01	TW4-25	Nitrate	170	161	80-120	5.27
22C1015	22C1015-06	MW-26	Nitrate	85.8	76	80-120	8.97
22C1015	N/A	N/A	Nitrate	111	124	80-120	2.10

N/A - QC was not performed on an EFRI sample.

Laboratory Control Sample

All Laboratory Control Samples were within acceptance limits for the quarter.

H-7 Receipt Temperature Evaluation

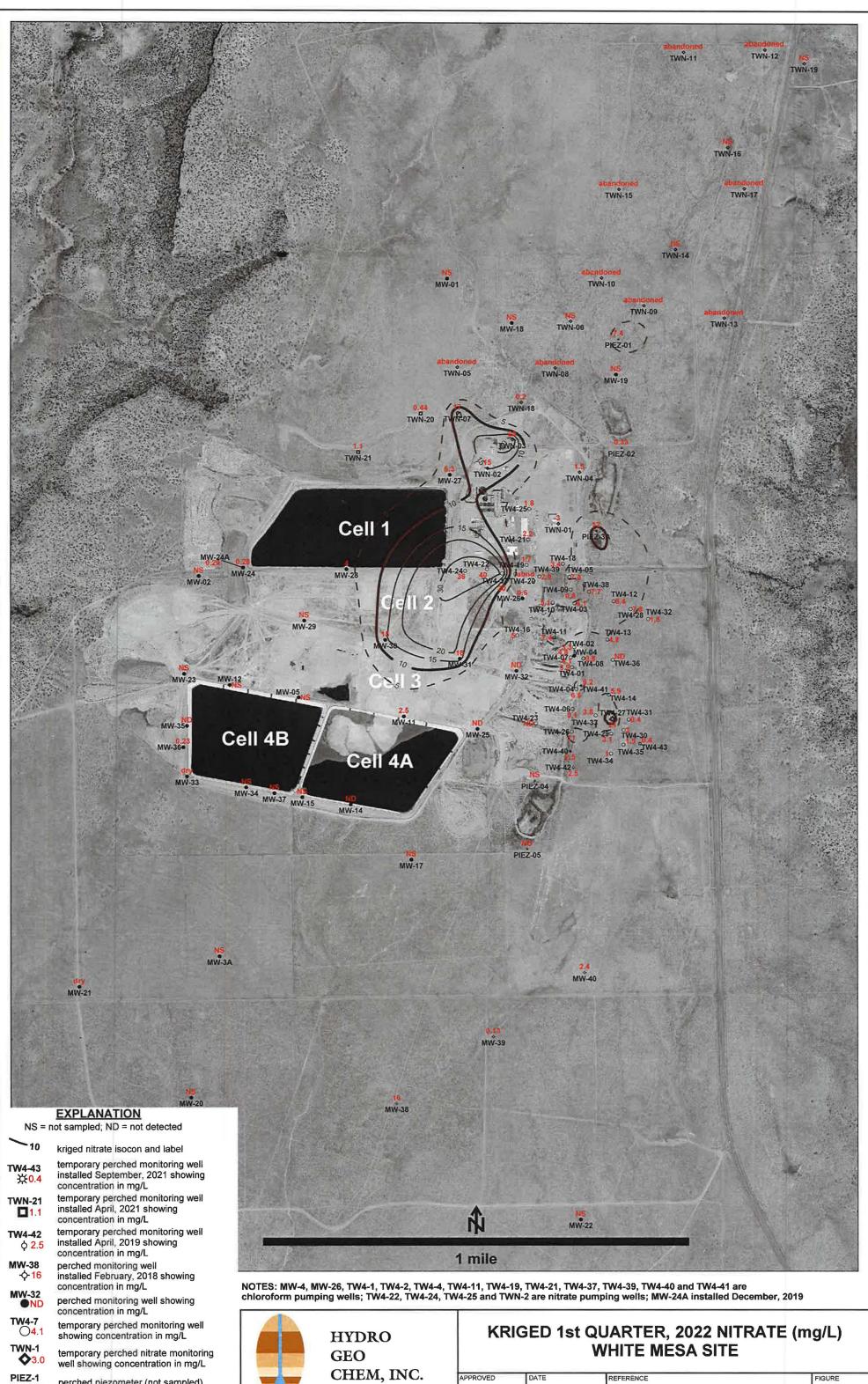
Sample Batch	Wells in Batch	Temperature
22B1363	PIEZ-01, PIEZ-02, PIEZ-03A, TWN-1, TWN-2, TWN-3, TWN-4, TWN-7, TWN-18, TWN-18R, TWN-20, TWN-21, TWN-60, TWN-65	3.5 °C
22C1015	TW4-22, TW4-24, TW4-25, TW4-60	0.7 °C

H-8 Rinsate Evaluation

All rinsate and DI blank samples were non-detect for the quarter.

Tab I

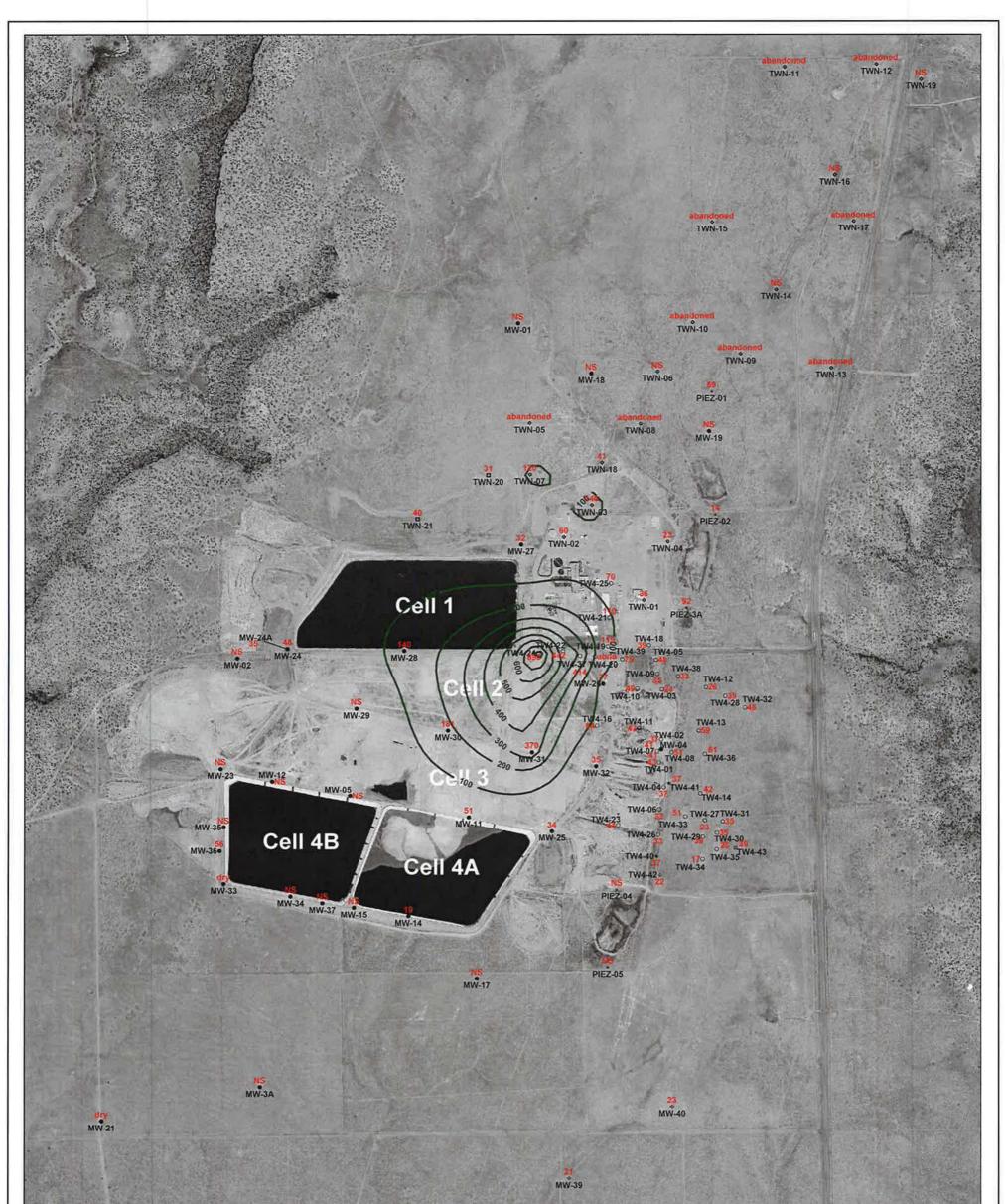
Kriged Current Quarter Isoconcentration Maps



EZ-1 perched piezometer (not sampled)

H:/718000/may22/nitrate/Unt10322.srf

1-1



EXPLANATION

NS = not sampled; ND = not detected

100 kriged chloride isocon and label

₩4-43 ₩39 temporary perched monitoring well installed September, 2021 showing concentration in mg/L

MW-20

TWN-21

temporary perched monitoring well installed April, 2021 showing concentration in mg/L

TW4-42 ter ∲22 ins

temporary perched monitoring well installed April, 2019 showing concentration in mg/L

MW-38 perched monitoring well installed February, 2018

installed February, 2018 showing concentration in mg/L

perched monitoring well showing concentration in mg/L

temporary perched monitoring well showing concentration in mg/L

PIEZ-1

€ 69

MW-32

TW4-7

●35

temporary perched nitrate monitoring well showing concentration in mg/L

perched piezometer (not sampled)



NOTES: MW-4, MW-26, TW4-1, TW4-2, TW4-4, TW4-11, TW4-19, TW4-21, TW4-37, TW4-39, TW4-40 and TW4-41 are chloroform pumping wells; TW4-22, TW4-24, TW4-25 and TWN-2 are nitrate pumping wells; MW-24A installed December, 2019

	HYDRO GEO	KRIGI		ARTER, 2022 CHLORIDE (n /HITE MESA SITE	ng/L)
<u>.</u>	CHEM, INC.	APPROVED	DATE	REFERENCE H:/718000/may22/chloride/Ucl0322.srf	FIGURE
-				1.51 100001110122/0110100/0010022.511	1-2

Tab J

Analyte Concentrations over Time

Date	Nitrate (mg/l)	Chloride (mg/l)	
2/19/2009	6.8	NA	
7/14/2009	6.8	60	
9/22/2009	7.3	78	
10/27/2009	7.4	61	
6/2/2010	7.2	52	
7/19/2010	6.8	52	
12/10/2010	6.5	60	
1/31/2011	7	60	
4/25/2011	6.8	58	
7/25/2011	7	53	
10/19/2011	6.6	55	
1/11/2012	7.1	78	
4/20/2012	6.6	58	
7/27/2012	7.2	56	
10/17/2012	7.66	55	
2/18/2013	8.11	56.7	
4/24/2013	8.88	53.3	
8/28/2013	7.83	55.1	
10/16/2013	6.68	54.1	
1/13/2014	6.79	56.2	
5/7/2014	7.57	52.1	
8/6/2014	5.1	55	
10/8/2014	5.75	57.6	
2/18/2015	6.41	55.9	
5/12/2015	5.95	57.5	
8/26/2015	4.96	64.2	
10/14/2015	6.17	54.4	
2/23/2016	8.31	56.5	
5/17/2016	6.33	59.1	
7/19/2016	6.78	53.9	
10/11/2016	6.42	58.1	
2/15/2017	6.75	54.5	
6/1/2017	6.60	54.7	
7/20/2017	6.80	58.0	
10/4/2017	6.21	54.4	
1/17/2018	6.35	55.3	
5/9/2018	6.56	58.0	
8/8/2018	6.66	63.5	
11/20/2018	6.70	55.5	
2/19/2019	6.72	56.8	
5/30/2019	6.75	59.4	
8/14/2019	6.81	61.1	
10/16/2019	7.21	59.3	
1/30/2020	7.12	68.9	

Date	Nitrate (mg/l)	Chloride (mg/l)
5/20/2020	6.95	67.7
7/15/2020	7.36	63.6
11/13/2020	7.51	63.9
2/18/2021	7.34	57.5
5/27/2021	7.89	69.9
8/19/2021	7.60	70.0
11/23/2021	4.69	65.5
2/16/2022	7.40	68.8

Date	Nitrate (mg/l)	Chloride (mg/l)	
2/19/2009	0.500	NA	
7/14/2009	0.500	7.0	
9/22/2009	0.500	17.0	
10/27/2009	0.600	7.0	
6/2/2010	0.600	8.0	
7/19/2010	0.600	8.0	
12/10/2010	0.200	6.0	
1/31/2011	0.300	9.0	
4/25/2011	0.300	8.0	
7/25/2011	0.100	9.0	
10/19/2011	0.100	8.0	
1/11/2012	0.100	9.0	
4/20/2012	0.200	8.0	
7/27/2012	0.200	9.0	
10/17/2012	0.192	9.5	
2/19/2013	0.218	9.7	
4/24/2013	0.172	10.3	
8/28/2013	0.198	9.7	
10/16/2013	0.364	9.2	
1/13/2014	0.169	11.4	
5/7/2014	0.736	11.4	
8/6/2014	0.800	12.0	
10/8/2014	0.755	12.2	
2/18/2015	0.749	12.6	
5/12/2015	0.646	13.1	
8/26/2015	0.662	15.5	
10/14/2015	0.692	13.3	
2/23/2016	0.615	13.4	
5/17/2016	0.665	14.0	
7/19/2016	0.669	12.4	
10/11/2016	0.732	13.4	
2/15/2017	0.696	12.4	
6/1/2017	0.345	13.2	
7/20/2017	0.555	13.4	
10/4/2017	0.684	12.7	
1/17/2018	0.716	13.0	
5/9/2018	0.776	14.0	
8/8/2018	0.818	15.1	
11/20/2018	0.648	12.3	
2/19/2019	0.599	12.9	
5/30/2019	0.702	12.6	
8/14/2019	0.606	13.2	
10/16/2019	0.573	12.6	
1/30/2020	0.740	14.2	

- 11

Date	Nitrate (mg/l)	Chloride (mg/l)	
5/20/2020	0.679	14.4	
7/15/2020	0.793	12.7	
11/13/2020	0.544	12.9	9.
2/18/2021	0.401	15.7	
5/27/2021	0.100	13.9	
8/19/2021	0.110	14.6	
11/23/2021	<0.100	14.8	
2/16/2022	0.330	14.0	

Piezometer 3		Chlavida (m /l)
Date	Nitrate (mg/l)	Chloride (mg/l)
5/17/2016	8.23 8.83	109 93.8
7/19/2016		100
10/11/2016 2/15/2017	8.44 10.00	100
6/1/2017	10.00	111
7/20/2017	9.31	124
10/4/2017	9.65	103
1/17/2018	8.61	94.3
5/9/2018	8.98	100
8/8/2018	12.1	122
11/20/2018		105
2/19/2019	11.8	102
5/30/2019	11.8	104
8/14/2019	10.7	96.2
10/16/2019		83.0
1/30/2020	10.5	99.5
5/20/2020	12.4	88.3
7/15/2020	12.8	82.7
11/13/2020	13.0	72.8
2/18/2021	11.1	85.9
5/27/2021	14.4	85.2
8/19/2021	11.2	81.5
11/23/2021	9.1	84.6
2/16/2022	12.1	91.7

TWN-1			
Date	Nitrate (mg/l)	Chloride (mg/l)	
2/6/2009	0.7	19	
7/21/2009	0.4	17	
9/21/2009	0.4	19	
10/28/2009	0.5	18	
3/17/2010	0.5	17	
5/26/2010	0.6	20	
9/27/2010	0.6	19	
12/7/2010	0.6	14	
1/26/2011	0.5	17	
4/20/2011	0.5	19	
7/26/2011	0.5	14	
10/17/2011	0.5	10	
1/9/2012	0.6	15	
4/18/2012	0.6	17	
7/24/2012	0.6	17	
10/15/2012	0.432	17.5	
2/18/2013	0.681	17.6	
4/23/2013	0.84	17.4	
8/27/2013	1.24	24.1	
10/16/2013	1.61	26.8	
1/14/2014	1.47	29.2	
5/6/2014	1.63	31.1	
8/5/2014	1.7	28	
10/8/2014	1.46	27.6	
2/18/2015	1.37	27.8	
5/13/2015	0.65	29.2	
8/25/2015	0.324	33.2	
10/13/2015	1.35	27.7	
2/23/2016	1.51	30.3	
5/17/2016	1.73	32.1	
7/20/2016	1.76	29.6	
10/6/2016	1.98	33.0	
2/15/2017	2.06	31.2	
6/1/2017	1.89	32.7	
7/19/2017	2.07	31.2	
10/4/2017	1.95	32.0	
1/18/2018	1.86	30.4	
5/8/2018	2.06	28.4	
8/8/2018	1.97	34.2	ah.
11/20/2018	1.98	28.9	
2/20/2019	2.10	31.4	
5/29/2019	1.93	32.6	
8/14/2019	2.15	30.3	
10/16/2019	2.35	32.0	
1/29/2020	2.24	33.8	

TWN-1 Date	Nitrate (mg/l)	Chloride (mg/l)
5/20/2020	2.24	33.0
7/15/2020	2.36	30.8
11/12/2020	1.89	29.2
2/17/2021	2.53	34.1
5/25/2021	3.18	34.7
8/18/2021	2.47	35.7
11/23/2021	1.91	37.4
2/15/2022	3.01	35.6

TWN-2		
Date	Nitrate (mg/l)	Chloride (mg/l)
2/6/2009	25.4	29
7/21/2009	25	25
9/21/2009	22.6	17
11/2/2009	20.8	55
3/24/2010	62.1	85
6/2/2010	69	97
9/29/2010	69	104
12/9/2010	48	93
2/1/2011	43	93
4/28/2011	40	85
7/28/2011	33	74
10/20/2011	33	76
1/12/2012	31	86
4/20/2012	48	103
7/31/2012	54	93
10/17/2012	22.1	79
2/19/2013	57.3	80.5
4/24/2013	57.7	82.1
8/27/2013	80	75.9
10/16/2013	111	70.4
1/13/2014	42.6	72.4
5/7/2014	44.7	84.9
8/6/2014	42	80
10/8/2014	70.6	81
2/18/2015	48.6	84.8
5/12/2015	52.8	82.6
8/25/2015	49.7	87.8
10/14/2015	44.9	74.9
2/23/2016	86.3	73.9
5/17/2016	45.4	74.5
7/19/2016	35.3	68.8
10/11/2016	32.6	69.8
2/15/2017	27.4	65.8
6/1/2017	25.0	61.5
7/20/2017	23.9	64.2
10/4/2017	31.9	60.5
1/19/2018		57.1
5/9/2018		62.3
8/8/2018		61.5
11/20/2018		56.0
2/19/2019		50.7
5/29/2019		102
8/14/2019		50.7
10/16/2019		53.0
1/29/2020		66.1
1/29/2020	10.5	00.1

TWN-2		
Date	Nitrate (mg/l)	Chloride (mg/l)
5/20/2020	16.1	59.6
7/15/2020	17.2	55.6
11/12/2020	12.00	53.5
2/18/2021	15.4	61.8
5/25/2021	13.8	61.5
8/18/2021	15.3	58.9
11/23/2021	12.7	62.3
2/15/2022	15.3	59.5

.

TWN-3		
Date	Nitrate (mg/l)	Chloride (mg/l)
2/6/2009	23.6	96
7/21/2009	25.3	96
9/21/2009	27.1	99
11/2/2009	29	106
3/25/2010	25.3	111
6/3/2010	26	118
7/15/2010	27	106
12/10/2010	24	117
2/1/2011	24	138
4/28/2011	26	128
7/29/2011	25	134
10/20/2011	25	129
1/12/2012	25	143
4/20/2012	24	152
7/31/2012	27	158
10/17/2012	12.1	149
2/19/2013	22.2	157
4/24/2013	27.2	158
8/28/2013	20.9	171
10/17/2013	23.5	163
1/15/2014	19.6	160
5/7/2014	23.6	168
8/6/2014	19.5	174
10/9/2014	19.1	153
2/19/2015	19.4	164
5/14/2015	17.2	141
8/26/2015	16.2	156
10/14/2015	16.3	129
2/24/2016	16.8	128
5/18/2016	13.5	116
7/19/2016	16.8	110
10/7/2016	15.8	113
2/16/2017	13.8	113
6/2/2017	17.4	108
7/20/2017	15.9	108
10/5/2017	15.9	
		111
1/19/2018	14.4	107
5/9/2018	16.4	115
8/9/2018	19.4	149
11/21/2018	20.1	123
2/21/2019	20.7	140
5/30/2019	18.7	137
8/15/2019	19.8	133
10/17/2019	19.6	126
1/30/2020	19.4	156

TWN-3		
Date	Nitrate (mg/l)	Chloride (mg/l)
5/21/2020	24.0	136
7/16/2020	22.2	130
11/13/2020	18.00	137
2/18/2021	23.8	145
5/27/2021	25.0	156
8/19/2021	24.3	146
11/24/2021	17.4	147
2/16/2022	25.3	140

,	TWN-4		
	Date	Nitrate (mg/l)	Chloride (mg/l)
2	/6/2009	1.00	13.0
7/	/21/2009	0.05	12.0
9/	/21/2009	0.40	13.0
10	/28/2009	0.40	11.0
3/	/16/2010	0.90	22.0
5/	/27/2010	1.00	22.0
	/27/2010	0.90	19.0
	2/8/2010	1.00	21.0
	/25/2011	0.90	21.0
	/20/2011	0.90	21.0
	/26/2011	1.10	35.0
	/18/2011	0.90	20.0
	/9/2012	0.90	20.0
	/18/2012	1.10	24.0
	/25/2012		
		1.40	25.0
	/15/2012	1.45	26.4
	/18/2013	1.51	25.3
	/23/2013	1.63	24.4
	/27/2013	1.58	27.2
	/16/2013	1.69	29.4
	/14/2014	1.41	28.4
	/6/2014	1.55	29.6
8	/5/2014	2.00	28.0
10	0/8/2014	1.44	30.7
2/	/18/2015	1.48	31.5
5/	/13/2015	0.73	31.9
8/	/25/2015	0.97	35.2
10,	/13/2015	1.58	28.4
2/	/23/2016	2.02	30.7
	/17/2016	2.97	31.7
7/	/20/2016	3.14	28.0
	0/6/2016	3.09	31.3
	/15/2017	2.63	31.2
	/1/2017	2.37	28.6
	/19/2017	2.35	28.0
	/4/2017	2.27	27.4
5	/18/2018		26.3
	5/8/2018		27.7
	8/8/2018		28.0
	./20/2018		22.7
	/20/2018		25.3
	/20/2019		26.5
	s/29/2019 s/14/2019		23.7
	/16/2019		25.4
1	/29/2020	1.89	27.2

TWN-4		
Date	Nitrate (mg/l)	Chloride (mg/l)
5/20/2020	1.75	25.1
7/15/2020	1.75	23.1
11/12/2020	1.18	22.8
2/17/2021	1.64	24.2
5/25/2021	1.70	23.2
8/18/2021	1.28	23.7
11/23/2021	1.27	23.2
2/15/2022	1.50	22.7

TWN-7		
Date	Nitrate (mg/l)	Chloride (mg/l)
8/25/2009	ND	11.00
9/21/2009	ND	7.00
11/10/2009		7.00
3/17/2010	0.800	6.00
5/28/2010	1.200	6.00
7/14/2010	1.600	7.00
12/10/2010	1.000	4.00
1/27/2011	1.300	6.00
4/21/2011	1.700	6.00
7/29/2011	0.700	5.00
10/19/2011	2.200	6.00
1/11/2012	2.300	5.00
4/20/2012	1.200	6.00
7/26/2012	0.900	6.00
10/16/2012	0.641	5.67
2/19/2013	0.591	5.68
4/24/2013	1.160	5.88
8/28/2013	0.835	6.96
10/16/2013	0.986	5.70
1/15/2014	0.882	5.75
5/7/2014	0.564	5.26
8/6/2014	0.900	6.00
10/9/2014	0.968	5.93
2/19/2015	1.040	5.58
5/14/2015	0.779	6.18
8/26/2015	0.348	6.12
10/14/2015	0.672	5.84
2/24/2016	0.240	6.06
5/18/2016	0.732	6.26
7/21/2016	0.810	5.97
10/7/2016	0.698	6.17
2/16/2017	1.63	14.00
6/2/2017	3.74	29.70
7/20/2017	2.70	29.00
10/5/2017	3.58	41.40
1/19/2018	5.82	69.40
5/9/2018	10.2	94.70
8/9/2018	10.6	105
11/21/2018	11.5	104
2/21/2019	12.9	107
5/30/2019	13.5	107
8/15/2019	12.9	122
10/17/2019	14.2	119
1/30/2020	14.2	119
5/21/2020	14.2	128
5/21/2020	14.0	120

TWN-7					
Date	Nitrate (mg/l)	Chloride (mg/l)			
7/16/2020	15.2	116			
11/13/2020	11.8	121			
2/18/2021	16.0	129	đ.		
5/27/2021	16.4	129			
8/19/2021	15.1	121			
11/24/2021	7.7	130			
2/16/2022	16.9	120			

TWN-18

I WIN-TO		
Date	Nitrate (mg/l)	Chloride (mg/l)
11/2/2009	1.300	57.0
3/17/2010	1.600	42.0
6/1/2010	1.800	63.0
9/27/2010	1.800	64.0
12/9/2010	1.600	59.0
1/27/2011	1.400	61.0
4/26/2011	1.800	67.0
7/28/2011	1.800	65.0
10/18/2011	1.900	60.0
1/10/2012	1.900	64.0
4/19/2012	2.100	64.0
7/26/2012	2.300	67.0
10/16/2012	1.950	67.5
2/18/2013	2.270	68.7
4/23/2013	2.320	64.3
8/27/2013	2.040	70.4
10/16/2013	2.150	67.3
1/14/2014	2.330	68.4
5/6/2014	2.180	76.5
8/5/2014	1.800	70.0
10/8/2014	1.470	74.8
2/18/2015	1.000	73.3
5/13/2015	1.350	76.6
8/25/2015	0.350	81.3
10/13/2015	0.668	69.0
2/23/2016	0.648	67.6
5/17/2016	0.497	69.9
7/20/2016	0.100	52.7
10/6/2016	0.501	67.4
2/15/2017	0.470	62.1
6/1/2017	0.392	63.9
7/19/2017	0.419	59.0
10/4/2017	0.256	56.6
1/18/2018	0.332	53.1
5/8/2018	0.283	57.8
8/8/2018	0.348	59.7
11/20/2018	0.160	48.1
2/20/2019	0.155	46.4
5/29/2019	0.129	50.0
8/14/2019	0.181	46.9
10/16/2019	0.162	47.1
1/29/2020	0.224	51.9
5/20/2020	0.236	47.4
7/15/2020	0.232	44.0
11/12/2020	0.208	42.3
,, _020	0.200	.2.0

TWN-18		
Date	Nitrate (mg/l)	Chloride (mg/l)
2/17/2021	0.228	46.2
5/25/2021	0.220	44.9
8/17/2021	0.199	42.9
11/23/2021	0.245	46.5
2/15/2022	0.199	40.9

TWN-20		
Date	Nitrate (mg/l)	Chloride (mg/l)
6/3/2021	1.88	50.0
8/19/2021	0.96	35.3
11/24/2021	0.286	33.6
2/16/2022	0.436	31.2

TWN-21			
Date	Nitrate (mg/l)	Chloride (mg/l)	
6/3/2021	1.03	41.9	
8/19/2021	1.16	40.5	
11/24/2021	0.696	42.6	
2/16/2022	1.10	40.4	

TW4-19

1004-10				
Date	Nitrate (mg/l)	Date	Chloride (mg/l)	
7/22/2002	42.80	12/7/2005	81	
9/12/2002	47.60	3/9/2006	86	
3/28/2003	61.40	7/20/2006	123	
6/23/2003	11.40	11/9/2006	134	
7/15/2003	6.80	2/28/2007	133	
8/15/2003	4.00	8/15/2007	129	
9/12/2003	5.70	10/10/2007	132	
9/25/2003	9.20	3/26/2008	131	
10/29/2003	7.70	6/25/2008	128	
11/9/2003	4.80	9/10/2008	113	
8/16/2004	9.91	10/15/2008	124	
9/17/2004	4.50	3/4/2009	127	
3/16/2005	5.30	6/23/2009	132	
6/7/2005	5.70	9/14/2009	43	
8/31/2005	4.60	12/14/2009	124	
12/1/2005	0.10	2/17/2010	144	
3/9/2006	4.00	6/9/2010	132	
6/14/2006	5.20	8/16/2010	142	
7/20/2006	4.30	10/11/2010	146	
11/9/2006	4.60	2/17/2011	135	
2/28/2007	4.00	6/7/2011	148	
8/15/2007	4.10	8/17/2011	148	
10/10/2007	4.00	11/17/2011	148	
3/26/2008	2.20	1/23/2012	138	
6/25/2008	2.81	6/6/2012	149	
9/10/2008	36.20	9/5/2012	149	
10/15/2008	47.80	10/3/2012	150	
3/4/2009	3.20	2/11/2013	164	
6/23/2009	2.40	6/5/2013	148	
9/14/2009	0.10	9/3/2013	179	
12/14/2009	26.70	10/29/2013	206	
2/17/2010	2.00	1/27/2014	134	
6/9/2010	4.40	5/19/2014	152	
8/16/2010	5.90	8/11/2014	140	
10/11/2010	2.70	10/21/2014	130	
2/17/2011	17.00	3/9/2015	238	
6/7/2011	12.00	6/8/2015	180	
8/17/2011	3.00	8/31/2015	326	
11/17/2011	5.00	10/19/2015	252	
1/23/2012	0.60	3/9/2016	276	
6/6/2012	2.40	5/23/2016	201	
9/5/2012	2.50	7/25/2016	214	
10/3/2012	4.10	10/13/2016	200	
2/11/2013	7.99	3/8/2017	461	
6/5/2013	2.95	6/13/2017	135	

TΜ	14-	19

TW4-19			
Date	Nitrate (mg/l)	Date	Chloride (mg/l)
9/3/2013	17.60	7/26/2017	218
10/29/2013	4.70	10/11/2017	139
1/27/2014	1.62	3/12/2018	193
5/19/2014	1.34	6/8/2018	138
8/11/2014	1.60	8/22/2018	166
10/21/2014	4.72	11/28/2018	140
3/9/2015	8.56	3/8/2019	197
6/8/2015	0.92	6/5/2019	160
8/31/2015	11.60	9/4/2019	153
10/19/2015	10.60	12/10/2019	147
3/9/2016	15.70	2/19/2020	205
5/23/2016	1.27	5/27/2020	147
7/25/2016	10.50	9/4/2020	188
10/13/2016	10.00	10/28/2020	104
3/8/2017	11.10	2/23/2021	167
6/13/2017	0.243	6/9/2021	115
7/26/2017	1.12	8/24/2021	172
10/11/2017	0.377	12/1/2021	184
3/12/2018	8.61	3/9/2022	119
6/8/2018	0.494		
8/22/2018	2.55		
11/28/2018	0.233		
3/8/2019	6.58		
6/5/2019	8.96		
9/4/2019	0.332		
12/10/2019	0.535		
2/19/2020	10.10		
5/27/2020	1.14		
9/4/2020	11.60		
10/28/2020	1.10		
2/23/2021	6.61		
6/9/2021	4.04		
8/24/2021	6.68		
12/1/2021	11.0		
3/9/2022	1.7		
inendet om en disstandigsbeligt i			

The sampling program for TW4-19 was updated in the fourth quarter of 2005 to include analysis for chloride as well as nitrate. This change accounts for the different number of data points represented above.

TW4-21

Date	Nitrate (mg/l)	Date	Chloride (mg/l)
5/25/2005	14.6	12/7/2005	353
8/31/2005	10.1	3/9/2006	347
11/30/2005	9.6	7/20/2006	357
3/9/2006	8.5	11/8/2006	296
6/14/2006	10.2	2/28/2007	306
7/20/2006	8.9	6/27/2007	327
11/8/2006	8.7	8/15/2007	300
2/28/2007	8.7	10/10/2007	288
6/27/2007	8.6	3/26/2008	331
8/15/2007	8.6	6/25/2008	271
10/10/2007	8.3	9/10/2008	244
3/26/2008	14.3	10/15/2008	284
6/25/2008	8.8	3/11/2009	279
9/10/2008	7.6	6/24/2009	291
10/15/2008	8.0	9/15/2009	281
3/11/2009	8.3	12/22/2009	256
6/24/2009	8.1	2/25/2010	230
9/15/2009	9.2	6/10/2010	266
12/22/2009	9.2 8.4	8/12/2010	200
2/25/2010	8.4 8.4		
-		10/13/2010	210
6/10/2010	12.0	2/22/2011	303
8/12/2010	14.0	6/1/2011	297
10/13/2010	7.0	8/17/2011	287
2/22/2011	9.0	11/16/2011	276
6/1/2011	13.0	1/19/2012	228
8/17/2011	14.0	6/13/2012	285
11/16/2011	13.0	9/13/2012	142
1/19/2012	15.0	10/4/2012	270
6/13/2012	11.0	2/13/2013	221
9/13/2012	13.0	6/18/2013	243
10/4/2012	14.0	9/12/2013	207
2/13/2013	11.8	11/13/2013	206
6/18/2013	13.8	2/5/2014	200
9/12/2013	10.3	5/22/2014	243
11/13/2013	9.0	8/27/2014	230
2/5/2014	11.4	10/29/2014	252
5/22/2014	11.5	3/12/2015	255
8/27/2014	7.1	6/8/2015	494
10/29/2014	10.0	8/31/2015	499

TW4-21

Date	Nitrate (mg/l)	Date	Chloride (mg/l)
3/12/2015	10.9	10/19/2015	413
6/8/2015	13.1	3/9/2016	452
8/31/2015	14.7	5/23/2016	425
10/19/2015	14.3	7/25/2016	457
3/9/2016	14.6	10/12/2016	439
5/23/2016	13.1	3/8/2017	478
7/25/2016	16.5	6/13/2017	309
10/12/2016	13.5	7/26/2017	447
3/8/2017	17.7	10/11/2017	378
6/13/2017	9.5	3/12/2018	447
7/26/2017	18.2	6/8/2018	387
10/11/2017	16.9	8/22/2018	182
3/12/2018	15.8	10/22/2018	392
6/8/2018	14.1	3/8/2019	180
8/22/2018	0.236	6/5/2019	456
10/22/2018	15.2	9/4/2019	478
3/8/2019	8.99	12/10/2019	339
6/5/2019	17.5	2/19/2020	446
9/4/2019	14.7	5/27/2020	353
12/10/2019	5.73	9/4/2020	382
2/19/2020	8.93	10/28/2020	411
5/27/2020	15.4	2/23/2021	454
9/4/2020	12.6	6/9/2021	461
10/28/2020	16.3	8/24/2021	375
2/23/2021	15.2	12/1/2021	227
6/9/2021	21.5	3/9/2022	110
8/24/2021	12.9		
12/1/2021	17.2		
3/9/2022	2.2		
and a set a source strain start			

The sampling program for TW4-21 was updated in the fourth quarter of 2005 to include analysis for chloride as well as nitrate. This change accounts for the different number of data points represented above.

TW4-22 Date	Nitrate (mg/l)	Chloride (mg/l)		
2/28/2007	20.9	347		
6/27/2007	19.3	273		
8/15/2007	19.3	259		
10/10/2007	18.8	238		
3/26/2008	39.1	519		
6/25/2008	41.9	271		
9/10/2008	38.7	524		
10/15/2008	36.3	539		
3/11/2009	20.7	177		
6/24/2009	20.6	177		
9/15/2009	40.3	391		
12/29/2009	17.8	175		
3/3/2010	36.6	427		
6/15/2010	19	134		
8/12/2010	18	127		
8/24/2010	15	130		
10/13/2010	16	134		
2/23/2011	18	114		
6/1/2011	17	138		
8/17/2011	15	120		
11/16/2011	19	174		
1/19/2012	14	36		
6/13/2012	12.8	35		
9/12/2012	7	121		
10/4/2012	14	130		
2/11/2013	58	635		
6/5/2013	50.2	586		
9/3/2013	29.7	487		
10/29/2013	45.2	501		
1/27/2014	54.6	598		
5/19/2014	47.2	614		
8/11/2014	41.5	540		
10/21/2014	54.9	596		
3/9/2015	69.2	675		
6/8/2015	47.1	390		
8/31/2015	64.7	557		
10/19/2015	56.1	567		
3/9/2016	31.1	583		
5/23/2016	58.4	598		
7/25/2016	61.3	619		
10/12/2016	61.5	588		
3/8/2017	69.8	566		
6/13/2017	70.8	572		
7/26/2017	66.1	391		
10/11/2017	80.1	600		
3/12/2018	62.3	607		
6/8/2018	72.5	580		

TW4-22 Date	Nitrate (mg/l)	Chloride (mg/l)
8/22/2018	55.4	613
11/28/2018	75.7	567
3/8/2019	71.9	528
6/5/2019	83.9	662
9/4/2019	72.5	588
12/10/2019	59.9	608
2/19/2020	57.7	606
5/27/2020	60.5	578
9/4/2020	64.8	514
10/28/2020	64.9	523
2/23/2021	69.6	618
6/9/2021	89.3	408
8/24/2021	35.1	410
12/1/2021	68.8	586
3/9/2022	40.4	442

TW4-24		
Date	Nitrate (mg/l)	Chloride (mg/l)
6/27/2007	26.1	770
8/15/2007	29	791
10/10/2007	24.7	692
3/26/2008	24.4	740
6/25/2008	45.3	834
9/10/2008	38.4	1180
10/15/2008	44.6	1130
3/4/2009	30.5	1010
6/24/2009	30.4	759
9/15/2009	30.4	618
12/17/2009	28.3	1080
2/25/2010	33.1	896
6/9/2010	30	639
8/11/2010	32	556
8/24/2010	31	587
10/6/2010	31	522
2/17/2011	31	1100
5/26/2011	35	1110
8/17/2011	34	967
11/16/2011	35	608
1/18/2012	37	373
6/6/2012	37	355
8/30/2012	37	489
10/3/2012	38	405
2/11/2013	35.9	1260
6/5/2013	23.7	916
9/3/2013	32.6	998
10/29/2013	34.6	1030
1/27/2014	31.6	809
5/19/2014	35	1020
8/11/2014	31.5	1150
10/21/2014	35.7	1050
3/9/2015	34.6	944
6/8/2015	31.8	1290
8/31/2015	25.3	788
10/19/2015	29.6	909
3/9/2015	29.0	989
5/23/2016	29.1	771
7/25/2016	34.4	1,180
10/12/2016	31.9	1,010
3/8/2017	41.3	1,090
6/13/2017	39.9	1,080
7/26/2017	40.0	1,230
10/11/2017	31.7	895
3/12/2018	44.9	1,320
6/14/2018	33.6	792
8/22/2018	33.8	996
11/28/2018	38.4	1,100
3/8/2019	39.3	1,040
6/5/2019	33.2	1,020
9/4/2019	36.4	1,130
12/10/2019	33.8	1,090
s 3		

TW4-24	
1004-24	

1004-24		
Date	Nitrate (mg/l)	Chloride (mg/l)
2/19/2020	37.1	1,010
5/27/2020	41.7	1,060
9/4/2020	39.1	1,100
10/28/2020	35.9	1,050
2/23/2021	41.9	1,170
6/9/2021	48.0	938
8/24/2021	26.7	1,010
12/1/2021	43.6	1,140
3/9/2022	36.2	890

TW4-25		
Date	Nitrate (mg/l)	Chloride (mg/l)
6/27/2007	17.1	395
8/15/2007	16.7	382
10/10/2007	17	356
3/26/2008	18.7	374
6/25/2008	22.1	344
9/10/2008	18.8	333
10/15/2008	21.3	366
3/4/2009	15.3	332
6/24/2009	15.3	328
9/15/2009	3.3	328
12/16/2009	14.2	371
2/23/2010	14.4	296
6/8/2010	16	306
8/10/2010	14	250
	15	312
10/5/2010		
2/16/2011	15	315
5/25/2011	16	321
8/16/2011	16	276
11/15/2011	16	294
1/18/2012	16	304
5/31/2012	16	287
9/11/2012	17	334
10/3/2012	17	338
2/11/2013	9.04	190
6/5/2013	5.24	136
9/3/2013	5.69	119
10/29/2013	6.10	88.6
1/27/2014	2.16	85.7
5/19/2014	1.21	51.1
8/11/2014	1.6	67
10/21/2014	1.03	58.1
3/9/2015	14.4	310
6/8/2015	1.14	58.3
8/31/2015		69.2
	1.63	
10/21/2015	1.78	93.7
3/9/2016	0.837	62.7
5/23/2016	0.959	75.5
7/25/2016	1.78	74.1
10/12/2016	1.24	59.8
3/8/2017	17.0	285
6/13/2017	0.976	69.8
7/26/2017	1.23	70.1
10/11/2017	1.29	68.0
3/12/2018	2.23	70.5
6/14/2018	1.14	60.3
-,,		

TW4-25		
Date	Nitrate (mg/l)	Chloride (mg/l)
8/22/2018	0.810	69.1
11/28/2018	0.634	59.7
3/8/2019	0.639	65.0
6/5/2019	0.821	59.0
9/4/2019	0.548	58.1
12/10/2019	0.841	73.1
2/19/2020	0.607	86.0
5/27/2020	0.851	76.8
9/4/2020	0.994	67.3
10/28/2020	1.64	61.3
2/23/2021	3.43	100
6/9/2021	1.57	55.1
8/24/2021	0.793	69.3
12/1/2021	0.978	93.7
3/9/2022	1.8	70.3

Date	Nitrate (mg/l)	Date	Chloride (mg/l)
6/22/2005	12.4	6/22/2005	125
9/22/2005	12.8	9/22/2005	125
12/14/2005	13.6	12/14/2005	128
3/22/2006	13.8	3/22/2006	125
6/21/2006	14.5	6/21/2006	124
9/13/2006	14.1	9/13/2006	118
10/25/2006	14.6	10/25/2006	124
3/15/2007	14.4	3/15/2007	125
8/22/2007	14.6	8/22/2007	126
10/24/2007	14.9	10/24/2007	122
3/19/2008	14.8	3/19/2008	118
6/3/2008	18.7	6/3/2008	125
8/4/2008	17.3	8/4/2008	121
11/5/2008	15.6	11/5/2008	162
2/3/2009	15.3	2/3/2009	113
5/13/2009	15.1	5/13/2009	122
8/24/2009	20.9	8/24/2009	118
10/14/2009	15.0	10/14/2009	129
1/20/2010	15.4	1/20/2010	106
2/9/2010	16.1	2/9/2010	127
4/27/2010	15.8	4/27/2010	97
5/24/2010	17.0	9/14/2010	111
6/15/2010	15.3	11/9/2010	126
8/24/2010	16.0	2/1/2011	134
9/14/2010	15.0	4/11/2011	134
10/19/2010	15.0	5/10/2011	128
11/9/2010	15.0	6/20/2011	127
12/14/2010	16.0	7/5/2011	127
1/10/2011	15.0	8/3/2011	126
2/1/2011	16.0	9/7/2011	145
3/14/2011	17.0	10/4/2011	129
4/11/2011	16.0	11/8/2011	122
5/10/2011	16.0	12/12/2011	124
6/20/2011	17.0	1/24/2012	124
7/5/2011	17.0	2/14/2012	126
8/3/2011	14.0	3/14/2012	128
9/7/2011	16.0	4/10/2012	128
10/4/2011	16.0	5/2/2012	124
11/8/2011	16.0	6/18/2012	131
12/12/2011	16.0	7/10/2012	128
1/24/2012	17.0	8/7/2012	139
2/14/2012	17.0	9/19/2012	130

10100 50			
Date	Nitrate (mg/l)	Date	Chloride (mg/l)
3/14/2012	18.0	10/23/2012	135
4/10/2012	17.0	11/13/2012	114
5/2/2012	16.0	12/26/2012	122
6/18/2012	15.0	1/23/2013	128
7/10/2012	17.0	2/26/2013	129
8/7/2012	18.0	3/20/2013	126
9/19/2012	16.0	4/17/2013	117
10/23/2012	16.2	5/15/2013	119
11/13/2012	18.5	6/25/2013	127
12/26/2012	17.2	7/10/2013	130
1/23/2013	19.2	8/20/2013	126
2/26/2013	21.4	9/18/2013	131
3/20/2013	14.3	10/22/2013	128
4/17/2013	16.8	11/20/2013	124
5/15/2013	18.8	12/18/2013	134
6/25/2013	16.1	1/8/2014	131
7/10/2013	17.6	2/25/2014	135
8/20/2013	16.4	3/11/2014	144
9/18/2013	16.9	4/23/2014	154
10/22/2013	19.7	5/14/2014	128
11/20/2013	19.5	6/3/2014	128
12/18/2013	20.7	7/29/2014	140
1/8/2014	20.3	8/20/2014	139
2/25/2014	18.4	9/9/2014	136
3/11/2014	21.3	10/7/2014	136
4/23/2014	18.3	11/10/2014	154
5/14/2014	17.9	12/10/2014	138
6/3/2014	19.4	1/21/2015	144
7/29/2014	15.6	2/4/2015	136
8/20/2014	13.8	3/3/2015	132
9/9/2014	16.8	4/8/2015	142
10/7/2014	11.0	5/12/2015	145
11/10/2014	16.2	6/24/2015	142
12/10/2014	17.1	7/7/2015	145
1/21/2015	19.5	8/11/2015	165
2/4/2015	14.9	9/15/2015	165
3/3/2015	17.3	10/7/2015	137
4/8/2015	17.0	11/11/2015	140
5/12/2015	16.1	12/9/2015	144
6/24/2015	15.8	1/20/2016	143
7/7/2015	15.3	2/10/2016	145
8/11/2015	17.9	3/2/2016	142

Date	Nitrate (mg/l)	Date	Chloride (mg/l)	
9/15/2015	17.3	4/13/2016	144	
10/7/2015	19.1	5/4/2016	139	
11/11/2015	16.3	6/14/2016	142	
12/9/2015	18.2	7/13/2016	137	
1/20/2016	14.6	8/18/2016	150	
2/10/2016	20.0	9/14/2016	146	
3/2/2016	17.8	10/5/2016	148	
4/13/2016	18.0	11/3/2016	143	
5/4/2016	17.3	12/6/2016	158	
6/14/2016	18.5	1/18/2017	150	
7/13/2016	16.1	2/2/2017	150	
8/18/2016	18.0	3/6/2017	250	
9/14/2016	17.0	4/5/2017	146	
10/5/2016	17.2	5/2/2017	146	
11/3/2016	18.0	6/5/2017	153	
12/6/2016	18.2	7/11/2017	160	
1/18/2017	19.0	8/14/2017	173	
2/2/2017	17.4	9/12/2017	149	
3/6/2017	20.4	10/5/2017	153	
4/5/2017	18.3	11/1/2017	156	
5/2/2017	17.5	12/6/2017	159	
6/5/2017	18.8	1/23/2018	152	
7/11/2017	16.2	2/22/2018	158	
8/14/2017	19.2	3/8/2018	167	
9/12/2017	18.7	4/12/2018	145	
10/5/2017	18.8	5/15/2018	174	
11/1/2017	17.4	6/19/2018	169	
12/6/2017	18.3	7/24/2018	177	
1/23/2018	15.2	8/10/2018	170	
2/22/2018	17.6	9/11/2018	183	
3/8/2018	17.0	10/22/2018	140	
4/12/2018	17.3	11/14/2018	166	
5/15/2018	17.7	12/11/2018	154	
6/19/2018	16.9	1/16/2019	157	
7/24/2018	17.4	2/13/2019	167	
8/10/2018	18.7	3/6/2019	160	
9/11/2018	18.0	4/9/2019	138	
10/22/2018	17.3	5/7/2019	175	
11/14/2018	16.9	6/3/2019	165	
12/11/2018	17.2	7/16/2019	181	
1/16/2019	17.9	8/6/2019	190	
2/13/2019	18.2	9/24/2019	176	

N	1	N	-3	0
		•••	-	~

IVI W-30				
Date	Nitrate (mg/l)	Date	Chloride (mg/l)	
3/6/2019	16.2	10/8/2019	170	
4/9/2019	18.5	11/13/2019	180	
5/7/2019	17.9	12/4/2019	185	
6/3/2019	15.8	1/15/2020	182	
7/16/2019	19.3	2/5/2020	187	
8/6/2019	15.8	3/11/2020	182	
9/24/2019	17.9	4/6/2020	195	
10/8/2019	18.2	5/6/2020	177	
11/13/2019	17.2	6/3/2020	180	
12/4/2019	17.8	7/6/2020	185	
1/15/2020	16.4	8/11/2020	183	
2/5/2020	17.8	9/1/2020	166	
3/11/2020	19.0	10/13/2020	183	
4/6/2020	18.1	11/17/2020	150	
5/6/2020	18.6	12/8/2020	166	
6/3/2020	18.3	1/11/2021	184	
7/6/2020	18.4	2/10/2021	189	
8/11/2020	21.1	3/9/2021	192	
9/1/2020	18.3	4/14/2021	162	
10/13/2020	16.8	5/11/2021	188	
11/17/2020	13.4	6/8/2021	170	
12/8/2020	12.0	7/29/2021	188	
1/11/2021	17.7	8/9/2021	161	
2/10/2021	14.3	9/8/2021	183	
3/9/2021	17.0	10/19/2021	182	
4/14/2021	17.7	11/17/2021	182	
5/11/2021	18.6	12/14/2021	184	
6/8/2021	17.0	1/17/2022	181	
7/29/2021	20.6	2/9/2022	184	
8/9/2021	16.5	3/7/2022	196	
9/8/2021	15.4			
10/19/2021	14.3			
11/17/2021	18.0			
12/14/2021	18.6			
1/17/2022	14.5			
2/9/2022	13.6			
3/7/2022	16.6			

MW-30			
Date	Nitrate (mg/l)	Date	Chloride (mg/l)

Under the groundwater sampling program, accelerated monitoring for nitrate began in MW-30 prior to when the accelerated monitoring for chloride began. This difference accounts for the different number of data points represented above.

Date	Nitrate (mg/l)	Date	Chloride (mg/l)
6/22/2005	24.2	6/22/2005	139
9/22/2005	22.4	9/22/2005	136
12/14/2005	23.8	12/14/2005	135
3/22/2006	24.1	3/22/2006	133
6/21/2006	25.3	6/21/2006	138
9/13/2006	24.6	9/13/2006	131
10/25/2006	25.1	10/25/2006	127
3/15/2007	23.2	3/15/2007	132
3/15/2007	22.0	3/15/2007	132
8/27/2007	23.3	8/27/2007	136
10/24/2007	24.6	10/24/2007	122
3/19/2008	25.0	3/19/2008	124
6/3/2008	29.3	6/3/2008	128
8/4/2008	28.7	8/4/2008	124
11/11/2008	29.9	11/11/2008	119
2/3/2009	23.4	2/3/2009	115
5/13/2009	22.4	5/13/2009	124
8/24/2009	15.4	8/24/2009	122
10/14/2009	22.6	10/14/2009	138
2/9/2010	21.7	2/9/2010	128
4/20/2010	22.5	4/20/2010	128
5/21/2010	23.0	9/13/2010	139
6/15/2010	21.1	11/9/2010	138
8/24/2010	22.0	2/1/2011	145
9/13/2010	21.0	4/1/2011	143
10/19/2010	20.0	5/10/2011	143
11/9/2010	20.0	6/20/2011	145
12/14/2010	20.0	7/5/2011	148
1/10/2011	19.0	8/2/2011	148
2/1/2011	21.0	9/6/2011	148
3/14/2011	22.0	10/3/2011	145
4/1/2011	21.0	11/8/2011	145
5/10/2011	20.0	12/12/2011	148
6/20/2011	22.0	1/24/2012	155
7/5/2011	22.0	2/13/2012	150
8/2/2011	20.0	3/13/2012	152
9/6/2011	21.0	4/9/2012	160
10/3/2011	21.0	5/2/2012	151
11/8/2011	21.0	6/18/2012	138
12/12/2011	21.0	7/9/2012	161
1/24/2012	21.0	8/6/2012	175
2/13/2012	21.0	9/18/2012	172

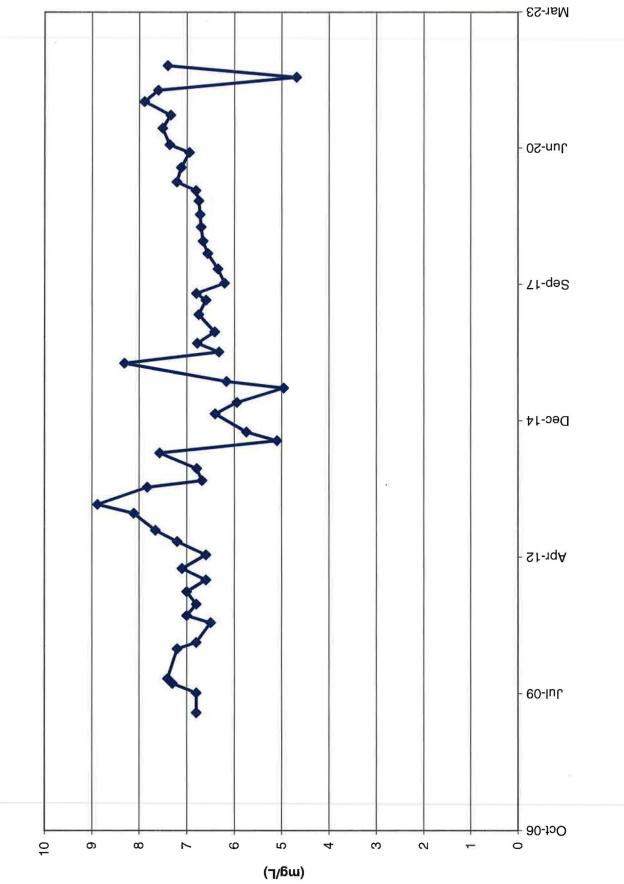
10100-31			
Date	Nitrate (mg/l)	Date	Chloride (mg/l)
3/13/2012	22.0	10/22/2012	157
4/9/2012	21.0	11/6/2012	189
5/2/2012	20.0	12/18/2012	170
6/18/2012	21.6	1/22/2013	176
7/9/2012	21.0	2/19/2013	174
8/6/2012	21.0	3/19/2013	168
9/18/2012	21.0	4/16/2013	171
10/22/2012	18.0	5/13/2013	169
11/6/2012	23.6	6/24/2013	179
12/18/2012	22.2	7/9/2013	182
1/22/2013	22.8	8/19/2013	183
2/19/2013	19.3	9/17/2013	193
3/19/2013	19.1	10/23/2013	188
4/16/2013	18.8	11/18/2013	174
5/13/2013	23.8	12/17/2013	203
6/24/2013	20.0	1/7/2014	194
7/9/2013	21.7	2/17/2014	197
8/19/2013	16.0	3/10/2014	230
9/17/2013	21.2	4/28/2014	230
10/23/2013	21.2	5/13/2014	200
11/18/2013	23.9	6/2/2014	173
12/17/2013	24.2	7/28/2014	200
1/7/2014	24.0	8/18/2014	210
2/17/2014	20.6	9/3/2014	210
3/10/2014	26.2	10/6/2014	205
4/28/2014	19.1	11/4/2014	204
5/13/2014	23.3	12/9/2014	215
6/2/2014	23.1	1/20/2015	226
7/28/2014	19.0	2/2/2015	211
8/18/2014	15.2	3/3/2015	209
9/3/2014	18.9	4/7/2015	211
10/6/2014	15.9	5/11/2015	225
11/4/2014	20.9	6/23/2015	228
12/9/2014	17.0	7/6/2015	222
1/20/2015	20.9	8/10/2015	264
2/2/2015	18.7	9/15/2015	231
3/3/2015	19.8	10/6/2015	222
4/7/2015	19.0	11/9/2015	215
5/11/2015	18.4	12/8/2015	231
6/23/2015	18.0	1/19/2016	228
7/6/2015	18.8	2/15/2016	246
8/10/2015	19.9	3/2/2016	228
a 2		10 10 N	

TC-ANIA			
Date	Nitrate (mg/l)	Date	Chloride (mg/l)
9/15/2015	18.9	4/12/2016	254
10/6/2015	22.0	5/3/2016	243
11/9/2015	18.4	6/15/2016	252
12/8/2015	19.5	7/12/2016	241
1/19/2016	18.9	8/16/2016	272
2/15/2016	18.8	9/13/2016	254
3/2/2016	18.0	10/4/2016	260
4/12/2016	22.8	11/1/2016	267
5/3/2016	18.6	12/5/2016	274
6/15/2016	19.2	1/17/2017	287
7/12/2016	17.4	2/7/2017	266
8/16/2016	19.7	3/6/2017	250
9/13/2016	18.6	4/4/2017	263
10/4/2016	18.8	5/1/2017	263
11/1/2016	19.8	6/5/2017	278
12/5/2016	18.5	7/11/2017	254
1/17/2017	20.9	8/14/2017	310
2/7/2017	21.1	9/11/2017	248
3/6/2017	20.4	10/2/2017	287
4/4/2017	19.5	11/1/2017	292
5/1/2017	18.3	12/4/2017	285
6/5/2017	20.8	1/24/2018	323
7/11/2017	18.0	2/20/2018	292
8/14/2017	19.5	3/5/2018	311
9/11/2017	20.2	4/17/2018	308
10/2/2017	21.0	5/14/2018	326
11/1/2017	19.2	6/18/2018	359
12/4/2017	19.2	7/23/2018	351
1/24/2018	17.0	8/10/2018	336
2/20/2018	18.8	9/10/2018	333
3/5/2018	19.0	10/24/2018	286
4/17/2018	19.0	11/13/2018	281
5/14/2018	18.8	12/10/2018	302
6/18/2018	18.0	1/15/2019	283
7/23/2018	18.0	2/12/2019	296
8/10/2018	18.3	3/5/2019	322
9/10/2018	20.1	4/10/2019	294
10/24/2018	18.3	5/7/2019	346
11/13/2018	17.9	6/3/2019	325
12/10/2018	18.3	7/15/2019	374
1/15/2019	19.0	8/5/2019	372
2/12/2019	18.6	9/23/2019	365

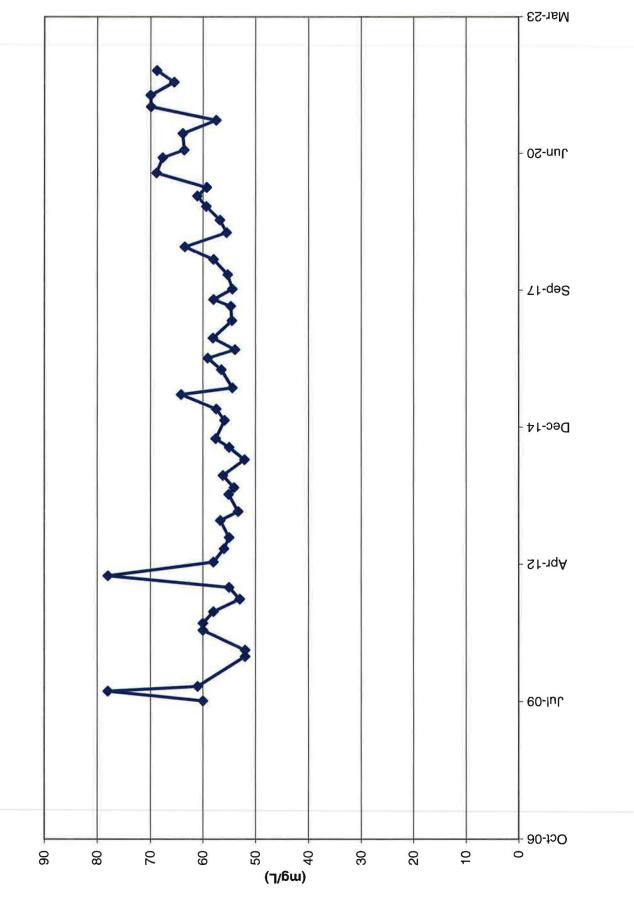
Date	Nitrate (mg/l)	Date	Chloride (mg/l)
3/5/2019	18.5	10/9/2019	318
4/10/2019	19.7	11/12/2019	338
5/7/2019	18.9	12/3/2019	343
6/3/2019	19.7	1/14/2020	381
7/15/2019	19.8	2/4/2020	370
8/5/2019	17.0	3/10/2020	368
9/23/2019	19.5	4/6/2020	376
10/9/2019	19.8	5/5/2020	361
11/12/2019	18.8	6/2/2020	377
12/3/2019	18.3	7/7/2020	370
1/14/2020	17.5	8/10/2020	368
2/4/2020	18.0	9/1/2020	367
3/10/2020	19.2	10/19/2020	345
4/6/2020	18.8	11/16/2020	251
5/5/2020	20.1	12/7/2020	311
6/2/2020	18.7	1/12/2021	354
7/7/2020	19.2	2/9/2021	380
8/10/2020	21.6	3/8/2021	388
9/1/2020	18.4	4/13/2021	377
10/19/2020	18.6	5/10/2021	384
11/16/2020	16.5	6/7/2021	374
12/7/2020	18.8	7/27/2021	391
1/12/2021	17.1	8/9/2021	365
2/9/2021	14.3	9/7/2021	356
3/8/2021	17.4	10/19/2021	371
4/13/2021	18.6	11/15/2021	366
5/10/2021	18.9	12/13/2021	376
6/7/2021	20.6	1/19/2022	370
7/27/2021	18.7	2/8/2022	379
8/9/2021	15.7	3/7/2022	416
9/7/2021	16.0		
10/19/2021	18.1		
11/15/2021	19.3		
12/13/2021	17.9		
1/19/2022	18.0		
2/8/2022	13.5		
3/7/2022	17.0		

Date Nitrate (mg/l) Date Chloride (mg/l) Under the groundwater sampling progran, accelerated monitoring for nitrate began in MW-31 prior to when the accelerated monitoring for chloride began. This difference accounts for the different number of data points represented above. Tab K

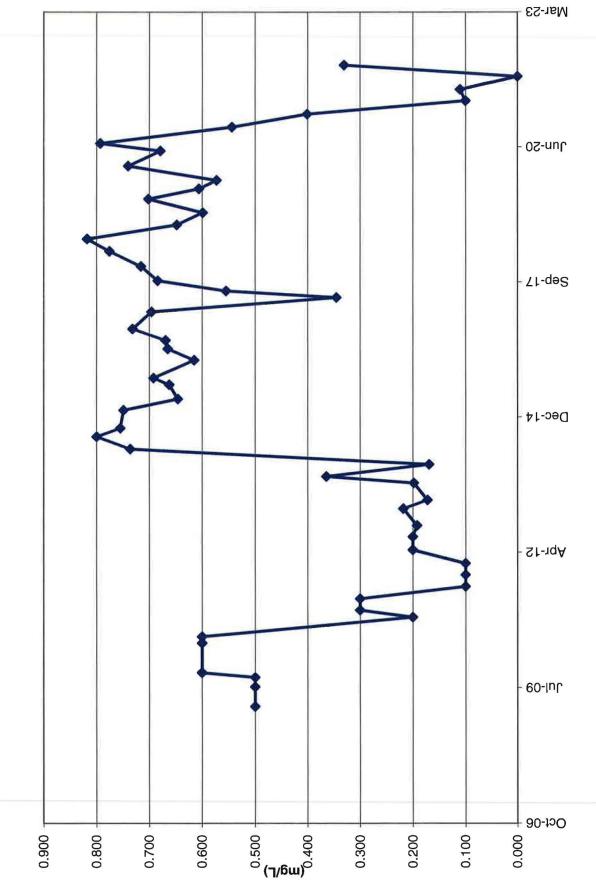
Concentration Trend Graphs



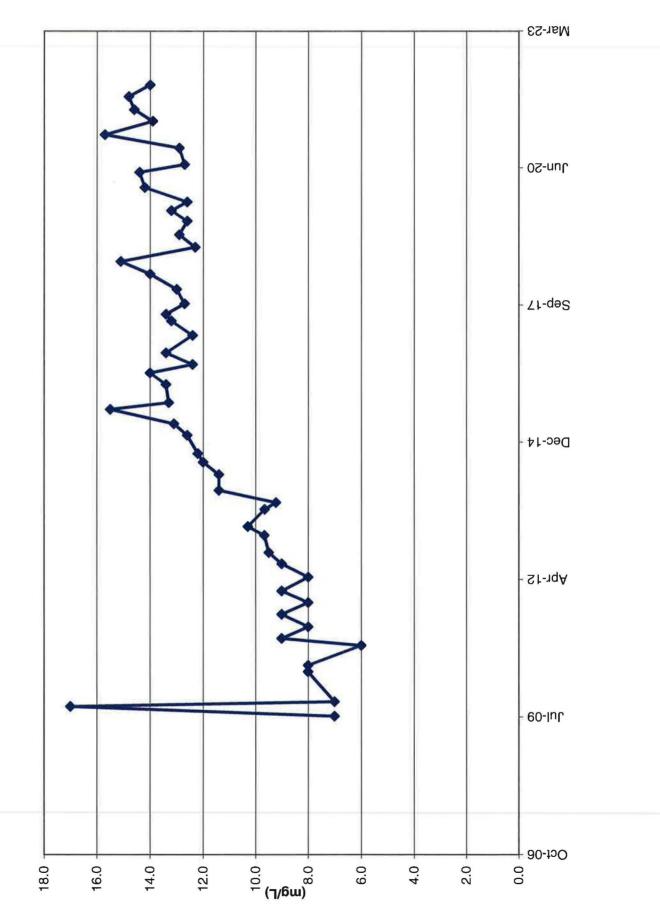
Piezometer 1 Nitrate Concentrations



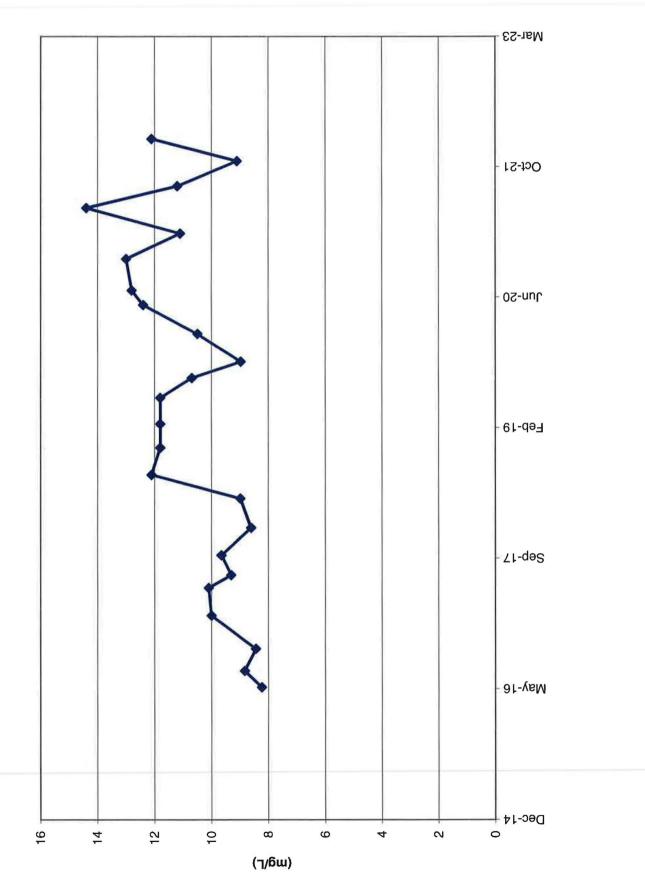
Piezometer 1 Chloride Concentrations



Piezometer 2 Nitrate Concentrations

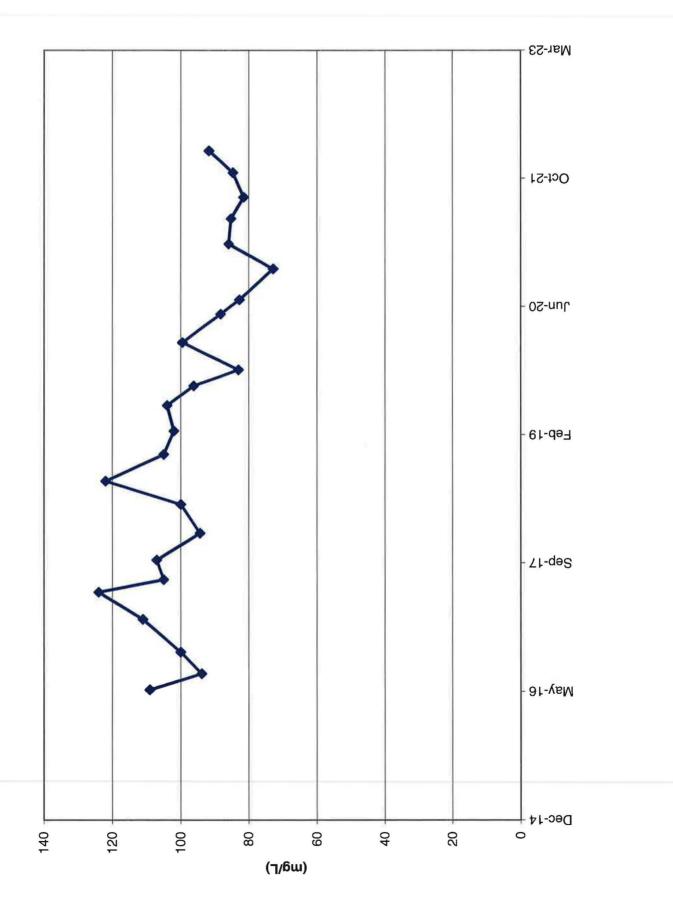


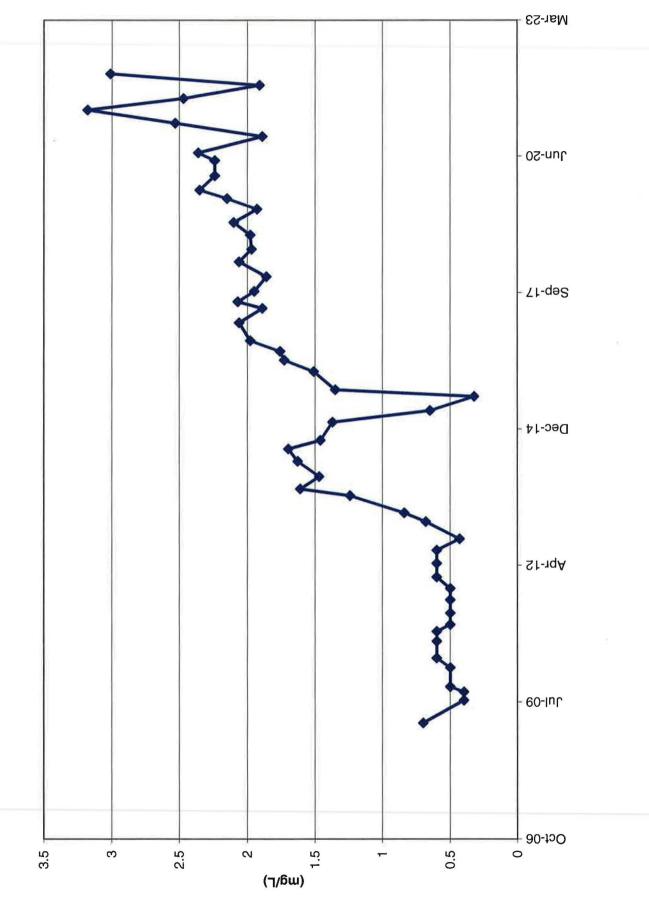
Piezometer 2 Chloride Concentrations



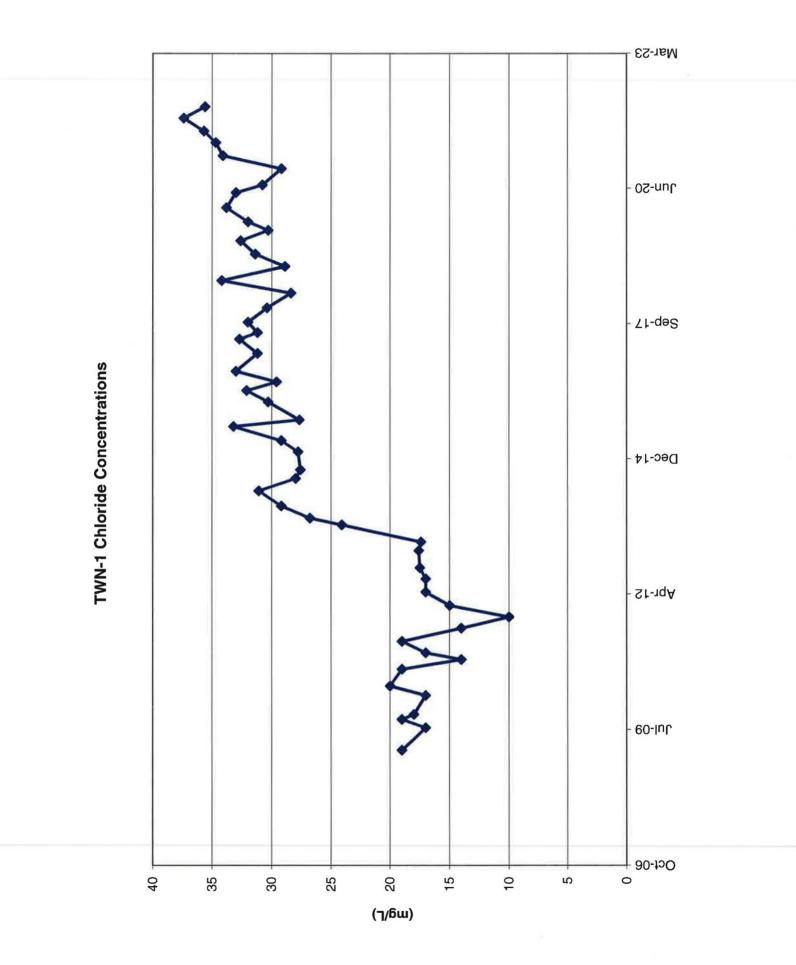
Piezometer 3A Nitrate Concentrations

Piezometer 3A Chloride Concentrations

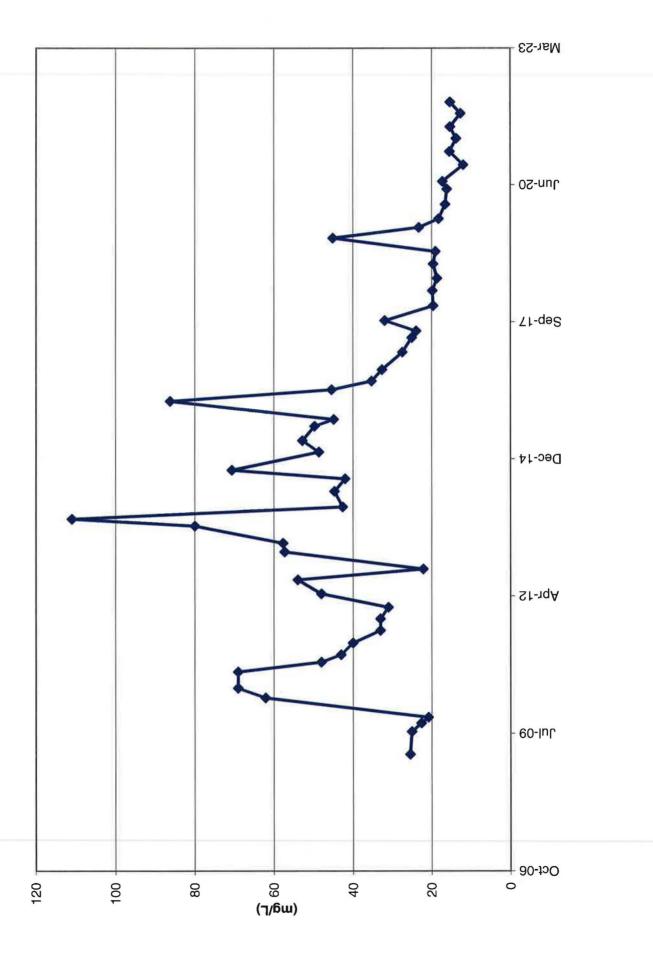


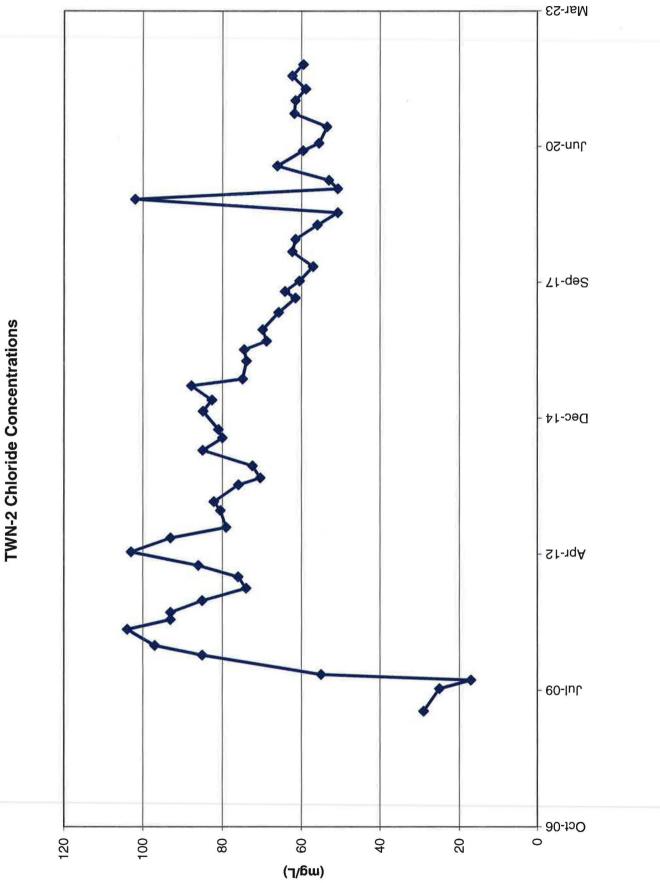


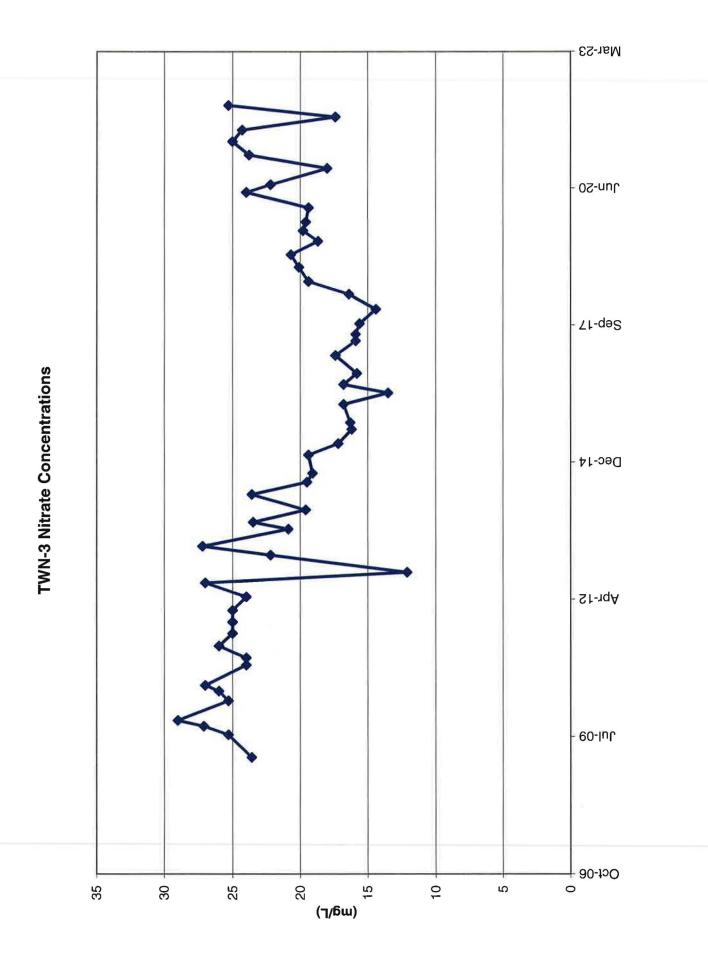
TWN-1 Nitrate Concentrations

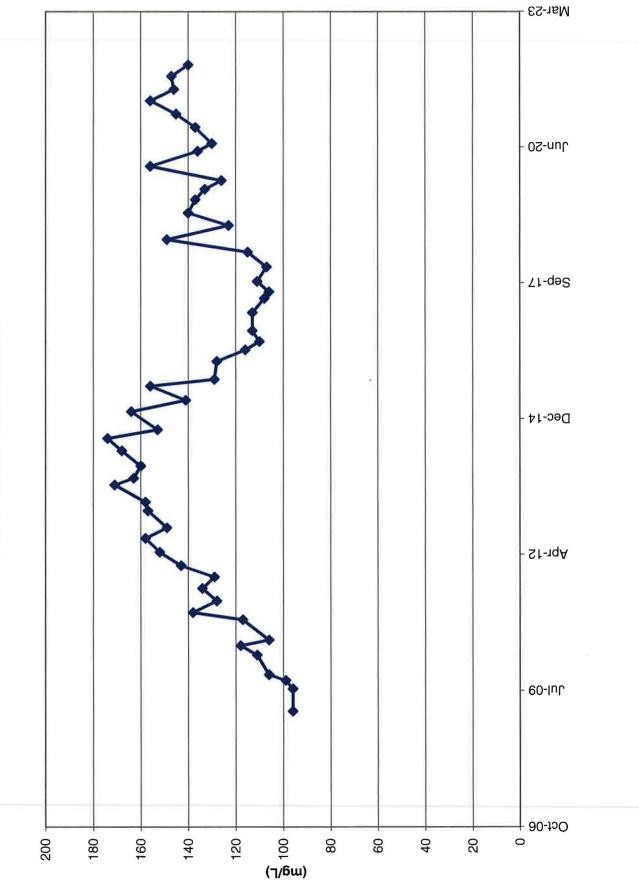




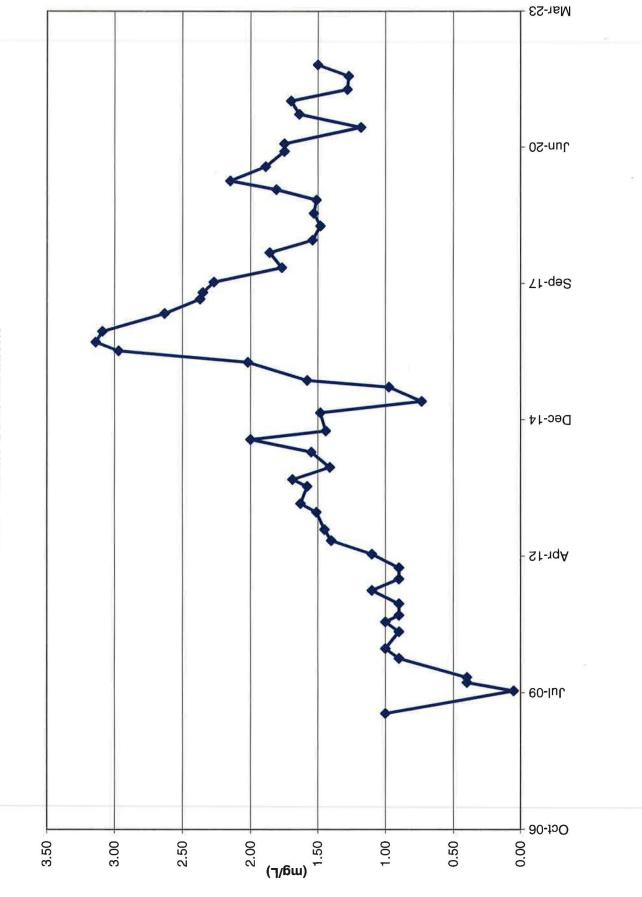




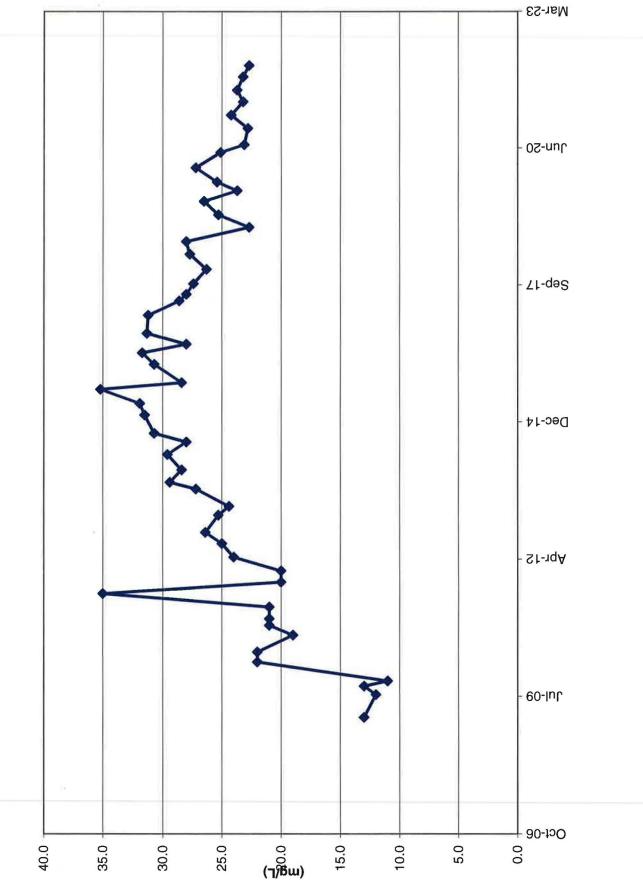




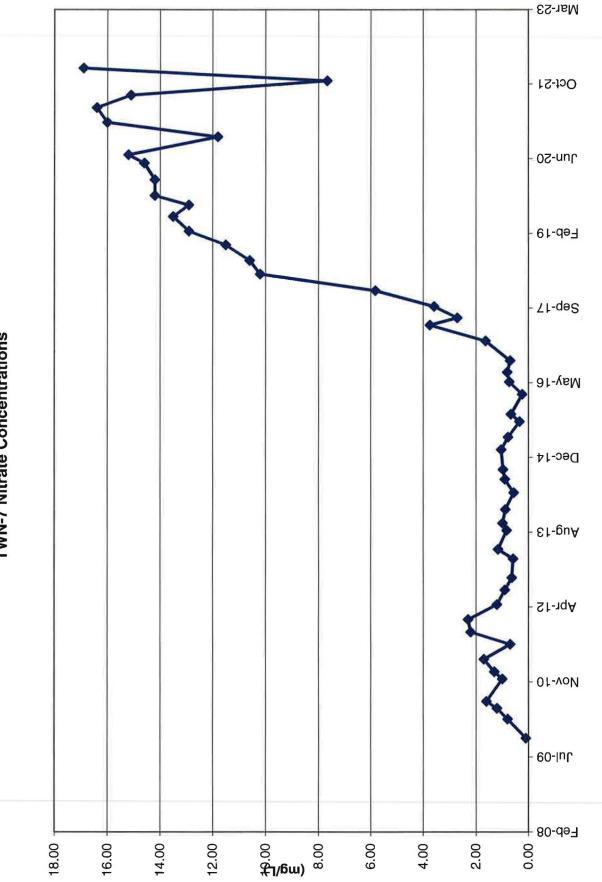
TWN-3 Chloride Concentrations



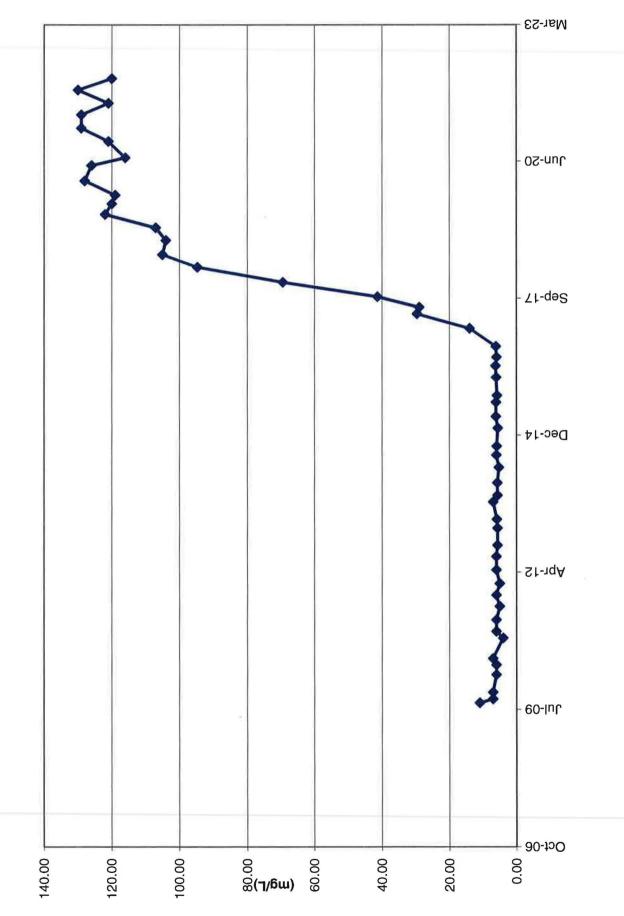
TWN-4 Nitrate Concentrations



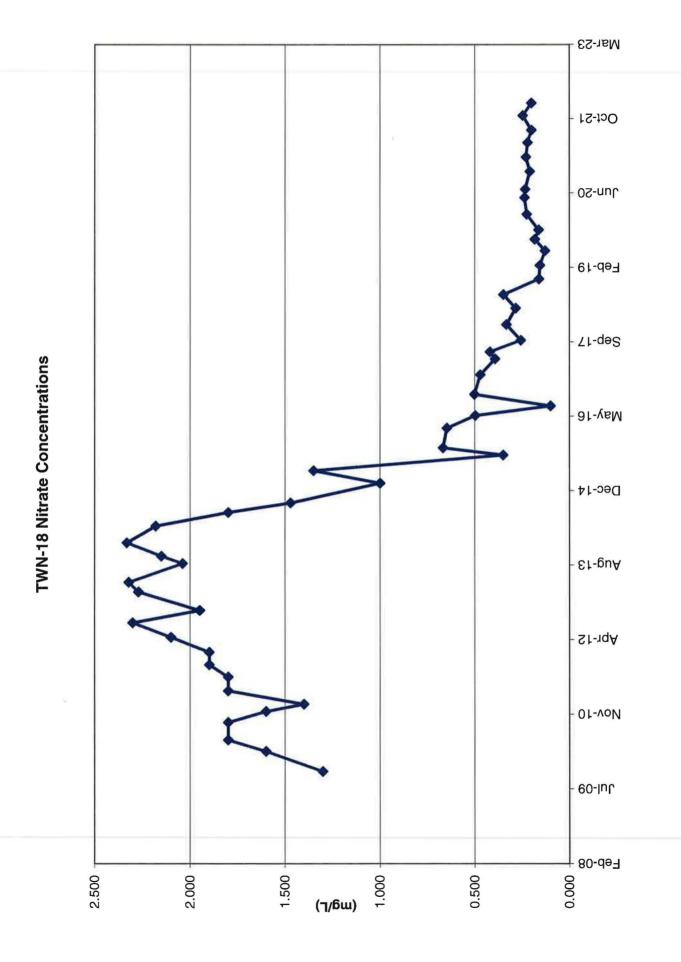
TWN-4 Chloride Concentrations

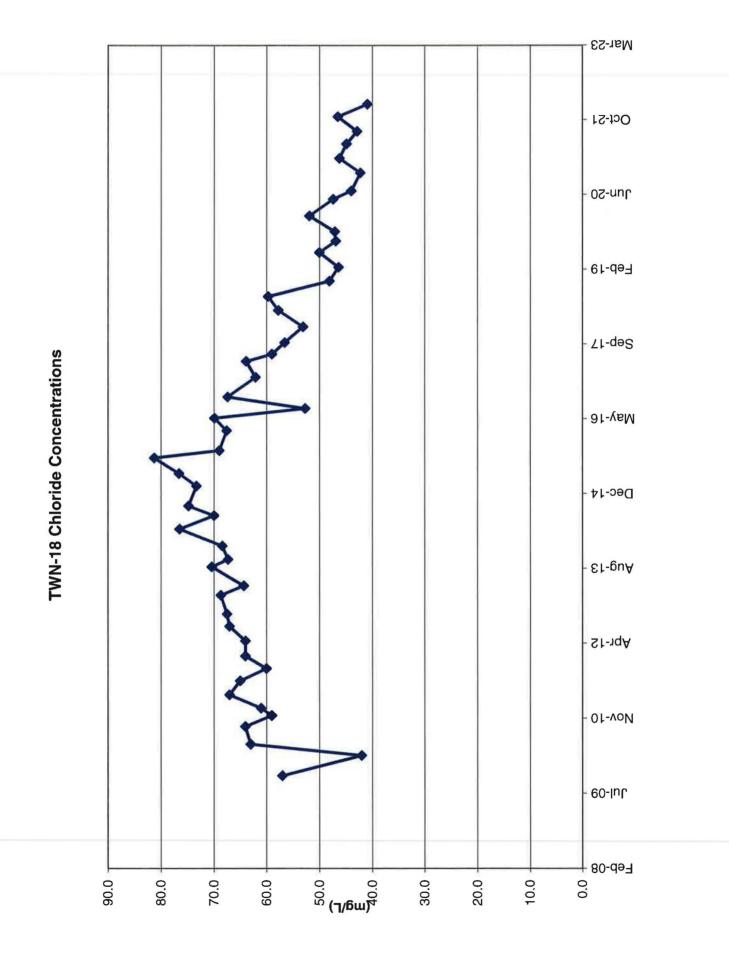


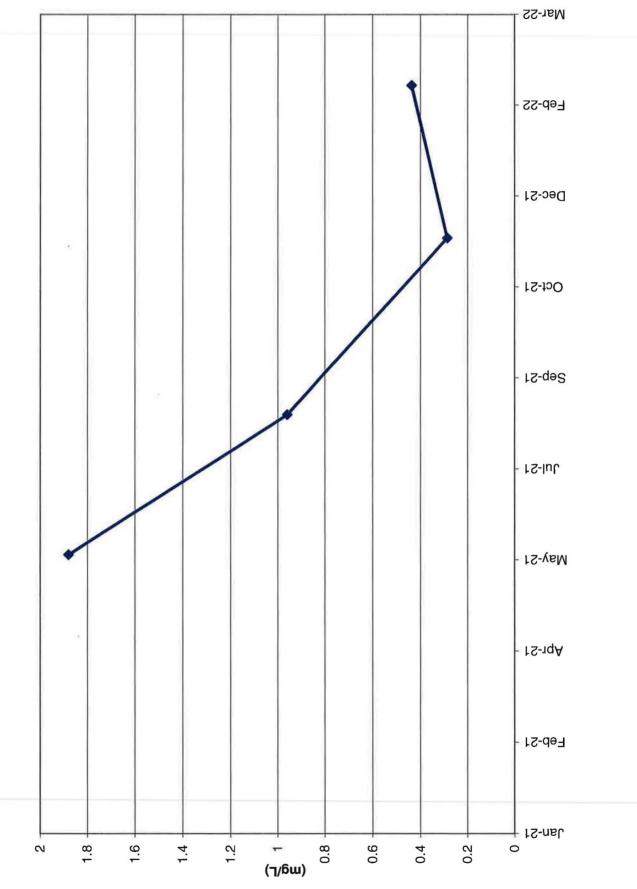
TWN-7 Nitrate Concentrations



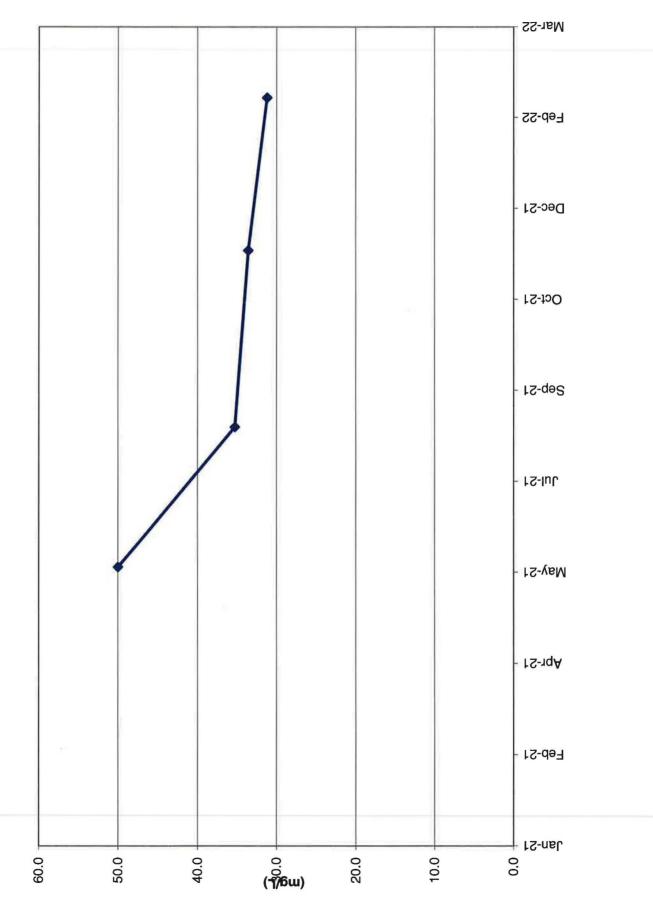
TWN-7 Chloride Concentrations



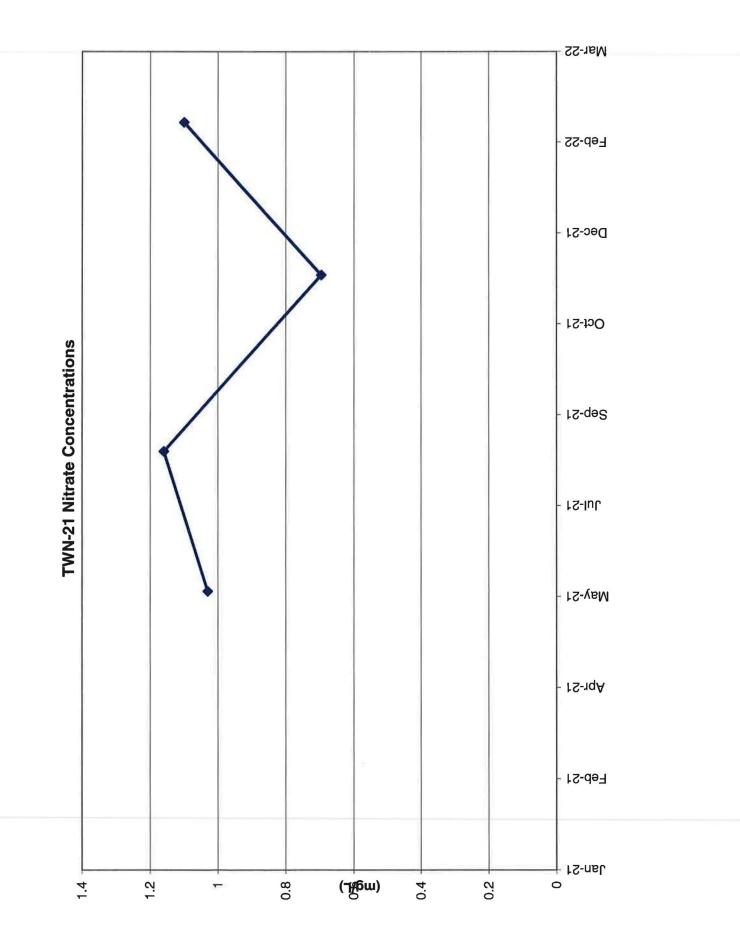


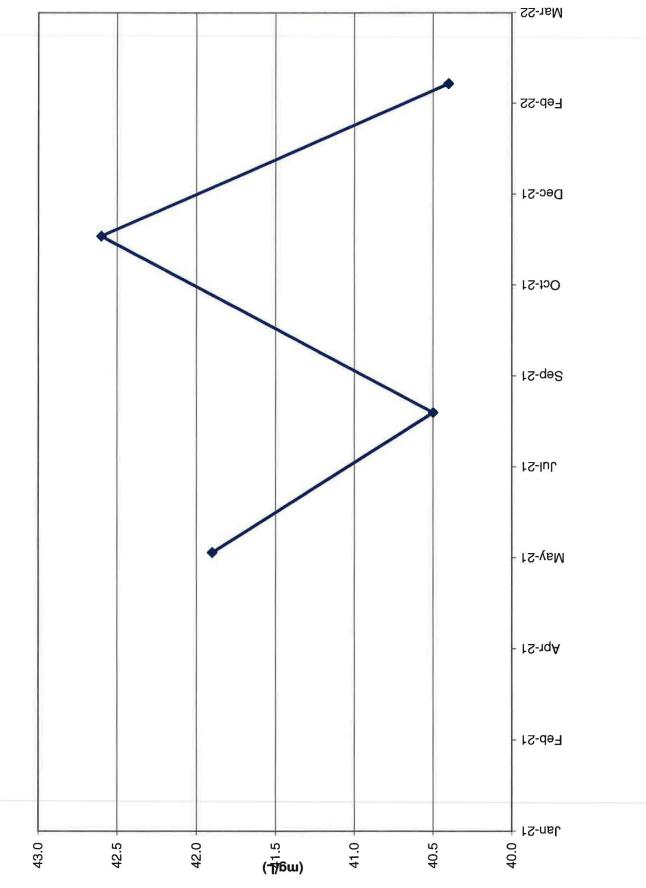


TWN-20 Nitrate Concentrations

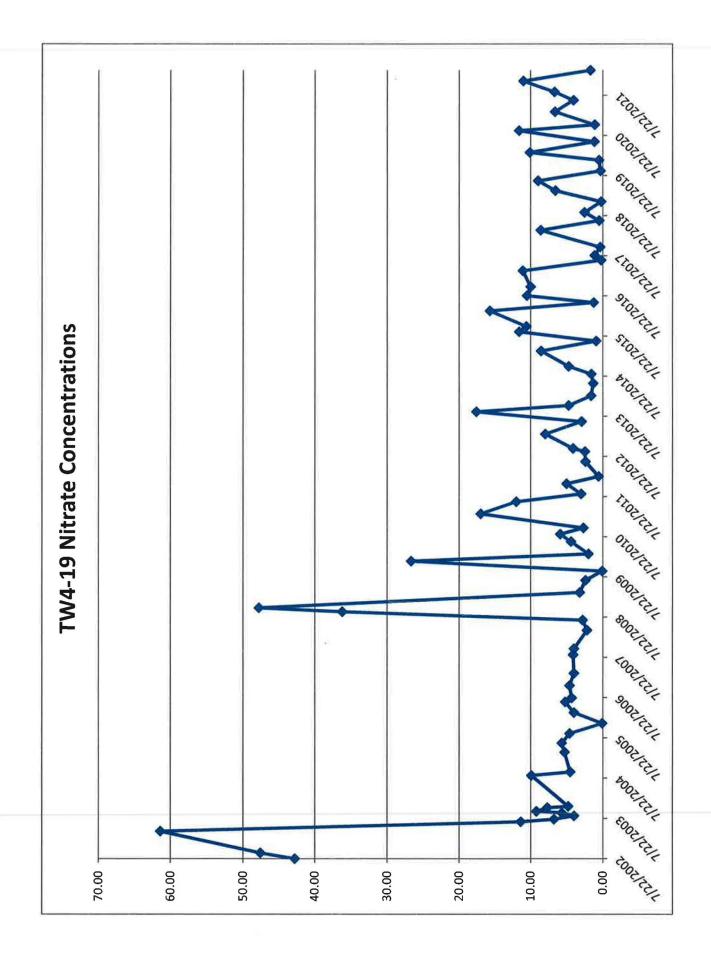


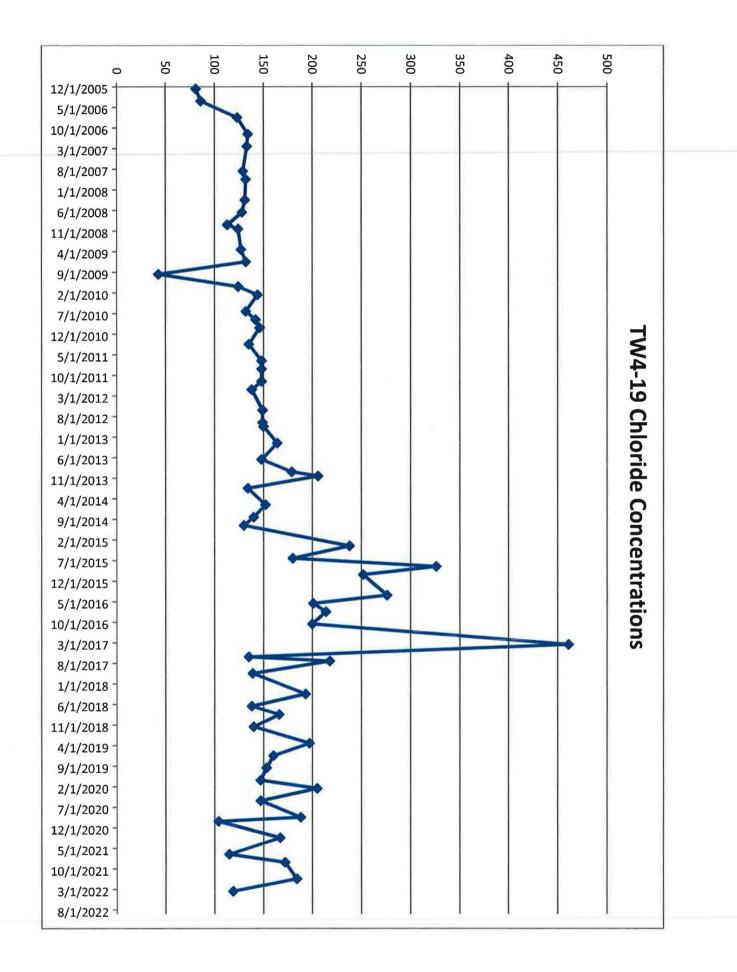
TWN-20 Chloride Concentrations

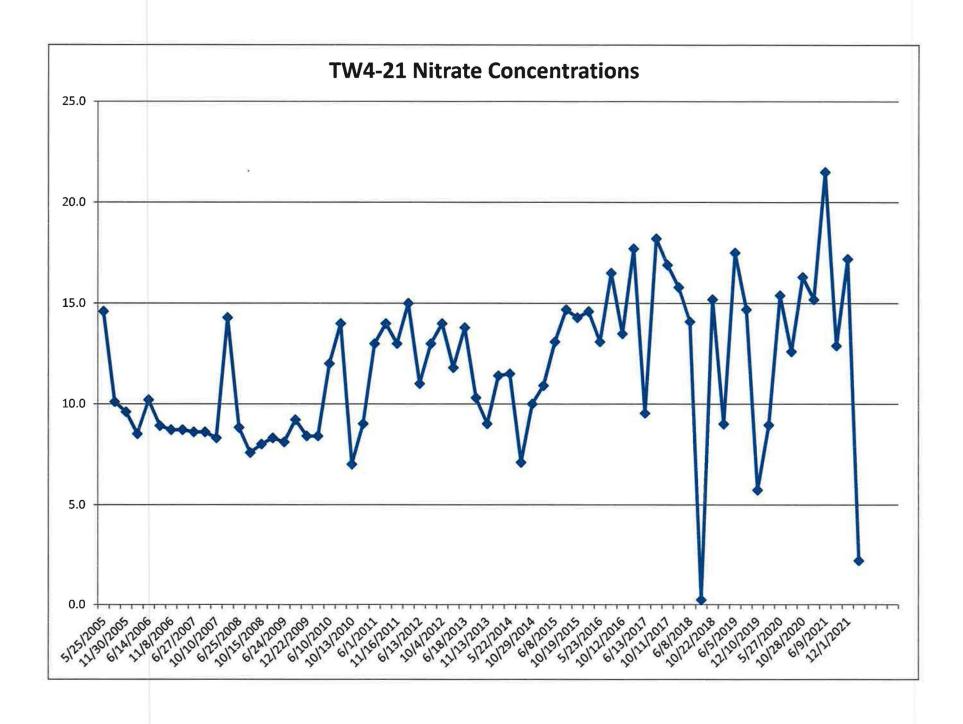


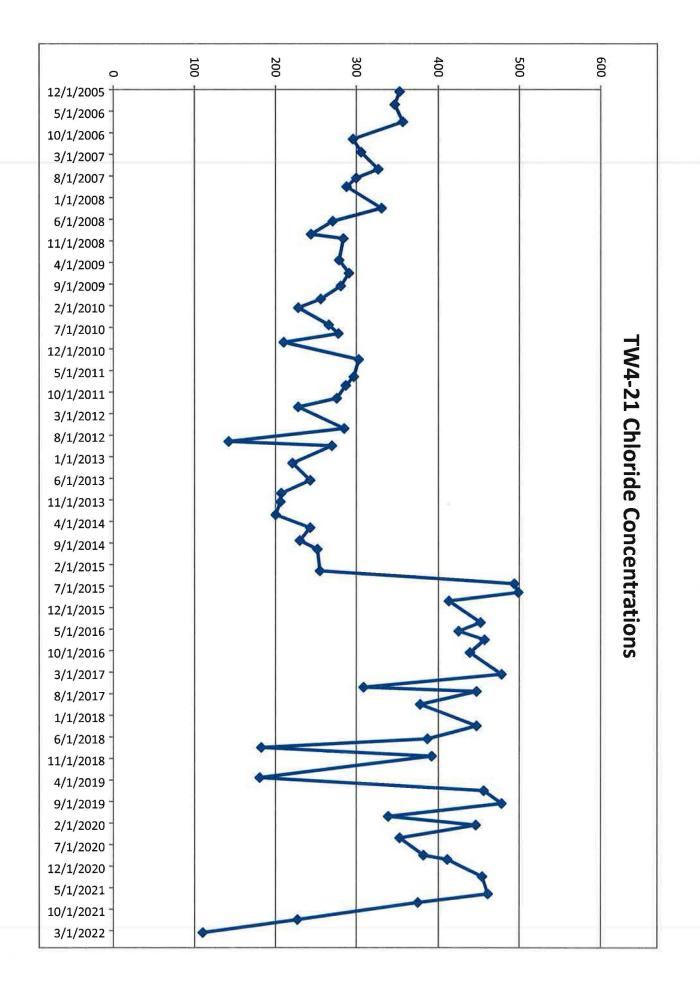


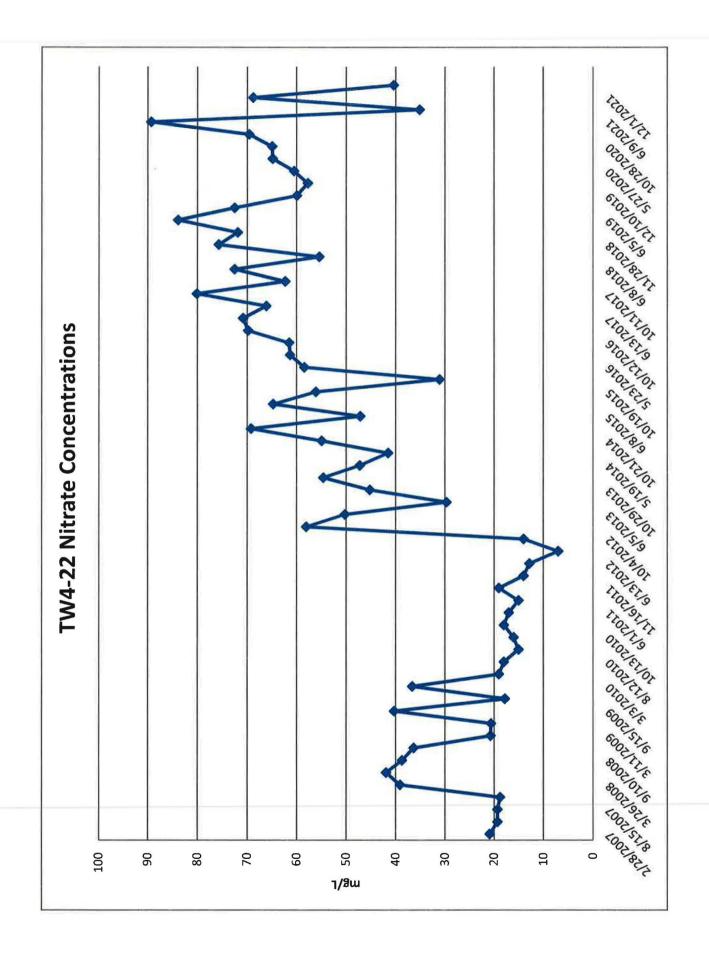
TWN-21 Chloride Concentrations

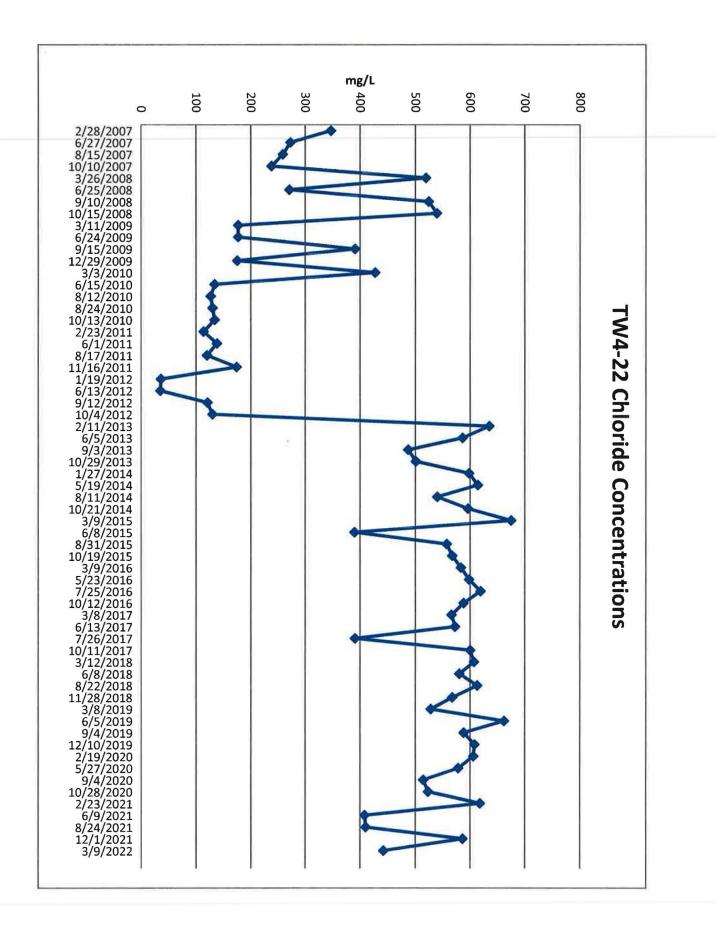


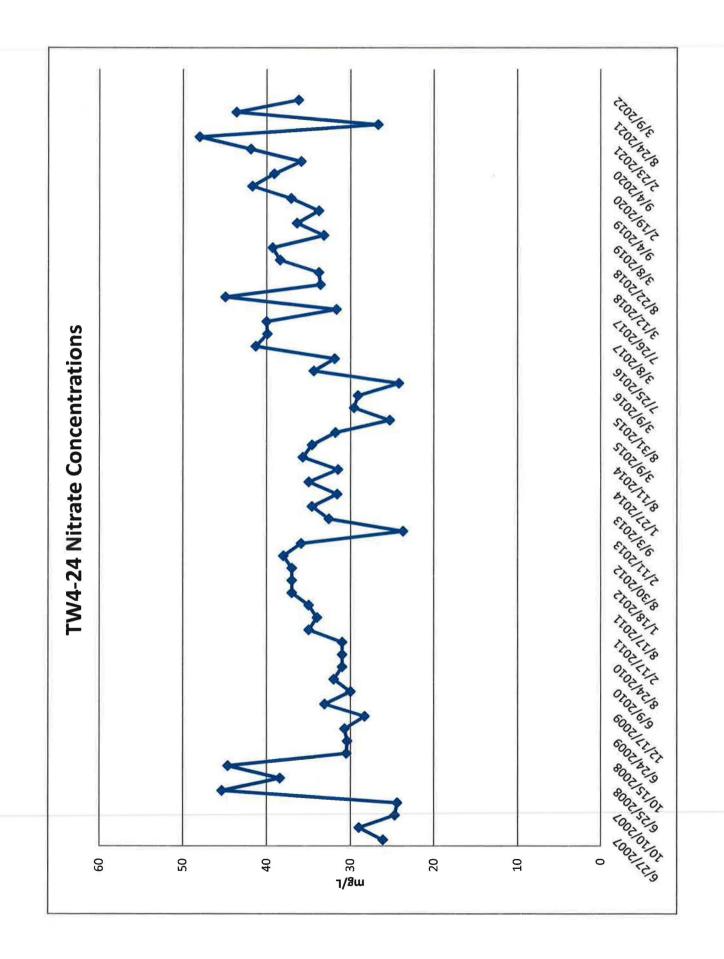


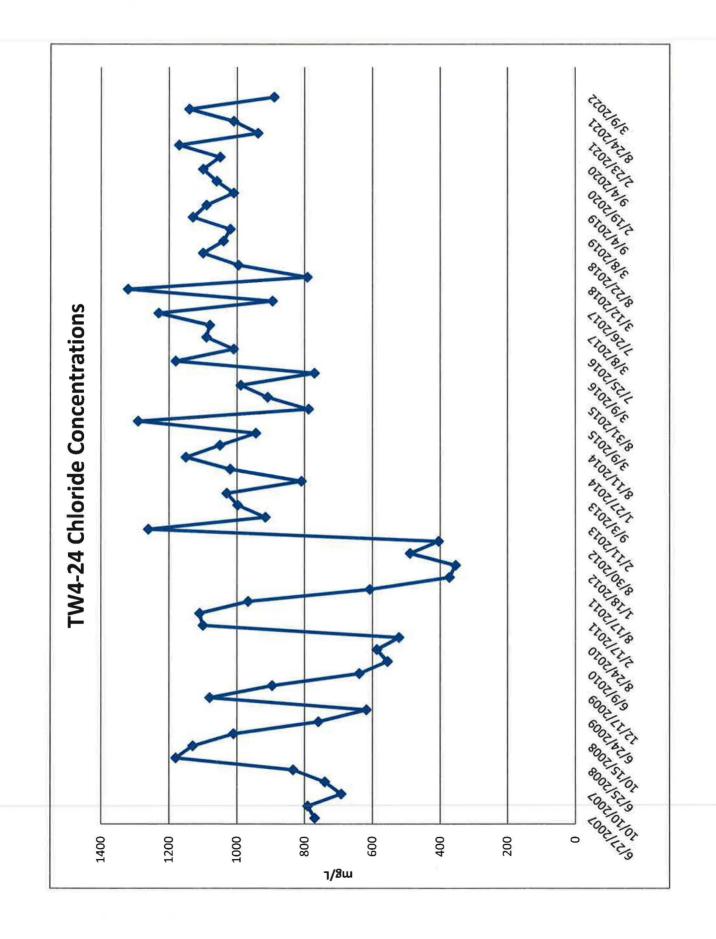


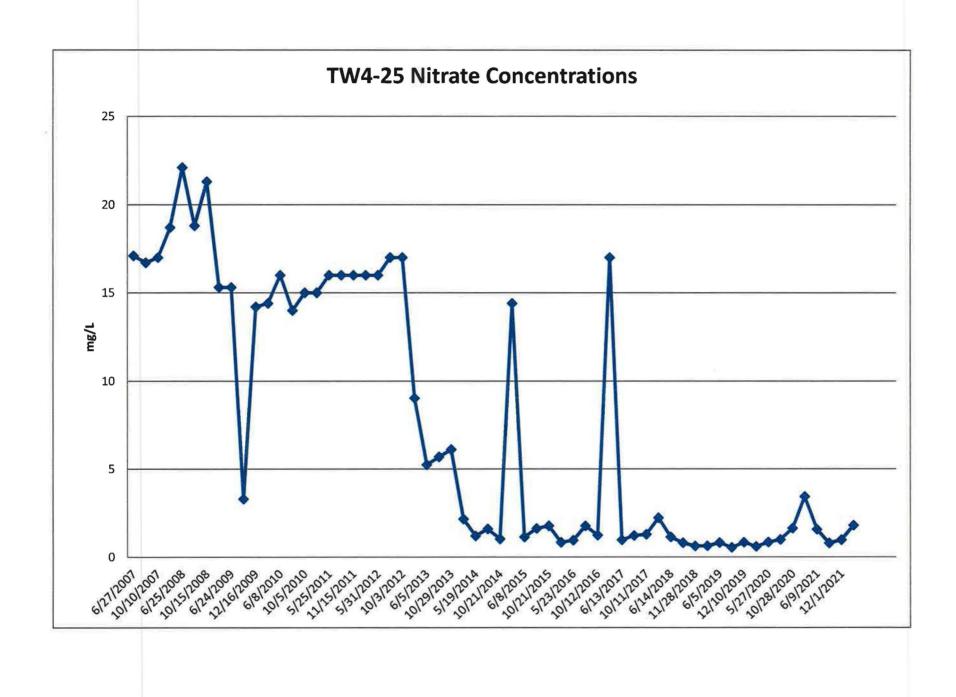


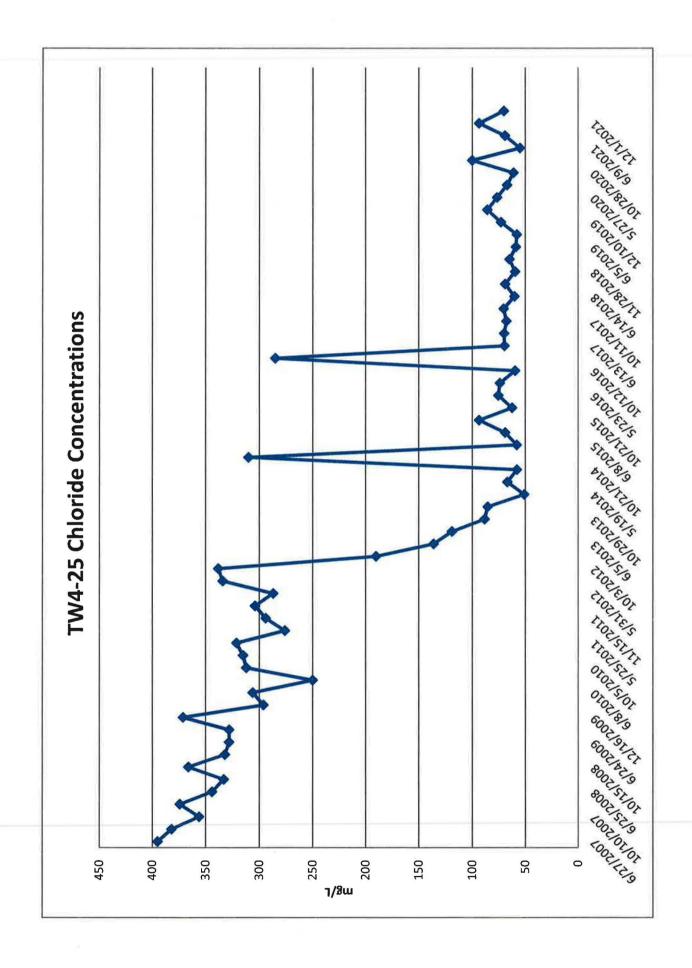


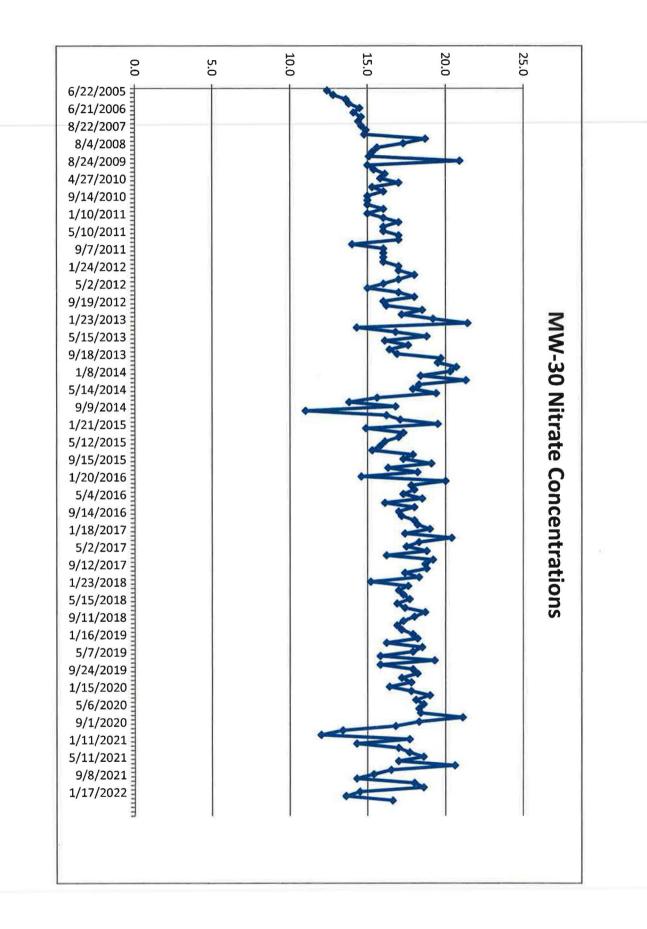


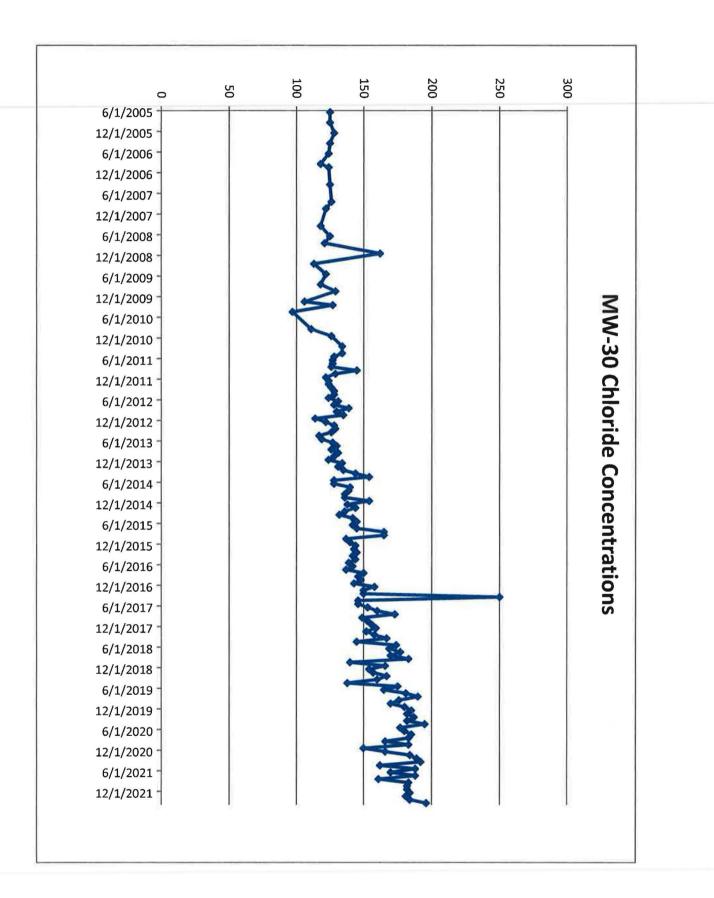


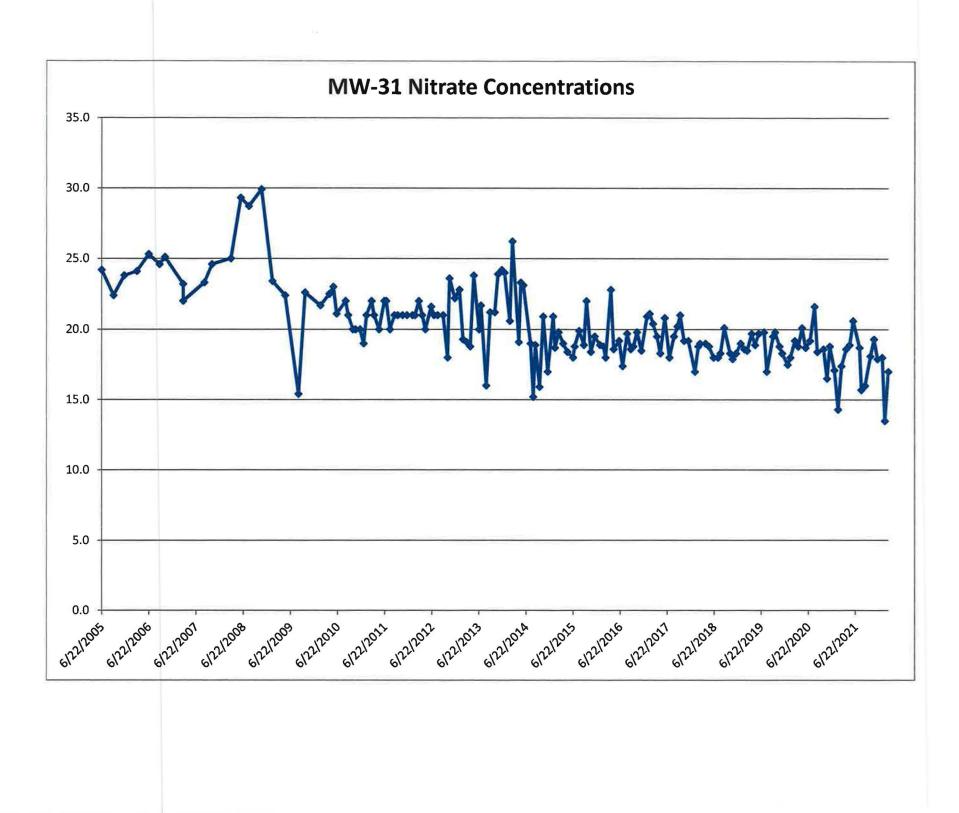












0	50	100	150	200	250	300	350	400	450
6/1/2005	1		1	-1			Î		_
11/1/2005 -			I						
4/1/2006 -			1						
9/1/2006 -									
2/1/2007 -			¥ I						
7/1/2007 -			1						
12/1/2007 -									
5/1/2008 -					1				
10/1/2008 -		1							
3/1/2009 -									
8/1/2009 -			5						
1/1/2010 -		1							
6/1/2010 -									\leq
11/1/2010 -			3						Σ
4/1/2011 -					ŝ				MW-31 Chloride Concentrations
9/1/2011 -			1						4
2/1/2012 -			2						· 우
7/1/2012 -			45					2	b
12/1/2012 -			3	-					i.
5/1/2013 -			2						de
10/1/2013 -				2					0
3/1/2014 -					*				9
8/1/2014 -									
1/1/2015 -				2					n
6/1/2015 -				2					t
11/1/2015 -				-					ti
4/1/2016 -									9
9/1/2016 -					R				SI
2/1/2017 -						*			
7/1/2017 -					2				
12/1/2017 -						-			
5/1/2018 -						Z			
10/1/2018 -						5			
3/1/2019 -						22			
8/1/2019 -									
1/1/2020 -							2	•	
6/1/2020 -							5		
11/1/2020 -									
4/1/2021 -									
9/1/2021 -							5		
2/1/2022 -					1	1			

Tab L

CSV Transmittal Letter

Kathy Weinel

From:	Kathy Weinel		
Sent:	Wednesday, May 4, 2022 10:56 AM		
То:	Phillip Goble		
Cc:	'Dean Henderson'; David Frydenlund; Scott Bakken; Logan Shumway; Garrin Palmer; Jordan Christine App		
Subject: Attachments:	Transmittal of CSV Files White Mesa Mill 2022 Q1 Nitrate Monitoring 2202208-report-EDD.csv; Q1 2022 DTW all programs .csv; Q1 2022 Field Data.csv		

Mr. Goble,

Attached to this e-mail is an electronic copy of laboratory results for nitrate monitoring conducted at the White Mesa Mill during the first quarter of 2022, in Comma Separated Value (CSV) format.

Please contact me at 303-389-4134 if you have any questions on this transmittal.

Yours Truly

Kathy Weinel



Kathy Weinel Director, Regulatory Compliance

t:303.389.4134 | c: | f:303.389.4125 KWeinel@energyfuels.com

225 Union Blvd., Suite 600 Lakewood, CO 80228

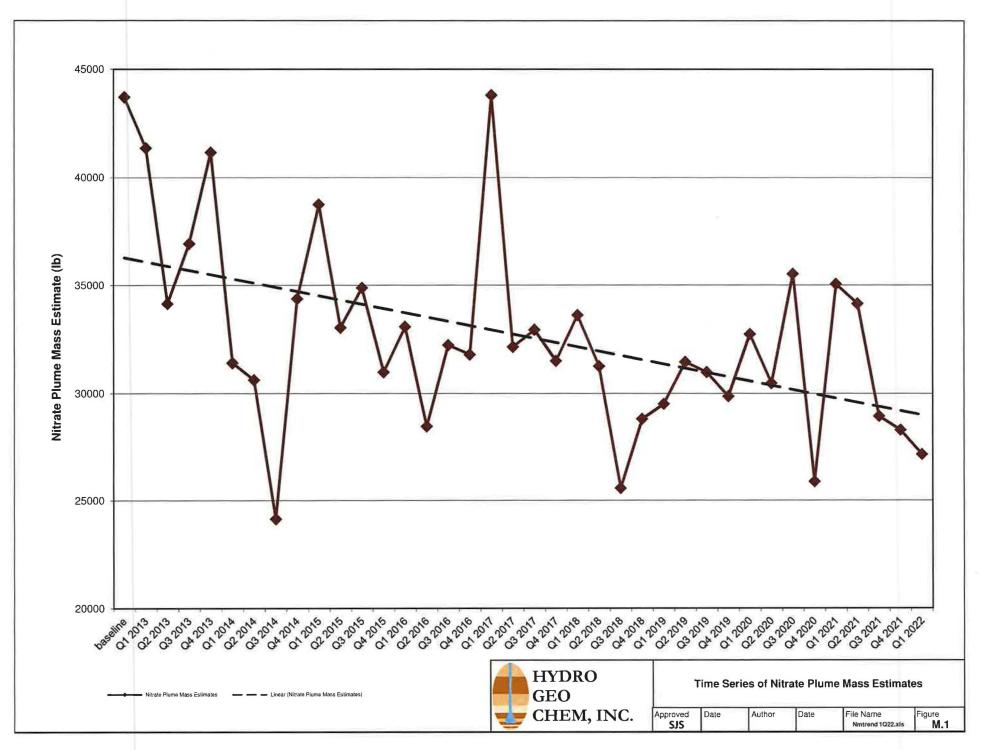
http://www.energyfuels.com

This e-mail is intended for the exclusive use of person(s) mentioned as the recipient(s). This message and any attached files with it are confidential and may contain privileged or proprietary information. If you are not the intended recipient(s) please delete this message and notify the sender. You may not use, distribute print or copy this message if you are not the intended recipient(s).

Tab M

Residual Mass Estimate Analysis Figure

Tab M – Figures



Tab M - Tables

The Residual Mass Estimate Analysis Tables

Table M.1 Residual Nitrate Plume Mass

	residual			
	plume			
quarter	mass (lb)			
baseline	43700			
Q1 2013	41350			
Q2 2013	34140			
Q3 2013	36930			
Q4 2013	41150			
Q1 2014	31410			
Q2 2014	30620			
Q3 2014	24140			
Q4 2014	34370			
Q1 2015	38740			
Q2 2015	33042			
Q3 2015	34880			
Q4 2015	30980			
Q1 2016	33083			
Q2 2016	28465			
Q3 2016	32230			
Q4 2016	31798			
Q1 2017	43787			
Q2 2017	32145			
Q3 2017	32939			
Q4 2017	31501			
Q1 2018	33616			
Q2 2018	31257			
Q3 2018	25568			
Q4 2018	28805			
Q1 2019	29509			
Q2 2019	31455			
Q3 2019	30976			
Q4 2019	29870			
Q1 2020	32740			
Q2 2020	30467			
Q3 2020	35525			
Q4 2020	25875			
Q1 2021	35052			
Q2 2021	34143			
Q3 2021	28932			
Q4 2021	28290			
Q1 2022	27146			

Notes: lbs = pounds