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August 25, 2015

Sent VIA OVERNIGHT DELIVERY

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

Re: Transmittal of 2nd Quarter 2015 Nitrate Monitoring Report
Stipulation and Consent Order Docket Number UGW12-04 White Mesa Uranium Mill

Dear Mr. Lundberg:

Enclosed are two copies of the White Mesa Uranium Mill Nitrate Monitoring Report for the 2nd Quarter of 2015 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,

Kathy Weinel

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

cc: David C. Frydenlund
Dan Hillsten
Harold R. Roberts
David E. Turk
Scott Bakken

White Mesa Uranium Mill

Nitrate Monitoring Report

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

2nd Quarter
(April through June)
2015

Prepared by:

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

August 25, 2015

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ACRONYM LIST

AWAL	American West Analytical Laboratory
CA	Consent Agreement
CAP	Corrective Action Plan
CIR	Contamination Investigation Report
DIFB	Deionized Field Blanks
DWMRC	Utah Division of Waste Management and Radiation Control
DRC	Utah Division of Radiation Control
EFRI	Energy Fuels Resources (USA) Inc.
ft amsl	feet above mean sea level
GWDP	Groundwater Discharge Permit
LCS	Laboratory Control Spike
MS	Matrix Spike
MSD	Matrix Spike Duplicate
QA	Quality Assurance
QAP	Groundwater Monitoring Quality Assurance Plan
QC	Quality Control
RPD	Relative Percent Difference
SCO	Stipulated Consent Order
SOPs	Standard Operating Procedures
UDEQ	Utah Department of Environmental Quality
VOC	Volatile Organic Compounds

1.0 INTRODUCTION

The Utah Department of Environmental Quality ("UDEQ") Division of Waste Management and Radiation Control ("DWMRC") (formerly the Division of Radiation Control ["DRC"]) 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 second quarter of 2015. 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 second quarter of 2015.

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

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.

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 3. 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 7.2, dated June 6, 2012 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") (dated August 24, 2012):

- 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 and TWN-19

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, TW4-20, TW4-4, TW4-21, TW4-37, and the nitrate pumping wells TW4-22, TW4-24, TW4-25, and TWN-2. It is important to note that pumping commenced in TW4-21 and TW4-37 on June 9, 2015 and that weekly and monthly depth to water measurements in those wells was completed after the initiation of pumping.

In addition, monthly water level measurements were taken in non-pumping wells MW-27, MW-30, MW-31, TW4-21 (April and May only), 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 (August 24, 2012).

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 of 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. non-dectect) 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 3, 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").

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 QA Manager 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 QA Manager 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 (August 24, 2012) identify the data validation steps and data QC checks required for the nitrate monitoring program. Consistent with these requirements, the QA Manager 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 QA Manager 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, and turbidity. 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 conformed with the QAP purging and field measurement requirements. A summary of the purging techniques employed and field measurements taken is described below:

<u>Purging Two Casing Volumes with Stable Field Parameters (within 10% RPD)</u>
Wells TWN-01, TWN-04, and TWN-18 were sampled after two casing volumes were removed. Field parameters pH, specific conductivity, turbidity, water temperature, and redox potential were measured during purging. All field parameters for this requirement were stable within 10% RPD.

<u>Purging a Well to Dryness and Stability of a Limited List of Field Parameters</u>
Wells TWN-03 and TWN-07 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 review of the field sheets for compliance with QAP requirements resulted in the observations noted below. The QAP requirements in Attachment 2-3 specifically state that field parameters must be stabilized to within 10% over at least 2 consecutive measurements for wells purged to two casing volumes or to dryness. The QAP Attachment 2-3 states that turbidity should be less than 5 NTU prior to sampling unless the well is characterized by water that has a higher turbidity. The QAP Attachment 2-3 does not require that turbidity measurements be less than 5 NTU prior to sampling. As such the noted observations regarding turbidity measurements greater than 5 NTU below are included for information purposes only.

- Four well measurements exceeded the QAP's 5 NTU turbidity goal as noted in Tab H. All required turbidity RPD's met the QAP Requirement to stabilize within 10%.

EFRI's letter to DWMRC of March 26, 2010 discusses further why turbidity does not appear to be an appropriate parameter for assessing well stabilization. In response to DWMRC's subsequent correspondence dated June 1, 2010 and June 24, 2010, EFRI completed a monitoring well redevelopment program. The redevelopment report was submitted to DWMRC on September 30, 2011. DWMRC responded to the redevelopment report via letter on November 15, 2012. Per the DWMRC letter dated November 15, 2012, the field data generated this quarter are compliant with the turbidity requirements of the approved QAP.

3.4.2 Holding Time Evaluation

QAP Table 1 identifies the method holding times for each suite of parameters. Sample holding time checks are provided in Tab 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%.

Duplicate results were within a 20% RPD in the quarterly samples except for the nitrate result in the duplicate pair TWN-18/TWN-65. Duplicate results are provided under Tab H. The approved QAP specifies a separate corrective action for duplicate RPDs outside of acceptance limits. The revised procedure for duplicate results outside of acceptance limits was implemented during the quarter for the results in duplicate pair TWN-18/TWN-65. The corrective actions that were taken in accordance with the QAP procedure are as follows: the QA Manager contacted the Analytical Laboratory and requested a review of the raw data to assure that there were no transcription errors and the data were accurately reported. The laboratory noted that the data were accurate and reported correctly. Reanalysis was not completed as the samples were beyond the holding time.

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 QA Manager rechecks QC samples and blanks (items (5) and (6)) to confirm that the percent recovery for spikes and the relative percent difference for spike duplicates are within the method-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 for the regulated compounds except as indicated in Tab H. The MS/MSD recoveries that are outside the laboratory established acceptance limits do not affect the quality or usability of the data because recoveries above or below the acceptance limits are indicative of matrix interference. Matrix interferences are applicable to the individual sample results only. The requirement in the QAP to analyze a MS/MSD pair with each analytical batch was met and as such the data are compliant with the QAP.

The 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 map indicates 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. Perched water mounding associated with the wildlife ponds locally changes the generally southerly perched water flow patterns. For example, northeast of the Mill site, mounding associated with wildlife ponds results in locally northerly flow near PIEZ-1. The impact of the mounding associated with the northern ponds, to which water has not been delivered since March 2012, is diminishing and is expected to continue to diminish as the mound decays due to reduced recharge.

Not only has recharge from the wildlife ponds impacted perched water elevations and flow directions at the site, but the cessation of water delivery to the northern ponds, which are generally upgradient of the nitrate and chloroform plumes at the site, has resulted in changing conditions that are expected to impact constituent concentrations and migration rates within the plumes. Specifically, past recharge from the ponds has helped limit many constituent concentrations within the plumes by dilution while the associated groundwater mounding has increased hydraulic gradients and contributed to plume migration. Since use of the northern wildlife ponds ceased in March 2012, the reduction in recharge and decay of the associated groundwater mound are expected to increase many constituent concentrations within the plumes while reducing hydraulic gradients and acting to reduce rates of plume migration. EFRI and its consultants have raised the issues and potential effects associated with cessation of water delivery to the northern wildlife ponds during discussions with DRC in March 2012 and May 2013.

The impacts associated with cessation of water delivery to the northern ponds are expected to propagate downgradient (south and southwest) over time. Wells close to the ponds are generally expected to be impacted sooner than wells farther downgradient of the ponds. Therefore, constituent concentrations are generally expected to increase in downgradient wells close to the ponds before increases are detected in wells farther downgradient of the ponds. Although such increases are anticipated to result from reduced dilution, the magnitude and timing of the increases are 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. The potential exists for some wells completed in higher permeability materials to be impacted sooner than some wells completed in lower permeability materials even though the wells completed in lower permeability materials may be closer to the 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 may be especially evident at chloroform pumping wells MW-4, MW-26, TW4-4, TW4-19, and TW4-20; nitrate pumping wells TW4-22, TW4-24, TW4-25, and TWN-2; and non-pumped wells adjacent to the pumped wells. Impacts are also expected to occur over time at wells added to the chloroform pumping network last quarter (TW4-1, TW4-2, TW4-11), and at those added this quarter (TW4-21 and TW4-37). The overall impact is expected to be generally higher constituent concentrations in these wells over the short term until mass reduction resulting from pumping and natural attenuation eventually reduce concentrations.

In addition to changes in the flow regime caused by reduced wildlife pond recharge, perched flow directions are locally influenced by operation of the chloroform and nitrate pumping wells. As shown in the detail water level map provided under Tab C, well defined cones of depression are evident in the vicinity of all chloroform pumping wells except TW4-4, which began pumping in the first quarter of 2010, and TW4-21 and TW4-37, which began pumping this quarter. Although operation of chloroform pumping well TW4-4 has depressed the water table in the vicinity of TW4-4, a well-defined cone of depression is not clearly evident. The lack of a well-defined cone of depression near TW4-4 likely results from 1) variable permeability conditions in the vicinity of TW4-4, and 2) persistent relatively low water levels at adjacent well TW4-14. The lack of well-defined cones of depression near TW4-21 and TW4-37 likely results from their recent start-up.

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 persistently low water level elevation at TWN-7, which is located upgradient of the nitrate pumping 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 as part of routine monitoring.

As discussed above, variable permeability conditions are one likely reason for the lack of a well-defined cone of depression near chloroform pumping well TW4-4. Changes in water levels at

wells immediately south of TW4-4 resulting from TW4-4 pumping are expected to be muted because TW4-4 is located at a transition from relatively high to relatively low permeability conditions south (downgradient) of TW4-4. The permeability of the perched zone at TW4-6 and TW4-26, and recently installed wells TW4-29, TW4-30, TW4-31, TW4-33, TW4-34, and TW4-35 is one to two orders of magnitude lower than at TW4-4. Any drawdown of water levels at wells immediately south of TW4-4 resulting from TW4-4 pumping is also difficult to determine because of the general, long-term increase in water levels in this area that resulted from wildlife pond recharge.

Water levels at TW4-4 and TW4-6 increased by nearly 2.7 and 2.9 feet, respectively, between the fourth quarter of 2007 and the fourth quarter of 2009 (just prior to the start of TW4-4 pumping) at rates of approximately 1.2 feet/year and 1.3 feet/year, respectively. However, the rate of increase in water level at TW4-6 after the start of pumping at TW4-4 (first quarter of 2010) was reduced to less than 0.5 feet/year suggesting that TW4-6 is within the hydraulic influence of TW4-4. Furthermore, water levels at TW4-6 have been trending downward since the fourth quarter of 2013 suggesting an additional influence related to the cessation of water delivery to the northern wildlife ponds as discussed above, and more recently to the addition of chloroform pumping wells TW4-1, TW4-2, and TW4-11 (note: hydrographs for these wells are provided in the quarterly Chloroform Monitoring Report). Recharge from the southern wildlife pond is expected to continue to have an effect on water levels near TW4-4 even as the groundwater mound associated with recharge from the northern ponds diminishes over time due to cessation of water delivery to those ponds.

The lack of a well-defined cone of depression at TW4-4 is also influenced by the persistent, relatively low water level at non-pumping well TW4-14, located east of TW4-4 and TW4-6. For the current quarter, the water level at TW4-14 was measured at approximately 5531.4 feet above mean sea level ("ft amsl"). This is approximately 6 feet lower than the water level at TW4-6 (approximately 5537.8 ft amsl) and 8 feet lower than the water level at TW4-4 (approximately 5539.7 ft amsl) even though TW4-4 is pumping.

The static water levels at wells TW4-14 and downgradient well TW4-27 (installed south of TW4-14 in the fourth quarter of 2011) were similar (within 1 to 2 feet) until the third quarter of 2014; both appeared anomalously low. The current quarterly water level at TW4-27 (approximately 5527.9 ft amsl) is 3.5 feet lower than the water level at TW4-14 (5531.4 ft amsl). Recent increases in the differences between water levels at TW4-14 and TW4-27 are due to more rapid increases in water levels at TW4-14 that result from past delivery of water to the northern wildlife ponds. The rate of increase at TW4-27 is smaller than at TW4-14 because TW4-27 is farther downgradient of the ponds.

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 which suggested that TW4-26 was actually downgradient of TW4-6, and TW4-6 was actually downgradient of TW4-4, regardless of the flow direction implied by the low water level at TW4-14. The water level at TW4-26 (5536.2 feet amsl) is, however, lower than water levels at adjacent wells TW4-6 (5537.8 feet amsl), and TW4-23 (5539.2 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). The similar 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 recently installed wells TW4-29, TW4-30, TW4-31, TW4-33 and TW4-34 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.

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

The groundwater contour maps for the Mill site for the previous quarter, as submitted with the Nitrate Monitoring Report for the previous quarter, are attached under Tab D.

A comparison of the water table contour maps for the current quarter (second quarter of 2015) to the water table contour maps for the previous quarter (first quarter of 2015) indicates similar patterns of drawdowns associated with pumping wells. Significant drawdowns associated with new chloroform pumping wells TW4-21 and TW4-37 are not yet evident.

Nitrate pumping wells TW4-22, TW4-24, TW4-25, and TWN-2 were brought into operation during the first quarter of 2013 and their impact on water level patterns was evident as of the fourth quarter of 2013. While the water level in nitrate pumping well TW4-25 showed a decrease (increase in drawdown), the water levels at TW4-22, TW4-24, and TWN-2 showed increases (decreases in drawdowns) this quarter.

As discussed in Section 4.1.1, pumping at chloroform well TW4-4, which began in the first quarter of 2010, has depressed the water table near TW4-4, but a well-defined cone of depression is not clearly evident, likely due to variable permeability conditions near TW4-4 and the persistently low water level at adjacent well TW4-14.

Small (<1 foot) changes in water levels were reported at the majority of site wells; water levels and water level contours for the site have not changed significantly since the last quarter except for a few locations primarily in the vicinity of TW4-22. Reported decreases in water levels (increases in drawdown) of approximately 2.3, 5.5, 5.2, 3.3 and 5.5 feet occurred in chloroform pumping wells TW4-1, TW4-11, TW4-19, and TW4-21, and nitrate pumping well TW4-25,

respectively. The reported water level for TW4-11 is below the depth of the Brushy Basin contact this quarter. Increases in water level (decreases in drawdown) of approximately 4.9, 2.6, 13.9, and 3.4 feet were reported for chloroform pumping wells MW-4 and TW4-20, and nitrate pumping wells TW4-22 and TW4-24, respectively. Changes in water levels at other pumping wells (chloroform pumping wells MW-26, TW4-2 and TW4-4, and nitrate pumping well TWN-2) were less than 2 feet. 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.

Although increases in water levels (decreases in drawdown) occurred in some pumping wells and decreases in water levels (increases in drawdown) occurred in others, and new chloroform pumping wells TW4-21 and TW4-37 were brought online, the overall apparent capture of the combined system is slightly smaller than last quarter.

Reported water level decreases of up to 4 feet at Piezometers 2 and 3, TWN-1, TWN-4, TWN-6, TWN-18, and MW-19 may result from cessation of water delivery to the northern wildlife ponds as discussed in Section 4.1.1 and the consequent continuing decay of the associated perched water mound. Reported water level decreases of approximately 0.6 feet and 0.7 feet at Piezometers 4 and 5, respectively, may result from reduced recharge at the southern wildlife pond.

Reported water levels decreased by approximately 4.4 feet at MW-20 and by approximately 6.3 feet at MW-37 between the previous quarter and the current quarter. Water level variability at these wells is likely the result of low permeability and variable intervals between purging/sampling and water level measurement. The water level at TW4-7 increased by approximately 7.3 feet, likely related to the increase at adjacent chloroform pumping well MW-4. Measurable water was reported this quarter at DR-22. This piezometer is typically dry but on occasion has measurable water reported in the bottom of the casing.

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 DRC and International Uranium (USA) Corp. The procedure for calculating nitrate capture zones is as follows:

1) Calculate water level contours by gridding the water level data on approximately 50-foot centers using the ordinary linear kriging method in Surfer™. 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. The water level in nitrate pumping well TW4-25 decreased by nearly 5.5 feet. The water levels in nitrate pumping wells TW4-22, TW4-24, and TWN-2 increased by 13.9 feet, 3.4 feet, and 1.9 feet, respectively. The water levels in chloroform pumping wells TW4-1 TW4-4 and TW4-11 decreased by approximately 2.3 feet, 1.8 feet, and 5.6 feet respectively, while water levels in chloroform pumping wells MW-4, MW-26, TW4-2, and TW4-20 increased by approximately 4.9 feet, 1 foot, 1.4 feet, and 2.6 feet, respectively. While the apparent capture of the combined pumping systems has expanded in some areas and been reduced in others, the overall capture is slightly smaller than last quarter.

The capture associated with nitrate pumping wells is expected to 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, the presence of the perched groundwater mound, and the apparently anomalously low water level at TWN-7, will influence the definition of capture associated with the nitrate pumping system.

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 is assumed to represent a steady state 'background' condition that includes constant recharge, hydraulic gradients, and saturated thicknesses, and does not account for reduced recharge and saturated thickness caused by cessation of water delivery to the northern wildlife ponds since March, 2012. Changes after pumping are conservatively assumed to result only from pumping. As will be discussed below, the average combined nitrate pumping rate for the quarter is within the calculated pre-pumping range of perched water flow through the nitrate plume.

The cumulative volume of water removed by TW4-22, TW4-24, TW4-25, and TWN-2 during the current quarter was approximately 226,338 gallons. This equates to an average total extraction rate of approximately 1.7 gpm over the 90 day quarter. This average is similar to last quarter's average of approximately 1.8 gpm and accounts for time periods when pumps were off due to insufficient water columns in the wells. Although this quarter's pumping was similar to last quarter's, nitrate pumping last quarter was approximately 33% lower than the fourth quarter of 2014 due to a power outage. Pumping this quarter did not return to fourth quarter, 2014 levels primarily because of reduced pumping at TW4-24. Pumping intervals were adjusted to prevent the well going dry, which reduced the overall pumped volume. A similar adjustment was made to chloroform pumping well TW4-19. 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. A quantitative assessment of expected reductions in background flow and well productivity is ongoing and will be reported after the collection of more data.

Pre-pumping flow through the nitrate plume near TW4-22 and TW4-24 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 Aqtesolve™ (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 also 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.

The hydraulic gradient and saturated thickness used in the calculations are assumed to represent a steady state 'background' condition. However, assumption of a steady state 'background' is 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 are declining as a result of two factors: reduced recharge from the ponds, and the effects of nitrate pumping. Separating the impacts of nitrate pumping from the impacts of reduced recharge from the ponds is problematic. Should pumping cease and 'background' conditions be allowed to re-establish, saturated thicknesses would be smaller and smaller hydraulic gradients would be calculated due to reduced wildlife pond recharge and the consequent decay of the groundwater mound. The smaller hydraulic gradients and saturated thicknesses would lower the estimates of 'background' flow. Because hydraulic gradients and saturated thicknesses are expected to continue to decline as the groundwater mound diminishes, the 'background' flow is also expected to continue to diminish.

As a result, the 'background' flow calculated using the hydraulic gradient of 0.025 ft/ft and saturated thickness of 56 feet is conservatively large and is not considered representative of current conditions. Furthermore, using the arithmetic average hydraulic conductivity of a subset of plume wells having the highest conductivities 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 1.3, the high end of the calculated range. As discussed above, a quantitative assessment of expected reductions in background flow and well productivity is ongoing and will be reported after the collection of more data.

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 concentrations of nitrate in MW-30 and MW-31 remain stable or decline, and concentrations of nitrate 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 plume has not migrated downgradient to MW-5 or MW-11 because nitrate was not detected at MW-11 and was detected at a concentration of only 0.14 mg/L at MW-5 this quarter. Between

the previous and current quarters, nitrate concentrations increased slightly in both MW-30 and MW-31. Nitrate in MW-30 increased from 14.9 mg/L to 17 mg/L and nitrate in MW-31 increased from 18.7 mg/L to 19 mg/L. 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.

Chloride has been relatively stable at MW-30 but is generally increasing at MW-31 (see Tab J and Tab K, discussed in Section 4.2.4). The apparent increase in chloride and stable nitrate at MW-31 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.

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. All nitrate and chloride data used to develop these iso-concentration maps are from the current quarter's sampling events.

4.2.3 Comparison of Areal Extent

The decrease in nitrate concentrations in TW4-25 from approximately 14 mg/L to 1.1 mg/L has caused the plume to contract. TW4-25, which was outside the plume from the first quarter of 2013 through last quarter (see Tab J and Tab K, discussed in Section 4.2.4) is again outside the plume. Concentrations at TW4-25 are expected to be influenced by pumping and reduced wildlife pond recharge. The increase in nitrate concentration from approximately 3.2 mg/L to 6.3 mg/L at MW-27, located immediately west of the plume, caused the northwestern boundary of the plume to expand to the west. Concentrations at MW-27 are also likely to be influenced by changes in pumping and reduced wildlife pond recharge.

The nitrate concentration at TW4-18 (located east of the nitrate plume) decreased slightly from 11.7 mg/L to 9.7 mg/L. 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 ponds appeared to be having the anticipated effect of generally increased nitrate concentrations in wells downgradient of the ponds. However, decreasing to relatively stable nitrate concentrations at most wells in the vicinity of TW4-18 over the previous five quarters after previous increases suggests that conditions in this area have stabilized.

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 (primarily chloroform pumping well MW-26). 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) continue to be relatively stable, demonstrating that plume migration is minimal or absent. With regard to chloroform, the initiation of nitrate pumping has caused changes in the boundary of the chloroform plume. The boundary of the chloroform plume migrated to the west toward nitrate pumping well TW4-24, and more recently migrated to the southwest to reincorporate chloroform monitoring wells TW4-6 and, from the third quarter of 2014 through last quarter, TW4-16. The start-up of additional chloroform pumping wells last quarter, and reduced productivity at TW4-24, have apparently caused the chloroform plume to contract eastward away from TW4-24 and from TW4-16. 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-27, TW4-21, and TWN-18;

b) Nitrate concentrations have decreased by more than 20% in the following wells compared to last quarter: MW-26, TW4-5, TW4-10, TW4-16, TW4-19, TW4-20, TW4-22, TW4-25, TWN-1, TWN-4, and TWN-7;

c) Nitrate concentrations have remained within 20% in the following wells compared to last quarter: MW-30, MW-31, TW4-18, TW4-24, TWN-2, and TWN-3; and

d) MW-11, MW-25, and MW-32 remained non-detect

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, TW4-20, and TW4-21; nitrate pumping wells TW4-22 and TW4-25; and non-pumping wells MW-27, TW4-5, TW4-10, TW4-16, TWN-1, TWN-4, TWN-7, and TWN-18. MW-27 and TWN-7 are located adjacent to nitrate pumping well TWN-2; TW4-5 is located adjacent to chloroform pumping wells TW4-19 and TW4-20; TW4-10 is located adjacent to chloroform pumping wells MW-26 and TW4-11; TW4-16 is located adjacent to chloroform pumping well MW-26; and TWN-1 is located adjacent to nitrate pumping well TW4-25. 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. Concentrations at TWN-4 are expected to be influenced by the adjacent wildlife ponds; and concentrations at TWN-18 are expected to be influenced by its position immediately upgradient of the nitrate plume.

As discussed in Section 4.2.3, the nitrate concentration at TW4-25 decreased from approximately 1.14 mg/L last quarter to approximately 1 mg/L this quarter, putting it again outside the nitrate plume boundary. The nitrate concentrations in chloroform pumping wells MW-26, TW4-19, and TW4-20 decreased from approximately 2.7 mg/L, 8.6 mg/L, and 9.8 mg/L, respectively, to < 1 mg/L, < 1 mg/L, and 5.8 mg/L, respectively. The nitrate concentration in chloroform pumping well TW4-21 increased from approximately 11 to 13 mg/L. MW-27, located west of TWN-2, 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, 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 (See Table 5). MW-25, MW-26, MW-32, TW4-16, TW4-18, TW4-19, TW4-20, TW4-25, and TWN-4 bound the nitrate plume to the east.

As discussed above, the areal extent of the plume has decreased because TW4-25 is again outside the plume. Nitrate concentrations outside the nitrate plume are approximately equal to or greater than 10 mg/L at a few locations: TW4-10 (11.4 mg/L), TW4-12 (18.8 mg/L), TW4-18 (9.7 mg/L), TW4-26 (11.3 mg/L), TW4-27 (24 mg/L), and TW4-28 (19 mg/L). All these wells are located southeast of the nitrate plume as defined in the CAP and all are separated from the plume by wells having nitrate concentrations that are either non-detect, or, if detected, are less than 10 mg/L. Concentrations at TW4-12, TW4-18, TW4-27 and TW4-28 are within 20% of their concentrations during the previous quarter. From the third quarter of 2013 through the second quarter of 2014, nitrate concentrations at TW4-10 and TW4-18 exceeded 10 mg/L, dropped below 10 mg/L in the third quarter of 2014, then increased above 10 mg/L in the fourth quarter of 2014. The concentration at TW4-18 is just below 10 mg/L this quarter. Elevated nitrate concentrations at these wells are associated with the chloroform plume, and both are within the capture zone of the chloroform pumping system. Elevated nitrate at TW4-12, TW4-26, TW4-27, and TW4-28 is likely related to former cattle ranching operations at the site.

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 MW-26, TW4-19, TW4-21, TW4-22, TW4-24 and TW4-25. These changes likely result from changes in pumping. The largest percentage change occurred at TW4-21 which began pumping this quarter.

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

Nitrate mass removed by pumping is summarized in Table 2, and 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, a total of approximately 1,325 lb of nitrate has been removed from the perched zone since the third quarter of 2010. 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 68.9 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 68.9 lb removed during the current quarter, approximately 48 lb, (or 69 %), was removed by the nitrate pumping wells.

The calculated nitrate mass removed was approximately 17% lower than last quarter due to generally lower nitrate concentrations in nitrate pumping wells and reduced productivity in nitrate pumping well TW4-24. 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. A quantitative assessment of expected reductions in background flow and well productivity is ongoing and will be reported after the collection of more data.

Baseline mass and current quarter mass estimates (nitrate + nitrite as N) for the nitrate plume are approximately 43,700 lb and 33,042 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 is lower than the baseline estimate by approximately 10,660 lb, and this difference is greater than the amount of nitrate mass removed directly by pumping. Changes in the quarterly mass estimates are expected to result primarily from 1) nitrate mass removed directly by pumping, 2) natural attenuation of nitrate, and 3) changes in nitrate concentrations in wells within the plume as a result of re-distribution of nitrate within the plume and changes in saturated thicknesses. 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 increases in concentrations.

The mass estimate during the current quarter (33,042 lb) was smaller than the mass estimate during the previous quarter (38,742 lb) by 5,700 lb or 15 %. This difference results primarily

from the decrease in concentration at TW4-25, which decreased the areal extent of the plume compared to last quarter.

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. 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. Only longer-term analyses of the mass estimates that minimize the impacts of these quarter to quarter variations will 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 are collected (starting with the first quarter of 2013), a regression trend line is to be applied to the quarterly mass estimates and evaluated. The trend line is then to be updated quarterly and reevaluated as additional quarters of data are collected. The evaluation will determine whether the mass estimates are 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 was updated this quarter 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. 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.

Because wells MW-4, TW4-19, MW-26, TW4-4, TW4-20, TW4-01, TW4-02, TW4-11, TW4-21, and TW4-37 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 TW4-20 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 wells.
- 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 TW4-20, and regularly after March 1, 2010 for TW4-4, water levels in these two 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. Copies of the weekly Depth to Water monitoring sheets for MW-4, MW-26, TW4-19, TW4-20, TW4-4, TW4-22, TW4-24, TW4-25, TWN-02, TW4-01, TW4-02, TW4-11, TW4-21, and TW4-37 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, TW4-21 (April and May only), 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 in Sections 5.4.1 through 5.4.4.

The following issue was noted as affecting multiple wells in the pumping network and is not repeated under the Section for each well.

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

5.4.1 TW4-19

On June 3, 2015, Mill Field Personnel replaced the flow meter in TW4-19 as a routine maintenance activity. No issues were noted during the inspections.

5.4.2 TW4-22 and TW4-24

On June 8, 2015, Mill Field Personnel noted a power outage at TW4-22 and TW4-24 during the routine weekly inspection. The Mill Electricians were notified and the power was restored to the well the same day. No official notifications to DWMRC were required as the issue was rectified within 24-hours.

5.4.3 MW-26

On May 11, 2015, Field Personnel noted during the routine weekly inspection that the flow meter in MW-26 had stopped operating. The flow meter was replaced immediately and full functionality was restored within several hours. No official notifications to DWMRC were required as the issue was rectified within 24-hours.

5.4.4 TW4-25

On April 27, 2015 Field Personnel noted a programming error during the routine weekly inspection of TW4-25. Mill electricians were notified and power to the system was verified. The module was reset and the well was checked frequently to assure no further errors occurred. No official notifications to DWMRC were required as the issue was rectified within 24-hours.

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 quarters' monitoring period.

7.0 CONCLUSIONS AND RECOMMENDATIONS

As per the CAP, the current quarter is the seventh quarter that hydraulic capture associated with nitrate pumping wells TW4-22, TW4-24, TW4-25, and TWN-2 was evaluated. Although chloroform wells TW4-1, TW4-2, and TW4-11 began pumping last quarter and TW4-21 and TW4-37 began pumping this quarter, water level monitoring indicates that the apparent combined capture area of the nitrate and chloroform pumping systems is similar to but slightly smaller than last quarter. Capture associated with nitrate pumping wells continues to develop and is expected to increase over time as water levels decline due to pumping and to cessation of water delivery to the northern wildlife ponds. Furthermore, the evaluation of the long term interaction between nitrate and chloroform pumping systems will require more data to be collected as part of routine monitoring. Slow development of hydraulic capture by the nitrate pumping system is consistent with and expected based on the relatively low permeability of the perched zone at the site. Definition of capture associated with the nitrate pumping system will also be influenced by the perched groundwater mound and the apparently anomalously 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. Pumping during the current quarter was similar to last quarter even though last quarter's pumping was reduced due to a power outage. One reason that total pumping is smaller than in the fourth quarter of 2014 is decreased productivity of nitrate pumping well TW4-24. 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. A quantitative assessment of expected reductions in background flow and well productivity is ongoing and will be reported after the collection of more data. However, pumping this quarter is still within the range estimated for pre-pumping ('background') perched water flow through the nitrate plume.

Furthermore, because the pre-pumping flow calculations overestimate current 'background' conditions caused by reduced recharge from the northern wildlife ponds, and because the average plume hydraulic conductivity estimate from the low end of the calculated range is likely to be more representative of actual conditions, current quarter nitrate pumping may exceed flow through the plume by a factor greater than 1.3. Over time, 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.

First quarter, 2015 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 greater than 20% occurred in MW-26, MW-27, TW4-5, TW4-10, TW4-16, TW4-19, TW4-20, TW4-21, TW4-22, TW4-25, TWN-1, TWN-4, TWN-7, and TWN-18. The concentrations in wells MW-11, MW-25, and MW-32 remained non-detect.

Of the wells showing changes in concentration greater than 20%, MW-26, TW4-19, TW4-20, and TW4-21 are chloroform pumping wells; and TW4-22, and TW4-25 are nitrate pumping

wells. MW-27 and TWN-7 are located adjacent to nitrate pumping well TWN-2; TW4-5 is located adjacent to chloroform pumping wells TW4-19 and TW4-20; TW4-10 is located adjacent to chloroform pumping wells MW-26 and TW4-11; TW4-16 is located adjacent to chloroform pumping well MW-26; and TWN-1 is located adjacent to nitrate pumping well TW4-25. Nitrate concentration fluctuations at pumping wells and adjacent wells likely result in part from the effects of pumping. Concentrations at TWN-4 are expected to be influenced by the adjacent wildlife ponds; and concentrations at TWN-18 are expected to be influenced by its position immediately upgradient of the nitrate plume.

The nitrate concentration at TW4-25 decreased from approximately 14 mg/L last quarter to approximately 1.1 mg/L this quarter, putting it again outside the nitrate plume boundary, and causing shrinkage of the plume. The nitrate concentrations in chloroform pumping wells MW-26, TW4-19, and TW4-20 decreased from approximately 2.7 mg/L, 8.6 mg/L, and 9.8 mg/L, respectively, to < 1 mg/L, < 1 mg/L, and 5.8 mg/L, respectively. The nitrate concentration in chloroform pumping well TW4-21 increased from approximately 11 to 13 mg/L. MW-27, located west of TWN-2, 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, 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 (See Table 5). MW-25, MW-26, MW-32, TW4-16, TW4-18, TW4-19, TW4-20, TW4-25, and TWN-4 bound the nitrate plume to the east.

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 in MW-30 increased from 14.9 mg/L to 17 mg/L and nitrate in MW-31 increased slightly from 18.7 mg/L to 19 mg/L. Based on the concentration data at MW-5, MW-11, MW-30, and MW-31, the nitrate plume is under control.

Chloride has been relatively stable at MW-30 but is generally increasing at MW-31. The apparent increase in chloride and relatively stable nitrate at MW-31 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.

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. 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 are collected (starting with the first quarter of 2013), a regression trend line is to be applied to the quarterly mass estimates and evaluated. The trend line is then to be updated quarterly and reevaluated as additional quarters of data are 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 68.9 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 68.9 lb removed during the current quarter, approximately 48 lb, (or 69 %), 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 during the current quarter was calculated as 33,042 lb which was smaller than the mass estimate during the previous quarter (38,742 lb) by 5,700 lb or 15 %. This difference results primarily from the decrease in concentration at TW4-25 which decreased the areal extent of the plume compared to last quarter.

Nitrate concentrations outside the nitrate plume are approximately equal to or exceed 10 mg/L at a few locations: TW4-10 (11.4 mg/L), TW4-12 (18.8 mg/L), TW4-18 (9.7 mg/L), TW4-26 (11.3 mg/L), TW4-27 (24 mg/L), and TW4-28 (19 mg/L). All these wells are located southeast of the nitrate plume as defined in the CAP and all are separated from the plume by wells having nitrate concentrations that are either non-detect, or, if detected, are less than 10 mg/L. Concentrations at TW4-12, TW4-18, TW4-27 and TW4-28 are within 20% of their concentrations during the previous quarter. From the third quarter of 2013 through the second quarter of 2014, nitrate concentrations at TW4-10 and TW4-18 exceeded 10 mg/L, dropped below 10 mg/L in the third quarter of 2014, then increased above 10 mg/L in the fourth quarter of 2014. The concentration at TW4-18 is just below 10 mg/L this quarter. Elevated nitrate concentrations at these wells are associated with the chloroform plume, and both are within the capture zone of the chloroform pumping system. Elevated nitrate at TW4-12, TW4-26, TW4-27, and TW4-28 is likely related to former cattle ranching operations at the site.

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 most wells in the vicinity of TW4-18 from the first through third quarters of 2014 after a previously increasing trend (interrupted in the first quarter of 2014) suggest that conditions in this area have stabilized.

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.

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 DRC in March 2012 and May 2013. While past recharge from the ponds has helped limit many constituent concentrations within the chloroform and nitrate plumes by dilution, the associated groundwater mounding has increased hydraulic gradients and contributed to plume migration. Since use of the northern wildlife ponds ceased in March 2012, the reduction in recharge and decay of the associated groundwater mound was expected to increase many constituent concentrations within the plumes while reducing hydraulic gradients and rates of plume migration.

The net impact of reduced wildlife pond recharge is expected to be beneficial even though it was also expected to result in temporarily higher concentrations until continued mass reduction via pumping and natural attenuation ultimately reduce 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.

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. on August 25, 2015.

Energy Fuels Resources (USA) Inc.

By:

Scott Bakken
Senior Director Regulatory Affairs

Certification:

I certify, under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Scott Bakken
Senior Director 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	5/12/2015	5/27/2015
Piezometer 02	5/12/2015	5/27/2015
Piezometer 03	5/12/2015	5/27/2015
TWN-01	5/13/2015	5/27/2015
TWN-02	**5/12/2015**	**5/27/2015**
TWN-03	5/14/2015	5/27/2015
TWN-04	5/13/2015	5/27/2015
TWN-07	5/14/2015	5/27/2015
TWN-18	5/13/2015	5/27/2015
TWN-18R	5/13/2015	5/27/2015
TW4-22	**6/8/2015**	**6/23/2015**
TW4-24	**6/8/2015**	**6/23/2015**
TW4-25	**6/8/2015**	**6/23/2015**
TWN-60	5/13/2015	5/27/2015
TW4-60	6/11/2015	6/23/2015
TWN-65	5/13/2015	5/27/2015

Note: All wells were sampled for Nitrate and Chloride.

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 2
Nitrate 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.)	Quarter Totals (lbs.)
Q3 2010	3.2	0.3	5.8	1.7	4.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	15.69
Q4 2010	3.8	0.4	17.3	1.4	5.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	27.97
Q1 2011	2.9	0.2	64.5	1.4	4.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	73.30
Q2 2011	3.5	0.1	15.9	2.7	4.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	27.01
Q3 2011	3.5	0.5	3.5	3.9	5.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	16.82
Q4 2011	3.8	0.8	6.2	2.5	6.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	19.71
Q1 2012	3.6	0.4	0.7	5.0	6.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	15.86
Q2 2012	3.7	0.6	3.4	2.1	5.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	15.03
Q3 2012	3.8	0.5	3.6	2.0	4.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	14.67
Q4 2012	3.2	0.4	5.4	1.8	4.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	14.92
Q1 2013	2.5	0.4	14.1	1.4	3.6	8.1	43.4	7.5	14.8	NA	NA	NA	NA	NA	95.73
Q2 2013	2.5	0.4	5.6	1.6	3.4	10.7	37.1	6.4	23.9	NA	NA	NA	NA	NA	91.71
Q3 2013	3.0	0.4	48.4	1.4	3.8	6.3	72.8	6.9	33.4	NA	NA	NA	NA	NA	176.53
Q4 2013	3.1	0.3	15.8	1.6	3.9	9.4	75.2	6.4	46.3	NA	NA	NA	NA	NA	162.07
Q1 2014	2.7	0.4	4.1	1.2	3.6	11.2	60.4	2.3	17.2	NA	NA	NA	NA	NA	103.14
Q2 2014	2.4	0.3	3.3	0.9	3.0	9.5	63.4	1.3	17.8	NA	NA	NA	NA	NA	101.87
Q3 2014	2.3	0.1	4.1	0.6	3.1	8.5	56.2	1.6	16.4	NA	NA	NA	NA	NA	92.99
Q4 2014	2.7	0.2	7.8	1.0	3.8	11.0	53.2	0.9	28.0	NA	NA	NA	NA	NA	108.57
Q1 2015	3.7	0.5	4.3	1.3	2.4	12.7	26.7	8.6	19.2	1.45	1.07	0.72	NA	NA	82.61
Q2 2015	1.3	0.20	0.57	0.90	3.60	9.11	16.63	0.88	21.37	1.22	0.79	0.37	3.36	8.58	68.86
Well Totals (pounds)	**61.21**	**7.61**	**234.48**	**36.60**	**84.88**	**96.57**	**504.94**	**42.86**	**238.34**	**2.66**	**1.86**	**1.09**	**3.36**	**8.58**	**1325.04**

Table 3 Well Pumping Rates and Volumes

Pumping Well Name	Volume of Water Pumped During the Quarter (gals)	Average Pump Rate (gpm)
MW-4	60,714.7	4.58
MW-26	27,804.6	11.45
TW4-4	68,162.8	10.28
TW4-19	75,102.8	11.29
TW4-20	18,754.1	9.12
TW4-22	23,191.6	17.49
TW4-24	62,664.2	17.50
TW4-25	91,985.3	15.88
TWN-2	48,497.3	18.64
TW4-01	23,989.9	16.92
TW4-02	22,029.9	17.02
TW4-11	5,243.3	16.71
TW4-21	30,743.7	15.88
TW4-37	29,206.0	17.65

Table 4

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

	MW-4							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)
Calculations and Data Origination	Total Gallons pumped for the quarter from the Flow Meter data	Concentration from the analytical data	Concentration in mg/LX1000 to convert to ug/L	Total pumped gallons/3.785 to conver to liters	Concentration in ug/L X total liters	Total ug/1000000 to convert to grams	Total grams/453.592 to convert to pounds							
Q3 2010	79859.1	4.8	4800	302266.7	1450880129	1450.9	3.20	63850.0	0.6	600	241672.3	145003350	145	0.32
Q4 2010	90042.2	5	5000	340809.7	1704048635	1704.0	3.76	60180.0	0.7	700	227781.3	159446910	159	0.35
Q1 2011	76247.6	4.6	4600	288597.2	1327546964	1327.5	2.93	55130.0	0.5	500	208667.1	104333525	104	0.23
Q2 2011	85849.3	4.9	4900	324939.6	1592204042	1592.2	3.51	55800.6	0.3	300	211205.3	63361581	63	0.14
Q3 2011	85327.7	4.9	4900	322965.3	1582530188	1582.5	3.49	65618.0	0.9	900	248364.1	223527717	224	0.49
Q4 2011	89735.0	5.1	5100	339647.0	1732199573	1732.2	3.82	50191.3	2	2000	189974.1	379948141	380	0.84
Q1 2012	90376.4	4.8	4800	342074.7	1641958435	1642.0	3.62	31440.1	1.7	1700	119000.8	202301323	202	0.45
Q2 2012	90916.5	4.9	4900	344118.8	1686181940	1686.2	3.72	26701.2	2.5	2500	101064.1	252660294	253	0.56
Q3 2012	91607.0	5	5000	346732.5	1733662475	1733.7	3.82	25246.0	2.6	2600	95556.1	248445886	248	0.55
Q4 2012	78840.0	4.8	4800	298409.4	1432365120	1432.4	3.16	30797.0	1.46	1460	116566.6	170187302	170	0.38
Q1 2013	62943.7	4.78	4780	238241.9	1138796304	1138.8	2.51	22650.7	2.27	2270	85732.9	194613682	195	0.43
Q2 2013	71187.3	4.22	4220	269443.9	1137053387	1137.1	2.51	25343.4	2.11	2110	95924.8	202401263	202	0.45
Q3 2013	72898.8	4.89	4890	275922.0	1349258375	1349.3	2.97	25763.0	1.98	1980	97513.0	193075651	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	126	0.28
Q1 2014	69833.8	4.7	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	128	0.28
Q3 2014	74788.2	3.7	3700	283073.3	1047371347	1047.4	2.31	24062.4	0.7	700	91076.2	63753329	64	0.14
Q4 2014	63093.0	5.07	5070	238807.0	1210751515	1210.8	2.67	21875.8	0.934	934	82799.9	77335109	77	0.17
Q1 2015	76454.3	5.75	5750	289379.5	1663932272	1663.9	3.67	24004.9	2.68	2680	90858.5	243500905	244	0.54
Q2 2015	60714.7	2.53	2530	229805.1	581407002.9	581.4	1.28	27804.6	0.845	845	105240.4	88928147	89	0.20
Totals Since Q3 2010	1552989.85						61.21	707687.2						7.61

Highlighted cells are the total for the current quarter

Table 4

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

	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)
Calculations and Data Origination														
Q3 2010	116899.2	5.9	5900	442463.5	2.611E+09	2611	5.76	39098.3	5.3	5300	147987.1	784331447	784	1.73
Q4 2010	767970.5	2.7	2700	2906768.3	7.848E+09	7848	17.30	36752.5	4.6	4600	139108.2	639897778	640	1.41
Q1 2011	454607.9	17	17000	1720690.9	2.925E+10	29252	64.49	37187.5	4.4	4400	140754.7	619320625	619	1.37
Q2 2011	159238.9	12	12000	602719.2	7.233E+09	7233	15.95	67907.7	4.8	4800	257030.6	1.234E+09	1234	2.72
Q3 2011	141542.6	3	3000	535738.7	1.607E+09	1607	3.54	72311.2	6.5	6500	273697.9	1.779E+09	1779	3.92
Q4 2011	147647.2	5	5000	558844.7	2.794E+09	2794	6.16	72089.3	4.2	4200	272858.0	1.146E+09	1146	2.53
Q1 2012	148747.0	0.6	600	563007.4	337804437	338	0.74	76306.0	7.9	7900	288818.2	2.282E+09	2282	5.03
Q2 2012	172082.0	2.4	2400	651330.5	1.563E+09	1563	3.45	22956.4	11	11000	86890.1	955790963	956	2.11
Q3 2012	171345.0	2.5	2500	648540.8	1.621E+09	1621	3.57	22025.0	10.8	10800	83364.6	900337950	900	1.98
Q4 2012	156653.0	4.1	4100	592931.6	2.431E+09	2431	5.36	20114.0	11	11000	76131.5	837446390	837	1.85
Q1 2013	210908.0	7.99	7990	798286.8	6.378E+09	6378	14.06	18177.0	9.07	9070	68799.9	624015501	624	1.38
Q2 2013	226224.0	2.95	2950	856257.8	2.526E+09	2526	5.57	20252.4	9.76	9760	76655.3	748156060	748	1.65
Q3 2013	329460.1	17.6	17600	1247006.5	2.195E+10	21947	48.39	19731.0	8.65	8650	74681.8	645997873	646	1.42
Q4 2013	403974.0	4.7	4700	1529041.6	7.186E+09	7186	15.84	19280.2	9.64	9640	72975.6	703484369	703	1.55
Q1 2014	304851.0	1.62	1620	1153861.0	1.869E+09	1869	4.12	18781.6	7.56	7560	71088.4	537427971	537	1.18
Q2 2014	297660.0	1.34	1340	1126643.1	1.51E+09	1510	3.33	18462.4	5.95	5950	69880.2	415787095	416	0.92
Q3 2014	309742.0	1.6	1600	1172373.5	1.876E+09	1876	4.14	17237.9	4.3	4300	65245.5	280555441	281	0.62
Q4 2014	198331.0	4.72	4720	750682.8	3.543E+09	3543	7.81	16341.8	7.67	7670	61853.7	474417979	474	1.05
Q1 2015	60553.0	8.56	8560	229193.1	1.962E+09	1962	4.33	15744.7	9.8	9800	59593.7	584018157	584	1.29
Q2 2015	75102.8	0.916	916	284264.1	260385914	260	0.57	18754.1	5.76	5760	70984.3	408869387	409	0.90
Totals Since Q3 2010	4853539.2						234.48	649511.0						36.60

Highlighted cells are the total for the current quarter

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

	TW4-4							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)
Calculations and Data Origination														
Q3 2010	76916.8	7.30	7300.00	291130.1	2.1E+09	2125.25	4.69	NA	NA	NA	NA	NA	NA	NA
Q4 2010	86872.1	7.10	7100.00	328810.9	2.3E+09	2334.56	5.15	NA	NA	NA	NA	NA	NA	NA
Q1 2011	73360.0	7.00	7000.00	277667.6	1.9E+09	1943.67	4.29	NA	NA	NA	NA	NA	NA	NA
Q2 2011	80334.6	7.00	7000.00	304066.5	2.1E+09	2128.47	4.69	NA	NA	NA	NA	NA	NA	NA
Q3 2011	97535.0	6.60	6600.00	369170.0	2.4E+09	2436.52	5.37	NA	NA	NA	NA	NA	NA	NA
Q4 2011	109043.5	7.00	7000.00	412729.6	2.9E+09	2889.11	6.37	NA	NA	NA	NA	NA	NA	NA
Q1 2012	101616.8	7.10	7100.00	384619.6	2.7E+09	2730.80	6.02	NA	NA	NA	NA	NA	NA	NA
Q2 2012	87759.1	7.10	7100.00	332168.2	2.4E+09	2358.39	5.20	NA	NA	NA	NA	NA	NA	NA
Q3 2012	80006.0	7.10	7100.00	302822.7	2.2E+09	2150.04	4.74	NA	NA	NA	NA	NA	NA	NA
Q4 2012	71596.0	7.00	7000.00	270990.9	1.9E+09	1896.94	4.18	NA	NA	NA	NA	NA	NA	NA
Q1 2013	58716.8	7.36	7360.00	222243.1	1.6E+09	1635.71	3.61	16677.4	58.0	58000.0	63124.0	3661189622.0	3661.2	8.07
Q2 2013	65603.4	6.30	6300.00	248308.9	1.6E+09	1564.35	3.45	25523.2	50.2	50200.0	96605.3	4849586662.4	4849.6	10.69
Q3 2013	63515.4	7.22	7220.00	240405.8	1.7E+09	1735.73	3.83	25592.9	29.7	29700.0	96869.1	2877013057.1	2877.0	6.34
Q4 2013	60233.6	7.84	7840.00	227984.2	1.8E+09	1787.40	3.94	24952.2	45.2	45200.0	94444.1	4268872280.4	4268.9	9.41
Q1 2014	58992.9	7.28	7280.00	223288.1	1.6E+09	1625.54	3.58	24532.0	54.6	54600.0	92853.6	5069807652.0	5069.8	11.18
Q2 2014	60235.3	5.91	5910.00	227990.6	1.3E+09	1347.42	2.97	24193.9	47.2	47200.0	91573.9	4322288622.8	4322.3	9.53
Q3 2014	69229.4	5.30	5300.00	262033.3	1.4E+09	1388.78	3.06	24610.9	41.5	41500.0	93152.3	3865818644.8	3865.8	8.52
Q4 2014	64422.6	7.02	7020.00	243839.5	1.7E+09	1711.75	3.77	23956.9	54.9	54900.0	90676.9	4978159970.9	4978.2	10.97
Q1 2015	36941.3	7.70	7700.00	139822.8	1.1E+09	1076.64	2.37	22046.9	69.2	69200.0	83447.5	5774568141.8	5774.6	12.73
Q2 2015	68162.8	6.33	6330.00	257996.2	1.6E+09	1633.12	3.60	23191.6	47.1	47100.0	87780.2	4134447702.6	4134.4	9.11
Totals Since Q3 2010	1471093.4						84.88	235277.9						96.57

Highlighted cells are the total for the current quarter

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

	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)
Calculations and Data Origination														
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	35900.0	548229.2	19681429751.9	19681.4	43.39	99369.9	9.0	9000.0	376115.1	3385035643.5	3385.0	7.46
Q2 2013	187509.3	23.7	23700.0	709722.7	16820428001.9	16820.4	37.08	147310.4	5.2	5240.0	557569.9	2921666087.4	2921.7	6.44
Q3 2013	267703.5	32.6	32600.0	1013257.7	33032202568.5	33032.2	72.82	145840.9	5.69	5690.0	552007.8	3140924419.0	3140.9	6.92
Q4 2013	260555.3	34.6	34600.0	986201.8	34122582643.3	34122.6	75.23	126576.5	6.10	6100.0	479092.1	2922461520.3	2922.5	6.44
Q1 2014	229063.9	31.6	31600.0	867006.9	27397416823.4	27397.4	60.40	129979.2	2.16	2160.0	491971.3	1062657947.5	1062.7	2.34
Q2 2014	216984.1	35.0	35000.0	821284.8	28744968647.5	28745.0	63.37	124829.8	1.21	1210.0	472480.8	571701759.5	571.7	1.26
Q3 2014	213652.5	31.5	31500.0	808674.7	25473253443.8	25473.3	56.16	119663.9	1.60	1600.0	452927.9	724684578.4	724.7	1.60
Q4 2014	178468.7	35.7	35700.0	675504.0	24115493853.2	24115.5	53.17	107416.1	1.03	1030.0	406569.9	418767036.7	418.8	0.92
Q1 2015	92449.3	34.6	34600.0	349920.6	12107252777.3	12107.3	26.69	71452.4	14.40	14400.0	270447.3	3894441609.6	3894.4	8.59
Q2 2015	62664.2	31.8	31800.0	237184.0	7542451104.6	7542.5	16.63	91985.3	1.14	1140.0	348164.4	396907371.0	396.9	0.88
Totals Since Q3 2010	1853893.4						504.94	1164424.4						42.86

Highlighted cells are the total for the current quarter

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

	TWN-02							TW4-01						
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)
Calculations and Data Origination														
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	57300.0	117370.6	6725334176.7	6725.3	14.83	NA	NA	NA	NA	NA	NA	NA
Q2 2013	49579.3	57.7	57700.0	187657.7	10827846433.9	10827.8	23.87	NA	NA	NA	NA	NA	NA	NA
Q3 2013	50036.5	80.0	80000.0	189388.2	15151052200.0	15151.1	33.40	NA	NA	NA	NA	NA	NA	NA
Q4 2013	49979.9	111.0	111000.0	189173.9	20998305286.5	20998.3	46.29	NA	NA	NA	NA	NA	NA	NA
Q1 2014	48320.4	42.6	42600.0	182892.7	7791229616.4	7791.2	17.18	NA	NA	NA	NA	NA	NA	NA
Q2 2014	47611.9	44.7	44700.0	180211.0	8055433555.1	8055.4	17.76	NA	NA	NA	NA	NA	NA	NA
Q3 2014	46927.2	42.0	42000.0	177619.5	7460016984.0	7460.0	16.45	NA	NA	NA	NA	NA	NA	NA
Q4 2014	47585.6	70.6	70600.0	180111.5	12715871617.6	12715.9	28.03	NA	NA	NA	NA	NA	NA	NA
Q1 2015	47262.2	48.6	48600.0	178887.4	8693928952.2	8693.9	19.17	24569.2	7.1	7060.0	92994.4	656540619.3	656.5	1.45
Q2 2015	48497.3	52.8	52800.0	183562.3	9692088410.4	9692.1	21.37	23989.9	6.07	6070.0	90801.8	551166753.0	551.2	1.22
Totals Since Q3 2010	466809.7						238.34	48559.1						2.66

Highlighted cells are the total for the current quarter

Highlighted cells are the total for the current quarter

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

	TW4-02							TW4-11						
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)
Calculations and Data Origination														
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	5320.0	91433.1	486424142.5	486.4	1.07	9898.7	8.72	8720.0	37466.6	326708573.2	326.7	0.72
Q2 2015	22029.9	4.30	4300.0	83383.2	358547637.5	358.5	0.79	5243.3	8.48	8480.0	19845.9	168293151.4	168.3	0.37
Totals Since Q3 2010	46186.6						1.86	15142.0						1.09

Highlighted cells are the total for the current quarter

Highlighted cells are the total for the current quarter

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

	TW4-21							TW4-37							
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)	Total Removed by All Wells (pounds)
Calculations and Data Origination															
Q3 2010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	15.69
Q4 2010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	27.97
Q1 2011	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	73.30
Q2 2011	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	27.01
Q3 2011	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	16.82
Q4 2011	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	19.71
Q1 2012	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	15.86
Q2 2012	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	15.03
Q3 2012	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	14.67
Q4 2012	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	14.92
Q1 2013	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	95.73
Q2 2013	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	91.71
Q3 2013	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	176.53
Q4 2013	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	162.07
Q1 2014	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	103.14
Q2 2014	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	101.87
Q3 2014	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	92.99
Q4 2014	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	108.57
Q1 2015	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	82.61
Q2 2015	30743.7	13.10	13100.0	116364.9	1524380249.0	1524.4	3.36	29206.0	35.20	35200.0	110544.7	3891173792.0	3891.2	8.58	68.86
Totals Since Q3 2010	30743.7						3.36	29206.0						8.58	1325.04

Highlighted cells are the total for the current quarter

Highlighted cells are the total for the current quarter

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

Location	Q2 2010	Q3 2010	Q4 2010	Q1 2011	Q2 2011	Q3 2011	Q4 2011	Q1 2012	Q2 2012	Q3 2012	Q4 2012	Q1 2013	Q2 2013	Q3 2013	Q4 2013	Q1 2014	Q2 2014	Q3 2014	Q4 2014	Q1 2015	Q2 2015
MW-30	15.8	15	16	16	17	16	16	17	16	17	18.5	21.4	18.8	17.6	19.5	18.4	19.4	16.8	16.2	14.9	17.0
MW-31	22.5	21	20	21	22	21	21	21	20	21	23.6	19.3	23.8	21.7	23.9	20.6	23.1	18.9	20.9	18.7	19.0
MW-5	ND	NS	0.2	NS	0.2	NS	0.2	NS	0.1	NS	ND	NS	ND	NS	0.279	NS	ND	NS	0.21	NS	0.142
MW-11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = Not detected
NS = Not Sampled

TABLE 6
Slug 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 Aqtesolve™.

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 8
Pre-Pumping Hydraulic Gradients and Flow Calculations

Pathline Boundaries	Path Length (ft)	Head Change (ft)	Hydraulic Gradient (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

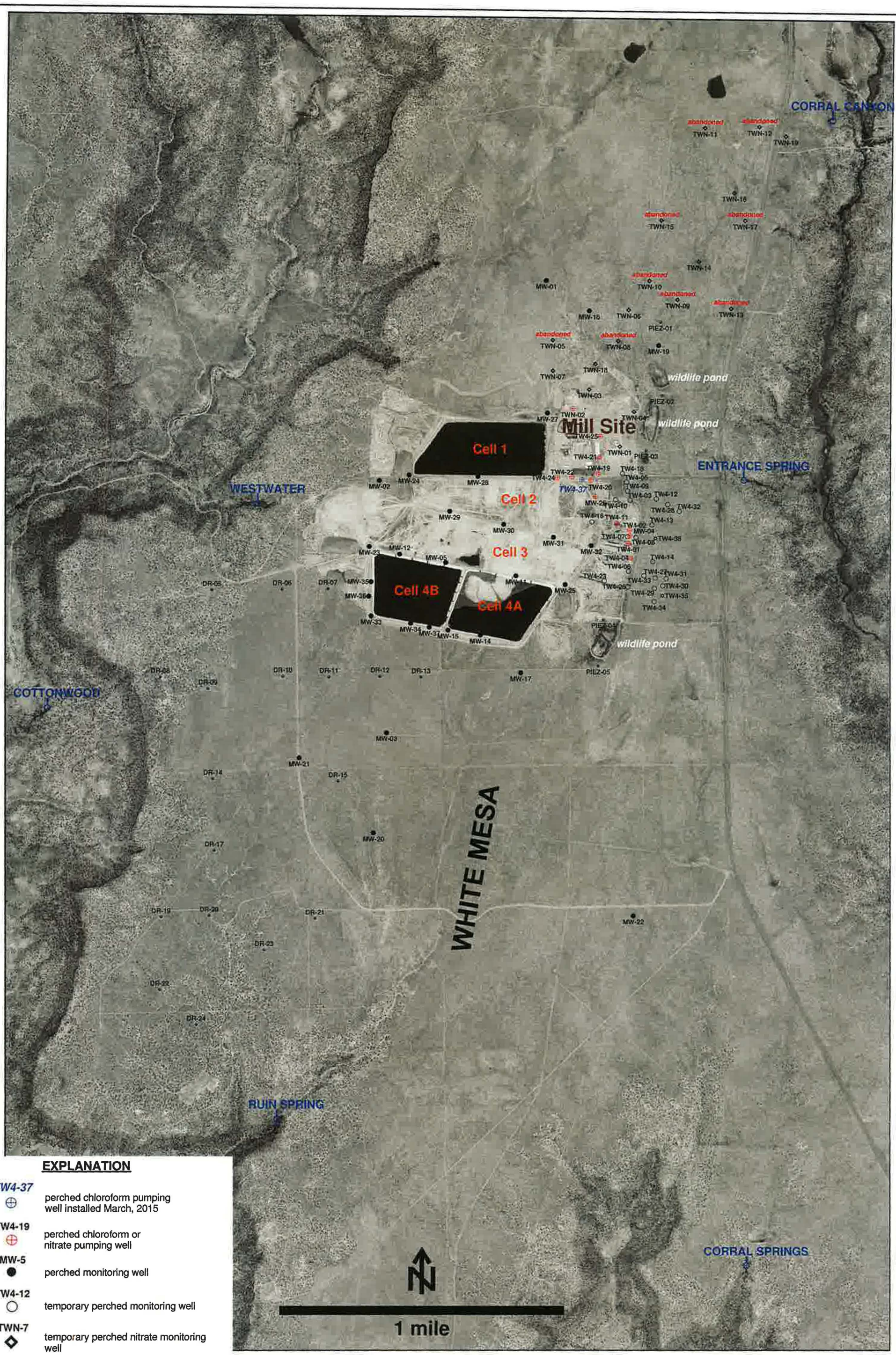
gpm = gallons per minute

[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

Tab A

Site Plan and Perched Well Locations White Mesa Site



EXPLANATION

TW4-37	perched chloroform pumping well installed March, 2015
TW4-19	perched chloroform or nitrate pumping well
MW-5	perched monitoring well
TW4-12	temporary perched monitoring well
TWN-7	temporary perched nitrate monitoring well
PIEZ-1	perched piezometer
TW4-35	temporary perched monitoring well installed May, 2014
RUIN SPRING	seep or spring

HYDRO GEO CHEM, INC.

WHITE MESA SITE PLAN SHOWING LOCATIONS OF PERCHED WELLS AND PIEZOMETERS

APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/aug15/Uwelloc0615.srf	A-1

Tab B

Order of Sampling and Field Data Worksheets

Nitrate Order
2nd Quarter 2015

Nitrate Samples

Name	Nitrate Mg/L Previous Qrt.	Date/Purge	sample	Depth	Total Depth
TWN-18	1	5/13/15	0839		145
TWN-7	1.04	5/14/15	0633		105
TWN-1	1.37	5/13/15	1208		112.5
TWN-4	1.48	5/13/15	1242		125.7
TWN-3	19.4	5/14/15	0648		96
TWN-2	48.6	5/12/15	~~1300~~	1340	96
TWN-65 Duplicate of	TWN-18	05/13/15	0839		
Rinsate					
DI Sample		5/13/15	1345		
Piez 1	6.41	5/12/15	1325		
Piez 2	0.749	5/12/15	1300		
Piez 3	1.82	5/12/15	1310		

Rinsate Samples

Name	Date	Sample
TWN-18R	5/13/15	0812
TWN-7R		
TWN-1R		
TWN-4R		
TWN-3R		
TWN-2R		

Samplers: _____

_____

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

See instruction

Description of Sampling Event: 2nd Quarter Nitrate 2015

Location (well name): Piez-01

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: Piez-01_05122015

Date and Time for Purging: 5/12/2015 and Sampling (if different): N/A

Well Purging Equip Used: ☐ pump or ☒ bailer

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

Purging Method Used: ☐ 2 casings ☐ 3 casings

Sampling Event: Quarterly Nitrate

Prev. Well Sampled in Sampling Event: Piez-03

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 1000 µMHOS/ cm

Well Depth(0.01ft): 0

Depth to Water Before Purging: 64.48

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

Weather Cond.: Sunny/Windy

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

Time	1324	Gal. Purged	0
Conductance	2127	pH	8.50
Temp. °C	15.91		
Redox Potential Eh (mV)	240		
Turbidity (NTU)	0.8		

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

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

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

Volume of Water Purged [0] gallon(s)

Pumping Rate Calculation

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

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

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

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

Name of Certified Analytical Laboratory if Other Than Energy Labs [AWAL]

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

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

Final Depth [64.61] Sample Time [1325]

See instruction

Comment

Arrived on site at 1319 Tanner and Garrin present to collect samples.
Samples bailed at 1325 water was mostly clear with some particles floating.
Left site at 1328

Piez-01 05-12-2015 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 2nd Quarter Nitrate 2015

Location (well name): Piez-02

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: Piez-02_05122015

Date and Time for Purging: 5/12/2015 and Sampling (if different): N/A

Well Purging Equip Used: ☐ pump or ☑ bailer

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

Purging Method Used: ☐ 2 casings ☐ 3 casings

Sampling Event: Quarterly Nitrate

Prev. Well Sampled in Sampling Event: N/A

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 1000 µMHOS/ cm

Well Depth(0.01ft): 0

Depth to Water Before Purging: 37.20

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

Weather Cond.: Sunny, Windy

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

Time	1259	Gal. Purged	0
Conductance	822	pH	7.39
Temp. °C	15.92		
Redox Potential Eh (mV)	192		
Turbidity (NTU)	6.4		

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

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

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

Volume of Water Purged [0] gallon(s)

Pumping Rate Calculation

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

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

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

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

Name of Certified Analytical Laboratory if Other Than Energy Labs [AWAL]

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

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

Final Depth [39.98] Sample Time [1300]

See instruction

Comment

Arrived on site at 1254 Tanner and Garrin present to collect samples.
Samples bailed at 1300 water was mostly clear.
Left site at 1303

Piez-02 05-12-2015 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 2nd Quarter Nitrate 2015

Location (well name): Piez-03

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: Piez-03_05122015

Date and Time for Purging: 5/12/2015 and Sampling (if different): N/A

Well Purging Equip Used: ☐ pump or ☑ bailer

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

Purging Method Used: ☐ 2 casings ☐ 3 casings

Sampling Event: Quarterly Nitrate

Prev. Well Sampled in Sampling Event: Piez-02

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 1000 µMHOS/ cm

Well Depth(0.01ft): 0

Depth to Water Before Purging: 48.21

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

Weather Cond.: Sunny, Windy

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

Time	1309	Gal. Purged	0
Conductance	2632	pH	12.01
Temp. °C	15.71		
Redox Potential Eh (mV)	90		
Turbidity (NTU)	4.2		

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

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

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

Volume of Water Purged [0] gallon(s)

Pumping Rate Calculation

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

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

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

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

Name of Certified Analytical Laboratory if Other Than Energy Labs [AWAL]

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

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

Final Depth [54.15] Sample Time [1310]

See instruction

Comment

Arrived on site at 1305 Tanner and Garrin present to collect samples.
Samples bailed at 1310 water was mostly clear with a few particles floating
Left site at 1313

Piez-03 05-12-2015 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 2nd Quarter Nitrate 2015

Location (well name): TWN-01

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID TWN-01_05132015

Date and Time for Purging 5/13/2015 and Sampling (if different) N/A

Well Purging Equip Used: ☒ pump or ☐ bailer

Well Pump (if other than Bennet) Grundfos

Purging Method Used: ☒ 2 casings ☐ 3 casings

Sampling Event Quarterly Nitrate

Prev. Well Sampled in Sampling Event TWN-07

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 1000 µMHOS/ cm

Well Depth(0.01ft): 112.50

Depth to Water Before Purging 61.03

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

Weather Cond. Partly Cloudy

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

Time	1205	Gal. Purged	55
Conductance	842	pH	6.88
Temp. °C	15.25		
Redox Potential Eh (mV)	333		
Turbidity (NTU)	8.0		

Time	1206	Gal. Purged	66
Conductance	849	pH	6.94
Temp. °C	15.25		
Redox Potential Eh (mV)	331		
Turbidity (NTU)	8.0		

Time	1207	Gal. Purged	77
Conductance	853	pH	6.96
Temp. °C	15.23		
Redox Potential Eh (mV)	329		
Turbidity (NTU)	8.1		

Time	1208	Gal. Purged	88
Conductance	858	pH	6.98
Temp. °C	15.24		
Redox Potential Eh (mV)	328		
Turbidity (NTU)	8.2		

Volume of Water Purged 88 gallon(s)

Pumping Rate Calculation

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

Time to evacuate two casing volumes (2V)
T = 2V/Q = 6.11

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

If well evacuated to dryness, number of gallons evacuated 0

Name of Certified Analytical Laboratory if Other Than Energy Labs AWAL

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

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

Final Depth 107.24 Sample Time 1208

See instruction

Comment

Arrived on site at 1157 Tanner and Garrin present for purge and sampling event.
Purge began at 1200 Purged well for a total of 8 minutes.
Purge ended and samples collected at 1208 water was clear
Left site at 1211

TWN-01 05-13-2015 Do not touch this cell (SheetName)

ENERGY FUELS

See instruction

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

Description of Sampling Event: 2nd Quarter Nitrate 2015

Location (well name): TWN-02

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TWN-02_05122015

Date and Time for Purging: 5/12/2015 and Sampling (if different): N/A

Well Purging Equip Used: ☒ pump or ☐ bailer

Well Pump (if other than Bennet): Continuous

Purging Method Used: ☒ 2 casings ☐ 3 casings

Sampling Event: Quarterly Nitrate

Prev. Well Sampled in Sampling Event: Piez-01

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 1000 µMHOS/ cm

Well Depth(0.01ft): 96.00

Depth to Water Before Purging: 29.04

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

Weather Cond.: Sunny, Windy

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

Time	1339	Gal. Purged	0
Conductance	3182	pH	6.60
Temp. °C	14.75		
Redox Potential Eh (mV)	322		
Turbidity (NTU)	0		

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

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

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

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Volume of Water Purged [0] gallon(s)

Pumping Rate Calculation

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

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

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

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

Name of Certified Analytical Laboratory if Other Than Energy Labs [AWAL]

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

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

Final Depth [47.26] Sample Time [1340]

See instruction

Comment

Arrived on site at 1336 Tanner and Garrin present to collect samples
Samples collected at 1340 water was clear
Left site at 1342

Continuous Pumping well

[ ] Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 2nd Quarter Nitrate 2015

Location (well name): TWN-03

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TWN-03_05142015

Date and Time for Purging: 5/13/2015 and Sampling (if different): 5/14/2015

Well Purging Equip Used: ☒ pump or ☐ bailer

Well Pump (if other than Bennet): Grundfos

Purging Method Used: ☒ 2 casings ☐ 3 casings

Sampling Event: Quarterly Nitrate

Prev. Well Sampled in Sampling Event: TWN-04

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 1000 µMHOS/ cm

Well Depth(0.01ft): 96.00

Depth to Water Before Purging: 37.85

Casing Volume (V) 4" Well: 37.97 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Partly Cloudy

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

Time	1311	Gal. Purged	49.50
Conductance	2270	pH	6.83
Temp. °C	14.97		
Redox Potential Eh (mV)	354		
Turbidity (NTU)	70		

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

Time	0647	Gal. Purged	0
Conductance	2233	pH	7.08
Temp. °C	13.43		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Before

Time	0649	Gal. Purged	0
Conductance	2243	pH	7.06
Temp. °C	13.45		
Redox Potential Eh (mV)			
Turbidity (NTU)			

After

Volume of Water Purged 49.50 gallon(s)

Pumping Rate Calculation

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

Time to evacuate two casing volumes (2V)
T = 2V/Q = 6.90

Number of casing volumes evacuated (if other than two) 1.30

If well evacuated to dryness, number of gallons evacuated 49.50

Name of Certified Analytical Laboratory if Other Than Energy Labs AWAL

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

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

Final Depth 93.98 Sample Time 0648

See instruction

Comment

Arrived on site at 1304 Tanner and Garrin present for purge. Purge began at 1307 Purged well for a total of 4 minutes 30 seconds. Purged well dry! Purge ended at 1311 water was a little murky. Left site at 1313
Arrived on site at 0643 Tanner and Garrin present to collect samples. Depth to water was 38.16 Samples bailed at 0648 Left site at 0651

TWN-03 05-13-2013 Do not touch this cell (SheetName)

ENERGY FUELS

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

See instruction

Description of Sampling Event: 2nd Quarter Nitrate 2015

Location (well name): TWN-04

Sampler Name and initials: Tanner Holliday /TH

Field Sample ID TWN-04_05132015

Date and Time for Purging 5/13/2015 and Sampling (if different) N/A

Well Purging Equip Used: ☒ pump or ☐ bailer

Well Pump (if other than Bennet) Grundfos

Purging Method Used: ☒ 2 casings ☐ 3 casings

Sampling Event Quarterly Nitrate

Prev. Well Sampled in Sampling Event TWN-01

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 1000 µMHOS/ cm

Well Depth(0.01ft): 125.70

Depth to Water Before Purging 53.02

Casing Volume (V) 4" Well: 47.46 (.653h)
3" Well: 0 (.367h)

Weather Cond. Partly Cloudy

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

Time	1239	Gal. Purged	88
Conductance	1056	pH	6.75
Temp. °C	14.88		
Redox Potential Eh (mV)	328		
Turbidity (NTU)	12.7		

Time	1240	Gal. Purged	99
Conductance	1064	pH	6.76
Temp. °C	14.87		
Redox Potential Eh (mV)	328		
Turbidity (NTU)	12.8		

Time	1241	Gal. Purged	110
Conductance	1064	pH	6.77
Temp. °C	14.87		
Redox Potential Eh (mV)	327		
Turbidity (NTU)	12.9		

Time	1242	Gal. Purged	121
Conductance	1063	pH	6.77
Temp. °C	14.87		
Redox Potential Eh (mV)	326		
Turbidity (NTU)	13.0		

Volume of Water Purged 121 gallon(s)

Pumping Rate Calculation

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

Time to evacuate two casing volumes (2V)
T = 2V/Q = 8.62

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

If well evacuated to dryness, number of gallons evacuated 0

Name of Certified Analytical Laboratory if Other Than Energy Labs AWAL

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

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

Final Depth 54.55 Sample Time 1242

See instruction

Comment

Arrived on site at 1229 Tanner and Garrin present for purge and sampling event.
Purge began at 1231 Purged well for a total of 11 minutes.
Purge ended and samples collected at 1242 water was mostly clear
Left site at 1246

TWN-04 05-13-2013 Do not touch this cell (SheetName)

ENERGY FUELS

See instruction

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

Description of Sampling Event: 2nd Quarter Nitrate 2015

Location (well name): TWN-07

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID TWN-07_05142015

Date and Time for Purging 5/13/2015 and Sampling (if different) 5/14/2015

Well Purging Equip Used: ☒ pump or ☐ bailer

Well Pump (if other than Bennet) Grundfos

Purging Method Used: ☒ 2 casings ☐ 3 casings

Sampling Event Quarterly Nitrate

Prev. Well Sampled in Sampling Event TWN-18

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 1000 µMHOS/ cm

Well Depth(0.01ft): 105.00

Depth to Water Before Purging 85.61

Casing Volume (V) 4" Well: 12.66 (.653h)
3" Well: 0 (.367h)

Weather Cond. Partly Cloudy

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

Time	0906	Gal. Purged	16.50
Conductance	1240	pH	7.06
Temp. °C	15.11		
Redox Potential Eh (mV)	382		
Turbidity (NTU)	11.9		

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

Time	0632	Gal. Purged	0
Conductance	1294	pH	7.24
Temp. °C	14.71		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Before

Time	0633	Gal. Purged	0
Conductance	1281	pH	7.28
Temp. °C	14.73		
Redox Potential Eh (mV)			
Turbidity (NTU)			

After

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Volume of Water Purged 16.50 gallon(s)

Pumping Rate Calculation

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

Time to evacuate two casing volumes (2V)
T = 2V/Q = 2.30

Number of casing volumes evacuated (if other than two) 1.30

If well evacuated to dryness, number of gallons evacuated 16.50

Name of Certified Analytical Laboratory if Other Than Energy Labs AWAL

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

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

Final Depth 103.12 Sample Time 0633

See instruction

Comment

Arrived on site at 0903. Tanner and Garrin present for purge. Purge began at 0905
Purged well for a total of 1 minute 30 seconds. Purged well dry. Purge ended at 0906
water was clear. Left site at 0909
Arrived on site at 0629 Tanner present to collect samples. Depth to water was ~~92.7~~ 95.27
samples bailed at 0633 Left site at 0636

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

See instruction

Description of Sampling Event: 2nd Quarter Nitrate 2015

Location (well name): TWN-18

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID TWN-18_05132015

Date and Time for Purging 5/13/2015 and Sampling (if different) N/A

Well Purging Equip Used: ☒ pump or ☐ bailer

Well Pump (if other than Bennet) Grundfos

Purging Method Used: ☒ 2 casings ☐ 3 casings

Sampling Event Quarterly Nitrate

Prev. Well Sampled in Sampling Event TWN-18R

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 1000 µMHOS/ cm

Well Depth(0.01ft): 145.00

Depth to Water Before Purging 59.78

Casing Volume (V) 4" Well: 55.64 (.653h)
3" Well: 0 (.367h)

Weather Cond. Partly Cloudy

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

Time	0836	Gal. Purged	99
Conductance	2195	pH	6.62
Temp. °C	14.53		
Redox Potential Eh (mV)	417		
Turbidity (NTU)	18.4		

Time	0837	Gal. Purged	110
Conductance	2197	pH	6.61
Temp. °C	14.51		
Redox Potential Eh (mV)	417		
Turbidity (NTU)	18.5		

Time	0838	Gal. Purged	121
Conductance	2197	pH	6.60
Temp. °C	14.53		
Redox Potential Eh (mV)	416		
Turbidity (NTU)	18.6		

Time	0839	Gal. Purged	132
Conductance	2200	pH	6.60
Temp. °C	14.53		
Redox Potential Eh (mV)	419		
Turbidity (NTU)	18.7		

Volume of Water Purged 132 gallon(s)

Pumping Rate Calculation

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

Time to evacuate two casing volumes (2V)
T = 2V/Q = 10.11

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

If well evacuated to dryness, number of gallons evacuated 0

Name of Certified Analytical Laboratory if Other Than Energy Labs AWAL

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

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

Final Depth 61.35 Sample Time 0839

See instruction

Comment

Arrived on site at 0823 Tanner and Garrin present for purge and sampling event.
Purge began at 0827 Purged well for a total of 12 minutes.
Purge ended and samples collected at 0839
Water was clear throughout purge
Left site at 0842

TWN-18 05-13-2015 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 2nd Quarter Nitrate 2015

Location (well name): TWN-18R

Sampler Name and initials: Tanner Holliday /TH

Field Sample ID TWN-18R_05132015

Date and Time for Purging 5/13/2015 and Sampling (if different) N/A

Well Purging Equip Used: ☒ pump or ☐ bailer

Well Pump (if other than Bennet) Grundfos

Purging Method Used: ☐ 2 casings ☐ 3 casings

Sampling Event Quarterly Nitrate

Prev. Well Sampled in Sampling Event ~~TWN-02~~ TWN-02 TWN-02

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 1000 µMHOS/ cm

Well Depth(0.01ft): 0

Depth to Water Before Purging 0

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

Weather Cond. Partly Cloudy

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

Time	0811	Gal. Purged	121
Conductance	1.4	pH	8.17
Temp. °C	17.71		
Redox Potential Eh (mV)	438		
Turbidity (NTU)	0		

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

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

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

Volume of Water Purged 150 gallon(s)

Pumping Rate Calculation

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

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

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

If well evacuated to dryness, number of gallons evacuated 0

Name of Certified Analytical Laboratory if Other Than Energy Labs AWAL

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

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

Final Depth 0 Sample Time 0812

See instruction

Comment

Arrived on site at 0758 Tanner and Garrin present for rinsate
Rinsate began at 0800 Pumped 50 Gallons of soap water and 100 Gallons of DI water. Samples collected at 0812
Left site at 0815

TWN-18R 05-13-2015 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 2nd Quarter Chloroform 2015

Location (well name): TW4-22

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-22_06082015

Date and Time for Purging: 6/8/2015 and Sampling (if different): N/A

Well Purging Equip Used: ☒ pump or ☐ bailer

Well Pump (if other than Bennet): Continuous

Purging Method Used: ☒ 2 casings ☐ 3 casings

Sampling Event: Quarterly Chloroform

Prev. Well Sampled in Sampling Event: TW4-24

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 1000 µMHOS/ cm

Well Depth(0.01ft): 113.50

Depth to Water Before Purging: 57.50

Casing Volume (V) 4" Well: 36.56 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Sunny

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

Time	1454	Gal. Purged	0
Conductance	5802	pH	6.59
Temp. °C	16.11		
Redox Potential Eh (mV)	312		
Turbidity (NTU)	0		

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

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

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

Volume of Water Purged: 0 gallon(s)

Pumping Rate Calculation

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

Time to evacuate two casing volumes (2V)
T = 2V/Q = 4.30

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

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

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

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

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

Final Depth: 84.71

Sample Time: 1455

See instruction

Comment

Arrived on site at 1450 Tanner and Garrin present to collect samples.
Samples collected at 1455 water was clear
Left site at 1457

Continuous Pumping Well

TW4-22 06-08-2015 Do not touch this cell (SheetName)

ENERGY FUELS

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

See instruction

Description of Sampling Event: 2nd Quarter Chloroform 2015

Location (well name): TW4-24

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-24_06082015

Date and Time for Purging: 6/8/2015 and Sampling (if different): N/A

Well Purging Equip Used: ☒ pump or ☐ bailer

Well Pump (if other than Bennet): Continuous

Purging Method Used: ☒ 2 casings ☐ 3 casings

Sampling Event: Quarterly Chloroform

Prev. Well Sampled in Sampling Event: TW4-25

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 1000 µMHOS/ cm

Well Depth(0.01ft): 112.50

Depth to Water Before Purging: 62.68

Casing Volume (V) 4" Well: 32.53 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Sunny

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

Time	1440	Gal. Purged	0
Conductance	8059	pH	6.46
Temp. °C	16.14		
Redox Potential Eh (mV)	330		
Turbidity (NTU)	0		

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

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

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

Volume of Water Purged 0 gallon(s)

Pumping Rate Calculation

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

Time to evacuate two casing volumes (2V)
T = 2V/Q = 4.06

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

If well evacuated to dryness, number of gallons evacuated 0

Name of Certified Analytical Laboratory if Other Than Energy Labs AWAL

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

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

Final Depth 68.36 Sample Time 1441

See instruction

Comment

Arrived on site at 1437 Tanner and Garrin present to collect samples.
Samples collected at 1441 water was clear
Left site at 1444

Continuous Pumping well

TW4-24 06-08-2015 Do not touch this cell (SheetName)

ENERGY FUELS

See instruction

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

Description of Sampling Event: 2nd Quarter Chloroform 2015

Location (well name): TW4-25

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-25_06082015

Date and Time for Purging: 6/8/2015 and Sampling (if different): N/A

Well Purging Equip Used: ☒ pump or ☐ bailer

Well Pump (if other than Bennet): Continuous

Purging Method Used: ☒ 2 casings ☐ 3 casings

Sampling Event: Quarterly Chloroform

Prev. Well Sampled in Sampling Event: TW4-21

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 1000 µMHOS/ cm

Well Depth(0.01ft): 134.80

Depth to Water Before Purging: 61.80

Casing Volume (V) 4" Well: 47.66 (.653h)
3" Well: 0 (.367h)

Weather Cond.: Sunny

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

Time	1427	Gal. Purged	0
Conductance	2792	pH	6.71
Temp. °C	16.56		
Redox Potential Eh (mV)	286		
Turbidity (NTU)	0		

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

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

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

Volume of Water Purged: 0 gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = 15.60

Time to evacuate two casing volumes (2V)
T = 2V/Q = 6.11

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

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

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

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

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

Final Depth: 67.24

Sample Time: 1428

See instruction

Comment

Arrived on site at 1424 Tanner and Garrin present to collect samples
Samples collected at 1428 Water was clear
Left site at 1430

Continuous Pumping Well

TW4-25 06-08-2015 Do not touch this cell (SheetName)

ENERGY FUELS

See instruction

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

Description of Sampling Event: 2nd Quarter Chloroform 2015

Location (well name): TW4-60

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TW4-60_06112015

Date and Time for Purging: 6/11/2015 and Sampling (if different): N/A

Well Purging Equip Used: ☒ pump or ☐ bailer

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

Purging Method Used: ☒ 2 casings ☐ 3 casings

Sampling Event: Quarterly Chloroform

Prev. Well Sampled in Sampling Event: MW-32

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 1000 µMHOS/ cm

Well Depth(0.01ft): 0

Depth to Water Before Purging: ~~63.9~~ 0

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

Weather Cond.: Clear

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

Time	0829	Gal. Purged	0
Conductance	0.9	pH	7.83
Temp. °C	20.64		
Redox Potential Eh (mV)	345		
Turbidity (NTU)	0		

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

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

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

Volume of Water Purged [0] gallon(s)

Pumping Rate Calculation

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

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

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

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

Name of Certified Analytical Laboratory if Other Than Energy Labs [AWAL]

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

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

Final Depth [0] Sample Time [0630]

See instruction

Comment

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ENERGYFUELS

See instruction

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

Description of Sampling Event: 2nd Quarter Nitrate 2015

Location (well name): TWN-60

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TWN-60_05132015

Date and Time for Purging: 5/13/2015 and Sampling (if different): N/A

Well Purging Equip Used: ☒ pump or ☐ bailer

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

Purging Method Used: ☐ 2 casings ☐ 3 casings

Sampling Event: Quarterly Nitrate

Prev. Well Sampled in Sampling Event: TWN-03

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 1000 µMHOS/ cm

Well Depth(0.01ft): 0

Depth to Water Before Purging: 0

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

Weather Cond.: Clear

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

Time	1344	Gal. Purged	0
Conductance	0.3	pH	8.40
Temp. °C	17.43		
Redox Potential Eh (mV)	276		
Turbidity (NTU)	0		

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

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

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

Volume of Water Purged [0] gallon(s)

Pumping Rate Calculation

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

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

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

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

Name of Certified Analytical Laboratory if Other Than Energy Labs [AWAL]

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

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

Final Depth [0] Sample Time [1345]

See instruction

Comment

DI Sample

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ENERGYFUELS

See instruction

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

Description of Sampling Event: 2nd Quarter Nitrate 2015

Location (well name): TWN-65

Sampler Name and initials: Tanner Holliday /TH

Field Sample ID TWN-65_05132015

Date and Time for Purging 5/13/2015 and Sampling (if different) N/A

Well Purging Equip Used: ☒ pump or ☐ bailer

Well Pump (if other than Bennet) Grundfos

Purging Method Used: ☒ 2 casings ☐ 3 casings

Sampling Event Quarterly Nitrate

Prev. Well Sampled in Sampling Event TWN-18R

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 1000 µMHOS/ cm

Well Depth(0.01ft): 145.00

Depth to Water Before Purging 59.78

Casing Volume (V) 4" Well: 55.64 (.653h)
3" Well: 0 (.367h)

Weather Cond. Partly Cloudy

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

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

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

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

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

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Volume of Water Purged 132.00 gallon(s)

Pumping Rate Calculation

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

Time to evacuate two casing volumes (2V)
T = 2V/Q = 10.11

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

If well evacuated to dryness, number of gallons evacuated 0

Name of Certified Analytical Laboratory if Other Than Energy Labs AWAL

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

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

Final Depth 61.35 Sample Time 0839

See instruction

Comment

Duplicate of TWN-18

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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: Garrin Palmer, Tanner Holliday

DATE: 6/22/15

Time	Well	Depth to Water (ft.)	Time	Well	Depth to Water (ft.)	Time	Well	Depth to Water (ft.)	Time	Well	Depth to Water (ft.)
955	MW-1	64.15	1058	MW-4	66.31	941	PIEZ-1	64.45	NA	DR-1	ABANDON
815	MW-2	109.82	1100	TW4-1	74.40	937	PIEZ-2	37.66	NA	DR-2	ABANDON
757	MW-3	82.70	1055	TW4-2	73.42	932	PIEZ-3	52.08			
757	MW-3A	84.71	1551	TW4-3	55.61	1606	PIEZ-4	56.86			
836	MW-5	106.20	1103	TW4-4	73.82	1603	PIEZ-5	56.25	1357	DR-5	83.10
804	MW-11	86.25	1548	TW4-5	63.24				1401	DR-6	94.30
838	MW-12	108.35	1557	TW4-6	71.00	927	TWN-1	61.30	849	DR-7	92.20
902	MW-14	103.30	1555	TW4-7	65.19	1033	TWN-2	28.05	1352	DR-8	51.26
858	MW-15	106.25	1552	TW4-8	73.60	1006	TWN-3	38.50	1350	DR-9	86.55
744	MW-17	72.15	1550	TW4-9	61.11	934	TWN-4	53.70	1347	DR-10	78.19
1002	MW-18	71.75	1546	TW4-10	60.91		TWN-5	ABANDON	752	DR-11	98.27
939	MW-19	60.84	1052	TW4-11	96.55	952	TWN-6	77.90	749	DR-12	90.74
1253	MW-20	90.15	736	TW4-12	45.00	959	TWN-7	85.80	747	DR-13	69.91
1247	MW-22	66.78	734	TW4-13	50.78		TWN-8	ABANDON	1327	DR-14	76.37
841	MW-23	114.13	731	TW4-14	81.37		TWN-9	ABANDON	1405	DR-15	92.95
832	MW-24	113.38	1050	TW4-15	66.94		TWN-10	ABANDON		DR-16	ABANDON
1608	MW-25	75.91	1614	TW4-16	63.40		TWN-11	ABANDON	1323	DR-17	64.90
1050	MW-26	66.94	1611	TW4-17	76.95		TWN-12	ABANDON		DR-18	ABANDON
921	MW-27	53.76	924	TW4-18	64.15		TWN-13	ABANDON	1309	DR-19	63.07
830	MW-28	75.50	1009	TW4-19	68.60	945	TWN-14	61.55	1306	DR-20	55.40
811	MW-29	101.08	1048	TW4-20	61.28		TWN-15	ABANDON	1257	DR-21	101.20
1613	MW-30	75.51	1026	TW4-21	64.50	948	TWN-16	47.71	1318	DR-22	60.65
1617	MW-31	68.55	1042	TW4-22	58.07		TWN-17	ABANDON	1302	DR-23	70.56
1611	MW-32	76.95	1558	TW4-23	68.15	930	TWN-18	60.00	1314	DR-24	44.31
850	MW-33	DRY	1034	TW4-24	62.45	1158	TWN-19	53.38	NA	DR-25	ABANDON
854	MW-34	107.87	1030	TW4-25	63.00						
843	MW-35	112.42	1600	TW4-26	65.52						
846	MW-36	110.56	721	TW4-27	80.08						
858	MW-37	113.74	737	TW4-28	39.17						
			729	TW4-29	73.11						
			724	TW4-30	76.33						
			723	TW4-31	80.76						
			739	TW4-32	50.69						
			719	TW4-33	71.75						
			727	TW4-34	71.10						
			726	TW4-35	74.20						
			733	TW4-36	56.51						
			1044	TW4-37	59.86						

NOTES:

Weekly Inspection Form

Date 4/6/15 **Name** Garrin Palmer

Time	Well	Depth*	Comments		System Operational (If no note any problems/corrective actions)
1359	MW-4	76.35	Flow	4.6 GPM	Yes No
			Meter	635482.80	Yes No
1350	MW-26	70.11	Flow	11.0 GPM	Yes No
			Meter	505382.00	Yes No
1323	TW4-19	62.70	Flow	8.4 GPM	Yes No
			Meter	3149291.08	Yes No
1348	TW4-20	62.54	Flow	9.3 GPM	Yes No
			Meter	62543.73	Yes No
1405	TW4-4	72.40	Flow	11.0 GPM	Yes No
			Meter	66837.60	Yes No
1337	TWN-2	28.00	Flow	18.8 GPM	Yes No
			Meter	422001.40	Yes No
1348	TW4-22	59.01	Flow	17.7 GPM	Yes No
			Meter	214097.30	Yes No
1344	TW4-24	72.91	Flow	16.9 GPM	Yes No
			Meter	1796430.20	Yes No
1334	TW4-25	57.10	Flow	16.0 GPM	Yes No
			Meter	1072440.40	Yes No
1402	TW4-1	73.47	Flow	17.6 GPM	Yes No
			Meter	25649.40	Yes No
1357	TW4-2	75.36	Flow	17.0 GPM	Yes No
			Meter	25748.60	Yes No
1353	TW4-11	91.14	Flow	17.0 GPM	Yes No
			Meter	10275.50	Yes No
	TW4-21		Flow		Yes No
			Meter		Yes No

Operational Problems (Please list well number): TW4-21 not in operation.

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

* Depth is measured to the nearest 0.01 feet.

Weekly Inspection Form

Date 4-13-15 **Name** Garrin Palmer, Tanner Holliday

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)
1256	MW-4	77.11	Flow 4.4 GPM	(Yes) No
			Meter 641772.06	(Yes) No
1247	MW-26	64.73	Flow 11.0 GPM	(Yes) No
			Meter 508567.01	(Yes) No
1332	TW4-19	64.62	Flow 7.8 GPM	(Yes) No
			Meter 3152918.00	(Yes) No
1245	TW4-20	63.11	Flow 9.2 GPM	(Yes) No
			Meter 64082.85	(Yes) No
1254	TW4-4	78.60	Flow 8.4 GPM	(Yes) No
			Meter 72284.00	(Yes) No
1231	TWN-2	28.65	Flow 18.8 GPM	(Yes) No
			Meter 425719.30	(Yes) No
1242	TW4-22	59.40	Flow 17.1 GPM	(Yes) No
			Meter 215954.40	(Yes) No
1238	TW4-24	73.62	Flow 18.8 GPM	(Yes) No
			Meter 1801201.50	(Yes) No
1228	TW4-25	57.38	Flow 16.0 GPM	(Yes) No
			Meter 1072450.70	(Yes) No
1256	TW4-1	85.00	Flow 17.0 GPM	(Yes) No
			Meter 27141.40	(Yes) No
1253	TW4-2	84.30	Flow 17.0 GPM	(Yes) No
			Meter 27428.10	(Yes) No
1250	TW4-11	92.41	Flow 17.0 GPM	(Yes) No
			Meter 10731.00	(Yes) No
	TW4-21		Flow	Yes No
			Meter	Yes No

Operational Problems (Please list well number): TW4-21 not in operation

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

* Depth is measured to the nearest 0.01 feet.

Weekly Inspection Form

Date 4-20-15 **Name** Garrin Palmer / Tanner Holliday

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)
1402	MW-4	74.90	Flow 4.6 GPM	(Yes) No
			Meter 64802.20	(Yes) No
1351	MW-26	64.52	Flow 12.0 GPM	(Yes) No
			Meter 510466.40	(Yes) No
1442	TW4-19	62.88	Flow 5.0 GPM	(Yes) No
			Meter 3156501.40	(Yes) No
1347	TW4-20	62.20	Flow 9.1 GPM	(Yes) No
			Meter 65522.60	(Yes) No
1408	TW4-4	80.10	Flow 8.4 GPM	(Yes) No
			Meter 77620.62	(Yes) No
1336	TWN-2	28.92	Flow 18.6 GPM	(Yes) No
			Meter 429700.60	(Yes) No
1343	TW4-22	60.04	Flow 17.8 GPM	(Yes) No
			Meter 217749.80	(Yes) No
1340	TW4-24	63.96	Flow 17.6 GPM	(Yes) No
			Meter 1806388.88	(Yes) No
1333	TW4-25	57.18	Flow 16.0 GPM	(Yes) No
			Meter 1072460.60	(Yes) No
1405	TW4-1	93.00	Flow 16.6 GPM	(Yes) No
			Meter 29400.20	(Yes) No
1359	TW4-2	83.66	Flow 17.0 GPM	(Yes) No
			Meter 29162.60	(Yes) No
1355	TW4-11	94.40	Flow 17.0 GPM	(Yes) No
			Meter 10998.40	(Yes) No
	TW4-21		Flow	Yes No
			Meter	Yes No

Operational Problems (Please list well number): TW4-21 not in operation.

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

* Depth is measured to the nearest 0.01 feet.

Weekly Inspection Form

Date 4-27-15 **Name** Garrin Palmer / Tanner Holliday

Time	Well	Depth*	Comments		System Operational (If no note any problems/corrective actions)
1301	MW-4	80.90	Flow	4.6 GPM	Yes No
			Meter	654732.44	Yes No
1251	MW-26	63.96	Flow	11.8 GPM	Yes No
			Meter	512587.60	Yes No
1327	TW4-19	62.40	Flow	4.5 GPM	Yes No
			Meter	3160457.00	Yes No
1248	TW4-20	62.35	Flow	9.2 GPM	Yes No
			Meter	66868.30	Yes No
1306	TW4-4	86.42	Flow	8.4 GPM	Yes No
			Meter	82976.70	Yes No
1238	TWN-2	28.45	Flow	18.6 GPM	Yes No
			Meter	433129.40	Yes No
1246	TW4-22	59.08	Flow	17.8 GPM	Yes No
			Meter	219685.70	Yes No
1242	TW4-24	64.97	Flow	18.0 GPM	Yes No
			Meter	1811351.70	Yes No
1235	TW4-25	57.29	Flow	16.0 GPM	Yes No
			Meter	1072461.10	Yes No
1303	TW4-1	93.55	Flow	16.6 GPM	Yes No
			Meter	31591.08	Yes No
~~1238~~ 1257	TW4-2	82.17	Flow	16.7 GPM	Yes No
			Meter	30886.80	Yes No
1254	TW4-11	92.50	Flow	17.0 GPM	Yes No
			Meter	11616.90	Yes No
	TW4-21		Flow		Yes No
			Meter		Yes No

Operational Problems (Please list well number): TW4-21 not in operation. TW4-25 found with programming error. Reset module and notified electricians to check power to system.

Corrective Action(s) Taken (Please list well number): Frequently check programming on TW4-25.

* Depth is measured to the nearest 0.01 feet.

Monthly Depth Check Form

Date 4-28-15 **Name** Garrin Palmer / Tanner Holliday

Time	Well	Depth*	Time	Well	Depth*
1304	MW-4	78.68	1323	TWN-1	61.06
1306	TW4-1	92.88	1331	TWN-2	28.89
1302	TW4-2	80.80	1334	TWN-3	37.80
1321	TW4-3	55.55	1336	TWN-4	52.68
1308	TW4-4	74.60	1344	TWN-7	85.57
1324	TW4-5	63.20	1340	TWN-18	59.75
1336	TW4-6	70.86	1300	MW-27	53.47
1314	TW4-7	72.80	1349	MW-30	75.40
1319	TW4-8	74.69	1352	MW-31	68.48
1325	TW4-9	61.15			
1327	TW4-10	61.02			
1300	TW4-11	93.97			
1402	TW4-12	44.75			
1400	TW4-13	50.65	1404	TW4-28	38.96
1356	TW4-14	81.66	1344	TW4-29	73.03
1258	TW4-15	65.40	1350	TW4-30	76.44
1329	TW4-16	64.36	1352	TW4-31	81.10
1332	TW4-17	76.99	1405	TW4-32	50.51
1325	TW4-18	64.00	1340	TW4-33	71.65
1423	TW4-19	63.40	1346	TW4-34	71.01
1256	TW4-20	62.66	1348	TW4-35	74.25
1327	TW4-21	60.80	1358	TW4-36	56.72
1252	TW4-22	60.12	1254	TW4-37	58.95
1334	TW4-23	68.00			
1250	TW4-24	65.43			
1329	TW4-25	58.22			
1335	TW4-26	65.23			
1354	TW4-27	80.15			

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

* Depth is measured to the nearest 0.01 feet

Weekly Inspection Form

Date 5/4/15 **Name** Garrin Palmer / Tanner Holliday

Time	Well	Depth*	Comments		System Operational (If no note any problems/corrective actions)
1412	MW-4	76.65	Flow	4.6 GPM	Yes No
			Meter	661556.65	Yes No
1403	MW-26	67.48	Flow	11.6 GPM	Yes No
			Meter	514569.60	Yes No
1500	TW4-19	63.70	Flow	4.5 GPM	Yes No
			Meter	3164142.00	Yes No
1400	TW4-20	61.60	Flow	9.2 GPM	Yes No
			Meter	68317.44	Yes No
1417	TW4-4	74.46	Flow	12.0 GPM	Yes No
			Meter	88133.10	Yes No
1347	TWN-2	28.55	Flow	18.6 GPM	Yes No
			Meter	436836.70	Yes No
1357	TW4-22	58.65	Flow	18.0 GPM	Yes No
			Meter	271550.20	Yes No
1353	TW4-24	63.78	Flow	18.0 GPM	Yes No
			Meter	1816443.60	Yes No
1344	TW4-25	61.09	Flow	15.60 GPM	Yes No
			Meter	1082884.90	Yes No
1415	TW4-1	73.90	Flow	17.6 GPM	Yes No
			Meter	33476.50	Yes No
1409	TW4-2	75.61	Flow	17.4 GPM	Yes No
			Meter	32550.40	Yes No
1406	TW4-11	91.35	Flow	15.0 GPM	Yes No
			Meter	12028.70	Yes No
	TW4-21		Flow		Yes No
			Meter		Yes No

Operational Problems (Please list well number): TW4-21 not in operation.

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

* Depth is measured to the nearest 0.01 feet.

1x515

Weekly Inspection Form

Date 5-11-15 **Name** Garrin Palmer, Tanner Holliday

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)
1451	MW-4	76.41	Flow 4.6 GPM	(Yes) No
			Meter 688113.06	(Yes) No
1443	MW-26	65.33	Flow 11.7	(Yes) No
			Meter 516563.44	Yes (No)
1520	TW4-19	61.30	Flow 10.2 GPM	(Yes) No
			Meter 3169483.00	(Yes) No
1440	TW4-20	68.29	Flow 9.0 GPM	(Yes) No
			Meter 69895.23	(Yes) No
1457	TW4-4	73.66	Flow 12.0 GPM	(Yes) No
			Meter 93476.90	(Yes) No
1431	TWN-2	28.95	Flow 18.2 GPM	(Yes) No
			Meter 440845.60	(Yes) No
1438	TW4-22	60.44	Flow 17.2 GPM	(Yes) No
			Meter 223459.80	(Yes) No
1435	TW4-24	63.20	Flow 17.2 GPM	(Yes) No
			Meter 1821480.60	(Yes) No
1427	TW4-25	61.10	Flow 16.0 GPM	(Yes) No
			Meter 1092916.60	(Yes) No
1454	TW4-1	73.37	Flow 17.0 GPM	(Yes) No
			Meter 35458.60	(Yes) No
1449	TW4-2	75.59	Flow 17.0 GPM	(Yes) No
			Meter 34118.70	(Yes) No
1446	TW4-11	91.17	Flow 17.2 GPM	(Yes) No
			Meter 12443.80	(Yes) No
	TW4-21		Flow	Yes No
			Meter	Yes No

Operational Problems (Please list well number): TW4-21 discharge line has been connected to main discharge line. Well will be in operation shortly. MW-26 flow meter went out.

Corrective Action(s) Taken (Please list well number): Replaced flow meter on MW-26

* Depth is measured to the nearest 0.01 feet.

Weekly Inspection Form

Date 5-20-15 **Name** Garrin Palmer

Time	Well	Depth*	Comments		System Operational (If no note any problems/corrective actions)
0926	MW-4	76.05	Flow	4.6 GPM	Yes No
			Meter	676336.72	Yes No
0915	MW-26	64.16	Flow	11.8 GPM	Yes No
			Meter	2536.60	Yes No
1000	TW4-19	76.10	Flow	9.0 GPM	Yes No
			Meter	3176189.00	Yes No
0911	TW4-20	62.60	Flow	9.0 GPM	Yes No
			Meter	71606.86	Yes No
0935	TW4-4	73.77	Flow	10.4 GPM	Yes No
			Meter	99979.80	Yes No
0858	TWN-2	29.52	Flow	18.8 GPM	Yes No
			Meter	445213.30	Yes No
0907	TW4-22	59.00	Flow	17.5 GPM	Yes No
			Meter	225780.60	Yes No
0903	TW4-24	62.88	Flow	17.6 GPM	Yes No
			Meter	1827615.10	Yes No
0853	TW4-25	61.17	Flow	15.6 GPM	Yes No
			Meter	1105779.20	Yes No
0930	TW4-1	74.02	Flow	17.0 GPM	Yes No
			Meter	37602.00	Yes No
0923	TW4-2	75.99	Flow	17.2 GPM	Yes No
			Meter	36200.10	Yes No
0919	TW4-11	93.22	Flow	17.0 GPM	Yes No
			Meter	12968.50	Yes No
	TW4-21		Flow		Yes No
			Meter		Yes No

Operational Problems (Please list well number): TW4-21 not in operation

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

* Depth is measured to the nearest 0.01 feet.

Weekly Inspection Form

Date 5/26/2015 **Name** Tanner Holliday

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)
1337	MW-4	79.04	Flow 4.7	Yes No
			Meter 682309.68	Yes No
1325	MW-26	74.45	Flow 11.7	Yes No
			Meter 4321.5	Yes No
1350	TW4-19	64.15	Flow 9.4	Yes No
			Meter 3180771.06	Yes No
1321	TW4-20	61.32	Flow 9.0	Yes No
			Meter 728751.0	Yes No
1344	TW4-4	68.99	Flow 10.4	Yes No
			Meter 104574.5	Yes No
1309	TWN-2	29.75	Flow 18.5	Yes No
			Meter 448439.4	Yes No
1317	TW4-22	58.58	Flow 17.4	Yes No
			Meter ~~223~~ 227315.1	Yes No
1314	TW4-24	62.96	Flow 18.0	Yes No
			Meter 1832187.5	Yes No
1303	TW4-25	63.14	Flow 16.0	Yes No
			Meter 1114718.3	Yes No
1340	TW4-1	74.86	Flow 17.0	Yes No
			Meter 39273.2	Yes No
1333	TW4-2	75.63	Flow 17.0	Yes No
			Meter 37666.0	Yes No
1329	TW4-11	92.13	Flow 17.0	Yes No
			Meter 13296.5	Yes No
	TW4-21	N/A	Flow	Yes No
			Meter	Yes No

Operational Problems (Please list well number): _____

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

* Depth is measured to the nearest 0.01 feet.

Monthly Depth Check Form

Date 5/27/2015 **Name** Tanner Holliday

Time	Well	Depth*	Time	Well	Depth*
~~0738~~ 0735	MW-4	73.96	0936	TWN-1	61.17
0733	TW4-1	74.78	0938	TWN-2	29.96
0737	TW4-2	75.70	0940	TWN-3	38.36
0742	TW4-3	55.54	0943	TWN-4	53.35
0732	TW4-4	69.83	0954	TWN-7	86.35
0745	TW4-5	63.11	0946	TWN-18	59.87
0731	TW4-6	70.90	0950	MW-27	53.61
0735	TW4-7	73.20	0758	MW-30	75.45
0740	TW4-8	75.11	0755	MW-31	68.51
0743	TW4-9	61.06			
0747	TW4-10	60.93			
0743	TW4-11	92.39			
0657	TW4-12	44.82			
0703	TW4-13	50.62	0659	TW4-28	39.04
0707	TW4-14	81.52	0711	TW4-29	73.01
0749	TW4-15	73.95	0717	TW4-30	76.35
0751	TW4-16	63.81	0719	TW4-31	80.85
0753	TW4-17	76.92	0700	TW4-32	50.55
0932	TW4-18	63.98	0721	TW4-33	71.65
0810	TW4-19	64.23	0713	TW4-34	71.01
0805	TW4-20	62.35	0715	TW4-35	74.19
0934	TW4-21	60.98	0705	TW4-36	56.61
0802	TW4-22	58.99			
0728	TW4-23	68.05			
0800	TW4-24	64.14			
0929	TW4-25	64.03			
0726	TW4-26	65.45			
0709	TW4-27	80.09			

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

* Depth is measured to the nearest 0.01 feet

Weekly Inspection Form

Date 6-3-15 **Name** Garrin Palmer, Tanner Holliday

Time	Well	Depth*	Comments		System Operational (If no note any problems/corrective actions)
0702	MW-4	81.52	Flow	4.4 GPM	(Yes) No
			Meter	689607.40	(Yes) No
0654	MW-26	88.57	Flow	10.6 GPM	(Yes) No
			Meter	6618.70	(Yes) No
0628	TW4-19	60.19	Flow	18.0 GPM	(Yes) No
			Meter	3186185.00	(Yes) No
0652	TW4-20	61.10	Flow	9.6 GPM	(Yes) No
			Meter	74441.21	(Yes) No
0707	TW4-4	72.40	Flow	10.5 GPM	(Yes) No
			Meter	110105.30	(Yes) No
0643	TWN-2	30.65	Flow	18.4 GPM	(Yes) No
			Meter	452698.30	(Yes) No
0650	TW4-22	58.38	Flow	17.2 GPM	(Yes) No
			Meter	229469.80	(Yes) No
0647	TW4-24	63.52	Flow	18.0 GPM	(Yes) No
			Meter	1837626.70	(Yes) No
0639	TW4-25	66.38	Flow	16.0 GPM	(Yes) No
			Meter	1125834.20	(Yes) No
0704	TW4-1	96.90	Flow	16.5 GPM	(Yes) No
			Meter	41332.20	(Yes) No
0700	TW4-2	82.98	Flow	17.0 GPM	(Yes) No
			Meter	39580.10	(Yes) No
0658	TW4-11	92.31	Flow	17.0 GPM	(Yes) No
			Meter	13721.40	(Yes) No
	TW4-21		Flow		Yes (No)
			Meter		Yes (No)

Operational Problems (Please list well number): TW4-21 not in operation. Replaced pump and flow meter on TW4-19 for maintenance purposes.

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

* Depth is measured to the nearest 0.01 feet.

Weekly Inspection Form

Date 6/8/15 **Name** Garrin Palmer / Tanner Halliday

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)
1600	MW-4	69.15	Flow 4.6 GPM	Yes No
			Meter 689630.84	Yes No
1522	MW-26	63.20	Flow 12.0 GPM	Yes No
			Meter 8285.70	Yes No
1350	TW4-19	61.50	Flow 18.0	Yes No
			Meter 6451.00	Yes No
1514	TW4-20	62.05	Flow 9.0 GPM	Yes No
			Meter 75572.1	Yes No
1414	TW4-4	85.00	Flow 10.0 GPM	Yes No
			Meter 113850.40	Yes No
1434	TWN-2	30.21	Flow 18.8 GPM	Yes No
			Meter 455239.40	Yes No
1454	TW4-22	57.50	Flow 17.00	Yes No
			Meter 229476.00	Yes No
1441	TW4-24	62.68	Flow 16.0 GPM	Yes No
			Meter 1837798.60	Yes No
1428	TW4-25	61.80	Flow 15.6 GPM	Yes No
			Meter 1133329.40	Yes No
1404	TW4-1	96.00	Flow 16.0 GPM	Yes No
			Meter 42711.90	Yes No
1547	TW4-2	89.60	Flow 16.0 GPM	Yes No
			Meter 40787.50	Yes No
1532	TW4-11	90.95	Flow 16.0 GPM	Yes No
			Meter 14096.50	Yes No
1418	TW4-21	95.78	Flow 16.0 GPM	Yes No
			Meter 797.40	Yes No
[redacted]	TW4-37	59.00	Flow 18.0	Yes No
1502			Meter [redacted] 639.80	Yes No

Operational Problems (Please list well number): TW4-22, 24 had no power.

Corrective Action(s) Taken (Please list well number): Breaker was reset and wells are running again.

* Depth is measured to the nearest 0.01 feet.

5794795

Weekly Inspection Form

Date 6/15/15 **Name** Garrin Palmer / Tanner Holliday

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)
1454	MW-4	67.10	Flow 4.6 GPM	Yes No
			Meter 689751.02	Yes No
1445	MW-26	64.25	Flow 11.8 GPM	Yes No
			Meter 10305.90	Yes No
1659	TW4-19	78.88	Flow 16.0 GPM	Yes No
			Meter 15396.00	Yes No
1443	TW4-20	66.45	Flow 9.0 GPM	Yes No
			Meter 76918.50	Yes No
1459	TW4-4	75.48	Flow 11.0 GPM	Yes No
			Meter 118461.80	Yes No
1431	TWN-2	28.33	Flow 18.6 GPM	Yes No
			Meter 458998.30	Yes No
1438	TW4-22	59.28	Flow 17.3 GPM	Yes No
		~~59.28~~	Meter 231385.50	Yes No
1435	TW4-24	68.27	Flow 17.6 GPM	Yes No
			Meter 1842809.90	Yes No
1424	TW4-25	61.90	Flow 15.6 GPM	Yes No
			Meter 1143306.80	Yes No
1456	TW4-1	73.50	Flow 17.4 GPM	Yes No
			Meter 44658.10	Yes No
1452	TW4-2	73.85	Flow 17.4 GPM	Yes No
			Meter 42450.70	Yes No
1449	TW4-11	91.36	Flow 17.0 GPM	Yes No
			Meter 14372.40	Yes No
1427	TW4-21	66.31	Flow 14.6 GPM	Yes No
			Meter 10320.29	Yes No
1440	TW4-37	60.80	Flow 17.6 GPM	Yes No
			Meter 9642.70	Yes No

Operational Problems (Please list well number):

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

* Depth is measured to the nearest 0.01 feet.

Weekly Inspection Form

Date 6/22/15 **Name** Garrin Palmer, Tanner Holliday

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)
1058	MW-4	66.31	Flow 4.6 GPM	Yes No
			Meter 689751.42	Yes No
1050	MW-26	66.94	Flow 11.8 GPM	Yes No
			Meter 12436.60	Yes No
1009	TW4-19	68.60	Flow 18.0 GPM	Yes No
			Meter 23928.20	Yes No
1048	TW4-20	61.28	Flow 9.0 GPM	Yes No
			Meter 78379.90	Yes No
1103	TW4-4	73.82	Flow 10.2 GPM	Yes No
			Meter 123816.60	Yes No
1033	TWN-2	28.05	Flow 18.8 GPM	Yes No
			Meter 462655.10	Yes No
1042	TW4-22	58.07	Flow 17.4 GPM	Yes No
			Meter 233198.60	Yes No
1034	TW4-24	62.45	Flow 17.8 GPM	Yes No
			Meter 1847710.40 ~~1847710.40~~	Yes No
1030	TW4-25	63.00	Flow 16.0 GPM	Yes No
			Meter 1153086.60	Yes No
1100	TW4-1	74.40	Flow 17.0 GPM	Yes No
			Meter 46404.60	Yes No
1055	TW4-2	73.42	Flow 17.2 GPM	Yes No
			Meter 44150.70	Yes No
1052	TW4-11	96.55	Flow 17.0 GPM	Yes No
			Meter 14737.00	Yes No
1026	TW4-21	64.50	Flow 16.3 GPM	Yes No
			Meter 19698.11	Yes No
1044	TW4-37	59.86	Flow 17.4	Yes No
			Meter 18682.60	Yes No

Operational Problems (Please list well number): _____

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

* Depth is measured to the nearest 0.01 feet.

Weekly Inspection Form

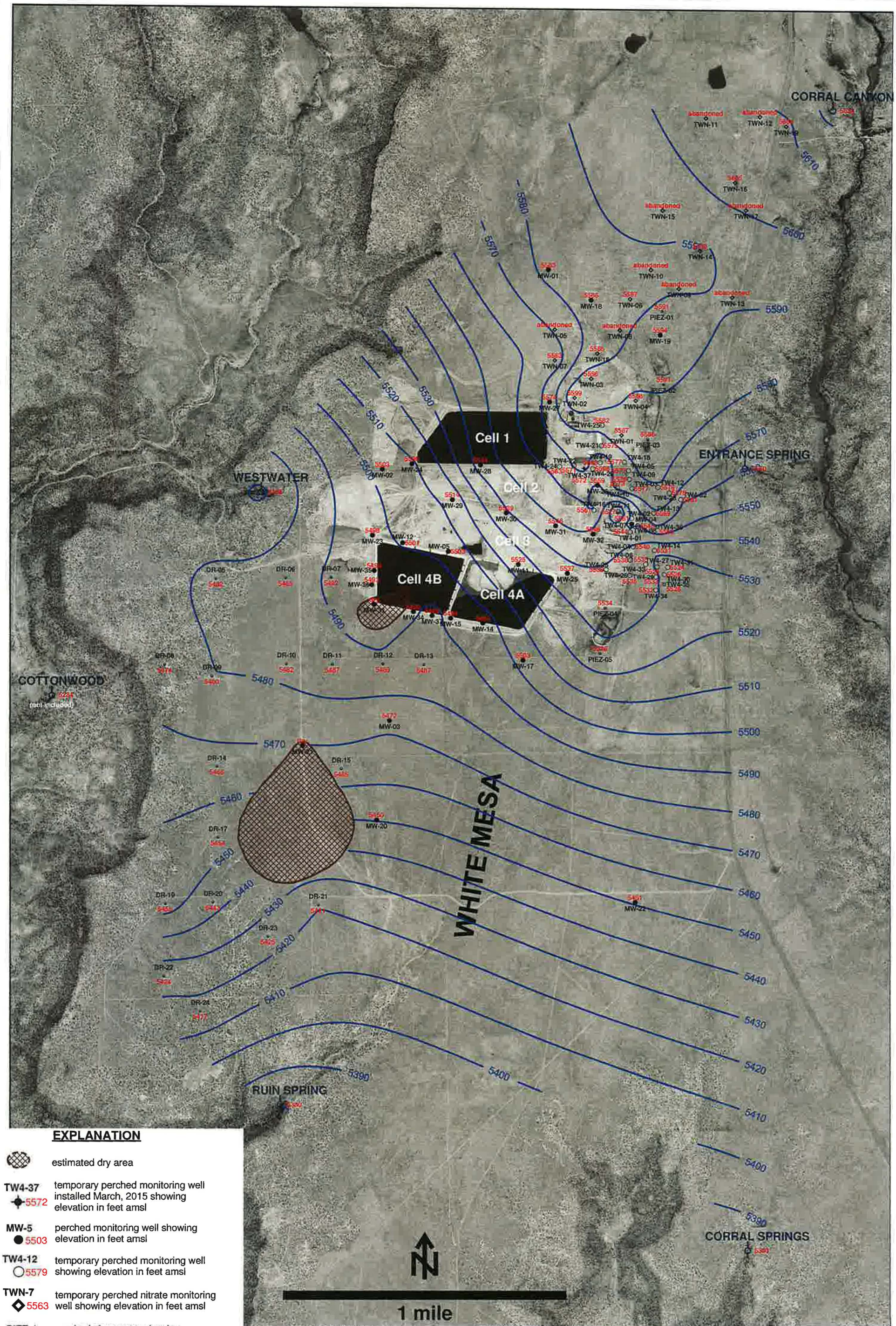
Date 6/30/15 **Name** Garrin Palmer, Tanner Halliday

Time	Well	Depth*	Comments	System Operational (If no note any problems/corrective actions)
1350	MW-4	65.65	Flow 4.6 GPM	Yes No
			Meter 689751.55	Yes No
1341	MW-26	69.13	Flow 10.0 GPM	Yes No
			Meter 14736.70	Yes No
1310	TW4-19	65.50	Flow 18.0 GPM	Yes No
			Meter 34352.80	Yes No
1338	TW4-20	61.68	Flow 9.0 GPM	Yes No
			Meter 79900.80	Yes No
1356	TW4-4	73.62	Flow 11.0 GPM	Yes No
			Meter 129628.70	Yes No
1326	TWN-2	27.82	Flow 18.8 GPM	Yes No
			Meter 466809.70	Yes No
1333 ~~1326~~	TW4-22	58.00	Flow 18.0 GPM	Yes No
			Meter 235267.90	Yes No
1330	TW4-24	62.39	Flow 16.0 GPM	Yes No
			Meter 1853893.40	Yes No
1323	TW4-25	63.20	Flow 16.0 GPM	Yes No
			Meter 1164424.40	Yes No
1353	TW4-1	74.25	Flow 16.6 GPM	Yes No
			Meter 48559.10	Yes No
1347	TW4-2	72.60	Flow 17.4 GPM	Yes No
			Meter 46186.60	Yes No
1345	TW4-11	92.27	Flow 16.0 GPM	Yes No
			Meter 15142.00	Yes No
1320	TW4-21	65.00	Flow 16.6 GPM	Yes No
			Meter 30743.67	Yes No
1336	TW4-37	60.21	Flow 17.6 GPM	Yes No
			Meter 29206.00	Yes No

Operational Problems (Please list well number):

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

* Depth is measured to the nearest 0.01 feet.



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

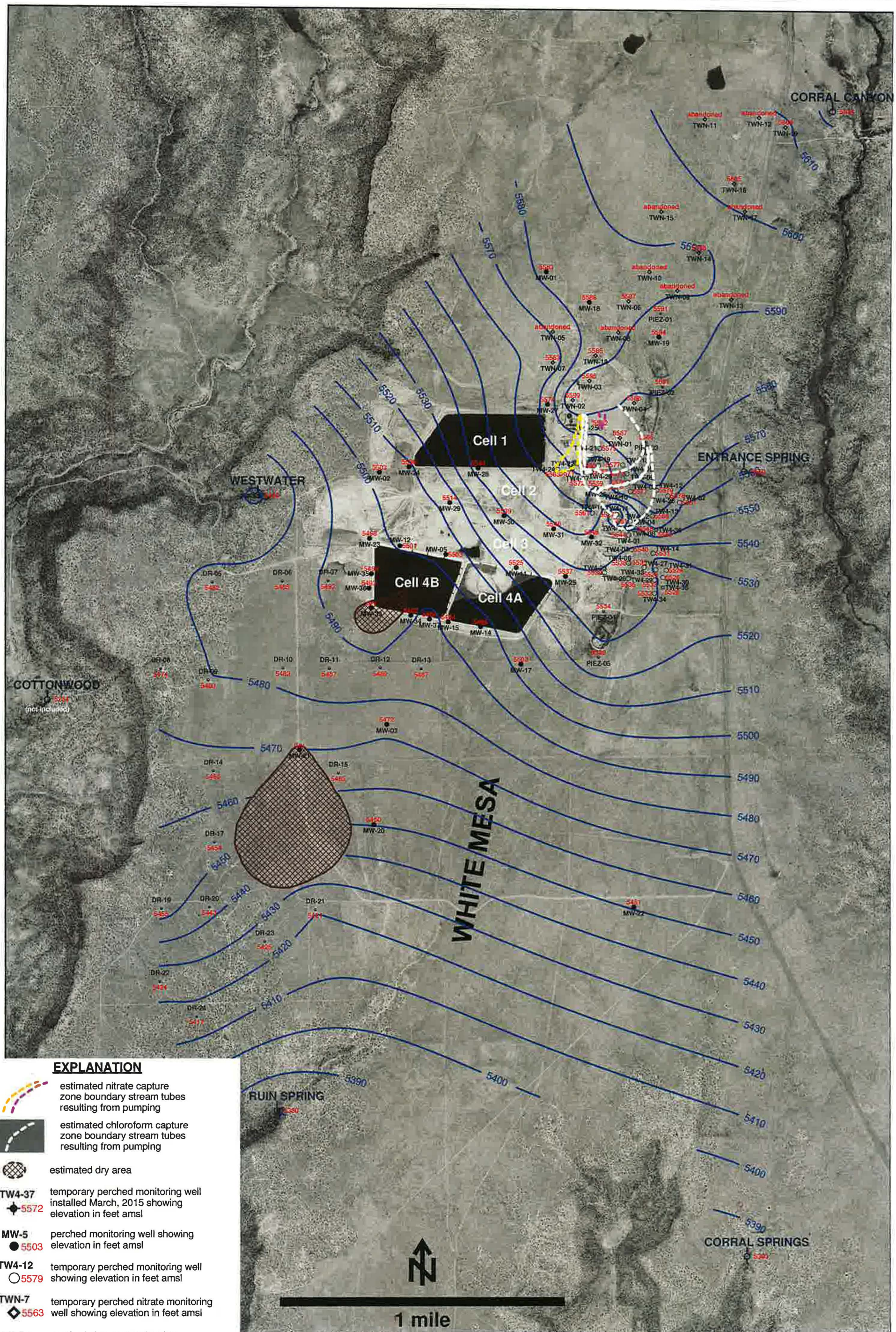
EXPLANATION

- estimated dry area
- TW4-37 / 5572 — temporary perched monitoring well installed March, 2015 showing elevation in feet amsl
- MW-5 / 5503 — perched monitoring well showing elevation in feet amsl
- TW4-12 / 5579 — temporary perched monitoring well showing elevation in feet amsl
- TWN-7 / 5563 — temporary perched nitrate monitoring well showing elevation in feet amsl
- PIEZ-1 / 5591 — perched piezometer showing elevation in feet amsl
- TW4-35 / 5526 — temporary perched monitoring well installed May, 2014 showing elevation in feet amsl
- RUIN SPRING / 5380 — seep or spring showing elevation in feet amsl

HYDRO GEO CHEM, INC.

KRIGED 2nd QUARTER, 2015 WATER LEVELS WHITE MESA SITE

APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/aug15/WL/Uwl0615.srf	C-1



EXPLANATION

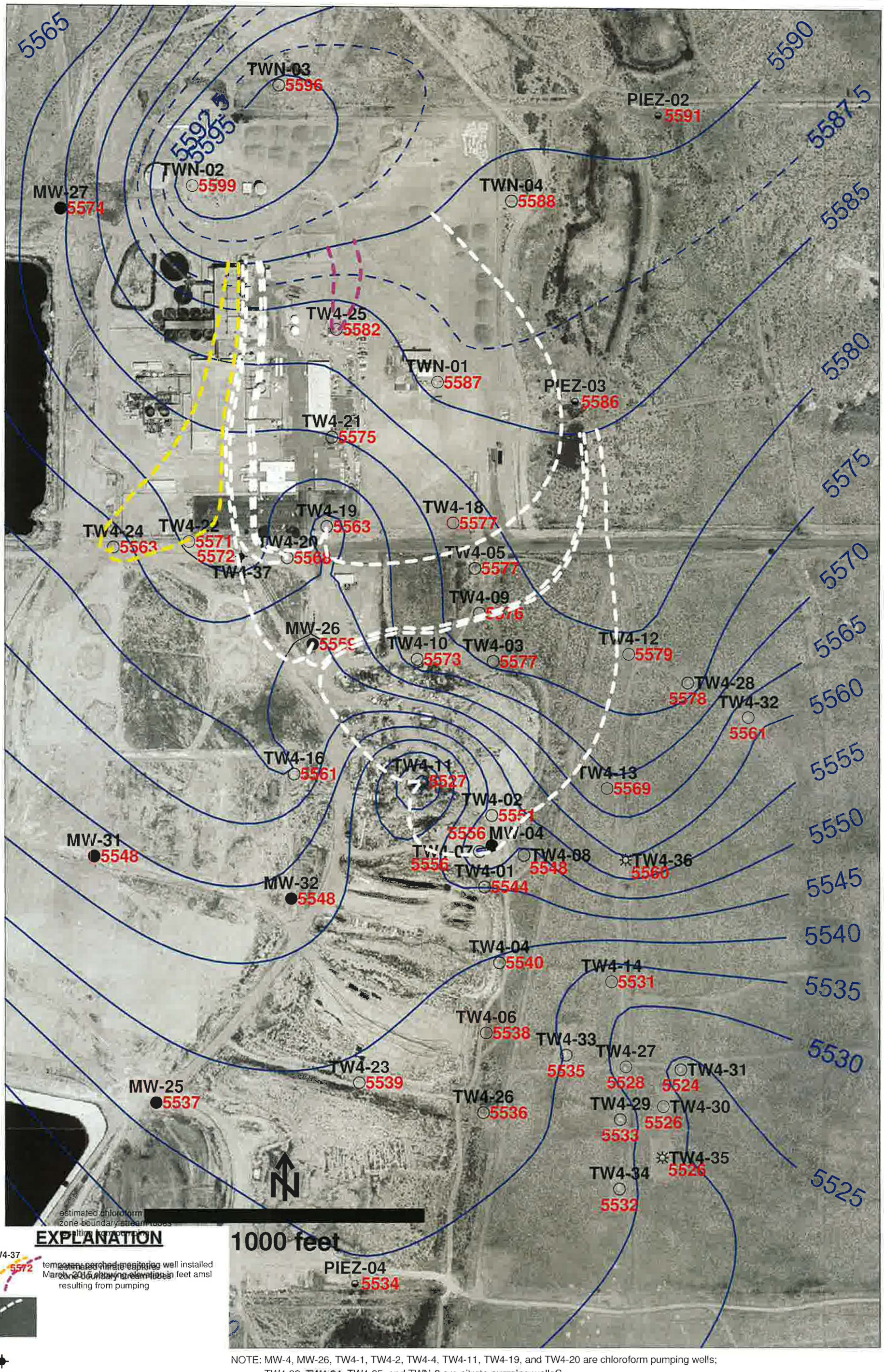
- estimated nitrate capture zone boundary stream tubes resulting from pumping
- estimated chloroform capture zone boundary stream tubes resulting from pumping
- estimated dry area
- **TW4-37** 5572 — temporary perched monitoring well installed March, 2015 showing elevation in feet amsl
- **MW-5** 5503 — perched monitoring well showing elevation in feet amsl
- **TW4-12** 5579 — temporary perched monitoring well showing elevation in feet amsl
- **TWN-7** 5563 — temporary perched nitrate monitoring well showing elevation in feet amsl
- **PIEZ-1** 5591 — perched piezometer showing elevation in feet amsl
- **TW4-35** 5526 — temporary perched monitoring well installed May, 2014 showing elevation in feet amsl
- **RUIN SPRING** 5380 — seep or spring showing elevation in feet amsl

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

HYDRO GEO CHEM, INC.

KRIGED 2nd QUARTER, 2015 WATER LEVELS AND ESTIMATED CAPTURE ZONES WHITE MESA SITE

APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/aug15/Nitrate/Uwl0615ntcz2.srf	C-2



EXPLANATION

TW4-37 5572 — temporary perched monitoring well installed March, 2015 showing elevation in feet amsl

estimated chloroform capture zone boundary stream tubes resulting from pumping

MW-4 5556 — perched monitoring well showing elevation in feet amsl

TW4-7 5556 — temporary perched monitoring well showing elevation in feet amsl

PIEZ-2 5591 — perched piezometer showing elevation in feet amsl

TW4-35 5526 — temporary perched monitoring well installed May, 2014 showing elevation in feet amsl

NOTE: MW-4, MW-26, TW4-1, TW4-2, TW4-4, TW4-11, TW4-19, and TW4-20 are chloroform pumping wells; TW4-22, TW4-24, TW4-25, and TWN-2 are nitrate pumping wellsC

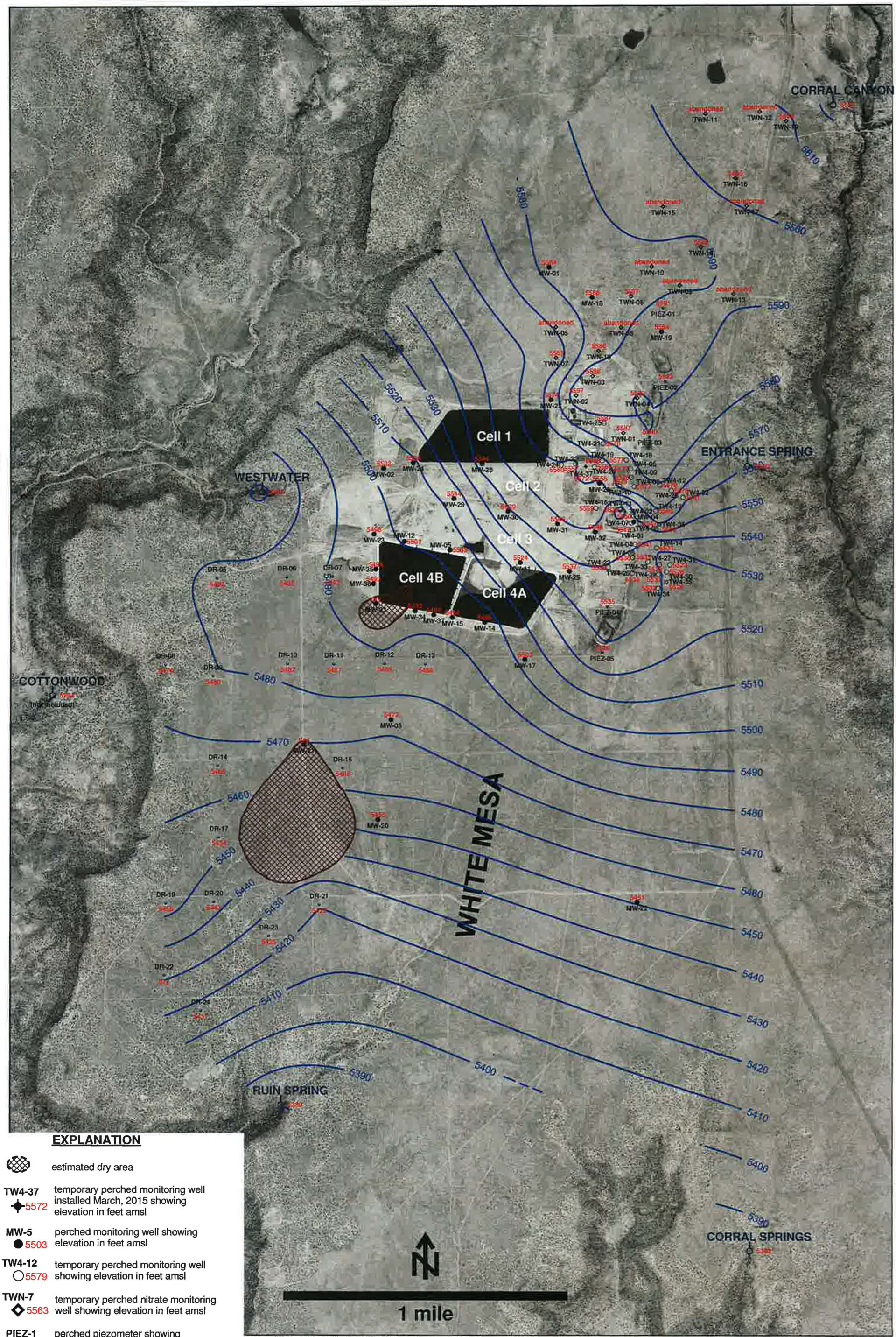
HYDRO GEO CHEM, INC.

KRIGED 2nd QUARTER, 2015 WATER LEVELS AND ESTIMATED CAPTURE ZONES WHITE MESA SITE (detail map)

APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/ aug15/nitrate/Uwl0615ntcz.srf	C-3

Tab D

Kriged Previous Quarter Groundwater Contour Map



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

EXPLANATION

- estimated dry area
- **TW4-37** 5572 — temporary perched monitoring well installed March, 2015 showing elevation in feet amsl
- **MW-5** 5503 — perched monitoring well showing elevation in feet amsl
- **TW4-12** 5579 — temporary perched monitoring well showing elevation in feet amsl
- **TWN-7** 5563 — temporary perched nitrate monitoring well showing elevation in feet amsl
- **PIEZ-1** 5591 — perched piezometer showing elevation in feet amsl
- **TW4-35** 5526 — temporary perched monitoring well installed May, 2014 showing elevation in feet amsl
- **RUIN SPRING** 5380 — seep or spring showing elevation in feet amsl

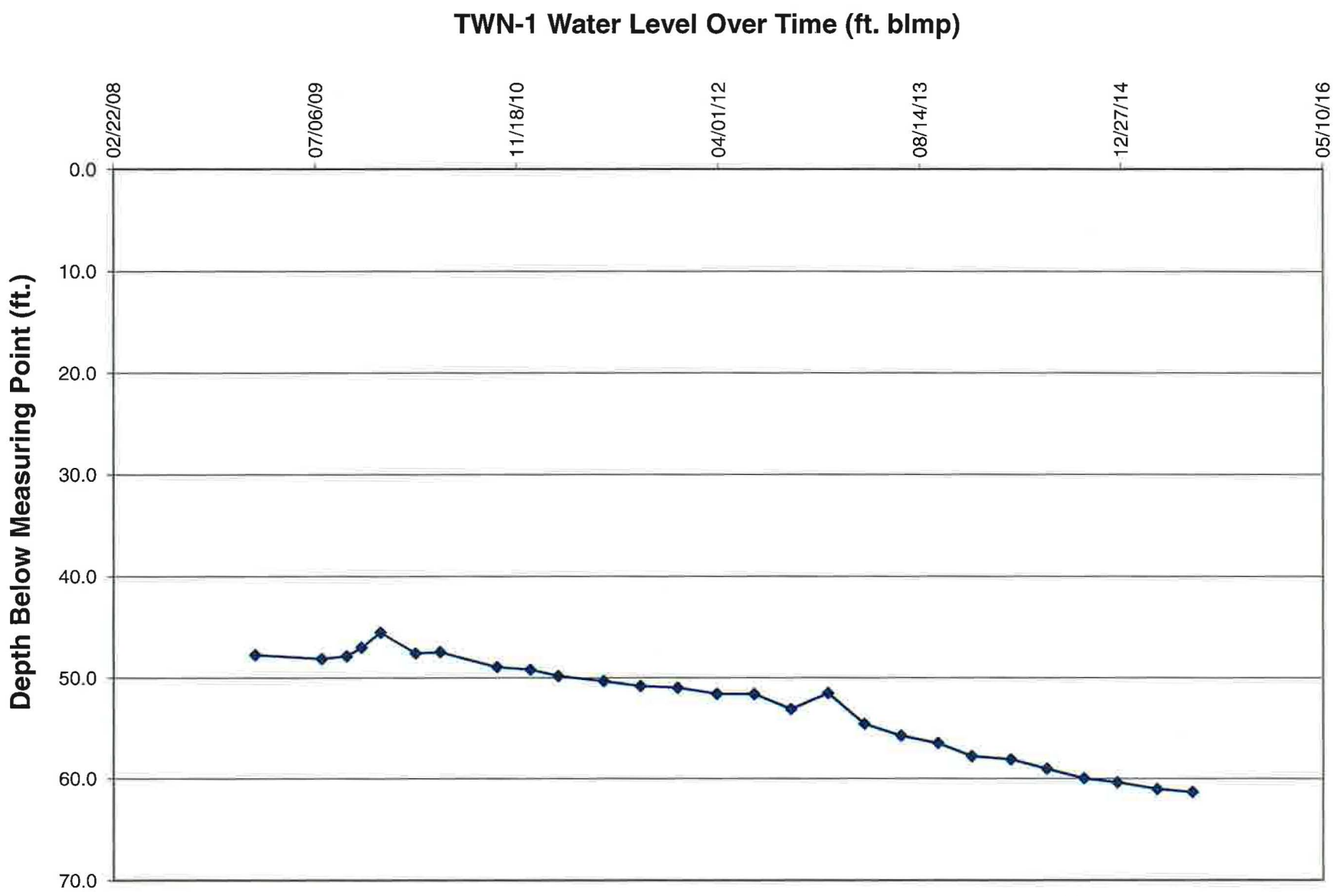
HYDRO GEO CHEM, INC.

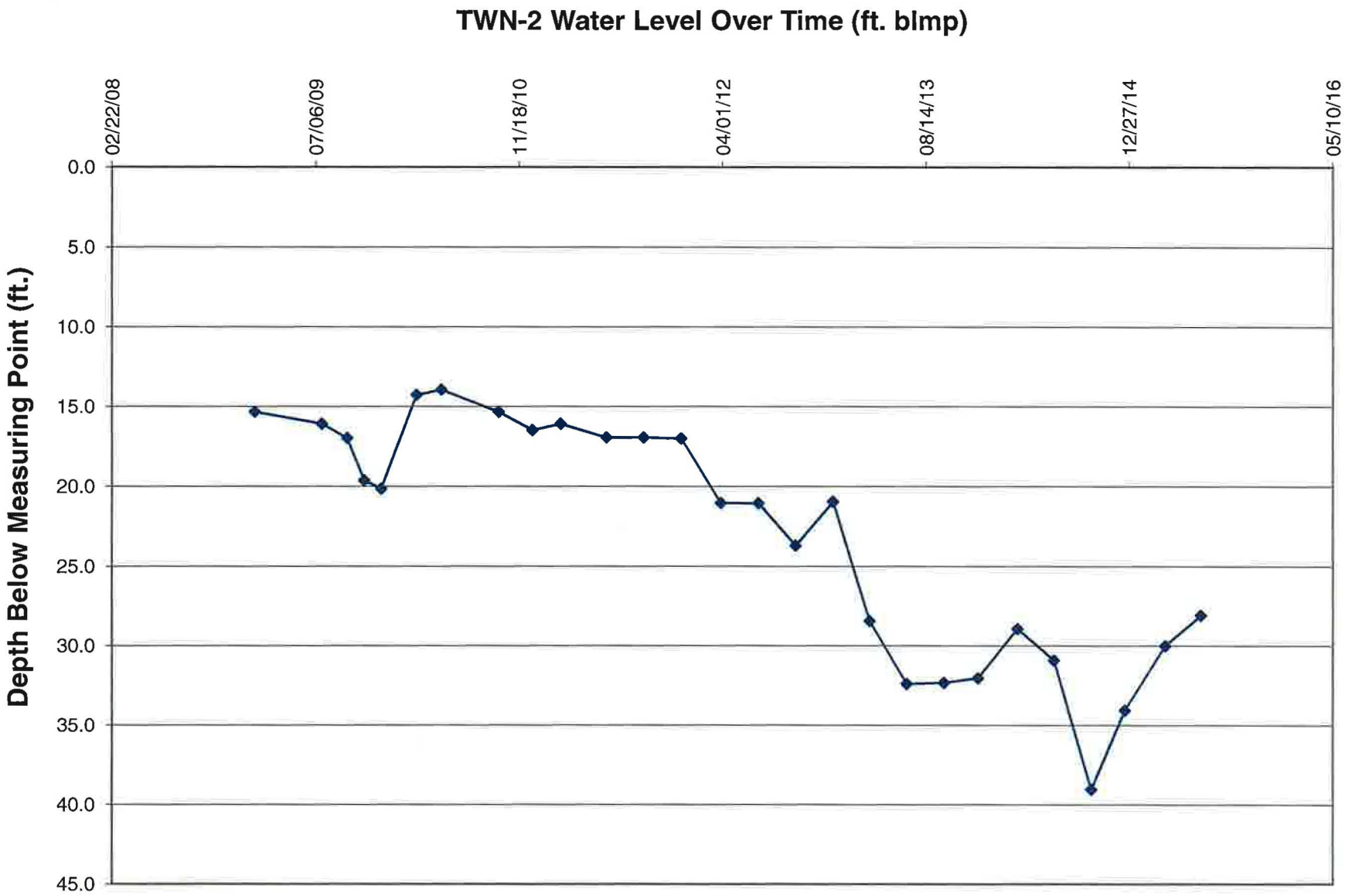
KRIGED 1st QUARTER, 2015 WATER LEVELS WHITE MESA SITE

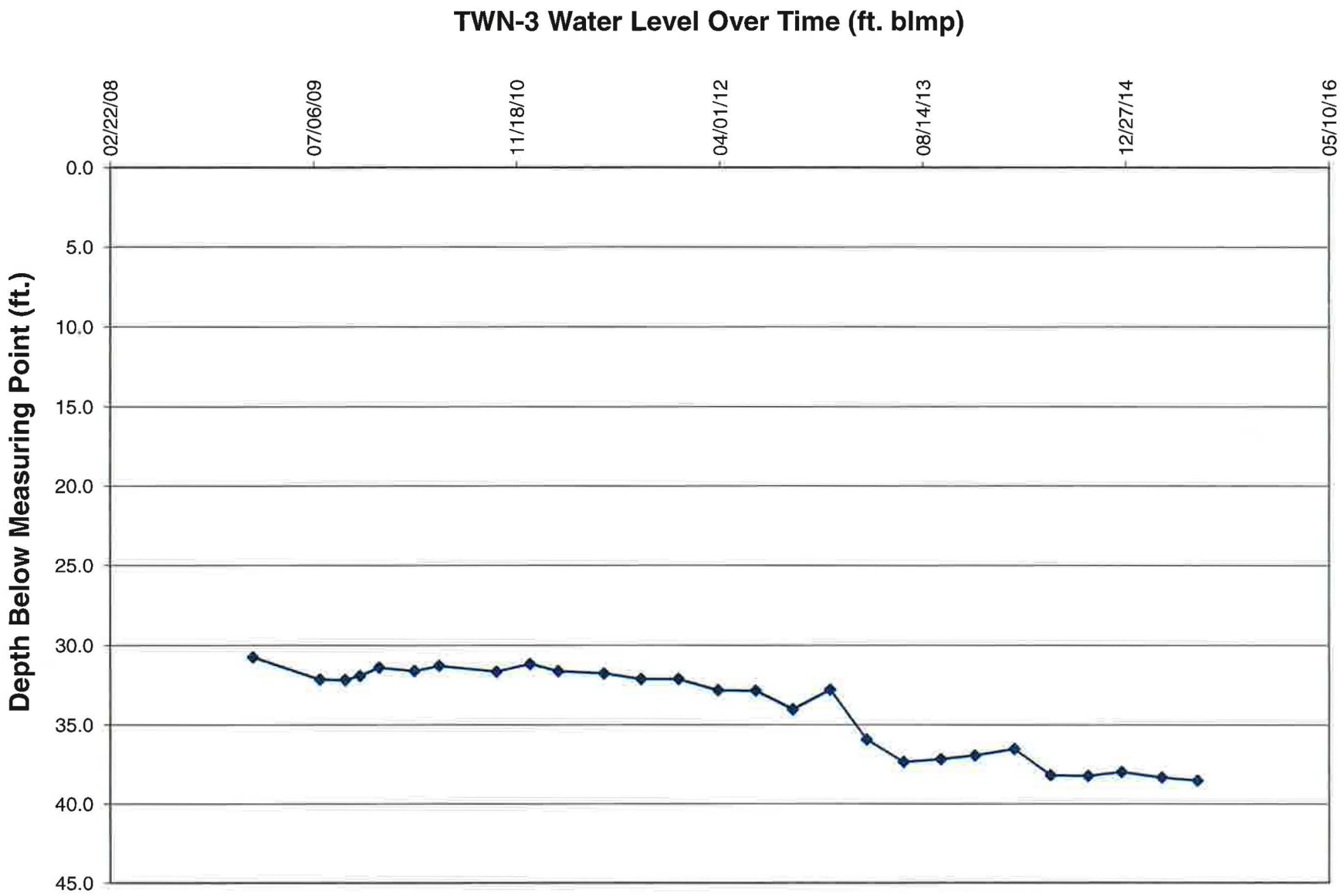
APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/may15/WL/Uwl0315_rev.srf	D-1

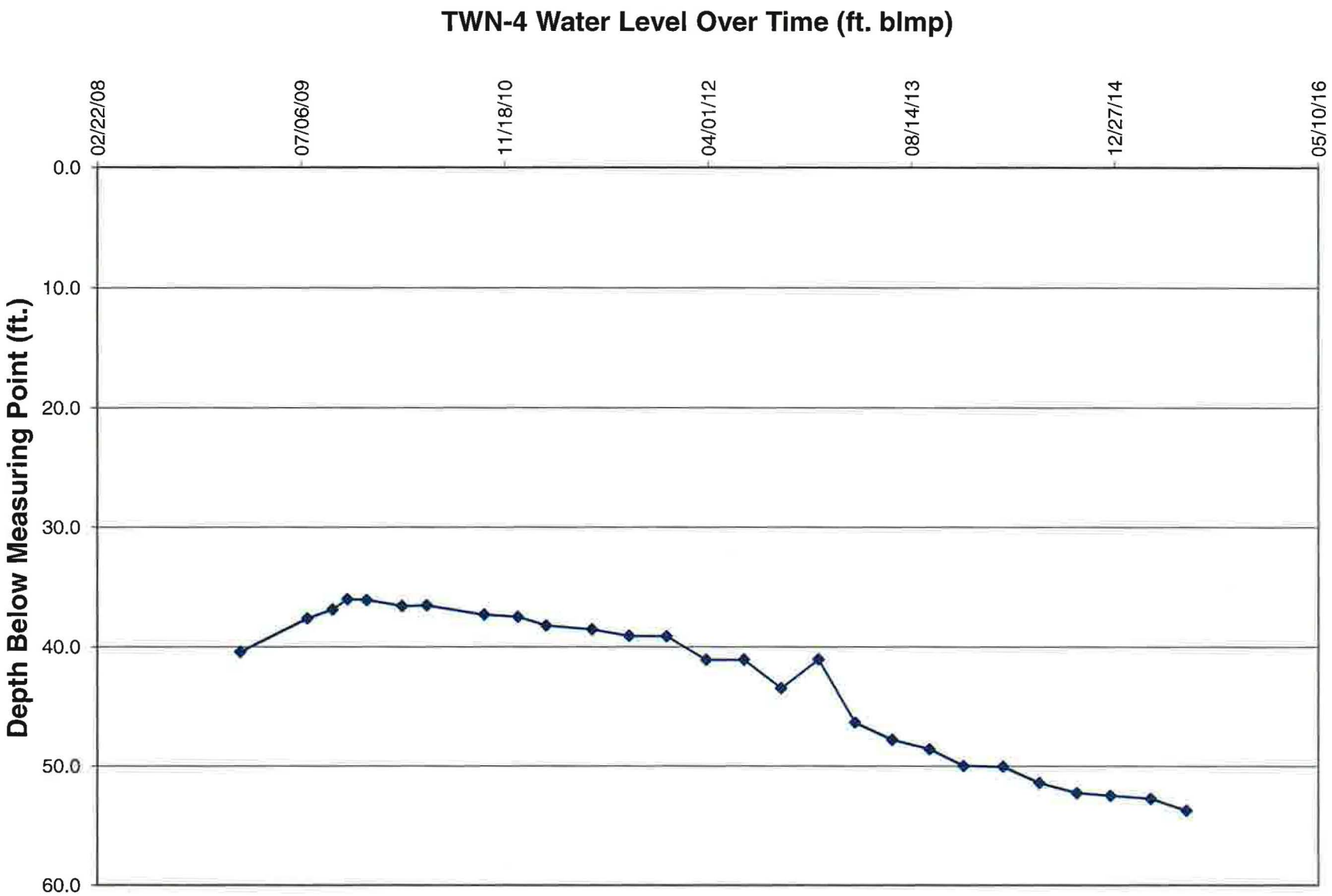
Tab E

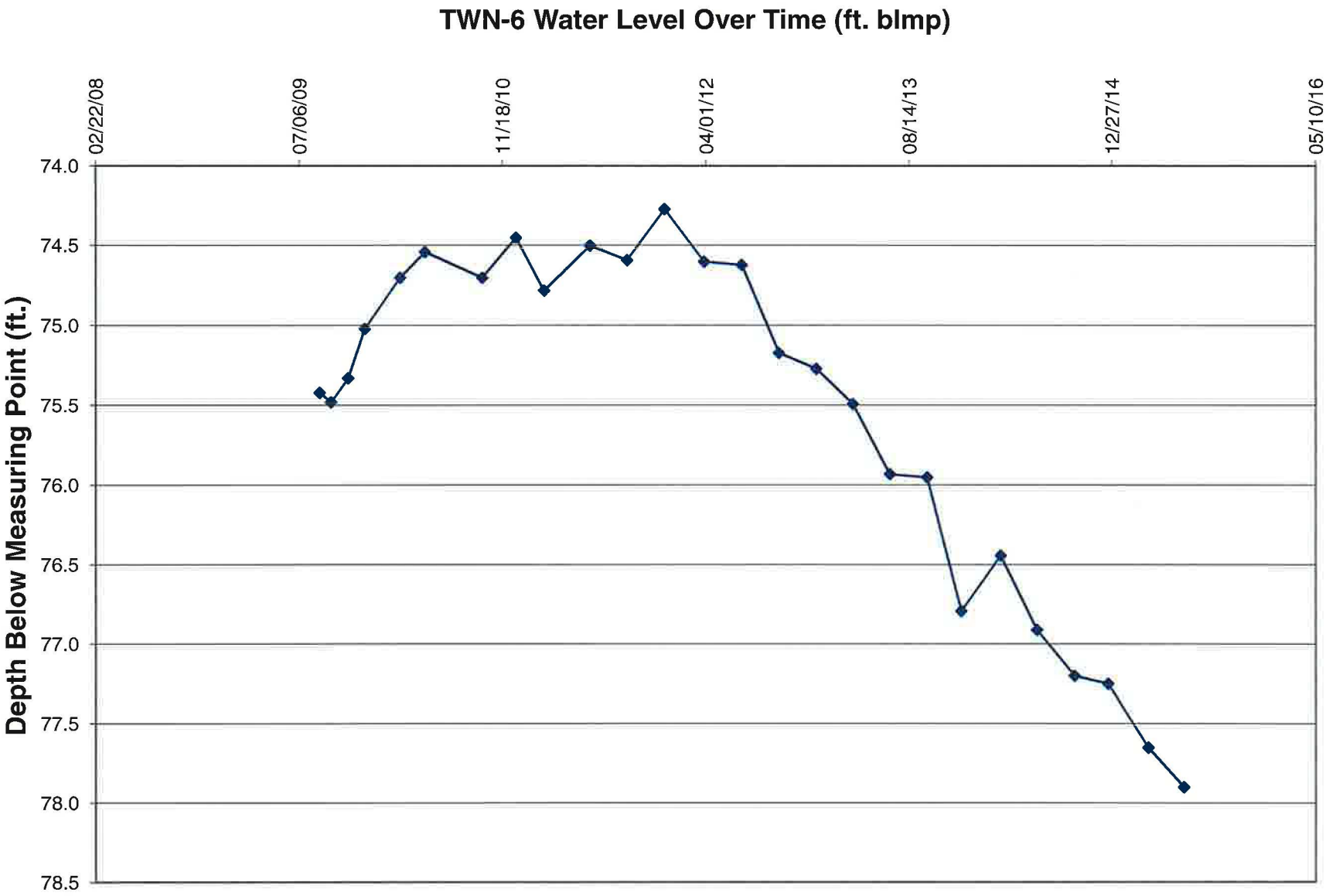
Hydrographs of Groundwater Elevations Over Time for Nitrate Monitoring Wells

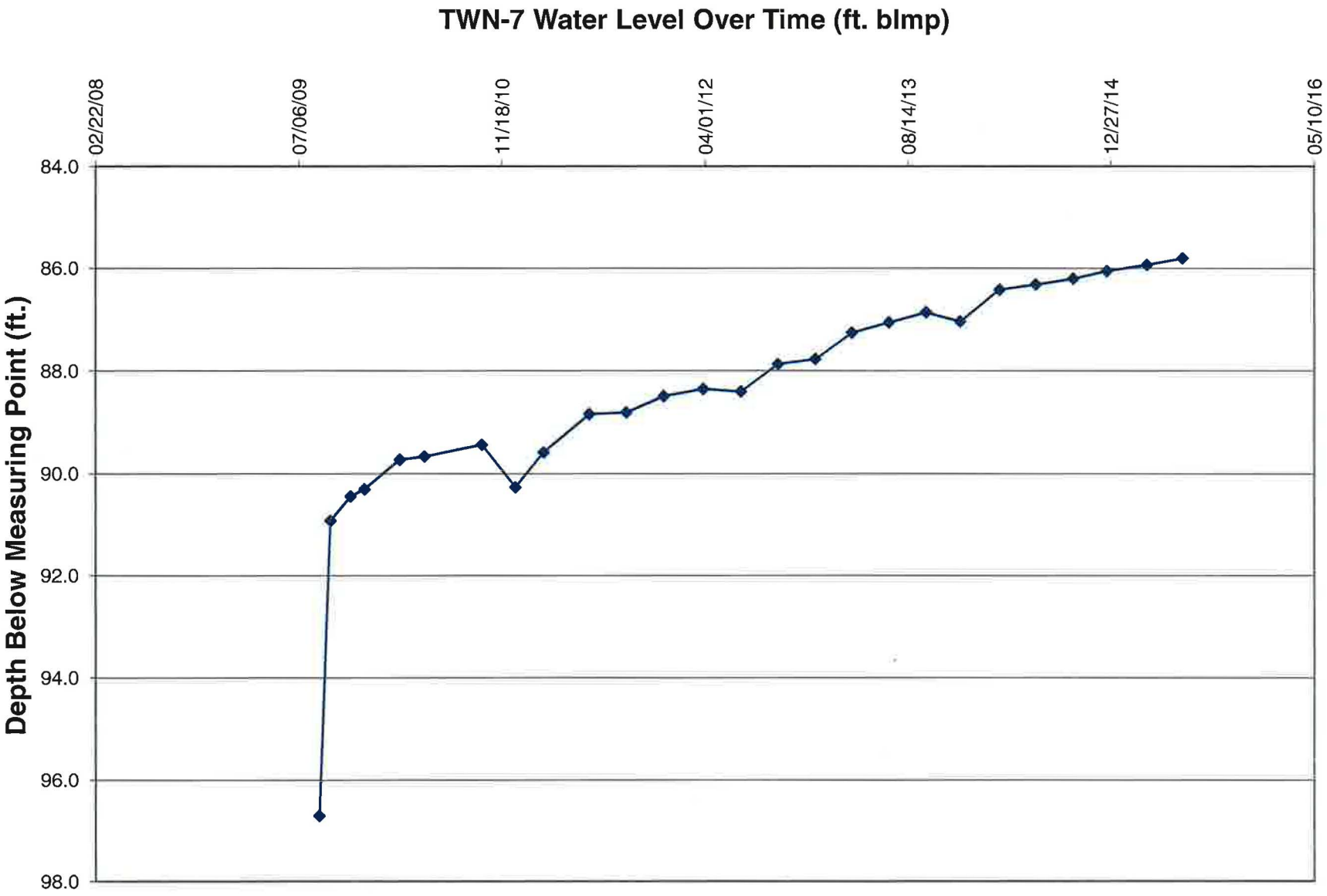

TWN-1 Water Level Over Time (ft. blmp)
Depth Below Measuring Point (ft.)
0.0
10.0
20.0
30.0
40.0
50.0
60.0
70.0
02/22/08
07/06/09
11/18/10
04/01/12
08/14/13
12/27/14
05/10/16

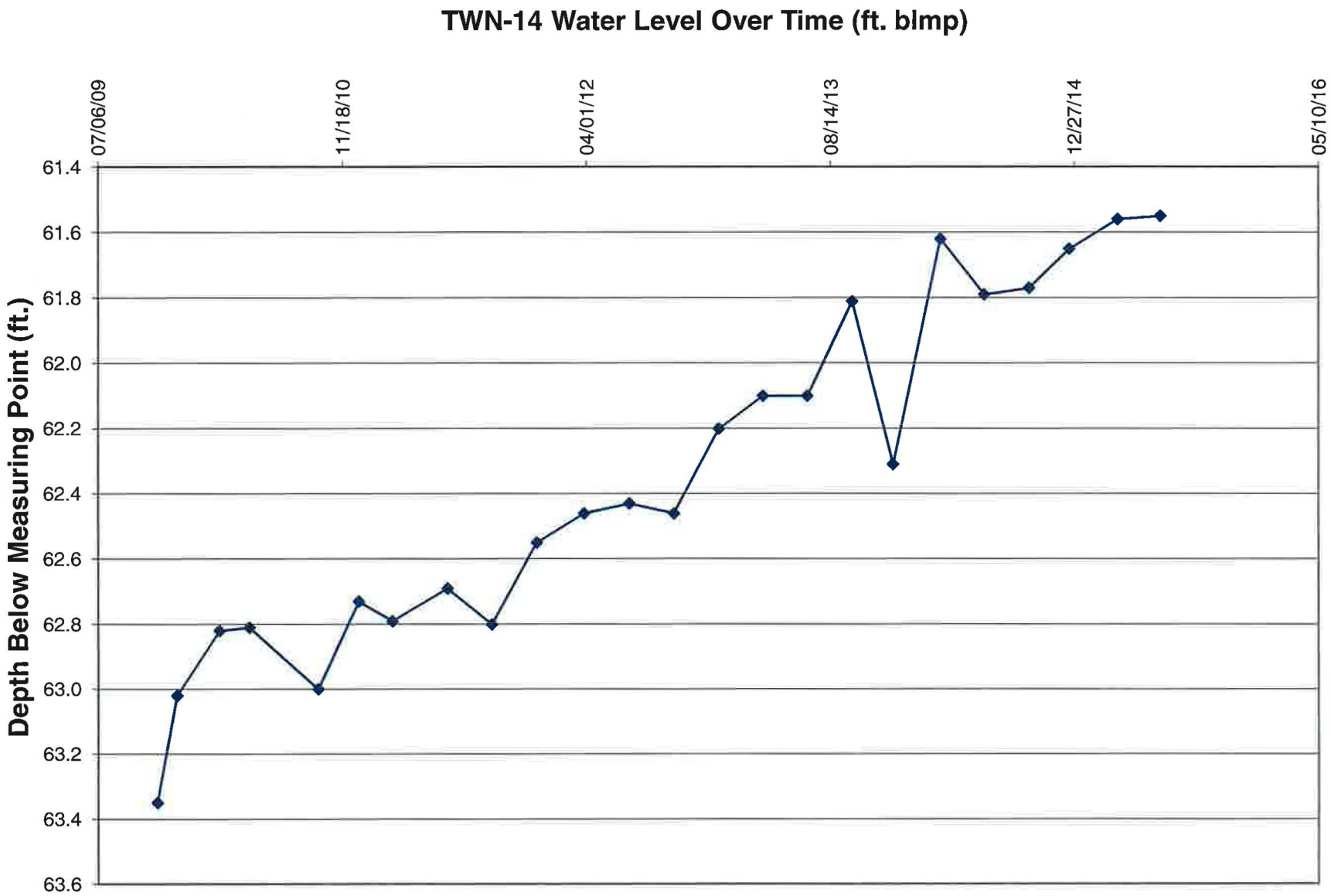

TWN-2 Water Level Over Time (ft. blmp)
Depth Below Measuring Point (ft.)
0.0
5.0
10.0
15.0
20.0
25.0
30.0
35.0
40.0
45.0
02/22/08
07/06/09
11/18/10
04/01/12
08/14/13
12/27/14
05/10/16

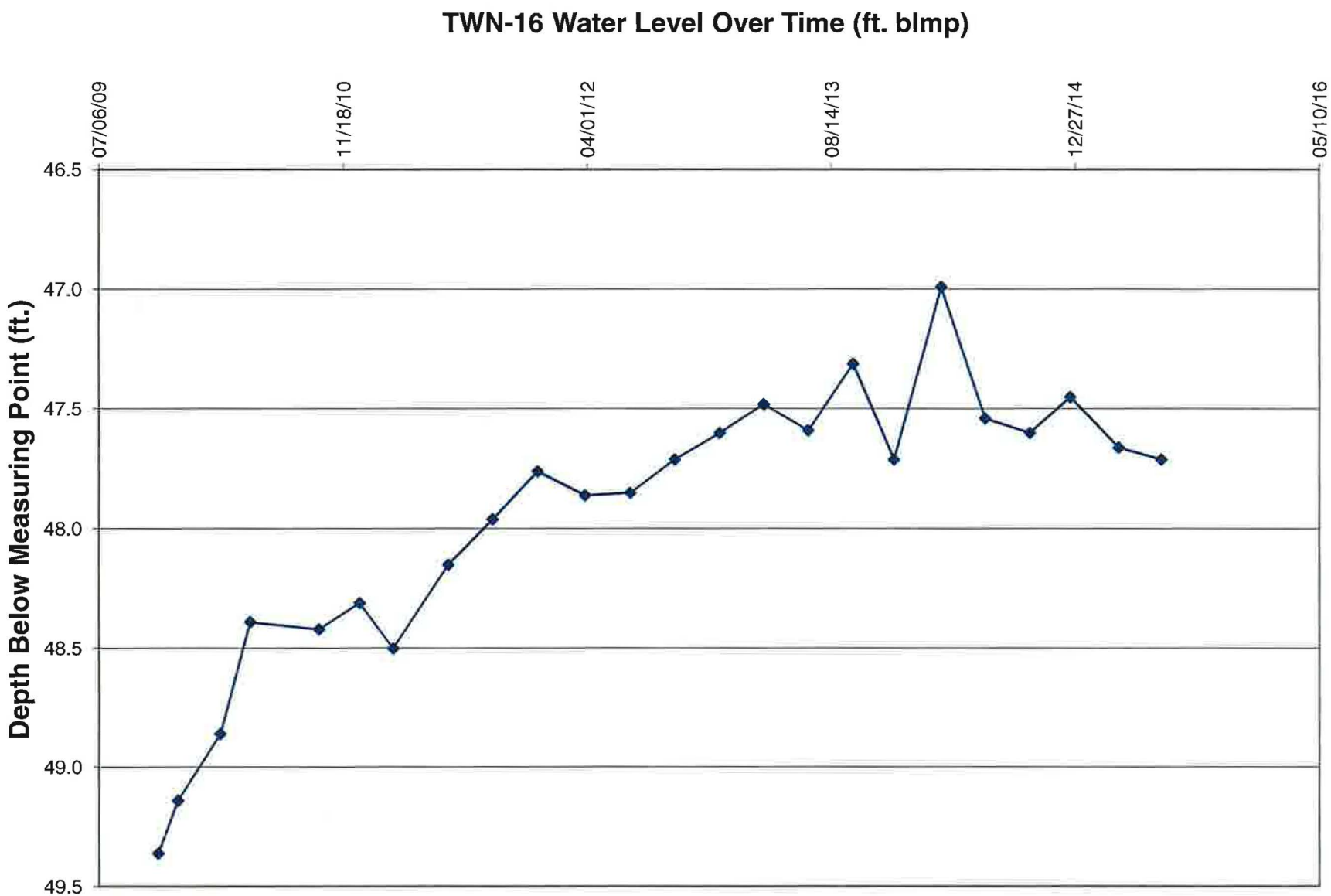

TWN-3 Water Level Over Time (ft. blmp)
Depth Below Measuring Point (ft.)
0.0
5.0
10.0
15.0
20.0
25.0
30.0
35.0
40.0
45.0
02/22/08
07/06/09
11/18/10
04/01/12
08/14/13
12/27/14
05/10/16

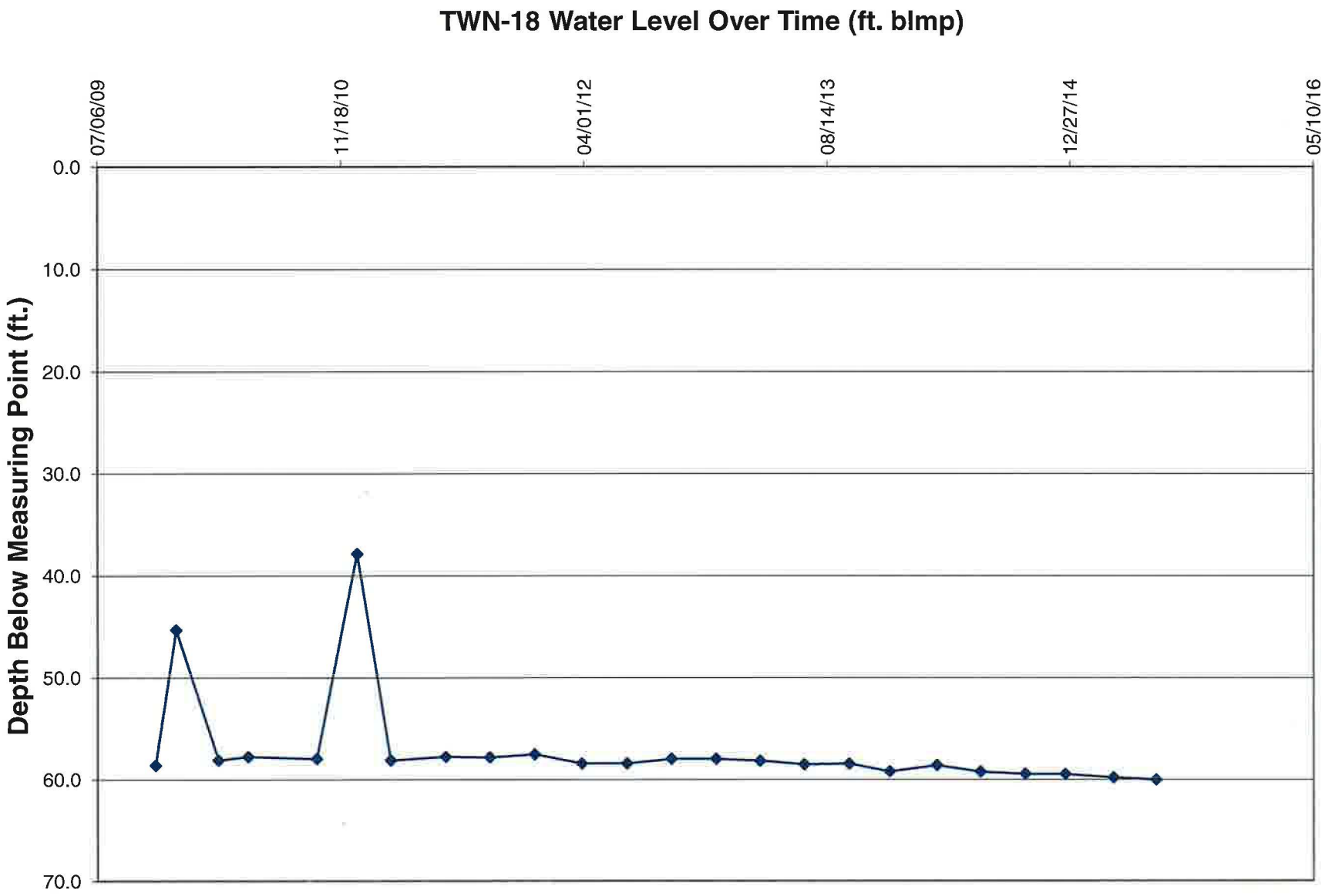

TWN-4 Water Level Over Time (ft. blmp)
Depth Below Measuring Point (ft.)
0.0
10.0
20.0
30.0
40.0
50.0
60.0
02/22/08
07/06/09
11/18/10
04/01/12
08/14/13
12/27/14
05/10/16

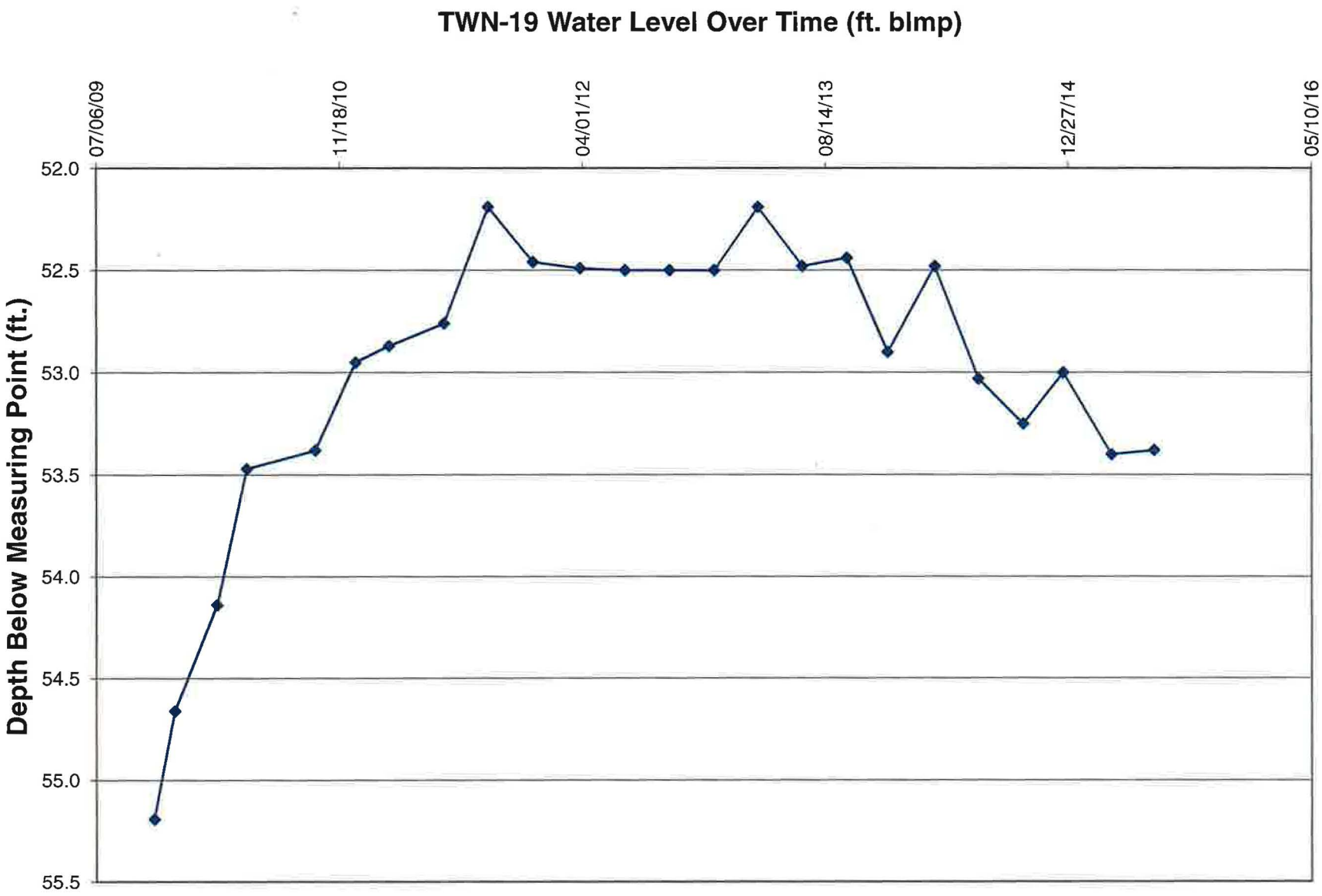

TWN-6 Water Level Over Time (ft. blmp)
Depth Below Measuring Point (ft.)
74.0
74.5
75.0
75.5
76.0
76.5
77.0
77.5
78.0
78.5
02/22/08
07/06/09
11/18/10
04/01/12
08/14/13
12/27/14
05/10/16

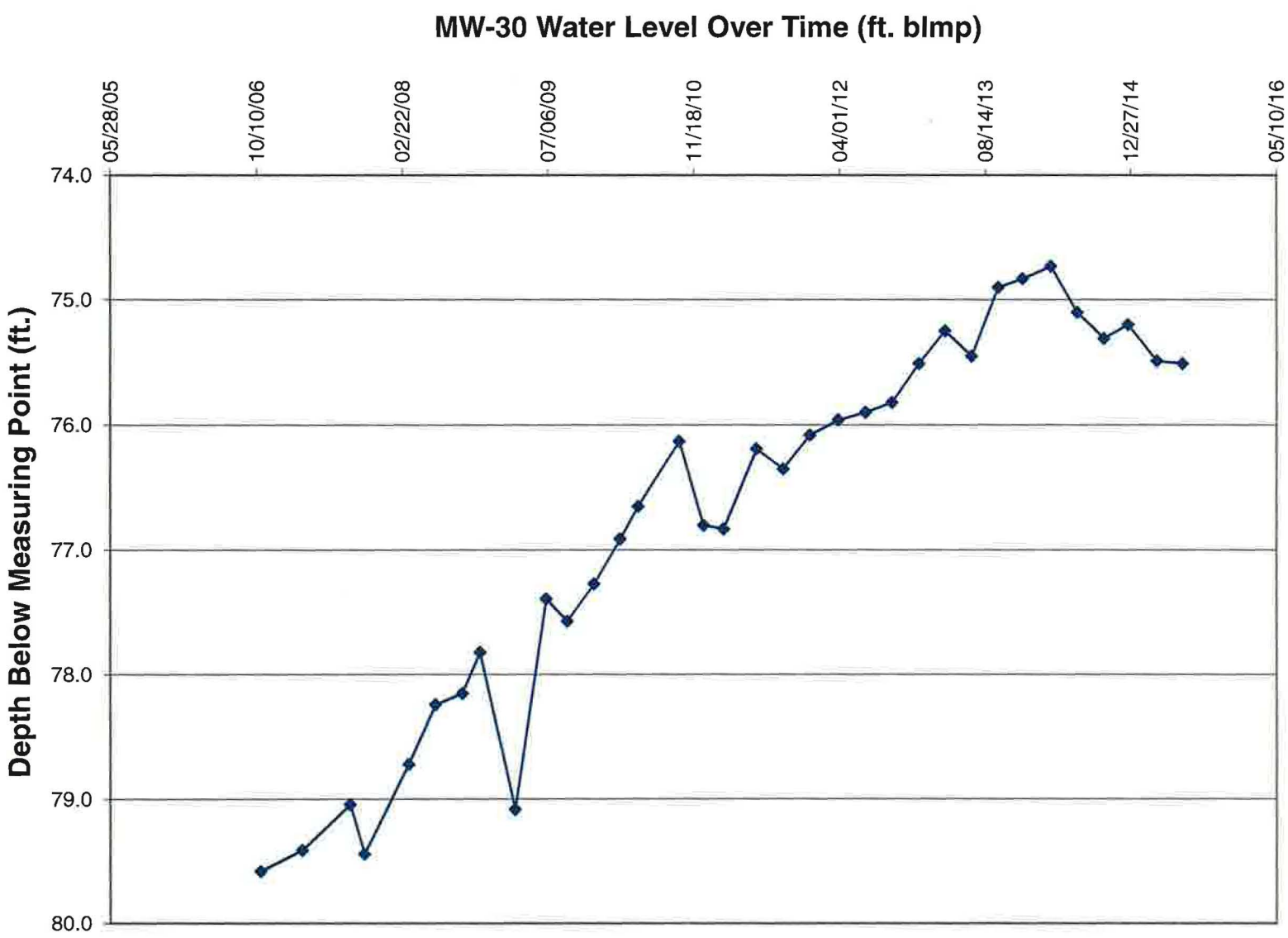

TWN-7 Water Level Over Time (ft. bImp)
Depth Below Measuring Point (ft.)
84.0
86.0
88.0
90.0
92.0
94.0
96.0
98.0
02/22/08
07/06/09
11/18/10
04/01/12
08/14/13
12/27/14
05/10/16

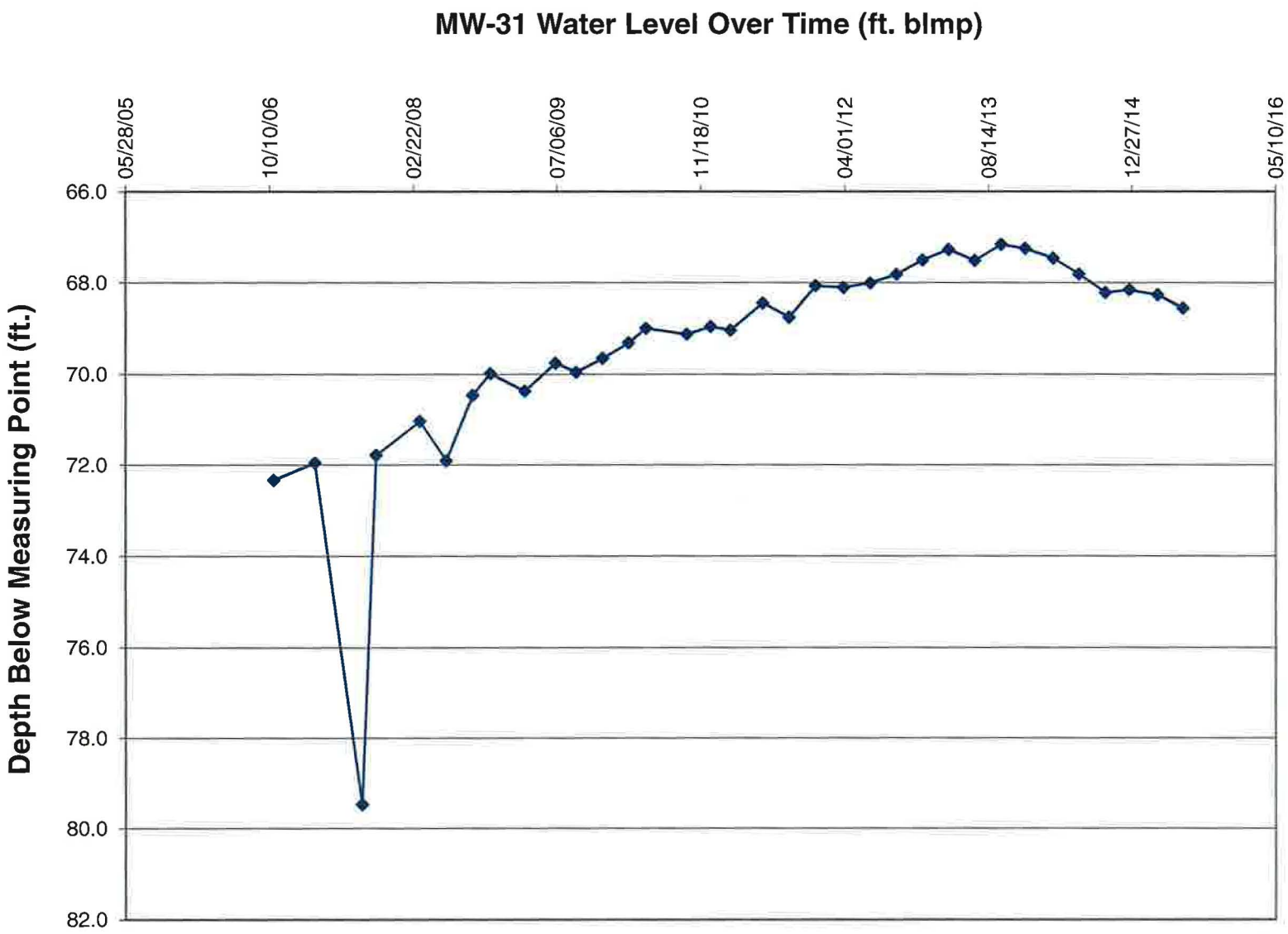

TWN-14 Water Level Over Time (ft. blmp)
Depth Below Measuring Point (ft.)
61.4
61.6
61.8
62.0
62.2
62.4
62.6
62.8
63.0
63.2
63.4
63.6
07/06/09
11/18/10
04/01/12
08/14/13
12/27/14
05/10/16


TWN-16 Water Level Over Time (ft. blmp)
Depth Below Measuring Point (ft.)
46.5
47.0
47.5
48.0
48.5
49.0
49.5
07/06/09
11/18/10
04/01/12
08/14/13
12/27/14
05/10/16


TWN-18 Water Level Over Time (ft. blmp)
Depth Below Measuring Point (ft.)
0.0
10.0
20.0
30.0
40.0
50.0
60.0
70.0
07/06/09
11/18/10
04/01/12
08/14/13
12/27/14
05/10/16


TWN-19 Water Level Over Time (ft. blmp)
Depth Below Measuring Point (ft.)
52.0
52.5
53.0
53.5
54.0
54.5
55.0
55.5
07/06/09
11/18/10
04/01/12
08/14/13
12/27/14
05/10/16


MW-30 Water Level Over Time (ft. bImp)
Depth Below Measuring Point (ft.)
74.0
75.0
76.0
77.0
78.0
79.0
80.0
05/28/05
10/10/06
02/22/08
07/06/09
11/18/10
04/01/12
08/14/13
12/27/14
05/10/16


MW-31 Water Level Over Time (ft. blmp)
Depth Below Measuring Point (ft.)
66.0
68.0
70.0
72.0
74.0
76.0
78.0
80.0
82.0
05/28/05
10/10/06
02/22/08
07/06/09
11/18/10
04/01/12
08/14/13
12/27/14
05/10/16

Tab F

Depths to Groundwater and Elevations Over Time for Nitrate Monitoring Wells

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

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,646.96	5,648.09	1.13				112.5
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	

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

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of 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
5,611.37				02/06/09	15.32	14.38	
5,610.63				07/21/09	16.06	15.12	
5,609.73				09/21/09	16.96	16.02	
5,607.08				11/02/09	19.61	18.67	
5,606.57				12/14/09	20.12	19.18	
5,612.45				03/11/10	14.24	13.30	
5,612.78				05/11/10	13.91	12.97	
5,611.37				09/29/10	15.32	14.38	
5,610.24				12/21/10	16.45	15.51	
5,610.64				02/28/11	16.05	15.11	
5,609.78				06/21/11	16.91	15.97	
5609.79				09/20/11	16.90	15.96	
5609.72				12/21/11	16.97	16.03	
5,605.69				03/27/12	21.00	20.06	
5,605.67				06/28/12	21.02	20.08	
5,603.03				09/27/12	23.66	22.72	
5,605.76				12/28/12	20.93	19.99	
5,598.28				03/28/13	28.41	27.47	
5,594.32				06/27/13	32.37	31.43	
5,594.38				09/27/13	32.31	31.37	
5,594.68				12/20/13	32.01	31.07	
5,597.79				03/27/14	28.90	27.96	
5,595.80				06/25/14	30.89	29.95	
5,587.67				09/25/14	39.02	38.08	
5,592.66				12/17/14	34.03	33.09	
5,596.71				03/26/15	29.98	29.04	
5,598.64				06/22/15	28.05	27.11	

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

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,633.64	5,634.50	0.86				110
5,603.77				02/06/09	30.73	29.87	
5,602.37				07/21/09	32.13	31.27	
5,602.34				09/21/09	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				03/11/10	31.60	30.74	
5,603.23				05/11/10	31.27	30.41	
5,602.86				09/29/10	31.64	30.78	
5,603.35				12/21/10	31.15	30.29	
5,602.89				02/28/11	31.61	30.75	
5,602.75				06/21/11	31.75	30.89	
5,602.40				09/20/11	32.10	31.24	
5,602.40				12/21/11	32.10	31.24	
5,601.70				03/27/12	32.80	31.94	
5,601.67				06/28/12	32.83	31.97	
5,600.50				09/27/12	34.00	33.14	
5,601.74				12/28/12	32.76	31.90	
5,598.60				03/28/13	35.90	35.04	
5,597.18				06/27/13	37.32	36.46	
5,597.36				09/27/13	37.14	36.28	
5,597.60				12/20/13	36.90	36.04	
5,598.00				03/27/14	36.50	35.64	
5,596.34				06/25/14	38.16	37.30	
5,596.30				09/25/14	38.20	37.34	
5,596.55				12/17/14	37.95	37.09	
5,596.20				03/26/15	38.30	37.44	
5,596.00				06/22/15	38.50	37.64	

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

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,641.04	5,641.87	0.83				136
5,601.47				02/06/09	40.40	39.57	
5,604.26				07/21/09	37.61	36.78	
5,605.02				09/21/09	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				03/11/10	36.56	35.73	
5,605.36				05/11/10	36.51	35.68	
5,604.59				09/29/10	37.28	36.45	
5,604.42				12/21/10	37.45	36.62	
5,603.69				02/28/11	38.18	37.35	
5,603.36				06/21/11	38.51	37.68	
5,602.82				09/20/11	39.05	38.22	
5,602.79				12/21/11	39.08	38.25	
5,600.82				03/27/12	41.05	40.22	
5,600.84				06/28/12	41.03	40.20	
5,598.47				09/27/12	43.40	42.57	
5,600.86				12/28/12	41.01	40.18	
5,595.57				03/28/13	46.30	45.47	
5,594.12				06/27/13	47.75	46.92	
5,593.33				09/27/13	48.54	47.71	
5,591.92				12/20/13	49.95	49.12	
5,591.85				03/27/14	50.02	49.19	
5,590.49				06/25/14	51.38	50.55	
5,589.64				09/25/14	52.23	51.40	
5,589.42				12/17/14	52.45	51.62	
5,589.17				03/26/15	52.70	51.87	
5,588.17				06/22/15	53.70	52.87	

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

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of 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				135
5,589.52				08/25/09	75.42	73.51	
5,589.46				09/22/09	75.48	73.57	
5,589.61				11/03/09	75.33	73.42	
5,589.92				12/14/09	75.02	73.11	
5,590.24				03/11/10	74.70	72.79	
5,590.40				05/11/10	74.54	72.63	
5,590.24				09/29/10	74.70	72.79	
5,590.49				12/21/10	74.45	72.54	
5,590.16				02/28/11	74.78	72.87	
5,590.44				06/21/11	74.50	72.59	
5,590.35				09/20/11	74.59	72.68	
5,590.67				12/21/11	74.27	72.36	
5,590.34				03/27/12	74.60	72.69	
5,590.32				06/28/12	74.62	72.71	
5,589.77				09/27/12	75.17	73.26	
5,589.67				12/28/12	75.27	73.36	
5,589.45				03/28/13	75.49	73.58	
5,589.01				06/27/13	75.93	74.02	
5,588.99				09/27/13	75.95	74.04	
5,588.15				12/20/13	76.79	74.88	
5,588.50				03/27/14	76.44	74.53	
5,588.03				06/25/14	76.91	75.00	
5,587.74				09/25/14	77.20	75.29	
5,587.69				12/17/14	77.25	75.34	
5,587.29				03/26/15	77.65	75.74	
5,587.04				06/22/15	77.90	75.99	

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

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,647.39	5,649.26	1.87				120
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	

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

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,647.80	5,649.53	1.73				135
5,586.18				11/04/09	63.35	61.62	
5,586.51				12/14/09	63.02	61.29	
5,586.71				03/11/10	62.82	61.09	
5,586.72				05/11/10	62.81	61.08	
5,586.53				09/29/10	63.00	61.27	
5,586.80				12/21/10	62.73	61.00	
5,586.74				02/28/11	62.79	61.06	
5,586.84				06/21/11	62.69	60.96	
5,586.73				09/20/11	62.80	61.07	
5,586.98				12/21/11	62.55	60.82	
5,587.07				03/27/12	62.46	60.73	
5,587.10				06/28/12	62.43	60.70	
5,587.07				09/27/12	62.46	60.73	
5,587.33				12/28/12	62.20	60.47	
5,587.43				03/28/13	62.10	60.37	
5,587.43				06/27/13	62.10	60.37	
5,587.72				09/27/13	61.81	60.08	
5,587.22				12/20/13	62.31	60.58	
5,587.91				03/27/14	61.62	59.89	
5,587.74				06/25/14	61.79	60.06	
5,587.76				09/25/14	61.77	60.04	
5,587.88				12/17/14	61.65	59.92	
5,587.97				03/26/15	61.56	59.83	
5,587.98				06/22/15	61.55	59.82	

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

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,651.07	5,652.70	1.63				100
5,603.34				11/04/09	49.36	47.73	
5,603.56				12/14/09	49.14	47.51	
5,603.84				03/11/10	48.86	47.23	
5,604.31				05/11/10	48.39	46.76	
5,604.28				09/29/10	48.42	46.79	
5,604.39				12/21/10	48.31	46.68	
5,604.20				02/28/11	48.50	46.87	
5,604.55				06/21/11	48.15	46.52	
5,604.74				09/20/11	47.96	46.33	
5,604.94				12/21/11	47.76	46.13	
5,604.84				03/27/12	47.86	46.23	
5,604.85				06/28/12	47.85	46.22	
5,604.99				09/27/12	47.71	46.08	
5,605.10				12/28/12	47.60	45.97	
5,605.22				03/28/13	47.48	45.85	
5,605.11				06/27/13	47.59	45.96	
5,605.39				09/27/13	47.31	45.68	
5,604.99				12/20/13	47.71	46.08	
5,605.71				03/27/14	46.99	45.36	
5,605.16				06/25/14	47.54	45.91	
5,605.10				09/25/14	47.60	45.97	
5,605.25				12/17/14	47.45	45.82	
5,605.04				03/26/15	47.66	46.03	
5,604.99				06/22/15	47.71	46.08	

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

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,643.95	5,645.45	1.50				100
5,586.85				11/02/09	58.60	57.10	
5,600.14				12/14/09	45.31	43.81	
5,587.36				03/11/10	58.09	56.59	
5,587.71				05/11/10	57.74	56.24	
5,587.50				09/29/10	57.95	56.45	
5,607.66				12/21/10	37.79	36.29	
5,587.35				02/28/11	58.10	56.60	
5,587.71				06/21/11	57.74	56.24	
5,587.65				09/20/11	57.80	56.30	
5,587.95				12/21/11	57.50	56.00	
5,587.05				03/27/12	58.40	56.90	
5,587.05				06/28/12	58.40	56.90	
5,587.50				09/27/12	57.95	56.45	
5,587.50				12/28/12	57.95	56.45	
5,587.32				03/28/13	58.13	56.63	
5,586.95				06/27/13	58.50	57.00	
5,587.02				09/27/13	58.43	56.93	
5,586.26				12/20/13	59.19	57.69	
5,586.87				03/27/14	58.58	57.08	
5,586.23				06/25/14	59.22	57.72	
5,586.02				09/25/14	59.43	57.93	
5,585.99				12/17/14	59.46	57.96	
5,585.66				03/26/15	59.79	58.29	
5,585.45				06/22/15	60.00	58.50	

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

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,659.59	5,661.36	1.77				110
5,606.17				11/02/09	55.19	53.42	
5,606.70				12/14/09	54.66	52.89	
5,607.22				03/11/10	54.14	52.37	
5,607.89				05/11/10	53.47	51.70	
5,607.98				09/29/10	53.38	51.61	
5,608.41				12/21/10	52.95	51.18	
5,608.49				02/28/11	52.87	51.10	
5,608.60				06/21/11	52.76	50.99	
5,609.17				09/20/11	52.19	50.42	
5,608.90				12/21/11	52.46	50.69	
5,608.87				03/27/12	52.49	50.72	
5,608.86				06/28/12	52.50	50.73	
5,608.86				09/27/12	52.50	50.73	
5,608.86				12/28/12	52.50	50.73	
5,609.17				03/28/13	52.19	50.42	
5,608.88				06/27/13	52.48	50.71	
5,608.92				09/27/13	52.44	50.67	
5,608.46				12/20/13	52.90	51.13	
5,608.88				03/27/14	52.48	50.71	
5,608.33				06/25/14	53.03	51.26	
5,608.11				09/25/14	53.25	51.48	
5,608.36				12/17/14	53.00	51.23	
5,607.96				03/26/15	53.40	51.63	
5,607.98				06/22/15	53.38	51.61	

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

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,613.34	5,614.50	1.16				110
5,534.92				10/24/2006	79.58	78.42	
5,535.09				3/16/2007	79.41	78.25	
5,535.46				8/27/2007	79.04	77.88	
5,535.06				10/15/2007	79.44	78.28	
5,535.78				3/15/2008	78.72	77.56	
5,536.26				6/15/2008	78.24	77.08	
5,536.35				9/15/2008	78.15	76.99	
5,536.68				11/15/2008	77.82	76.66	
5,535.42				3/15/2009	79.08	77.92	
5,537.11				6/30/2009	77.39	76.23	
5,536.93				9/10/2009	77.57	76.41	
5,537.23				12/11/2009	77.27	76.11	
5,537.59				3/11/2010	76.91	75.75	
5,537.85				5/11/2010	76.65	75.49	
5,538.37				9/29/2010	76.13	74.97	
5537.70				12/21/2010	76.8	75.64	
5537.67				2/28/2011	76.83	75.67	
5538.31				6/21/2011	76.19	75.03	
5538.15				9/20/2011	76.35	75.19	
5538.42				12/21/2011	76.08	74.92	
5538.54				3/27/2012	75.96	74.8	
5538.60				6/28/2012	75.9	74.74	
5538.68				9/27/2012	75.82	74.66	
5538.99				12/28/2012	75.51	74.35	
5539.25				3/28/2013	75.25	74.09	
5539.05				6/27/2013	75.45	74.29	
5539.60				9/27/2013	74.90	73.74	
5539.67				12/20/2013	74.83	73.67	
5539.77				3/27/2014	74.73	73.57	
5539.40				6/25/2014	75.10	73.94	
5539.19				9/25/2014	75.31	74.15	
5539.30				12/17/2014	75.20	74.04	
5539.01				3/26/2015	75.49	74.33	
5538.99				6/22/2015	75.51	74.35	

Water Levels and Data over Time
White Mesa Mill - Well MW-31

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,615.26	5,616.40	1.14				130
5,544.07				10/24/2006	72.33	71.19	
5,544.45				3/16/2007	71.95	70.81	
5,536.94				8/27/2007	79.46	78.32	
5,544.62				10/15/2007	71.78	70.64	
5,545.37				3/15/2008	71.03	69.89	
5,544.50				6/15/2008	71.90	70.76	
5,545.94				9/15/2008	70.46	69.32	
5,546.42				11/15/2008	69.98	68.84	
5,546.03				3/15/2009	70.37	69.23	
5,546.65				6/30/2009	69.75	68.61	
5,546.45				9/10/2009	69.95	68.81	
5,546.75				12/11/2009	69.65	68.51	
5,547.09				3/11/2010	69.31	68.17	
5,547.41				5/11/2010	68.99	67.85	
5,547.28				9/29/2010	69.12	67.98	
5547.45				12/21/2010	68.95	67.81	
5547.37				2/28/2011	69.03	67.89	
5547.96				6/21/2011	68.44	67.3	
5547.65				9/20/2011	68.75	67.61	
5548.34				12/21/2011	68.06	66.92	
5548.30				3/27/2012	68.10	66.96	
5548.40				6/28/2012	68.00	66.86	
5548.59				9/27/2012	67.81	66.67	
5548.91				12/28/2012	67.49	66.35	
5549.14				3/28/2013	67.26	66.12	
5548.90				6/27/2013	67.50	66.36	
5549.25				9/27/2013	67.15	66.01	
5549.16				12/20/2013	67.24	66.10	
5548.95				3/27/2014	67.45	66.31	
5548.60				6/25/2014	67.80	66.66	
5548.19				9/25/2014	68.21	67.07	
5548.25				12/17/2014	68.15	67.01	
5548.14				3/26/2015	68.26	67.12	
5547.85				6/22/2015	68.55	67.41	

Tab G

Laboratory Analytical Reports

INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 2nd Quarter Nitrate 2015
Lab Sample ID: 1505271-010
Client Sample ID: PIEZ-01_05122015
Collection Date: 5/12/2015 1325h
Received Date: 5/15/2015 1030h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		5/26/2015 1548h	E300.0	10.0	**57.5**	
Nitrate/Nitrite (as N)	mg/L		5/26/2015 2103h	E353.2	0.100	**5.95**	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 2nd Quarter Nitrate 2015
Lab Sample ID: 1505271-011
Client Sample ID: PIEZ-02_05122015
Collection Date: 5/12/2015 1300h
Received Date: 5/15/2015 1030h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		5/26/2015 1655h	E300.0	1.00	**13.1**	
Nitrate/Nitrite (as N)	mg/L		5/26/2015 2104h	E353.2	0.100	**0.646**	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 2nd Quarter Nitrate 2015
Lab Sample ID: 1505271-012
Client Sample ID: PIEZ-03_05122015
Collection Date: 5/12/2015 1310h
Received Date: 5/15/2015 1030h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		5/26/2015 1605h	E300.0	10.0	**30.2**	
Nitrate/Nitrite (as N)	mg/L		5/26/2015 2105h	E353.2	0.100	**1.75**	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 2nd Quarter Nitrate 2015
Lab Sample ID: 1505271-004
Client Sample ID: TWN-01_05132015
Collection Date: 5/13/2015 1208h
Received Date: 5/15/2015 1030h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		5/26/2015 1333h	E300.0	10.0	**29.2**	
Nitrate/Nitrite (as N)	mg/L		5/22/2015 1506h	E353.2	0.100	**0.650**	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 2nd Quarter Nitrate 2015
Lab Sample ID: 1505271-007
Client Sample ID: TWN-02_05122015
Collection Date: 5/12/2015 1340h
Received Date: 5/15/2015 1030h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		5/26/2015 1407h	E300.0	10.0	**82.6**	
Nitrate/Nitrite (as N)	mg/L		5/22/2015 1510h	E353.2	1.00	**52.8**	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 2nd Quarter Nitrate 2015
Lab Sample ID: 1505271-006
Client Sample ID: TWN-03_05142015
Collection Date: 5/14/2015 648h
Received Date: 5/15/2015 1030h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		5/27/2015 1008h	E300.0	100	**141**	
Nitrate/Nitrite (as N)	mg/L		5/22/2015 1509h	E353.2	0.100	**17.2**	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 2nd Quarter Nitrate 2015
Lab Sample ID: 1505271-005
Client Sample ID: TWN-04_05132015
Collection Date: 5/13/2015 1242h
Received Date: 5/15/2015 1030h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		5/26/2015 1350h	E300.0	10.0	**31.9**	
Nitrate/Nitrite (as N)	mg/L		5/22/2015 1507h	E353.2	0.100	**0.733**	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 2nd Quarter Nitrate 2015
Lab Sample ID: 1505271-003
Client Sample ID: TWN-07_05142015
Collection Date: 5/14/2015 633h
Received Date: 5/15/2015 1030h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		5/26/2015 1622h	E300.0	1.00	**6.18**	
Nitrate/Nitrite (as N)	mg/L		5/22/2015 1502h	E353.2	0.100	**0.779**	[1]

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

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 2nd Quarter Nitrate 2015
Lab Sample ID: 1505271-002
Client Sample ID: TWN-18_05132015
Collection Date: 5/13/2015 839h
Received Date: 5/15/2015 1030h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		5/26/2015 1316h	E300.0	10.0	**76.6**	
Nitrate/Nitrite (as N)	mg/L		5/22/2015 1501h	E353.2	0.100	**1.35**	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 2nd Quarter Nitrate 2015
Lab Sample ID: 1505271-001
Client Sample ID: TWN-18R_05132015
Collection Date: 5/13/2015 812h
Received Date: 5/15/2015 1030h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		5/27/2015 1059h	E300.0	1.00	< 1.00	
Nitrate/Nitrite (as N)	mg/L		5/22/2015 1459h	E353.2	0.100	< 0.100	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 2nd Quarter Chloroform 2015
Lab Sample ID: 1506266-024
Client Sample ID: TW4-22_06082015
Collection Date: 6/8/2015 1455h
Received Date: 6/12/2015 900h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		6/17/2015 1904h	E300.0	100	**390**	
Nitrate/Nitrite (as N)	mg/L		6/15/2015 1304h	E353.2	10.0	**47.1**	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 2nd Quarter Chloroform 2015
Lab Sample ID: 1506266-033
Client Sample ID: TW4-24_06082015
Collection Date: 6/8/2015 1441h
Received Date: 6/12/2015 900h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		6/18/2015 1304h	E300.0	100	**1,290**	
Nitrate/Nitrite (as N)	mg/L		6/15/2015 1330h	E353.2	5.00	**31.8**	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 2nd Quarter Chloroform 2015
Lab Sample ID: 1506266-027
Client Sample ID: TW4-25_06082015
Collection Date: 6/8/2015 1428h
Received Date: 6/12/2015 900h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		6/18/2015 742h	E300.0	10.0	**58.3**	
Nitrate/Nitrite (as N)	mg/L		6/15/2015 1308h	E353.2	1.00	**1.14**	

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Kyle F. Gross
Laboratory Director

Jose Rocha
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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 2nd Quarter Chloroform 2015
Lab Sample ID: 1506266-040
Client Sample ID: TW4-60_06112015
Collection Date: 6/11/2015 830h
Received Date: 6/12/2015 900h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		6/18/2015 1819h	E300.0	1.00	< 1.00	
Nitrate/Nitrite (as N)	mg/L		6/15/2015 1349h	E353.2	0.100	< 0.100	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 2nd Quarter Nitrate 2015
Lab Sample ID: 1505271-009
Client Sample ID: TWN-60_05132015
Collection Date: 5/13/2015 1345h
Received Date: 5/15/2015 1030h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		5/26/2015 1639h	E300.0	1.00	< 1.00	
Nitrate/Nitrite (as N)	mg/L		5/26/2015 2059h	E353.2	0.100	< 0.100	[1]

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

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 2nd Quarter Nitrate 2015
Lab Sample ID: 1505271-008
Client Sample ID: TWN-65_05132015
Collection Date: 5/13/2015 839h
Received Date: 5/15/2015 1030h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		5/26/2015 1457h	E300.0	10.0	**76.9**	
Nitrate/Nitrite (as N)	mg/L		5/22/2015 1511h	E353.2	0.100	< 0.100	

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Laboratory Director

Jose Rocha
QA Officer

Garrin Palmer
Energy Fuels Resources, Inc.
6425 S. Hwy 191
Blanding, UT 84511
TEL: (435) 678-2221

RE: 2nd Quarter Nitrate 2015

Dear Garrin Palmer: Lab Set ID: 1505271

American West Analytical Laboratories received sample(s) on 5/15/2015 for the analyses presented in the following report.

American West Analytical Laboratories (AWAL) is accredited by The National Environmental Laboratory Accreditation Program (NELAP) in Utah and Texas; and is state accredited in Colorado, Idaho, New Mexico, Wyoming, and Missouri.

All analyses were performed in accordance to the NELAP protocols unless noted otherwise. Accreditation scope documents are available upon request. If you have any questions or concerns regarding this report please feel free to call.

The abbreviation "Surr" found in organic reports indicates a surrogate compound that is intentionally added by the laboratory to determine sample injection, extraction, and/or purging efficiency. The "Reporting Limit" found on the report is equivalent to the practical quantitation limit (PQL). This is the minimum concentration that can be reported by the method referenced and the sample matrix. The reporting limit must not be confused with any regulatory limit. Analytical results are reported to three significant figures for quality control and calculation purposes.

Thank You,

Approved by: Jose G. Rocha
Digitally signed by Jose G. Rocha
DN: cn=Jose G. Rocha, o=American West Analytical Laboratories, ou, email=jose@awal-labs.com, c=US
Date: 2015.05.27 16:49:13 -06'00'

Laboratory Director or designee

All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. Confidential Business Information: This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only on contact. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.

SAMPLE SUMMARY

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 2nd Quarter Nitrate 2015
Lab Set ID: 1505271
Date Received: 5/15/2015 1030h

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
1505271-001A	TWN-18R_05132015	5/13/2015 812h	Aqueous	Anions, E300.0
1505271-001B	TWN-18R_05132015	5/13/2015 812h	Aqueous	Nitrite/Nitrate (as N), E353.2
1505271-002A	TWN-18_05132015	5/13/2015 839h	Aqueous	Anions, E300.0
1505271-002B	TWN-18_05132015	5/13/2015 839h	Aqueous	Nitrite/Nitrate (as N), E353.2
1505271-003A	TWN-07_05142015	5/14/2015 633h	Aqueous	Anions, E300.0
1505271-003B	TWN-07_05142015	5/14/2015 633h	Aqueous	Nitrite/Nitrate (as N), E353.2
1505271-004A	TWN-01_05132015	5/13/2015 1208h	Aqueous	Anions, E300.0
1505271-004B	TWN-01_05132015	5/13/2015 1208h	Aqueous	Nitrite/Nitrate (as N), E353.2
1505271-005A	TWN-04_05132015	5/13/2015 1242h	Aqueous	Anions, E300.0
1505271-005B	TWN-04_05132015	5/13/2015 1242h	Aqueous	Nitrite/Nitrate (as N), E353.2
1505271-006A	TWN-03_05142015	5/14/2015 648h	Aqueous	Anions, E300.0
1505271-006B	TWN-03_05142015	5/14/2015 648h	Aqueous	Nitrite/Nitrate (as N), E353.2
1505271-007A	TWN-02_05122015	5/12/2015 1340h	Aqueous	Anions, E300.0
1505271-007B	TWN-02_05122015	5/12/2015 1340h	Aqueous	Nitrite/Nitrate (as N), E353.2
1505271-008A	TWN-65_05132015	5/13/2015 839h	Aqueous	Anions, E300.0
1505271-008B	TWN-65_05132015	5/13/2015 839h	Aqueous	Nitrite/Nitrate (as N), E353.2
1505271-009A	TWN-60_05132015	5/13/2015 1345h	Aqueous	Anions, E300.0
1505271-009B	TWN-60_05132015	5/13/2015 1345h	Aqueous	Nitrite/Nitrate (as N), E353.2
1505271-010A	PIEZ-01_05122015	5/12/2015 1325h	Aqueous	Anions, E300.0
1505271-010B	PIEZ-01_05122015	5/12/2015 1325h	Aqueous	Nitrite/Nitrate (as N), E353.2
1505271-011A	PIEZ-02_05122015	5/12/2015 1300h	Aqueous	Anions, E300.0
1505271-011B	PIEZ-02_05122015	5/12/2015 1300h	Aqueous	Nitrite/Nitrate (as N), E353.2
1505271-012A	PIEZ-03_05122015	5/12/2015 1310h	Aqueous	Anions, E300.0
1505271-012B	PIEZ-03_05122015	5/12/2015 1310h	Aqueous	Nitrite/Nitrate (as N), E353.2

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Inorganic Case Narrative

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Client: Energy Fuels Resources, Inc.
Contact: Garrin Palmer
Project: 2nd Quarter Nitrate 2015
Lab Set ID: 1505271

Sample Receipt Information:

Date of Receipt: 5/15/2015
Date(s) of Collection: 5/12, 5/13, and 5/14/2015
Sample Condition: Intact
C-O-C Discrepancies: None

Holding Time and Preservation Requirements: The analysis and preparation for the samples were performed within the method holding times. The samples were properly preserved.

Preparation and Analysis Requirements: The samples were analyzed following the methods stated on the analytical reports.

Analytical QC Requirements: All instrument calibration and calibration check requirements were met. All internal standard recoveries met method criterion.

Batch QC Requirements: MB, LCS, MS, MSD, RPD:

Method Blanks (MB): No target analytes were detected above reporting limits, indicating that the procedure was free from contamination.

Laboratory Control Samples (LCS): All LCS recoveries were within control limits, indicating that the preparation and analysis were in control.

Matrix Spike / Matrix Spike Duplicates (MS/MSD): All percent recoveries and RPDs (Relative Percent Differences) were inside established limits, with the following exceptions:

Sample ID	Analyte	QC	Explanation
1505271-003B	Nitrate/Nitrite	MS/MSD	Sample matrix interference
1505271-009B	Nitrate/Nitrite	MS/MSD	Sample matrix interference

Corrective Action: None required.

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1505271
Project: 2nd Quarter Nitrate 2015

Contact: Garrin Palmer
Dept: WC
QC Type: LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: LCS-R79092 Date Analyzed: 05/26/2015 937h Test Code: 300.0-W													
Chloride	5.00	mg/L	E300.0	0.00751	0.100	5.000	0	100	90 - 110				
Lab Sample ID: LCS-R79094 Date Analyzed: 05/27/2015 951h Test Code: 300.0-W													
Chloride	4.94	mg/L	E300.0	0.00751	0.100	5.000	0	98.7	90 - 110				
Lab Sample ID: LCS-79005 Date Analyzed: 05/22/2015 1442h Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	0.990	mg/L	E353.2	0.00833	0.0100	1.000	0	99.0	90 - 110				
Lab Sample ID: LCS-79059 Date Analyzed: 05/26/2015 2057h Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	0.970	mg/L	E353.2	0.00833	0.0100	1.000	0	97.0	90 - 110				

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1505271
Project: 2nd Quarter Nitrate 2015

Contact: Garrin Palmer
Dept: WC
QC Type: MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: MB-R79092 Date Analyzed: 05/26/2015 920h Test Code: 300.0-W													
Chloride	< 0.100	mg/L	E300.0	0.00751	0.100								
Lab Sample ID: MB-R79094 Date Analyzed: 05/27/2015 935h Test Code: 300.0-W													
Chloride	< 0.100	mg/L	E300.0	0.00751	0.100								
Lab Sample ID: MB-79005 Date Analyzed: 05/22/2015 1441h Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	< 0.0100	mg/L	E353.2	0.00833	0.0100								
Lab Sample ID: MB-79059 Date Analyzed: 05/26/2015 2056h Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	< 0.0100	mg/L	E353.2	0.00833	0.0100								

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1505271
Project: 2nd Quarter Nitrate 2015

Contact: Garrin Palmer
Dept: WC
QC Type: MS

Analyte		Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID:	**1505271-008AMS**	Date Analyzed:	05/26/2015 1514h											
Test Code:	300.0-W													
Chloride		127	mg/L	E300.0	0.0751	1.00	50.00	76.9	99.5	90 - 110				
Lab Sample ID:	**1505271-006AMS**	Date Analyzed:	05/27/2015 1025h											
Test Code:	300.0-W													
Chloride		636	mg/L	E300.0	0.751	10.0	500.0	141	99.0	90 - 110				
Lab Sample ID:	**1505271-003BMS**	Date Analyzed:	05/22/2015 1503h											
Test Code:	NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)		1.66	mg/L	E353.2	0.00833	0.0100	1.000	0.779	88.4	90 - 110				1
Lab Sample ID:	**1505271-009BMS**	Date Analyzed:	05/26/2015 2100h											
Test Code:	NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)		0.895	mg/L	E353.2	0.00833	0.0100	1.000	0	89.5	90 - 110				1

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

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Jose Rocha
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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1505271
Project: 2nd Quarter Nitrate 2015

Contact: Garrin Palmer
Dept: WC
QC Type: MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 1505271-008AMSD Date Analyzed: 05/26/2015 1531h													
Test Code: 300.0-W													
Chloride	126	mg/L	E300.0	0.0751	1.00	50.00	76.9	98.6	90 - 110	127	0.352	20	
Lab Sample ID: 1505271-006AMSD Date Analyzed: 05/27/2015 1042h													
Test Code: 300.0-W													
Chloride	639	mg/L	E300.0	0.751	10.0	500.0	141	99.7	90 - 110	636	0.574	20	
Lab Sample ID: 1505271-003BMSD Date Analyzed: 05/22/2015 1505h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.54	mg/L	E353.2	0.00833	0.0100	1.000	0.779	76.1	90 - 110	1.66	7.68	10	'
Lab Sample ID: 1505271-009BMSD Date Analyzed: 05/26/2015 2101h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	0.876	mg/L	E353.2	0.00833	0.0100	1.000	0	87.6	90 - 110	0.895	2.16	10	'

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

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American West Analytical Laboratories

UL
Denison

WORK ORDER Summary

Work Order: **1505271**

Client: Energy Fuels Resources, Inc.

Due Date: 5/27/2015

Client ID: DEN100

Contact: Garrin Palmer

Project: **2nd Quarter Nitrate 2015**

QC Level: III

WO Type: Project

Comments: PA Rush. QC 3 (Summary/No chromatograms). MUST report project specific DL's: Cl @ 1 mg/L, NO2/NO3 @ 0.1 mg/L. EDD-Denison & LOCUS. Email Group; SAMPLES WITH AN "R" OR TWN-60 CAN NOT BE RUN BY 4500, THEY MUST BE RUN BY 300.0.; el

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1505271-001A	**TWN-18R_05132015**	5/13/2015 0812h	5/15/2015 1030h	**300.0-W** *1 SEL Analytes: CL*	Aqueous		df - cl	1
1505271-001B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*			df - no2/no3	
1505271-002A	**TWN-18_05132015**	5/13/2015 0839h	5/15/2015 1030h	**300.0-W** *1 SEL Analytes: CL*	Aqueous		df - cl	1
1505271-002B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*			df - no2/no3	
1505271-003A	**TWN-07_05142015**	5/14/2015 0633h	5/15/2015 1030h	**300.0-W** *1 SEL Analytes: CL*	Aqueous		df - cl	1
1505271-003B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*			df - no2/no3	
1505271-004A	**TWN-01_05132015**	5/13/2015 1208h	5/15/2015 1030h	**300.0-W** *1 SEL Analytes: CL*	Aqueous		df - cl	1
1505271-004B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*			df - no2/no3	
1505271-005A	**TWN-04_05132015**	5/13/2015 1242h	5/15/2015 1030h	**300.0-W** *1 SEL Analytes: CL*	Aqueous		df - cl	1
1505271-005B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*			df - no2/no3	
1505271-006A	**TWN-03_05142015**	5/14/2015 0648h	5/15/2015 1030h	**300.0-W** *1 SEL Analytes: CL*	Aqueous		df - cl	1
1505271-006B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*			df - no2/no3	
1505271-007A	**TWN-02_05122015**	5/12/2015 1340h	5/15/2015 1030h	**300.0-W** *1 SEL Analytes: CL*	Aqueous		df - cl	1
1505271-007B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*			df - no2/no3	
1505271-008A	**TWN-65_05132015**	5/13/2015 0839h	5/15/2015 1030h	**300.0-W** *1 SEL Analytes: CL*	Aqueous		df - cl	1

Printed: 5/15/2015

FOR LABORATORY USE ONLY [fill out on page 1]: %M ☐ RT ☐ CN ☐ TAT ☐ QC ☐ HOK JM HOK____ HOK____ COC Emailed 5/15/15 el

WORK ORDER Summary

Work Order: **1505271**

Client: Energy Fuels Resources, Inc.

Due Date: 5/27/2015

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1505271-008B	**TWN-65_05132015**	5/13/2015 0839h	5/15/2015 1030h	**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*	Aqueous		df - no2/no3	1
1505271-009A	**TWN-60_05132015**	5/13/2015 1345h	5/15/2015 1030h	**300.0-W** *1 SEL Analytes: CL*	Aqueous		df - cl	1
1505271-009B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*			df - no2/no3	
1505271-010A	**PIEZ-01_05122015**	5/12/2015 1325h	5/15/2015 1030h	**300.0-W** *1 SEL Analytes: CL*	Aqueous		df - cl	1
1505271-010B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*			df - no2/no3	
1505271-011A	**PIEZ-02_05122015**	5/12/2015 1300h	5/15/2015 1030h	**300.0-W** *1 SEL Analytes: CL*	Aqueous		df - cl	1
1505271-011B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*			df - no2/no3	
1505271-012A	**PIEZ-03_05122015**	5/12/2015 1310h	5/15/2015 1030h	**300.0-W** *1 SEL Analytes: CL*	Aqueous		df - cl	1
1505271-012B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*			df - no2/no3	

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American West Analytical Laboratories

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CHAIN OF CUSTODY

All analysis will be conducted using NELAP accredited methods and all data will be reported using AWAL's standard analyte lists and reporting limits (PQL) unless specifically requested otherwise on this Chain of Custody and/or attached documentation.

1505271

AWAL Lab Sample Set #

Page 1 of 1

QC Level:	Turn Around Time:	Unless other arrangements have been made, signed reports will be emailed by 5:00 pm on the day they are due.	Due Date:
3	Standard		

Client: Energy Fuels Resources, Inc.
Address: 6425 S. Hwy. 191
Blanding, UT 84511
Contact: Garrin Palmer
Phone #: (435) 678-2221 Cell #:
Email: gpalmer@energyfuels.com; KWeinel@energyfuels.com; dturk@energyfuels.com
Project Name: 2nd quarter Nitrate 2015
Project #:
PO #:
Sampler Name: Tanner Holliday

X Include EDD:
LOCUS UPLOAD
EXCEL
Field Filtered For:

For Compliance With:
- ☐ NELAP
- ☐ RCRA
- ☐ CWA
- ☐ SDWA
- ☐ ELAP / A2LA
- ☐ NLLAP
- ☐ Non-Compliance
- ☐ Other:

	Sample ID:	Date Sampled	Time Sampled	# of Containers	Sample Matrix	NO2/NO3 (353.2)	Cl (4500 or 300.0)	Known Hazards & Sample Comments
1	TWN-18R_05132015	5/13/2015	812	2	W	X	X	
2	TWN-18_05132015	5/13/2015	839	2	W	X	X	
3	TWN-07_05142015	5/14/2015	633	2	W	X	X	
4	TWN-01_05132015	5/13/2015	1208	2	W	X	X	
5	TWN-04_05132015	5/13/2015	1242	2	W	X	X	
6	TWN-03-05142015	5/14/2015	648	2	W	X	X	
7	TWN-02_05122015	5/12/2015	1340	2	W	X	X	
8	TWN-65_05132015	5/13/2015	839	2	W	X	X	
9	TWN-60_05132015	5/13/2015	1345	2	W	X	X	
10	PIEZ-01_05122015	5/12/2015	1325	2	W	X	X	
	PIEZ-02_05122015	5/12/2015	1300	2	W	X	X	
11	PIEZ-03_05122015	5/12/2015	1310	2	W	X	X	
12								

Laboratory Use Only

Samples Were Fed X
1 Shipped or hand delivered
2 Ambient or Chilled
3 Temperature 4.0 °C
4 Received Broken/Leaking (Improperly Sealed) Y N
5 Properly Preserved Y N
Checked at bench Y N
6 Received Within Holding Times Y N

COC Tape Was:
1 Present on Outer Package Y N NA
2 Unbroken on Outer Package Y N NA
3 Present on Sample Y N NA
4 Unbroken on Sample Y N NA

Discrepancies Between Sample Labels and COC Record? Y N

Relinquished by:	Date:	Received by:	Date:
Signature: Tanner Holliday	5/14/2015	Signature:	
Print Name: Tanner Holliday	Time: 1100	Print Name:	Time:
Relinquished by: Signature:	Date:	Received by: Signature:	Date: 5/15/15
Print Name:	Time:	Print Name: Elena Hayward	Time: 1030
Relinquished by: Signature:	Date:	Received by: Signature:	Date:
Print Name:	Time:	Print Name:	Time:
Relinquished by: Signature:	Date:	Received by: Signature:	Date:
Print Name:	Time:	Print Name:	Time:

Special Instructions:

Lab Set ID: 1505271

Preservation Check Sheet

Sample Set Extension and pH

Analysis	Preservative	1	2	3	4	5	6	7	8	9	10	11	12						
Ammonia	pH <2 H_2SO_4																		
COD	pH <2 H_2SO_4																		
Cyanide	pH >12 NaOH																		
Metals	pH <2 HNO_3																		
NO_2 & NO_3	pH <2 H_2SO_4	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes						
O & G	pH <2 HCL																		
Phenols	pH <2 H_2SO_4																		
Sulfide	pH > 9NaOH, Zn Acetate																		
TKN	pH <2 H_2SO_4																		
T PO_4	pH <2 H_2SO_4																		

Procedure:

1) Pour a small amount of sample in the sample lid
2) Pour sample from Lid gently over wide range pH paper
3) **Do Not** dip the pH paper in the sample bottle or lid
4) If sample is not preserved, properly list its extension and receiving pH in the appropriate column above
5) Flag COC, notify client if requested
6) Place client conversation on COC
7) Samples may be adjusted

Frequency: All samples requiring preservation

* The sample required additional preservative upon receipt.

\+ The sample was received unpreserved.

▲ The sample was received unpreserved and therefore preserved upon receipt.

\# The sample pH was unadjustable to a pH < 2 due to the sample matrix.

• The sample pH was unadjustable to a pH > ____ due to the sample matrix interference.

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Garrin Palmer
Energy Fuels Resources, Inc.
6425 S. Hwy 191
Blanding, UT 84511
TEL: (435) 678-2221

RE: 2nd Quarter Chloroform 2015

Dear Garrin Palmer: Lab Set ID: 1506266

American West Analytical Laboratories received sample(s) on 6/12/2015 for the analyses presented in the following report.

American West Analytical Laboratories (AWAL) is accredited by The National Environmental Laboratory Accreditation Program (NELAP) in Utah and Texas; and is state accredited in Colorado, Idaho, New Mexico, Wyoming, and Missouri.

All analyses were performed in accordance to the NELAP protocols unless noted otherwise. Accreditation scope documents are available upon request. If you have any questions or concerns regarding this report please feel free to call.

The abbreviation "Surr" found in organic reports indicates a surrogate compound that is intentionally added by the laboratory to determine sample injection, extraction, and/or purging efficiency. The "Reporting Limit" found on the report is equivalent to the practical quantitation limit (PQL). This is the minimum concentration that can be reported by the method referenced and the sample matrix. The reporting limit must not be confused with any regulatory limit. Analytical results are reported to three significant figures for quality control and calculation purposes.

Thank You,

Approved by: Jose G. Rocha — Digitally signed by Jose G. Rocha DN: cn=Jose G. Rocha, o=American West Analytical Laboratories, ou, email=jose@awal-labs.com, c=US Date: 2015.06.23 12:07:16 -06'00'

Laboratory Director or designee

All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. Confidential Business Information: This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only on contact. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.

SAMPLE SUMMARY

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 2nd Quarter Chloroform 2015
Lab Set ID: 1506266
Date Received: 6/12/2015 900h

3440 South 700 West
Salt Lake City, UT 84119

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID	Client Sample ID	Date Collected		Matrix	Analysis
1506266-001A	TW4-03R_06092015	6/9/2015	727h	Aqueous	Anions, E300.0
1506266-001B	TW4-03R_06092015	6/9/2015	727h	Aqueous	Nitrite/Nitrate (as N), E353.2
1506266-001C	TW4-03R_06092015	6/9/2015	727h	Aqueous	VOA by GC/MS Method 8260C/5030C
1506266-002A	TW4-03_06102015	6/10/2015	845h	Aqueous	Anions, E300.0
1506266-002B	TW4-03_06102015	6/10/2015	845h	Aqueous	Nitrite/Nitrate (as N), E353.2
1506266-002C	TW4-03_06102015	6/10/2015	845h	Aqueous	VOA by GC/MS Method 8260C/5030C
1506266-003A	TW4-12_06102015	6/10/2015	900h	Aqueous	Anions, E300.0
1506266-003B	TW4-12_06102015	6/10/2015	900h	Aqueous	Nitrite/Nitrate (as N), E353.2
1506266-003C	TW4-12_06102015	6/10/2015	900h	Aqueous	VOA by GC/MS Method 8260C/5030C
1506266-004A	TW4-28_06102015	6/10/2015	906h	Aqueous	Anions, E300.0
1506266-004B	TW4-28_06102015	6/10/2015	906h	Aqueous	Nitrite/Nitrate (as N), E353.2
1506266-004C	TW4-28_06102015	6/10/2015	906h	Aqueous	VOA by GC/MS Method 8260C/5030C
1506266-005A	TW4-32_06102015	6/10/2015	915h	Aqueous	Anions, E300.0
1506266-005B	TW4-32_06102015	6/10/2015	915h	Aqueous	Nitrite/Nitrate (as N), E353.2
1506266-005C	TW4-32_06102015	6/10/2015	915h	Aqueous	VOA by GC/MS Method 8260C/5030C
1506266-006B	TW4-13_06102015	6/10/2015	927h	Aqueous	Nitrite/Nitrate (as N), E353.2
1506266-006C	TW4-13_06102015	6/10/2015	927h	Aqueous	VOA by GC/MS Method 8260C/5030C
1506266-007A	TW4-36_06102015	6/10/2015	933h	Aqueous	Anions, E300.0
1506266-007B	TW4-36_06102015	6/10/2015	933h	Aqueous	Nitrite/Nitrate (as N), E353.2
1506266-007C	TW4-36_06102015	6/10/2015	933h	Aqueous	VOA by GC/MS Method 8260C/5030C
1506266-008A	TW4-27_06102015	6/10/2015	941h	Aqueous	Anions, E300.0
1506266-008B	TW4-27_06102015	6/10/2015	941h	Aqueous	Nitrite/Nitrate (as N), E353.2
1506266-008C	TW4-27_06102015	6/10/2015	941h	Aqueous	VOA by GC/MS Method 8260C/5030C
1506266-009A	TW4-31_06102015	6/10/2015	950h	Aqueous	Anions, E300.0
1506266-009B	TW4-31_06102015	6/10/2015	950h	Aqueous	Nitrite/Nitrate (as N), E353.2
1506266-009C	TW4-31_06102015	6/10/2015	950h	Aqueous	VOA by GC/MS Method 8260C/5030C
1506266-010A	TW4-34_06102015	6/10/2015	957h	Aqueous	Anions, E300.0
1506266-010B	TW4-34_06102015	6/10/2015	957h	Aqueous	Nitrite/Nitrate (as N), E353.2

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Client: Energy Fuels Resources, Inc.
Project: 2nd Quarter Chloroform 2015
Lab Set ID: 1506266
Date Received: 6/12/2015 900h

Contact: Garrin Palmer

Lab Sample ID	Client Sample ID	Date Collected		Matrix	Analysis
1506266-010C	TW4-34_06102015	6/10/2015	957h	Aqueous	VOA by GC/MS Method 8260C/5030C
1506266-011A	TW4-35_06102015	6/10/2015	1005h	Aqueous	Anions, E300.0
1506266-011B	TW4-35_06102015	6/10/2015	1005h	Aqueous	Nitrite/Nitrate (as N), E353.2
1506266-011C	TW4-35_06102015	6/10/2015	1005h	Aqueous	VOA by GC/MS Method 8260C/5030C
1506266-012A	TW4-23_06102015	6/10/2015	1014h	Aqueous	Anions, E300.0
1506266-012B	TW4-23_06102015	6/10/2015	1014h	Aqueous	Nitrite/Nitrate (as N), E353.2
1506266-012C	TW4-23_06102015	6/10/2015	1014h	Aqueous	VOA by GC/MS Method 8260C/5030C
1506266-013A	MW-32_06112015	6/11/2015	1350h	Aqueous	Anions, E300.0
1506266-013B	MW-32_06112015	6/11/2015	1350h	Aqueous	Nitrite/Nitrate (as N), E353.2
1506266-013C	MW-32_06112015	6/11/2015	1350h	Aqueous	VOA by GC/MS Method 8260C/5030C
1506266-014A	TW4-08_06112015	6/11/2015	1245h	Aqueous	Anions, E300.0
1506266-014B	TW4-08_06112015	6/11/2015	1245h	Aqueous	Nitrite/Nitrate (as N), E353.2
1506266-014C	TW4-08_06112015	6/11/2015	1245h	Aqueous	VOA by GC/MS Method 8260C/5030C
1506266-015A	TW4-01_06082015	6/8/2015	1606h	Aqueous	Anions, E300.0
1506266-015B	TW4-01_06082015	6/8/2015	1606h	Aqueous	Nitrite/Nitrate (as N), E353.2
1506266-015C	TW4-01_06082015	6/8/2015	1606h	Aqueous	VOA by GC/MS Method 8260C/5030C
1506266-016A	TW4-06_06112015	6/11/2015	1252h	Aqueous	Anions, E300.0
1506266-016B	TW4-06_06112015	6/11/2015	1252h	Aqueous	Nitrite/Nitrate (as N), E353.2
1506266-016C	TW4-06_06112015	6/11/2015	1252h	Aqueous	VOA by GC/MS Method 8260C/5030C
1506266-017A	TW4-10_06112015	6/11/2015	1301h	Aqueous	Anions, E300.0
1506266-017B	TW4-10_06112015	6/11/2015	1301h	Aqueous	Nitrite/Nitrate (as N), E353.2
1506266-017C	TW4-10_06112015	6/11/2015	1301h	Aqueous	VOA by GC/MS Method 8260C/5030C
1506266-018A	TW4-04_06082015	6/8/2015	1616h	Aqueous	Anions, E300.0
1506266-018B	TW4-04_06082015	6/8/2015	1616h	Aqueous	Nitrite/Nitrate (as N), E353.2
1506266-018C	TW4-04_06082015	6/8/2015	1616h	Aqueous	VOA by GC/MS Method 8260C/5030C
1506266-019A	MW-04_06082015	6/8/2015	1600h	Aqueous	Anions, E300.0
1506266-019B	MW-04_06082015	6/8/2015	1600h	Aqueous	Nitrite/Nitrate (as N), E353.2
1506266-019C	MW-04_06082015	6/8/2015	1600h	Aqueous	VOA by GC/MS Method 8260C/5030C
1506266-020A	TW4-02_06082015	6/8/2015	1550h	Aqueous	Anions, E300.0
1506266-020B	TW4-02_06082015	6/8/2015	1550h	Aqueous	Nitrite/Nitrate (as N), E353.2

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Client: Energy Fuels Resources, Inc.
Project: 2nd Quarter Chloroform 2015
Lab Set ID: 1506266
Date Received: 6/12/2015 900h

Contact: Garrin Palmer

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Salt Lake City, UT 84119

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID	Client Sample ID	Date Collected		Matrix	Analysis
1506266-020C	TW4-02_06082015	6/8/2015	1550h	Aqueous	VOA by GC/MS Method 8260C/5030C
1506266-021A	MW-26_06082015	6/8/2015	1525h	Aqueous	Anions, E300.0
1506266-021B	MW-26_06082015	6/8/2015	1525h	Aqueous	Nitrite/Nitrate (as N), E353.2
1506266-021C	MW-26_06082015	6/8/2015	1525h	Aqueous	VOA by GC/MS Method 8260C/5030C
1506266-022A	TW4-11_06082015	6/8/2015	1535h	Aqueous	Anions, E300.0
1506266-022B	TW4-11_06082015	6/8/2015	1535h	Aqueous	Nitrite/Nitrate (as N), E353.2
1506266-022C	TW4-11_06082015	6/8/2015	1535h	Aqueous	VOA by GC/MS Method 8260C/5030C
1506266-023A	TW4-19_06082015	6/8/2015	1350h	Aqueous	Anions, E300.0
1506266-023B	TW4-19_06082015	6/8/2015	1350h	Aqueous	Nitrite/Nitrate (as N), E353.2
1506266-023C	TW4-19_06082015	6/8/2015	1350h	Aqueous	VOA by GC/MS Method 8260C/5030C
1506266-024A	TW4-22_06082015	6/8/2015	1455h	Aqueous	Anions, E300.0
1506266-024B	TW4-22_06082015	6/8/2015	1455h	Aqueous	Nitrite/Nitrate (as N), E353.2
1506266-024C	TW4-22_06082015	6/8/2015	1455h	Aqueous	VOA by GC/MS Method 8260C/5030C
1506266-025A	TW4-20_06082015	6/8/2015	1516h	Aqueous	Anions, E300.0
1506266-025B	TW4-20_06082015	6/8/2015	1516h	Aqueous	Nitrite/Nitrate (as N), E353.2
1506266-025C	TW4-20_06082015	6/8/2015	1516h	Aqueous	VOA by GC/MS Method 8260C/5030C
1506266-026A	TW4-37_06082015	6/8/2015	1505h	Aqueous	Anions, E300.0
1506266-026B	TW4-37_06082015	6/8/2015	1505h	Aqueous	Nitrite/Nitrate (as N), E353.2
1506266-026C	TW4-37_06082015	6/8/2015	1505h	Aqueous	VOA by GC/MS Method 8260C/5030C
1506266-027A	TW4-25_06082015	6/8/2015	1428h	Aqueous	Anions, E300.0
1506266-027B	TW4-25_06082015	6/8/2015	1428h	Aqueous	Nitrite/Nitrate (as N), E353.2
1506266-027C	TW4-25_06082015	6/8/2015	1428h	Aqueous	VOA by GC/MS Method 8260C/5030C
1506266-028A	TW4-30_06102015	6/10/2015	1025h	Aqueous	Anions, E300.0
1506266-028B	TW4-30_06102015	6/10/2015	1025h	Aqueous	Nitrite/Nitrate (as N), E353.2
1506266-028C	TW4-30_06102015	6/10/2015	1025h	Aqueous	VOA by GC/MS Method 8260C/5030C
1506266-029A	TW4-14_06102015	6/10/2015	1035h	Aqueous	Anions, E300.0
1506266-029B	TW4-14_06102015	6/10/2015	1035h	Aqueous	Nitrite/Nitrate (as N), E353.2
1506266-029C	TW4-14_06102015	6/10/2015	1035h	Aqueous	VOA by GC/MS Method 8260C/5030C
1506266-030A	TW4-26_06102015	6/10/2015	1045h	Aqueous	Anions, E300.0
1506266-030B	TW4-26_06102015	6/10/2015	1045h	Aqueous	Nitrite/Nitrate (as N), E353.2

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Client: Energy Fuels Resources, Inc.
Project: 2nd Quarter Chloroform 2015
Lab Set ID: 1506266
Date Received: 6/12/2015 900h

Contact: Garrin Palmer

Lab Sample ID	Client Sample ID	Date Collected		Matrix	Analysis
1506266-030C	TW4-26_06102015	6/10/2015	1045h	Aqueous	VOA by GC/MS Method 8260C/5030C
1506266-031A	TW4-05_06102015	6/10/2015	1057h	Aqueous	Anions, E300.0
1506266-031B	TW4-05_06102015	6/10/2015	1057h	Aqueous	Nitrite/Nitrate (as N), E353.2
1506266-031C	TW4-05_06102015	6/10/2015	1057h	Aqueous	VOA by GC/MS Method 8260C/5030C
1506266-032A	TW4-18_06112015	6/11/2015	840h	Aqueous	Anions, E300.0
1506266-032B	TW4-18_06112015	6/11/2015	840h	Aqueous	Nitrite/Nitrate (as N), E353.2
1506266-032C	TW4-18_06112015	6/11/2015	840h	Aqueous	VOA by GC/MS Method 8260C/5030C
1506266-033A	TW4-24_06082015	6/8/2015	1441h	Aqueous	Anions, E300.0
1506266-033B	TW4-24_06082015	6/8/2015	1441h	Aqueous	Nitrite/Nitrate (as N), E353.2
1506266-033C	TW4-24_06082015	6/8/2015	1441h	Aqueous	VOA by GC/MS Method 8260C/5030C
1506266-034A	TW4-09_06112015	6/11/2015	935h	Aqueous	Anions, E300.0
1506266-034B	TW4-09_06112015	6/11/2015	935h	Aqueous	Nitrite/Nitrate (as N), E353.2
1506266-034C	TW4-09_06112015	6/11/2015	935h	Aqueous	VOA by GC/MS Method 8260C/5030C
1506266-035A	TW4-33_06112015	6/11/2015	945h	Aqueous	Anions, E300.0
1506266-035B	TW4-33_06112015	6/11/2015	945h	Aqueous	Nitrite/Nitrate (as N), E353.2
1506266-035C	TW4-33_06112015	6/11/2015	945h	Aqueous	VOA by GC/MS Method 8260C/5030C
1506266-036A	TW4-16_06112015	6/11/2015	955h	Aqueous	Anions, E300.0
1506266-036B	TW4-16_06112015	6/11/2015	955h	Aqueous	Nitrite/Nitrate (as N), E353.2
1506266-036C	TW4-16_06112015	6/11/2015	955h	Aqueous	VOA by GC/MS Method 8260C/5030C
1506266-037A	TW4-21_06082015	6/8/2015	1418h	Aqueous	Anions, E300.0
1506266-037B	TW4-21_06082015	6/8/2015	1418h	Aqueous	Nitrite/Nitrate (as N), E353.2
1506266-037C	TW4-21_06082015	6/8/2015	1418h	Aqueous	VOA by GC/MS Method 8260C/5030C
1506266-038A	TW4-29_06112015	6/11/2015	1004h	Aqueous	Anions, E300.0
1506266-038B	TW4-29_06112015	6/11/2015	1004h	Aqueous	Nitrite/Nitrate (as N), E353.2
1506266-038C	TW4-29_06112015	6/11/2015	1004h	Aqueous	VOA by GC/MS Method 8260C/5030C
1506266-039A	TW4-07_06112015	6/11/2015	1012h	Aqueous	Anions, E300.0
1506266-039B	TW4-07_06112015	6/11/2015	1012h	Aqueous	Nitrite/Nitrate (as N), E353.2
1506266-039C	TW4-07_06112015	6/11/2015	1012h	Aqueous	VOA by GC/MS Method 8260C/5030C
1506266-040A	TW4-60_06112015	6/11/2015	830h	Aqueous	Anions, E300.0
1506266-040B	TW4-60_06112015	6/11/2015	830h	Aqueous	Nitrite/Nitrate (as N), E353.2

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American West
ANALYTICAL LABORATORIES

Client: Energy Fuels Resources, Inc.
Project: 2nd Quarter Chloroform 2015
Lab Set ID: 1506266
Date Received: 6/12/2015 900h

Contact: Garrin Palmer

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID	Client Sample ID	Date Collected		Matrix	Analysis
1506266-040C	TW4-60_06112015	6/11/2015	830h	Aqueous	VOA by GC/MS Method 8260C/5030C
1506266-041A	TW4-65_06102015	6/10/2015	845h	Aqueous	Anions, E300.0
1506266-041B	TW4-65_06102015	6/10/2015	845h	Aqueous	Nitrite/Nitrate (as N), E353.2
1506266-041C	TW4-65_06102015	6/10/2015	845h	Aqueous	VOA by GC/MS Method 8260C/5030C
1506266-042A	TW4-70_06112015	6/11/2015	840h	Aqueous	Anions, E300.0
1506266-042B	TW4-70_06112015	6/11/2015	840h	Aqueous	Nitrite/Nitrate (as N), E353.2
1506266-042C	TW4-70_06112015	6/11/2015	840h	Aqueous	VOA by GC/MS Method 8260C/5030C
1506266-043A	TW4-18R_06102015	6/10/2015	1245h	Aqueous	Anions, E300.0
1506266-043B	TW4-18R_06102015	6/10/2015	1245h	Aqueous	Nitrite/Nitrate (as N), E353.2
1506266-043C	TW4-18R_06102015	6/10/2015	1245h	Aqueous	VOA by GC/MS Method 8260C/5030C
1506266-044A	Trip Blank	6/8/2015		Aqueous	VOA by GC/MS Method 8260C/5030C

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Inorganic Case Narrative

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Client: Energy Fuels Resources, Inc.
Contact: Garrin Palmer
Project: 2nd Quarter Chloroform 2015
Lab Set ID: 1506266

Sample Receipt Information:

Date of Receipt: 6/12/2015
Date(s) of Collection: 6/8-6/11/2015
Sample Condition: Intact
C-O-C Discrepancies: See Chain of Custody

Holding Time and Preservation Requirements: The analysis and preparation for the samples were performed within the method holding times. The samples were properly preserved.

Preparation and Analysis Requirements: The samples were analyzed following the methods stated on the analytical reports.

Analytical QC Requirements: All instrument calibration and calibration check requirements were met. All internal standard recoveries met method criterion.

Batch QC Requirements: MB, LCS, MS, MSD, RPD:

Method Blanks (MB): No target analytes were detected above reporting limits, indicating that the procedure was free from contamination.

Laboratory Control Samples (LCS): All LCS recoveries were within control limits, indicating that the preparation and analysis were in control.

Matrix Spike / Matrix Spike Duplicates (MS/MSD): All percent recoveries and RPDs (Relative Percent Differences) were inside established limits, with the following exceptions:

Sample ID	Analyte	QC	Explanation
1506265-002D	Nitrate-Nitrite (as N)	MS/RPD	Sample matrix interference or sample non-homogeneity
1506266-011B	Nitrate-Nitrite (as N)	MS/MSD	Sample matrix interference
1506266-021B	Nitrate-Nitrite (as N)	MS/MSD	Sample matrix interference
1506266-031B	Nitrate-Nitrite (as N)	MS/MSD	Sample matrix interference

Corrective Action: None required.

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Volatile Case Narrative

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Client:	Energy Fuels Resources, Inc.
Contact:	Garrin Palmer
Project:	2nd Quarter Chloroform 2015
Lab Set ID:	1506266

Sample Receipt Information:

Date of Receipt:	6/12/2015
Date(s) of Collection:	6/8-6/11/2015
Sample Condition:	Intact
C-O-C Discrepancies:	See Chain of Custody
Method:	SW-846 8260C/5030C
Analysis:	Volatile Organic Compounds

General Set Comments: Multiple target analytes were observed above reporting limits.

Holding Time and Preservation Requirements: All samples were received in appropriate containers and properly preserved. The analysis and preparation of all samples were performed within the method holding times following the methods stated on the analytical reports.

Analytical QC Requirements: All instrument calibration and calibration check requirements were met. All internal standard recoveries met method criterion.

Batch QC Requirements: MB, LCS, MS, MSD, RPD, and Surrogates:

Method Blanks (MBs): No target analytes were detected above reporting limits, indicating that the procedure was free from contamination.

Laboratory Control Sample (LCS): All LCS recoveries were within control limits, indicating that the preparation and analysis were in control.

Matrix Spike / Matrix Spike Duplicates (MS/MSD): All percent recoveries and RPDs (Relative Percent Differences) were inside established limits, indicating no apparent matrix interferences.

Surrogates: All surrogate recoveries were within established limits.

Corrective Action: None required.

All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. Confidential Business Information: This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only on contact. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1506266
Project: 2nd Quarter Chloroform 2015

Contact: Garrin Palmer
Dept: WC
QC Type: LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: LCS-R79810 Date Analyzed: 06/16/2015 1619h													
Test Code: 300.0-W													
Chloride	4.64	mg/L	E300.0	0.00751	0.100	5.000	0	92.7	90 - 110				
Lab Sample ID: LCS-R79843 Date Analyzed: 06/17/2015 1616h													
Test Code: 300.0-W													
Chloride	5.08	mg/L	E300.0	0.00751	0.100	5.000	0	102	90 - 110				
Lab Sample ID: LCS-R79920 Date Analyzed: 06/18/2015 1247h													
Test Code: 300.0-W													
Chloride	5.07	mg/L	E300.0	0.00751	0.100	5.000	0	101	90 - 110				
Lab Sample ID: LCS-R79726 Date Analyzed: 06/15/2015 1152h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.07	mg/L	E353.2	0.00833	0.100	1.000	0	107	90 - 110				
Lab Sample ID: LCS-R79729 Date Analyzed: 06/15/2015 1245h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	0.982	mg/L	E353.2	0.00833	0.0100	1.000	0	98.2	90 - 110				
Lab Sample ID: LCS-R79739 Date Analyzed: 06/15/2015 1422h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	0.996	mg/L	E353.2	0.00833	0.0100	1.000	0	99.6	90 - 110				

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Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1506266
Project: 2nd Quarter Chloroform 2015

Contact: Garrin Palmer
Dept: WC
QC Type: MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: MB-R79810 Date Analyzed: 06/16/2015 1602h Test Code: 300.0-W													
Chloride	< 0.100	mg/L	E300.0	0.00751	0.100								
Lab Sample ID: MB-R79843 Date Analyzed: 06/17/2015 1559h Test Code: 300.0-W													
Chloride	< 0.100	mg/L	E300.0	0.00751	0.100								
Lab Sample ID: MB-R79920 Date Analyzed: 06/18/2015 1230h Test Code: 300.0-W													
Chloride	< 0.100	mg/L	E300.0	0.00751	0.100								
Lab Sample ID: MB-R79726 Date Analyzed: 06/15/2015 1151h Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	< 0.100	mg/L	E353.2	0.00833	0.100								
Lab Sample ID: MB-R79729 Date Analyzed: 06/15/2015 1244h Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	< 0.0100	mg/L	E353.2	0.00833	0.0100								
Lab Sample ID: MB-R79739 Date Analyzed: 06/15/2015 1351h Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	< 0.0100	mg/L	E353.2	0.00833	0.0100								

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Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1506266
Project: 2nd Quarter Chloroform 2015

Contact: Garrin Palmer
Dept: WC
QC Type: MS

Analyte		Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID:	**1506266-001AMS**	Date Analyzed:	06/16/2015 2048h											
Test Code:	300.0-W													
Chloride		5.05	mg/L	E300.0	0.00751	0.100	5.000	0	101	90 - 110				
Lab Sample ID:	**1506266-010AMS**	Date Analyzed:	06/17/2015 010h											
Test Code:	300.0-W													
Chloride		67.8	mg/L	E300.0	0.0751	1.00	50.00	17.4	101	90 - 110				
Lab Sample ID:	**1506266-023AMS**	Date Analyzed:	06/17/2015 1831h											
Test Code:	300.0-W													
Chloride		694	mg/L	E300.0	0.751	10.0	500.0	180	103	90 - 110				
Lab Sample ID:	**1506266-021AMS**	Date Analyzed:	06/17/2015 2153h											
Test Code:	300.0-W													
Chloride		112	mg/L	E300.0	0.0751	1.00	50.00	62	99.1	90 - 110				
Lab Sample ID:	**1506266-033AMS**	Date Analyzed:	06/18/2015 1321h											
Test Code:	300.0-W													
Chloride		1,760	mg/L	E300.0	0.751	10.0	500.0	1290	94.4	90 - 110				
Lab Sample ID:	**1506266-035AMS**	Date Analyzed:	06/18/2015 1621h											
Test Code:	300.0-W													
Chloride		97.4	mg/L	E300.0	0.0751	1.00	50.00	46.6	102	90 - 110				
Lab Sample ID:	**1506266-001BMS**	Date Analyzed:	06/15/2015 1155h											
Test Code:	NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)		0.996	mg/L	E353.2	0.00833	0.100	1.000	0	99.6	90 - 110				
Lab Sample ID:	**1506266-011BMS**	Date Analyzed:	06/15/2015 1223h											
Test Code:	NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)		1.29	mg/L	E353.2	0.00833	0.100	1.000	0.452	84.2	90 - 110				

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1506266
Project: 2nd Quarter Chloroform 2015

Contact: Garrin Palmer
Dept: WC
QC Type: MS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 1506266-021BMS Date Analyzed: 06/15/2015 1258h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.21	mg/L	E353.2	0.00833	0.0100	1.000	0.419	79.4	90 - 110				'
Lab Sample ID: 1506266-031BMS Date Analyzed: 06/15/2015 1326h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	14.1	mg/L	E353.2	0.0833	0.100	10.00	7.08	70.4	90 - 110				'
Lab Sample ID: 1506265-002DMS Date Analyzed: 06/15/2015 1359h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	2.70	mg/L	E353.2	0.0167	0.0200	2.000	1.47	61.3	90 - 110				'

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

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Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1506266
Project: 2nd Quarter Chloroform 2015

Contact: Garrin Palmer
Dept: WC
QC Type: MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 1506266-001AMSD Date Analyzed: 06/16/2015 2105h Test Code: 300.0-W													
Chloride	5.04	mg/L	E300.0	0.00751	0.100	5.000	0	101	90 - 110	5.05	0.182	20	
Lab Sample ID: 1506266-010AMSD Date Analyzed: 06/17/2015 027h Test Code: 300.0-W													
Chloride	68.0	mg/L	E300.0	0.0751	1.00	50.00	17.4	101	90 - 110	67.8	0.286	20	
Lab Sample ID: 1506266-023AMSD Date Analyzed: 06/17/2015 1847h Test Code: 300.0-W													
Chloride	692	mg/L	E300.0	0.751	10.0	500.0	180	102	90 - 110	694	0.268	20	
Lab Sample ID: 1506266-021AMSD Date Analyzed: 06/17/2015 2210h Test Code: 300.0-W													
Chloride	111	mg/L	E300.0	0.0751	1.00	50.00	62	98.5	90 - 110	112	0.283	20	
Lab Sample ID: 1506266-033AMSD Date Analyzed: 06/18/2015 1349h Test Code: 300.0-W													
Chloride	1,760	mg/L	E300.0	0.751	10.0	500.0	1290	94.4	90 - 110	1760	0.00995	20	
Lab Sample ID: 1506266-035AMSD Date Analyzed: 06/18/2015 1638h Test Code: 300.0-W													
Chloride	96.9	mg/L	E300.0	0.0751	1.00	50.00	46.6	101	90 - 110	97.4	0.501	20	
Lab Sample ID: 1506266-001BMSD Date Analyzed: 06/15/2015 1156h Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.03	mg/L	E353.2	0.00833	0.100	1.000	0	103	90 - 110	0.996	3.33	10	
Lab Sample ID: 1506266-011BMSD Date Analyzed: 06/15/2015 1224h Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.35	mg/L	E353.2	0.00833	0.100	1.000	0.452	89.9	90 - 110	1.29	4.31	10	

All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. Confidential Business Information: This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only on contact. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1506266
Project: 2nd Quarter Chloroform 2015

Contact: Garrin Palmer
Dept: WC
QC Type: MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 1506266-021BMSD Date Analyzed: 06/15/2015 1300h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.24	mg/L	E353.2	0.00833	0.0100	1.000	0.419	82.2	90 - 110	1.21	2.28	10	'
Lab Sample ID: 1506266-031BMSD Date Analyzed: 06/15/2015 1326h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	14.1	mg/L	E353.2	0.0833	0.100	10.00	7.08	70.2	90 - 110	14.1	0.142	10	'
Lab Sample ID: 1506265-002DMSD Date Analyzed: 06/15/2015 1411h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	3.43	mg/L	E353.2	0.0167	0.0200	2.000	1.47	97.8	90 - 110	2.7	23.8	10	@

@ - High RPD due to suspected sample non-homogeneity or matrix interference.
' - Matrix spike recovery indicates matrix interference. The method is in control as indicated by the LCS.

All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. Confidential Business Information: This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only on contact. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.

American West Analytical Laboratories

UL
Denison

WORK ORDER Summary

Work Order: **1506266**

Client: Energy Fuels Resources, Inc.

Due Date: 6/23/2015

Client ID: DEN100

Contact: Garrin Palmer

Project: **2nd Quarter Chloroform 2015**

QC Level: III

WO Type: Project

Comments: PA Rush. QC 3 (Summary/No chromatograms). RL of 1 ppm for Chloride and VOC and 0.1 ppm for NO2/NO3. Expected levels provided by client - see Jenn. J-flag what we can't meet. EIM Locus and EDD-Denison. Email Group.;

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1506266-001A	**TW4-03R_06092015**	6/9/2015 0727h	6/12/2015 0900h	**300.0-W** *1 SEL Analytes: CL*	Aqueous		df - wc	1
1506266-001B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*			df - no2/no3	
1506266-001C				**8260-W-DEN100** *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4*			VOCFridge	3
1506266-002A	**TW4-03_06102015**	6/10/2015 0845h	6/12/2015 0900h	**300.0-W** *1 SEL Analytes: CL*	Aqueous		df - wc	1
1506266-002B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*			df - no2/no3	
1506266-002C				**8260-W-DEN100** *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4*			VOCFridge	3
1506266-003A	**TW4-12_06102015**	6/10/2015 0900h	6/12/2015 0900h	**300.0-W** *1 SEL Analytes: CL*	Aqueous		df - wc	1
1506266-003B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*			df - no2/no3	
1506266-003C				**8260-W-DEN100** *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4*			VOCFridge	3
1506266-004A	**TW4-28_06102015**	6/10/2015 0906h	6/12/2015 0900h	**300.0-W** *1 SEL Analytes: CL*	Aqueous		df - wc	1
1506266-004B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*			df - no2/no3	
1506266-004C				**8260-W-DEN100** *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4*			VOCFridge	3
1506266-005A	**TW4-32_06102015**	6/10/2015 0915h	6/12/2015 0900h	**300.0-W** *1 SEL Analytes: CL*	Aqueous		df - wc	1
1506266-005B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*			df - no2/no3	
1506266-005C				**8260-W-DEN100** *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4*			VOCFridge	3
1506266-006A	**TW4-13_06102015**	6/10/2015 0927h	6/12/2015 0900h		Aqueous		no sample	1

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WORK ORDER Summary

Work Order: **1506266**

Client: Energy Fuels Resources, Inc.

Due Date: 6/23/2015

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage
1506266-006B	**TW4-13_06102015**	6/10/2015 0927h	6/12/2015 0900h	**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*	Aqueous		df - no2/no3 1
1506266-006C				**8260-W-DEN100** *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4*			VOCFridge 3
1506266-007A	**TW4-36_06102015**	6/10/2015 0933h	6/12/2015 0900h	**300.0-W** *1 SEL Analytes: CL*	Aqueous		df - wc 1
1506266-007B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*			df - no2/no3
1506266-007C				**8260-W-DEN100** *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4*			VOCFridge 3
1506266-008A	**TW4-27_06102015**	6/10/2015 0941h	6/12/2015 0900h	**300.0-W** *1 SEL Analytes: CL*	Aqueous		df - wc 1
1506266-008B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*			df - no2/no3
1506266-008C				**8260-W-DEN100** *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4*			VOCFridge 3
1506266-009A	**TW4-31_06102015**	6/10/2015 0950h	6/12/2015 0900h	**300.0-W** *1 SEL Analytes: CL*	Aqueous		df - wc 1
1506266-009B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*			df - no2/no3
1506266-009C				**8260-W-DEN100** *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4*			VOCFridge 3
1506266-010A	**TW4-34_06102015**	6/10/2015 0957h	6/12/2015 0900h	**300.0-W** *1 SEL Analytes: CL*	Aqueous		df - wc 1
1506266-010B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*			df - no2/no3
1506266-010C				**8260-W-DEN100** *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4*			VOCFridge 3
1506266-011A	**TW4-35_06102015**	6/10/2015 1005h	6/12/2015 0900h	**300.0-W** *1 SEL Analytes: CL*	Aqueous		df - wc 1
1506266-011B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*			df - no2/no3
1506266-011C				**8260-W-DEN100** *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4*			VOCFridge 3
1506266-012A	**TW4-23_06102015**	6/10/2015 1014h	6/12/2015 0900h	**300.0-W** *1 SEL Analytes: CL*	Aqueous		df - wc 1
1506266-012B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*			df - no2/no3

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WORK ORDER Summary

Work Order: **1506266**

Client: Energy Fuels Resources, Inc.

Due Date: 6/23/2015

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1506266-012C	**TW4-23_06102015**	6/10/2015 1014h	6/12/2015 0900h	**8260-W-DEN100**	Aqueous		VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1506266-013A	**MW-32_06112015**	6/11/2015 1350h	6/12/2015 0900h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1506266-013B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1506266-013C				**8260-W-DEN100**			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1506266-014A	**TW4-08_06112015**	6/11/2015 1245h	6/12/2015 0900h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1506266-014B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1506266-014C				**8260-W-DEN100**			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1506266-015A	**TW4-01_06082015**	6/8/2015 1606h	6/12/2015 0900h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1506266-015B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1506266-015C				**8260-W-DEN100**			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1506266-016A	**TW4-06_06112015**	6/11/2015 1252h	6/12/2015 0900h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1506266-016B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1506266-016C				**8260-W-DEN100**			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1506266-017A	**TW4-10_06112015**	6/11/2015 1301h	6/12/2015 0900h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1506266-017B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1506266-017C				**8260-W-DEN100**			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1506266-018A	**TW4-04_06082015**	6/8/2015 1616h	6/12/2015 0900h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1506266-018B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1506266-018C				**8260-W-DEN100**			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				

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WORK ORDER Summary

Work Order: **1506266**

Client: Energy Fuels Resources, Inc.

Due Date: 6/23/2015

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1506266-019A	**MW-04_06082015**	6/8/2015 1600h	6/12/2015 0900h	**300.0-W** *1 SEL Analytes: CL*	Aqueous		df - wc	1
1506266-019B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*			df - no2/no3	
1506266-019C				**8260-W-DEN100** *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4*			VOCFridge	3
1506266-020A	**TW4-02_06082015**	6/8/2015 1550h	6/12/2015 0900h	**300.0-W** *1 SEL Analytes: CL*	Aqueous		df - wc	1
1506266-020B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*			df - no2/no3	
1506266-020C				**8260-W-DEN100** *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4*			VOCFridge	3
1506266-021A	**MW-26_06082015**	6/8/2015 1525h	6/12/2015 0900h	**300.0-W** *1 SEL Analytes: CL*	Aqueous		df - wc	1
1506266-021B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*			df - no2/no3	
1506266-021C				**8260-W-DEN100** *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4*			VOCFridge	3
1506266-022A	**TW4-11_06082015**	6/8/2015 1535h	6/12/2015 0900h	**300.0-W** *1 SEL Analytes: CL*	Aqueous		df - wc	1
1506266-022B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*			df - no2/no3	
1506266-022C				**8260-W-DEN100** *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4*			VOCFridge	3
1506266-023A	**TW4-19_06082015**	6/8/2015 1350h	6/12/2015 0900h	**300.0-W** *1 SEL Analytes: CL*	Aqueous		df - wc	1
1506266-023B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*			df - no2/no3	
1506266-023C				**8260-W-DEN100** *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4*			VOCFridge	3
1506266-024A	**TW4-22_06082015**	6/8/2015 1455h	6/12/2015 0900h	**300.0-W** *1 SEL Analytes: CL*	Aqueous		df - wc	1
1506266-024B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*			df - no2/no3	
1506266-024C				**8260-W-DEN100** *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4*			VOCFridge	3
1506266-025A	**TW4-20_06082015**	6/8/2015 1516h	6/12/2015 0900h	**300.0-W** *1 SEL Analytes: CL*	Aqueous		df - wc	1

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WORK ORDER Summary

Work Order: **1506266**

Client: Energy Fuels Resources, Inc. Due Date: 6/23/2015

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1506266-025B	**TW4-20_06082015**	6/8/2015 1516h	6/12/2015 0900h	**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*	Aqueous		df - no2/no3	1
1506266-025C				**8260-W-DEN100** *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4*			VOCFridge	3
1506266-026A	**TW4-37_06082015**	6/8/2015 1505h	6/12/2015 0900h	**300.0-W** *1 SEL Analytes: CL*	Aqueous		df - wc	1
1506266-026B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*			df - no2/no3	
1506266-026C				**8260-W-DEN100** *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4*			VOCFridge	3
1506266-027A	**TW4-25_06082015**	6/8/2015 1428h	6/12/2015 0900h	**300.0-W** *1 SEL Analytes: CL*	Aqueous		df - wc	1
1506266-027B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*			df - no2/no3	
1506266-027C				**8260-W-DEN100** *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4*			VOCFridge	3
1506266-028A	**TW4-30_06102015**	6/10/2015 1025h	6/12/2015 0900h	**300.0-W** *1 SEL Analytes: CL*	Aqueous		df - wc	1
1506266-028B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*			df - no2/no3	
1506266-028C				**8260-W-DEN100** *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4*			VOCFridge	3
1506266-029A	**TW4-14_06102015**	6/10/2015 1035h	6/12/2015 0900h	**300.0-W** *1 SEL Analytes: CL*	Aqueous		df - wc	1
1506266-029B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*			df - no2/no3	
1506266-029C				**8260-W-DEN100** *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4*			VOCFridge	3
1506266-030A	**TW4-26_06102015**	6/10/2015 1045h	6/12/2015 0900h	**300.0-W** *1 SEL Analytes: CL*	Aqueous		df - wc	1
1506266-030B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*			df - no2/no3	
1506266-030C				**8260-W-DEN100** *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4*			VOCFridge	3
1506266-031A	**TW4-05_06102015**	6/10/2015 1057h	6/12/2015 0900h	**300.0-W** *1 SEL Analytes: CL*	Aqueous		df - wc	1
1506266-031B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*			df - no2/no3	

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WORK ORDER Summary

Work Order: **1506266**

Client: Energy Fuels Resources, Inc.

Due Date: 6/23/2015

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1506266-031C	**TW4-05_06102015**	6/10/2015 1057h	6/12/2015 0900h	**8260-W-DEN100**	Aqueous		VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1506266-032A	**TW4-18_06112015**	6/11/2015 0840h	6/12/2015 0900h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1506266-032B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1506266-032C				**8260-W-DEN100**			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1506266-033A	**TW4-24_06082015**	6/8/2015 1441h	6/12/2015 0900h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1506266-033B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1506266-033C				**8260-W-DEN100**			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1506266-034A	**TW4-09_06112015**	6/11/2015 0935h	6/12/2015 0900h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1506266-034B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1506266-034C				**8260-W-DEN100**			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1506266-035A	**TW4-33_06112015**	6/11/2015 0945h	6/12/2015 0900h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1506266-035B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1506266-035C				**8260-W-DEN100**			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1506266-036A	**TW4-16_06112015**	6/11/2015 0955h	6/12/2015 0900h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1506266-036B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1506266-036C				**8260-W-DEN100**			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				
1506266-037A	**TW4-21_06082015**	6/8/2015 1418h	6/12/2015 0900h	**300.0-W**	Aqueous		df - wc	1
				1 SEL Analytes: CL				
1506266-037B				**NO2/NO3-W-353.2**			df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1506266-037C				**8260-W-DEN100**			VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4				

FOR LABORATORY USE ONLY [fill out on page 1]: %M ☐ RT ☐ CN ☐ TAT ☐ QC ☐ HOK_____ HOK JR HOK_____ COC Emailed_____

WORK ORDER Summary

Work Order: **1506266**

Client: Energy Fuels Resources, Inc.

Due Date: 6/23/2015

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1506266-038A	**TW4-29_06112015**	6/11/2015 1004h	6/12/2015 0900h	**300.0-W** *1 SEL Analytes: CL*	Aqueous		df - wc	1
1506266-038B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*			df - no2/no3	
1506266-038C				**8260-W-DEN100** *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4*			VOCFridge	3
1506266-039A	**TW4-07_06112015**	6/11/2015 1012h	6/12/2015 0900h	**300.0-W** *1 SEL Analytes: CL*	Aqueous		df - wc	1
1506266-039B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*			df - no2/no3	
1506266-039C				**8260-W-DEN100** *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4*			VOCFridge	3
1506266-040A	**TW4-60_06112015**	6/11/2015 0830h	6/12/2015 0900h	**300.0-W** *1 SEL Analytes: CL*	Aqueous		df - wc	1
1506266-040B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*			df - no2/no3	
1506266-040C				**8260-W-DEN100** *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4*			VOCFridge	3
1506266-041A	**TW4-65_06102015**	6/10/2015 0845h	6/12/2015 0900h	**300.0-W** *1 SEL Analytes: CL*	Aqueous		df - wc	1
1506266-041B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*			df - no2/no3	
1506266-041C				**8260-W-DEN100** *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4*			VOCFridge	3
1506266-042A	**TW4-70_06112015**	6/11/2015 0840h	6/12/2015 0900h	**300.0-W** *1 SEL Analytes: CL*	Aqueous		df - wc	1
1506266-042B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*			df - no2/no3	
1506266-042C				**8260-W-DEN100** *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4*			VOCFridge	3
1506266-043A	**TW4-18R_06102015**	6/10/2015 1245h	6/12/2015 0900h	**300.0-W** *1 SEL Analytes: CL*	Aqueous		df - wc	1
1506266-043B				**NO2/NO3-W-353.2** *1 SEL Analytes: NO3NO2N*			df - no2/no3	
1506266-043C				**8260-W-DEN100** *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4*			VOCFridge	3
1506266-044A	**Trip Blank**	6/8/2015	6/12/2015 0900h	**8260-W-DEN100** *Test Group: 8260-W-DEN100; # of Analytes: 4 / # of Surr: 4*	Aqueous		VOCFridge	3

Printed: 6/15/2015 FOR LABORATORY USE ONLY [fill out on page 1]: %M ☐ RT ☐ CN ☐ TAT ☐ QC ☐ HOK_____ HOK_____ HOK_____ COC Emailed_____

WORK ORDER Summary

Work Order: **1506266**

Client: Energy Fuels Resources, Inc.

Due Date: 6/23/2015

AMERICAN WEST ANALYTICAL LABORATORIES

463 W. 3600 S. SALT LAKE CITY, UT 84115
PHONE # (801) 263-8686 TOLL FREE # (888) 263-8686
FAX # (801) 263-8687 EMAIL: AWAL@AWAL-LABS.COM
WWW.AWAL-LABS.COM

CHAIN OF CUSTODY

ALL ANALYSIS WILL BE CONDUCTED USING NELAP ACCREDITED METHODS AND ALL DATA WILL BE REPORTED USING AWAL'S STANDARD ANALYTE LISTS AND REPORTING LIMITS (PQL) UNLESS SPECIFICALLY REQUESTED OTHERWISE ON THIS CHAIN OF CUSTODY AND/OR ATTACHED DOCUMENTATION.

1506266
AWAL LAB SAMPLE SET #
PAGE 1 OF 4

QC LEVEL:	TURN AROUND TIME:	UNLESS OTHER ARRANGEMENTS HAVE BEEN MADE, SIGNED REPORTS WILL BE EMAILED BY 5:00 PM ON THE DAY THEY ARE DUE.	DUE DATE:
3	STANDARD		

CLIENT: Energy Fuels Resources, Inc.
ADDRESS: 6425 S. Hwy. 191
Blanding, UT 84511
CONTACT: Garrin Palmer
PHONE #: (435) 678-2221 CELL #:
EMAIL: gpalmer@energyfuels.com; KWeinel@energyfuels.com; dturk@energyfuels.com
PROJECT NAME: 2nd quarter chloroform 2015
PROJECT #:
PO #:
SAMPLER NAME: Tanner Holliday

X INCLUDE EDD:
LOCUS UPLOAD
EXCEL
FIELD FILTERED FOR:

FOR COMPLIANCE WITH:
☐ NELAP
☐ RCRA
☐ CWA
☐ SDWA
☐ ELAP / A2LA
☐ NLLAP
☐ NON-COMPLIANCE
☐ OTHER:

	SAMPLE ID:	DATE SAMPLED	TIME SAMPLED	# OF CONTAINERS	SAMPLE MATRIX	NO2/NO3 (353.2)	Cl (4500 or 300.0)	VOCs (8260C)	KNOWN HAZARDS & SAMPLE COMMENTS
1	TW4-03R_06092015	6/9/2015	727	5	W	X	X	X	
2	TW4-03_06102015	6/10/2015	845	5	W	X	X	X	
3	TW4-12_06102015	6/10/2015	900	5	W	X	X	X	
4	TW4-28_06102015	6/10/2015	906	5	W	X	X	X	
5	TW4-32_06102015	6/10/2015	915	5	W	X	X	X	
6	TW4-13_06102015	6/10/2015	927	5	W	X	X	X	missing Cl sample
7	TW4-36_06102015	6/10/2015	933	5	W	X	X	X	
8	TW4-27_06102015	6/10/2015	941	5	W	X	X	X	
9	TW4-31_06102015	6/10/2015	950	5	W	X	X	X	
10	TW4-34_06102015	6/10/2015	957	5	W	X	X	X	
	TW4-35_06102015	6/10/2015	1005	5	W	X	X	X	
11	TW4-23_06102015	6/10/2015	1014	5	W	X	X	X	
12	MW-32_06112015	6/11/2015	1350	5	W	X	X	X	

LABORATORY USE ONLY

SAMPLES WERE:
1 SHIPPED OR HAND DELIVERED
2 AMBIENT OR CHILLED
3 TEMPERATURE 1.8 °C
4 RECEIVED BROKEN/LEAKING (IMPROPERLY SEALED) Y N
5 PROPERLY PRESERVED Y N
CHECKED AT BENCH Y N
6 RECEIVED WITHIN HOLDING TIMES Y N

COC TAPE WAS:
1 PRESENT ON OUTER PACKAGE Y N NA
2 UNBROKEN ON OUTER PACKAGE Y N NA
3 PRESENT ON SAMPLE Y N NA
4 UNBROKEN ON SAMPLE Y N NA
6/12/15

DISCREPANCIES BETWEEN SAMPLE LABELS AND COC RECORD? Y N

RELINQUISHED BY:	DATE:	RECEIVED BY:	DATE:
SIGNATURE: Jennifer Holliday	6/12/2015	SIGNATURE: Elma Hayward	6/12/15
PRINT NAME: Tanner Holliday	TIME: 0900	PRINT NAME: Elma Hayward	TIME: 0900
RELINQUISHED BY: SIGNATURE	DATE:	RECEIVED BY: SIGNATURE	DATE:
PRINT NAME:	TIME:	PRINT NAME:	TIME:
RELINQUISHED BY: SIGNATURE	DATE:	RECEIVED BY: SIGNATURE	DATE:
PRINT NAME:	TIME:	PRINT NAME:	TIME:
RELINQUISHED BY: SIGNATURE	DATE:	RECEIVED BY: SIGNATURE	DATE:
PRINT NAME:	TIME:	PRINT NAME:	TIME:

SPECIAL INSTRUCTIONS:

See the Analytical Scope of Work for Reporting Limits and VOC analyte list.

AMERICAN WEST ANALYTICAL LABORATORIES

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1506266
AWAL LAB SAMPLE SET #
PAGE 2 OF 4

QC LEVEL:	TURN AROUND TIME:	UNLESS OTHER ARRANGEMENTS HAVE BEEN MADE, SIGNED REPORTS WILL BE EMAILED BY 5:00 PM ON THE DAY THEY ARE DUE.	DUE DATE:
3	STANDARD		

CLIENT: Energy Fuels Resources, Inc.
ADDRESS: 6425 S. Hwy. 191
Blanding, UT 84511
CONTACT: Garrin Palmer
PHONE #: (435) 678-2221 CELL #:
EMAIL: gpalmer@energyfuels.com; KWeincl@energyfuels.com; dturk@energyfuels.com
PROJECT NAME: 2nd quarter chloroform 2015
PROJECT #:
PO #:
SAMPLER NAME: Tanner Holliday

X INCLUDE EDD:
LOCUS UPLOAD
EXCEL
FIELD FILTERED FOR:

FOR COMPLIANCE WITH:
- ☐ NELAP
- ☐ RCRA
- ☐ CWA
- ☐ SDWA
- ☐ ELAP / A2LA
- ☐ NLLAP
- ☐ NON-COMPLIANCE
- ☐ OTHER:

	SAMPLE ID:	DATE SAMPLED	TIME SAMPLED	# OF CONTAINERS	SAMPLE MATRIX	NO2/NO3 (353.2)	Cl (4500 or 300.0)	VOCs (8260C)	KNOWN HAZARDS & SAMPLE COMMENTS
1	TW4-08_06112015	6/11/2015	1245	5	W	X	X	X	
2	TW4-01_06082015	6/8/2015	1606	5	W	X	X	X	
3	TW4-06_06112015	6/11/2015	1252	5	W	X	X	X	
4	TW4-10_06112015	6/11/2015	1301	5	W	X	X	X	
5	TW4-04_06082015	6/8/2015	1616	5	W	X	X	X	
6	MW-04_06082015	6/8/2015	1600	5	W	X	X	X	
7	TW4-02_06082015	6/8/2015	1550	5	W	X	X	X	
8	MW-26_06082015	6/8/2015	1525	5	W	X	X	X	
9	TW4-11_06082015	6/8/2015	1535	5	W	X	X	X	
10	TW4-19_06082015	6/8/2015	1350	5	W	X	X	X	
	TW4-22_06082015	6/8/2015	1455	5	W	X	X	X	
11	TW4-20_06082015	6/8/2015	1516	5	W	X	X	X	
12	TW4-37_06082015	6/8/2015	1505	5	W	X	X	X	

LABORATORY USE ONLY

SAMPLES WERE:
1. SHIPPED OR HAND DELIVERED
2. AMBIENT OR CHILLED
3. TEMPERATURE 18 °C
4. RECEIVED BROKEN/LEAKING (IMPROPERLY SEALED) Y N
5. PROPERLY PRESERVED Y N
   CHECKED AT BENCH Y N
6. RECEIVED WITHIN HOLDING TIMES Y N

COC TAPE WAS:
1. PRESENT ON OUTER PACKAGE Y N NA
2. UNBROKEN ON OUTER PACKAGE Y N NA
3. PRESENT ON SAMPLE Y N NA
4. UNBROKEN ON SAMPLE Y N NA

6/12/15 Sel

DISCREPANCIES BETWEEN SAMPLE LABELS AND COC RECORD? Y N

RELINQUISHED BY: SIGNATURE	DATE:	RECEIVED BY: SIGNATURE	DATE:
Tanner Holliday	6/12/2015	Elma Hy	6/12/15
PRINT NAME: Tanner Holliday	TIME: 0900	PRINT NAME: Elma Hylsund	TIME: 900
RELINQUISHED BY: SIGNATURE	DATE:	RECEIVED BY: SIGNATURE	DATE:
PRINT NAME:	TIME:	PRINT NAME:	TIME:
RELINQUISHED BY: SIGNATURE	DATE:	RECEIVED BY: SIGNATURE	DATE:
PRINT NAME:	TIME:	PRINT NAME:	TIME:
RELINQUISHED BY: SIGNATURE	DATE:	RECEIVED BY: SIGNATURE	DATE:
PRINT NAME:	TIME:	PRINT NAME:	TIME:

SPECIAL INSTRUCTIONS:

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American West Analytical Laboratories

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Chain of Custody

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1506266
AWAL Lab Sample Set #
Page 3 of 4

QC Level:	Turn Around Time:	Unless other arrangements have been made, signed reports will be emailed by 5:00 pm on the day they are due.	Due Date:
3	Standard		

Client: Energy Fuels Resources, Inc.
Address: 6425 S. Hwy. 191
Blanding, UT 84511
Contact: Garrin Palmer
Phone #: (435) 678-2221 Cell #:
Email: gpalmer@energyfuels.com; KWeinel@energyfuels.com; dturk@energyfuels.com
Project Name: 2nd quarter chloroform 2015
Project #:
PO #:
Sampler Name: Tanner Holliday

X Include EDD:
LOCUS UPLOAD
EXCEL
Field Filtered For:

For Compliance With:
☐ NELAP
☐ RCRA
☐ CWA
☐ SDWA
☐ ELAP / A2LA
☐ NLLAP
☐ Non-Compliance
☐ Other:

	Sample ID:	Date Sampled	Time Sampled	# of Containers	Sample Matrix	NO2/NO3 (353.2)	Cl (4500 or 300.0)	VOCs (8260C)	Known Hazards & Sample Comments
1	TW4-25_06082015	6/8/2015	1428	5	W	X	X	X	
2	TW4-30_06102015	6/10/2015	1025	5	W	X	X	X	
3	TW4-14_06102015	6/10/2015	1035	5	W	X	X	X	
4	TW4-26_06102015	6/10/2015	1045	5	W	X	X	X	
5	TW4-05_06102015	6/10/2015	1057	5	W	X	X	X	
6	TW4-18_06112015	6/11/2015	840	5	W	X	X	X	
7	TW4-24_06082015	6/8/2015	1441	5	W	X	X	X	
8	TW4-09_06112015	6/11/2015	935	5	W	X	X	X	
9	TW4-33_06112015	6/11/2015	945	5	W	X	X	X	
10	TW4-16_06112015	6/11/2015	955	5	W	X	X	X	
	TW4-21_06082015	6/8/2015	1418	5	W	X	X	X	
11	TW4-29_06112015	6/11/2015	1004	5	W	X	X	X	
12	TW4-07_06112015	6/11/2015	1012	5	W	X	X	X	

Laboratory Use Only

Samples Were:
1 Shipped or Hand Delivered
2 Ambient or Chilled
3 Temperature 1.8 °C
4 Received Broken/Leaking (Improperly Sealed) Y N
5 Properly Preserved Y N
Checked at Bench Y N
6 Received Within Holding Times Y N

COC Tape Was:
1 Present on Outer Package Y N NA
2 Unbroken on Outer Package Y N NA
3 Present on Sample Y N NA
4 Unbroken on Sample Y N NA
6/12/15

Discrepancies Between Sample Labels and COC Record? Y N

Relinquished by: Signature	Date	Received by: Signature	Date
Tanner Holliday	6/12/2015	Elizabeth Hy	6/12/15
Print Name: Tanner Holliday	Time: 0900	Print Name: Elizabeth Hy	Time: 900
Relinquished by: Signature	Date:	Received by: Signature	Date:
Print Name:	Time:	Print Name:	Time:
Relinquished by: Signature	Date:	Received by: Signature	Date:
Print Name:	Time:	Print Name:	Time:
Relinquished by: Signature	Date:	Received by: Signature	Date:
Print Name:	Time:	Print Name:	Time:

Special Instructions:

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CHAIN OF CUSTODY

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1506266
AWAL Lab Sample Set #
Page 4 of 4

QC Level:	Turn Around Time:	Unless other arrangements have been made, signed reports will be emailed by 5:00 pm on the day they are due.	Due Date:
3	Standard		

Client: Energy Fuels Resources, Inc.
Address: 6425 S. Hwy. 191
Blanding, UT 84511
Contact: Garrin Palmer
Phone #: (435) 678-2221 Cell #:
Email: gpalmer@energyfuels.com; KWeinel@energyfuels.com; dturk@energyfuels.com
Project Name: 2nd quarter chloroform 2015
Project #:
PO #:
Sampler Name: Tanner Holliday

X Include EDD:
LOCUS UPLOAD
EXCEL
Field Filtered For:

For Compliance With:
- ☐ NELAP
- ☐ RCRA
- ☐ CWA
- ☐ SDWA
- ☐ ELAP / A2LA
- ☐ NLLAP
- ☐ Non-Compliance
- ☐ Other:

	Sample ID:	Date Sampled	Time Sampled	# of Containers	Sample Matrix	NO2/NO3 (353.2)	Cl (4500 or 300.0)	VOCs (8260C)	Known Hazards & Sample Comments
1	TW4-60_06112015	6/11/2015	830	5	W	X	X	X	
2	TW4-65_06102015	6/10/2015	845	5	W	X	X	X	
3	TW4-70_06112015	6/11/2015	840	5	W	X	X	X	
4	TW4-18R_06102015	6/10/2015	1245	5	W	X	X	X	
5	TRIP BLANK	6/8/2015		3	W			X	
6									
7									
8									
9									
10									
11									
12									

Laboratory Use Only

Samples Were:
1. Shipped or Hand Delivered
2. Ambient or Chilled
3. Temperature 1.8 °C
4. Received Broken/Leaking (Improperly Sealed) Y N
5. Properly Preserved Y N
   Checked at Bench Y N
6. Received Within Holding Times Y N

COC Tape Was:
1. Present on Outer Package Y N NA
2. Unbroken on Outer Package Y N NA
3. Present on Sample Y N NA
4. Unbroken on Sample Y N NA

6/12/15

Discrepancies Between Sample Labels and COC Record? Y N

Relinquished by: Signature	Date:	Received by: Signature	Date:
Tanner Holliday	6/12/2015	Elena Hayward	6/12/15
Print Name: Tanner Holliday	Time: 0900	Print Name: Elena Hayward	Time: 900
Relinquished by: Signature	Date:	Received by: Signature	Date:
Print Name:	Time:	Print Name:	Time:
Relinquished by: Signature	Date:	Received by: Signature	Date:
Print Name:	Time:	Print Name:	Time:
Relinquished by: Signature	Date:	Received by: Signature	Date:
Print Name:	Time:	Print Name:	Time:

Special Instructions:

See the Analytical Scope of Work for Reporting Limits and VOC analyte list.

Lab Set ID: 1506266

1 of 3

Preservation Check Sheet

Sample Set Extension and pH

Analysis	Preservative	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Ammonia	pH <2 H_2SO_4																		
COD	pH <2 H_2SO_4																		
Cyanide	pH >12 NaOH																		
Metals	pH <2 HNO_3																		
NO_2 & NO_3	pH <2 H_2SO_4	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
O & G	pH <2 HCL																		
Phenols	pH <2 H_2SO_4																		
Sulfide	pH > 9NaOH, Zn Acetate																		
TKN	pH <2 H_2SO_4																		
T PO_4	pH <2 H_2SO_4																		

Procedure:

1) Pour a small amount of sample in the sample lid
2) Pour sample from Lid gently over wide range pH paper
3) **Do Not** dip the pH paper in the sample bottle or lid
4) If sample is not preserved, properly list its extension and receiving pH in the appropriate column above
5) Flag COC, notify client if requested
6) Place client conversation on COC
7) Samples may be adjusted

Frequency: All samples requiring preservation

* The sample required additional preservative upon receipt.

\+ The sample was received unpreserved.

▲ The sample was received unpreserved and therefore preserved upon receipt.

\# The sample pH was unadjustable to a pH < 2 due to the sample matrix.

• The sample pH was unadjustable to a pH > ____ due to the sample matrix interference.

Lab Set ID: 1506266

2 of 3

Preservation Check Sheet

Sample Set Extension and pH

Analysis	Preservative	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
Ammonia	pH <2 H_2SO_4																		
COD	pH <2 H_2SO_4																		
Cyanide	pH >12 NaOH																		
Metals	pH <2 HNO_3																		
NO_2 & NO_3	pH <2 H_2SO_4	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
O & G	pH <2 HCL																		
Phenols	pH <2 H_2SO_4																		
Sulfide	pH > 9NaOH, Zn Acetate																		
TKN	pH <2 H_2SO_4																		
T PO_4	pH <2 H_2SO_4																		

Procedure:

1) Pour a small amount of sample in the sample lid
2) Pour sample from Lid gently over wide range pH paper
3) **Do Not** dip the pH paper in the sample bottle or lid
4) If sample is not preserved, properly list its extension and receiving pH in the appropriate column above
5) Flag COC, notify client if requested
6) Place client conversation on COC
7) Samples may be adjusted

Frequency: All samples requiring preservation

* The sample required additional preservative upon receipt.

\+ The sample was received unpreserved.

▲ The sample was received unpreserved and therefore preserved upon receipt.

\# The sample pH was unadjustable to a pH < 2 due to the sample matrix.

• The sample pH was unadjustable to a pH > ____ due to the sample matrix interference.

Lab Set ID: 1506266

3 of 3

Preservation Check Sheet

Sample Set Extension and pH

Analysis	Preservative	37	38	39	40	41	42	43											
Ammonia	pH <2 H_2SO_4																		
COD	pH <2 H_2SO_4																		
Cyanide	pH >12 NaOH																		
Metals	pH <2 HNO_3																		
NO_2 & NO_3	pH <2 H_2SO_4	Yes	Yes	Yes	Yes	Yes	Yes	Yes											
O & G	pH <2 HCL																		
Phenols	pH <2 H_2SO_4																		
Sulfide	pH > 9NaOH, Zn Acetate																		
TKN	pH <2 H_2SO_4																		
T PO_4	pH <2 H_2SO_4																		

Procedure:

1) Pour a small amount of sample in the sample lid
2) Pour sample from Lid gently over wide range pH paper
3) **Do Not** dip the pH paper in the sample bottle or lid
4) If sample is not preserved, properly list its extension and receiving pH in the appropriate column above
5) Flag COC, notify client if requested
6) Place client conversation on COC
7) Samples may be adjusted

Frequency: All samples requiring preservation

* The sample required additional preservative upon receipt.

\+ The sample was received unpreserved.

▲ The sample was received unpreserved and therefore preserved upon receipt.

\# The sample pH was unadjustable to a pH < 2 due to the sample matrix.

• The sample pH was unadjustable to a pH > ____ due to the sample matrix interference.

Tab H

Quality Assurance and Data Validation Tables

H-1 Field Data QA/QC Evaluation

Location	Casing Volume	2x Casing Volume	Volume Pumped	Volume Check	Conductivity		RPD	pH		RPD	Temp		RPD	Redox Potential		RPD	Turbidity		RPD
Piezometer 1		--			2127		NC	8.50		NC	15.91		NC	240		NC	0.8		NC
Piezometer 2		--			822		NC	7.39		NC	15.92		NC	192		NC	6.4		NC
Piezometer 3		--			2632		NC	12.01		NC	15.71		NC	90		NC	4.2		NC
TWN-1	33.60	67.20	88.00	OK	853.0	858.0	0.58	6.96	6.98	0.29	15.23	15.24	0.07	329	328	0.30	8.1	8.2	1.23
TWN-2	NA	Continuously Pumped Well			3182		NC	6.60		NC	14.75		NC	322		NC	0.0		NC
TWN-3	37.97	75.94	49.50	Pumped Dry	2233.0	2243.0	0.45	7.08	7.06	0.28	13.43	13.45	0.15	NM		NC	NM		NC
TWN-4	47.46	94.92	121.00	OK	1064.0	1063.0	0.09	6.77	6.77	0.00	14.87	14.87	0.00	327	326	0.31	12.9	13.0	0.77
TWN-7	12.66	25.32	16.50	Pumped Dry	1294.0	1281.0	1.01	7.29	7.28	0.14	14.71	14.73	0.14	NM		NC	NM		NC
TWN-18	55.64	111.28	132.00	OK	2197.0	2200.0	0.14	6.60	6.60	0.00	14.53	14.53	0.00	416	414	0.48	18.6	18.7	0.54
TW4-22	NA	Continuously pumped well			5802		NC	6.59		NC	16.11		NC	312		NC	0.0		NC
TW4-24	NA	Continuously pumped well			8059		NC	6.46		NC	16.14		NC	330		NC	0.0		NC
TW4-25	NA	Continuously pumped well			2792		NC	6.71		NC	16.56		NC	286		NC	0.0		NC

NC = Not Calculated

TWN-2 , TW4-22, TW4-24, and TW4-25 are continuously pumping wells.

Piezometers 1, 2, and 3 were not pumped, only one set of parameters were taken.

TWN-3 and TWN-7 were pumped dry and sampled after recovery.

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 below are included for information purposes only.

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

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	05/12/2015	05/26/2015	14	28	OK
PIEZ-01	Nitrate/Nitrite (as N)	05/12/2015	05/26/2015	14	28	OK
PIEZ-02	Chloride	05/12/2015	05/26/2015	14	28	OK
PIEZ-02	Nitrate/Nitrite (as N)	05/12/2015	05/26/2015	14	28	OK
PIEZ-03	Chloride	05/12/2015	05/26/2015	14	28	OK
PIEZ-03	Nitrate/Nitrite (as N)	05/12/2015	05/26/2015	14	28	OK
TWN-01	Chloride	05/13/2015	05/26/2015	13	28	OK
TWN-01	Nitrate/Nitrite (as N)	05/13/2015	05/22/2015	9	28	OK
TWN-02	Chloride	05/12/2015	05/26/2015	14	28	OK
TWN-02	Nitrate/Nitrite (as N)	05/12/2015	05/22/2015	10	28	OK
TWN-03	Chloride	05/14/2015	05/27/2015	13	28	OK
TWN-03	Nitrate/Nitrite (as N)	05/14/2015	05/22/2015	8	28	OK
TWN-04	Chloride	05/13/2015	05/26/2015	13	28	OK
TWN-04	Nitrate/Nitrite (as N)	05/13/2015	05/22/2015	9	28	OK
TWN-07	Chloride	05/14/2015	05/26/2015	12	28	OK
TWN-07	Nitrate/Nitrite (as N)	05/14/2015	05/22/2015	8	28	OK
TWN-18	Chloride	05/13/2015	05/26/2015	13	28	OK
TWN-18	Nitrate/Nitrite (as N)	05/13/2015	05/22/2015	9	28	OK
TWN-18R	Chloride	05/13/2015	05/27/2015	14	28	OK
TWN-18R	Nitrate/Nitrite (as N)	05/13/2015	05/22/2015	9	28	OK
TW4-22	Chloride	06/08/2015	06/17/2015	9	28	OK
TW4-22	Nitrate/Nitrite (as N)	06/08/2015	06/15/2015	7	28	OK
TW4-24	Chloride	06/08/2015	06/18/2015	10	28	OK
TW4-24	Nitrate/Nitrite (as N)	06/08/2015	06/15/2015	7	28	OK
TW4-25	Chloride	06/08/2015	06/18/2015	10	28	OK
TW4-25	Nitrate/Nitrite (as N)	06/08/2015	06/15/2015	7	28	OK
TW4-60	Chloride	06/11/2015	06/18/2015	7	28	OK
TW4-60	Nitrate/Nitrite (as N)	06/11/2015	06/15/2015	4	28	OK
TWN-60	Chloride	05/13/2015	05/26/2015	13	28	OK
TWN-60	Nitrate/Nitrite (as N)	05/13/2015	05/26/2015	13	28	OK
TWN-65	Chloride	05/13/2015	05/26/2015	13	28	OK
TWN-65	Nitrate/Nitrite (as N)	05/13/2015	05/22/2015	9	28	OK

H-3: Analytical Method Check

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

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

H-4 Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Required Reporting Limit	RL Check	Dilution Factor
PIEZ-01	Chloride	10	mg/L		1	OK	10
PIEZ-01	Nitrate/Nitrite (as N)	0.1	mg/L		0.1	OK	10
PIEZ-02	Chloride	1	mg/L		1	OK	1
PIEZ-02	Nitrate/Nitrite (as N)	0.10	mg/L		0.1	OK	1
PIEZ-03	Chloride	10	mg/L		1	OK	10
PIEZ-03	Nitrate/Nitrite (as N)	0.10	mg/L		0.1	OK	1
TWN-01	Chloride	10	mg/L		1	OK	10
TWN-01	Nitrate/Nitrite (as N)	0.10	mg/L		0.1	OK	1
TWN-02	Chloride	10	mg/L		1	OK	10
TWN-02	Nitrate/Nitrite (as N)	1	mg/L		0.1	OK	100
TWN-03	Chloride	100	mg/L		1	OK	100
TWN-03	Nitrate/Nitrite (as N)	0.1	mg/L		0.1	OK	10
TWN-04	Chloride	10	mg/L		1	OK	10
TWN-04	Nitrate/Nitrite (as N)	0.10	mg/L		0.1	OK	1
TWN-07	Chloride	1	mg/L		1	OK	1
TWN-07	Nitrate/Nitrite (as N)	0.10	mg/L		0.1	OK	1
TWN-07R	Chloride	10	mg/L		1	OK	10
TWN-07R	Nitrate/Nitrite (as N)	0.1	mg/L		0.1	OK	10
TWN-18	Chloride	1	mg/L	U	1	OK	1
TWN-18	Nitrate/Nitrite (as N)	0.10	mg/L	U	0.1	OK	10
TW4-22	Chloride	100	mg/L		1	OK	100
TW4-22	Nitrate/Nitrite (as N)	10	mg/L		0.1	OK	100
TW4-24	Chloride	100	mg/L		1	OK	100
TW4-24	Nitrate/Nitrite (as N)	5	mg/L		0.1	OK	50
TW4-25	Chloride	10	mg/L		1	OK	10
TW4-25	Nitrate/Nitrite (as N)	1	mg/L		0.1	OK	10
TW4-60	Chloride	1	mg/L	U	1	OK	1
TW4-60	Nitrate/Nitrite (as N)	0.1	mg/L	U	0.1	OK	1
TWN-60	Chloride	1	mg/L	U	1	OK	1
TWN-60	Nitrate/Nitrite (as N)	0.1	mg/L	U	0.1	OK	1
TWN-65	Chloride	10	mg/L		1	OK	10
TWN-65	Nitrate/Nitrite (as N)	0.10	mg/L	U	0.1	OK	1

U = Value was reported by the laboratory as nondetect.

H-5 QA/QC Evaluation for Sample Duplicates

Constituent	TWN-18	TWN-65	%RPD
Chloride	76.6	76.9	0.39
Nitrogen	1.35	ND	NC

ND - non-detect
NC - not calculated. The RPD was not calucated, because the duplicate sample was reported as non-detect.

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

Lab Report	Lab Sample ID	Well	Analyte	MS %REC	MSD %REC	REC Range	RPD
1505271	1505271-003BMS	TWN-07	Nitrate	88.4	76.1	90-110	7.68
1505271	1505271-009BMS	TWN-60	Nitrate	89.5	87.6	90-110	2.16
1506266	1506266-011BMS	TW4-35	Nitrate	84.2	89.9	90-110	4.31
1506266	1506266-021BMS	MW-26	Nitrate	79.4	82.2	90-110	2.28
1506266	1506266-031BMS	TW4-05	Nitrate	70.4	70.2	90-110	0.142
1506265	1506265-002DMS	N/A	Nitrate	61.3	97.8	90-110	23.8

* - Recovery was not calculated because the analyte of the sample was greater than 4 times the spike amount

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

NC - Not calculated

Laboratory Control Sample

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

H-7 Receipt Temperature Evaluation

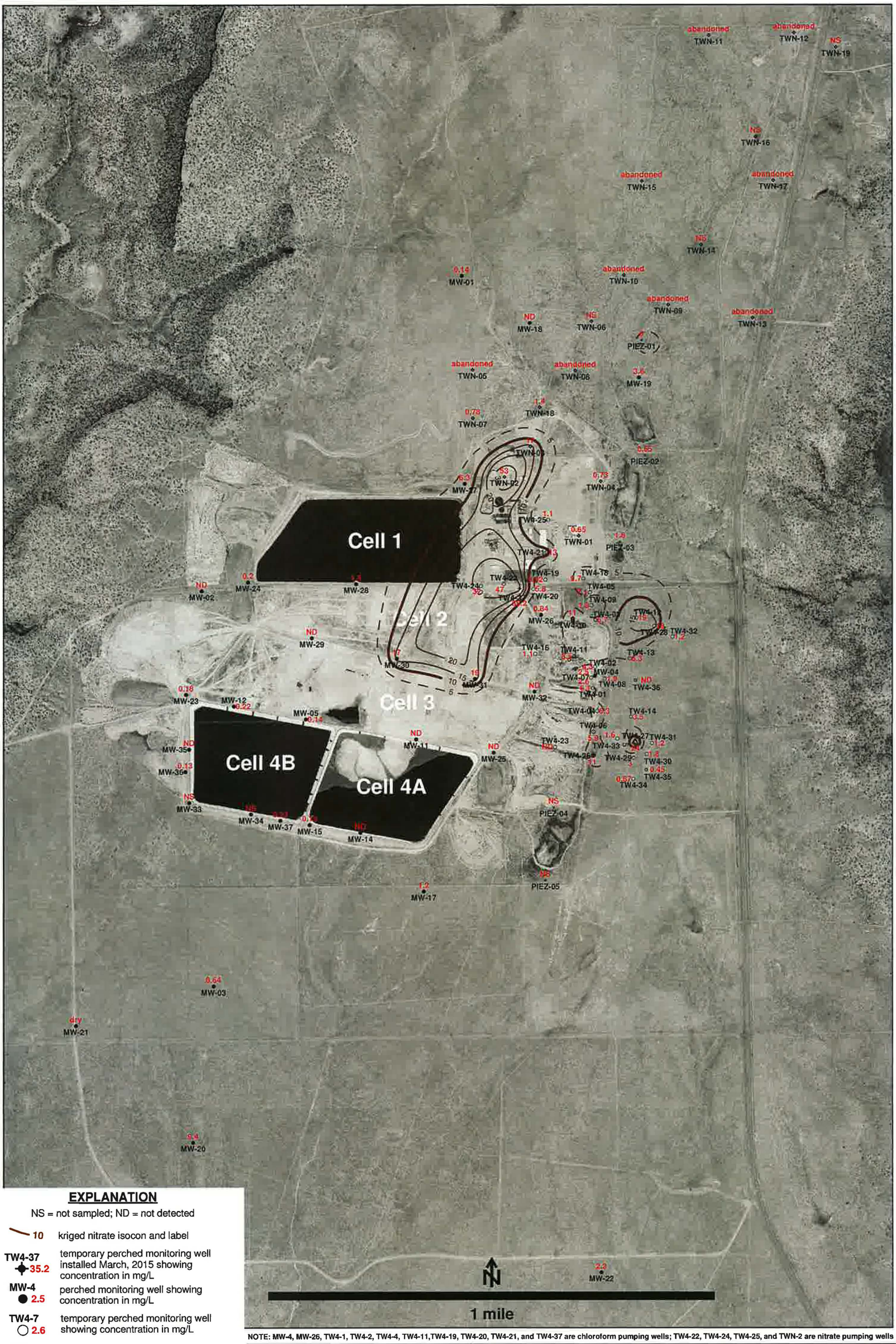
Sample Batch	Wells in Batch	Temperature
1505271	Piezometer 1, Piezometer 2, Piezometer 3, TWN-1, TWN-2, TWN-3, TWN-4, TWN-7, TWN-07R, TWN-18, TWN-60, TWN-65	4.0 ˚C
1506266	TW4-22, TW4-24, TW4-25, TW4-60	1.8 ˚C

H-8 Rinsate Evaluation

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

Tab I

Kriged Current Quarter Isoconcentration Maps

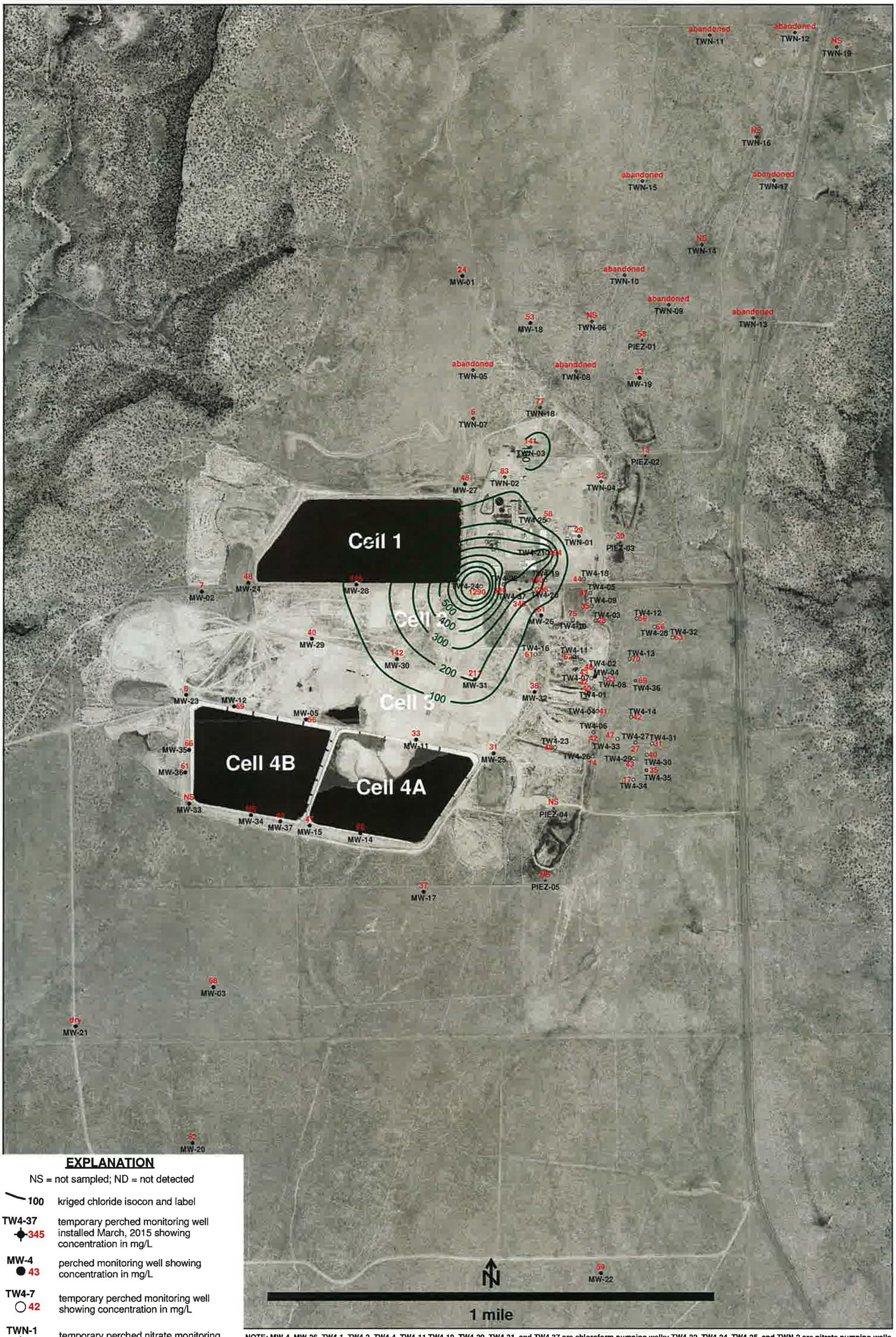


NOTE: MW-4, MW-26, TW4-1, TW4-2, TW4-4, TW4-11,TW4-19, TW4-20, TW4-21, and TW4-37 are chloroform pumping wells; TW4-22, TW4-24, TW4-25, and TWN-2 are nitrate pumping wells

HYDRO GEO CHEM, INC.

KRIGED 2nd QUARTER, 2015 NITRATE (mg/L) (NITRATE + NITRITE AS N) WHITE MESA SITE

APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/aug15/nitrate/Unt0615.srf	I-1



EXPLANATION

NS = not sampled; ND = not detected

100	kriged chloride isocon and label
TW4-37 345	temporary perched monitoring well installed March, 2015 showing concentration in mg/L
MW-4 43	perched monitoring well showing concentration in mg/L
TW4-7 42	temporary perched monitoring well showing concentration in mg/L
TWN-1 29	temporary perched nitrate monitoring well showing concentration in mg/L
PIEZ-1 58	perched piezometer showing concentration in mg/L
TW4-36 69	temporary perched monitoring well installed May, 2014 showing concentration in mg/L

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

HYDRO GEO CHEM, INC.

KRIGED 2nd QUARTER, 2015 CHLORIDE (mg/L) WHITE MESA SITE

APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/aug15/chloride/Ucl0615.srf	I-2

Tab J

Analyte Concentrations Over Time

Piezometer 1

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

Piezometer 2

Date	Nitrate (mg/l)	Chloride (mg/l)
2/19/2009	0.5	NA
7/14/2009	0.5	7
9/22/2009	0.5	17
10/27/2009	0.6	7
6/2/2010	0.6	8
7/19/2010	0.6	8
12/10/2010	0.2	6
1/31/2011	0.3	9
4/25/2011	0.3	8
7/25/2011	0.1	9
10/19/2011	0.1	8
1/11/2012	0.1	9
4/20/2012	0.2	8
7/27/2012	0.2	9
10/17/2012	0.192	9.5
2/19/2013	0.218	9.67
4/24/2013	0.172	10.3
8/28/2013	0.198	9.66
10/16/2013	0.364	9.22
1/13/2014	0.169	11.4
5/7/2014	0.736	11.4
8/6/2014	0.8	12
10/8/2014	0.755	12.2
2/18/2015	0.749	12.6
5/12/2015	0.646	13.1

Piezometer 3

Date	Nitrate (mg/l)	Chloride (mg/l)
2/19/2009	0.7	NA
7/14/2009	0.8	12
9/22/2009	0.8	24
10/27/2009	1.2	19
3/24/2010	1.7	116
6/2/2010	1.6	36
7/19/2010	1.6	35
12/10/2010	1.8	25
1/31/2011	1.8	40
4/25/2011	1.7	35
7/25/2011	1.8	61
10/19/2011	1.7	12
1/11/2012	1.8	20
4/20/2012	1.7	53
7/27/2012	1.8	21
10/17/2012	2.75	20.1
2/19/2013	1.85	21
4/24/2013	1.83	21.2
8/28/2013	1.81	22.4
10/16/2013	1.80	23.5
1/13/2014	1.70	26.0
5/7/2014	1.79	23.9
8/6/2014	1.7	26
10/8/2014	1.74	28.3
2/18/2015	1.82	27.1
5/12/2015	1.75	30.2

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

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

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

TWN-4

Date	Nitrate (mg/l)	Chloride (mg/l)
2/6/2009	1	13
7/21/2009	0.05	12
9/21/2009	0.4	13
10/28/2009	0.4	11
3/16/2010	0.9	22
5/27/2010	1.0	22
9/27/2010	0.9	19
12/8/2010	1	21
1/25/2011	0.9	21
4/20/2011	0.9	21
7/26/2011	1.1	35
10/18/2011	0.9	20
1/9/2012	0.9	20
4/18/2012	1.1	24
7/25/2012	1.4	25
10/15/2012	1.45	26.4
2/18/2013	1.51	25.3
4/23/2013	1.63	24.4
8/27/2013	1.58	27.2
10/16/2013	1.69	29.4
1/14/2014	1.41	28.4
5/6/2014	1.55	29.6
8/5/2014	2.0	28
10/8/2014	1.44	30.7
2/18/2015	1.48	31.5
5/13/2015	0.733	31.9

TWN-7

Date	Nitrate (mg/l)	Chloride (mg/l)
8/25/2009	ND	11.00
9/21/2009	ND	7.00
11/10/2009	0.1	7.00
3/17/2010	0.8	6.00
5/28/2010	1.2	6.00
7/14/2010	1.6	7.00
12/10/2010	1	4.00
1/27/2011	1.3	6.00
4/21/2011	1.7	6.00
7/29/2011	0.7	5.00
10/19/2011	2.2	6.00
1/11/2012	2.3	5.00
4/20/2012	1.2	6.00
7/26/2012	0.9	6.00
10/16/2012	0.641	5.67
2/19/2013	0.591	5.68
4/24/2013	1.16	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	0.9	6.00
10/9/2014	0.968	5.93
2/19/2015	1.04	5.58
5/14/2015	0.779	6.18

TWN-18

Date	Nitrate (mg/l)	Chloride (mg/l)
11/2/2009	1.3	57
3/17/2010	1.6	42
6/1/2010	1.8	63
9/27/2010	1.8	64
12/9/2010	1.6	59
1/27/2011	1.4	61
4/26/2011	1.8	67
7/28/2011	1.8	65
10/18/2011	1.9	60
1/10/2012	1.9	64
4/19/2012	2.1	64
7/26/2012	2.3	67
10/16/2012	1.95	67.5
2/18/2013	2.27	68.7
4/23/2013	2.32	64.3
8/27/2013	2.04	70.4
10/16/2013	2.15	67.3
1/14/2014	2.33	68.4
5/6/2014	2.18	76.5
8/5/2014	1.8	70
10/8/2014	1.47	74.8
2/18/2015	1.00	73.3
5/13/2015	1.35	76.6

TW4-19

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		
11/17/2011	5.00		
1/23/2012	0.60		
6/6/2012	2.40		
9/5/2012	2.50		
10/3/2012	4.10		
2/11/2013	7.99		
6/5/2013	2.95		
9/3/2013	17.60		
10/29/2013	4.70		
1/27/2014	1.62		
5/19/2014	1.34		
8/11/2014	1.60		
10/21/2014	4.72		
3/9/2015	8.56		
6/8/2015	0.92		

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	228
9/15/2009	9.2	6/10/2010	266
12/22/2009	8.4	8/12/2010	278
2/25/2010	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		
3/12/2015	10.9		
6/8/2015	13.1		

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

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	30.7	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

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
10/5/2010	15	312
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

MW-30

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
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

MW-30

Date	Nitrate (mg/l)	Date	Chloride (mg/l)
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		
1/21/2015	19.5		
2/4/2015	14.9		
3/3/2015	17.3		
4/8/2015	17.0		
5/12/2015	16.1		
6/24/2015	15.8		

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.

MW-31

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
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

MW-31

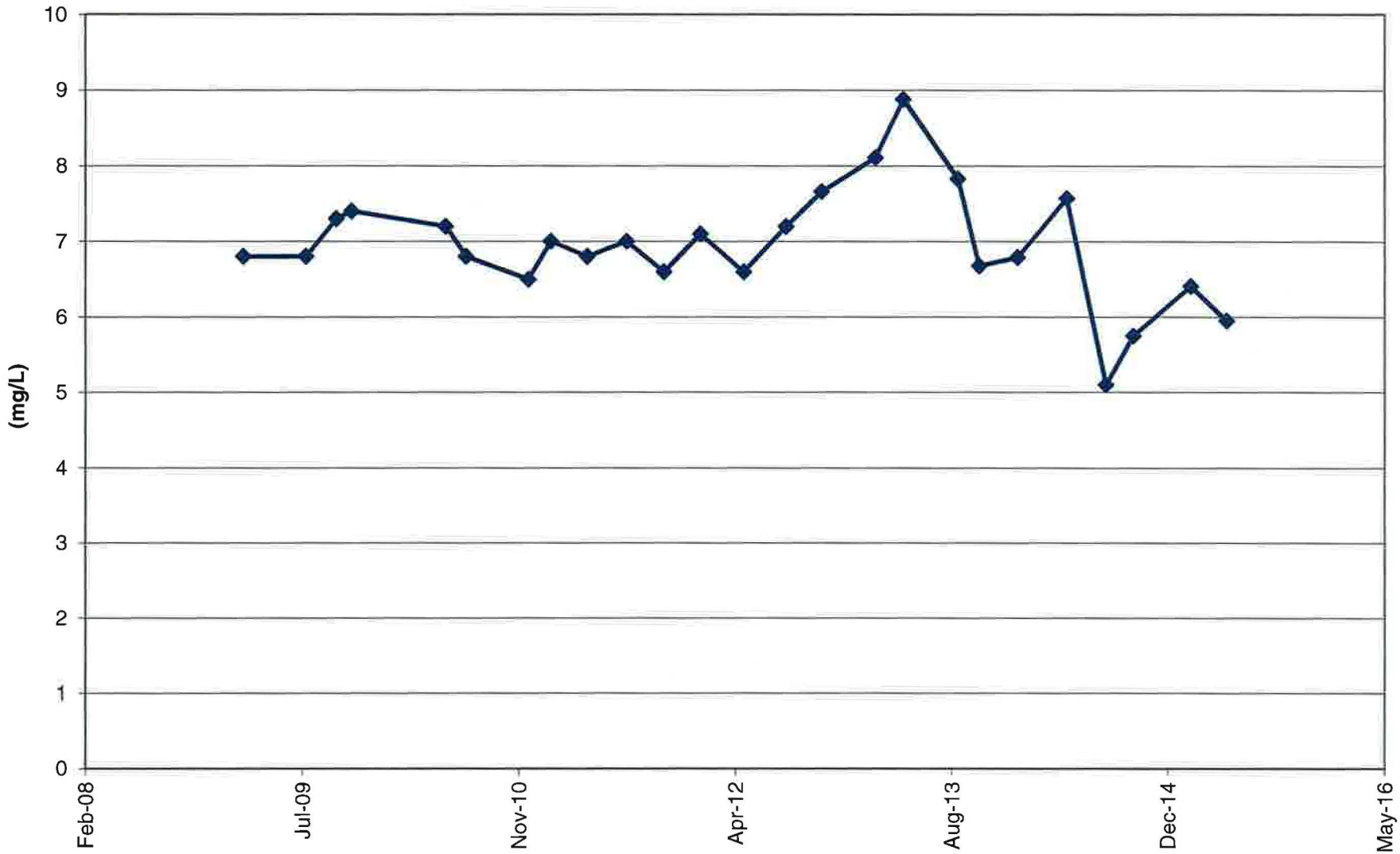
Date	Nitrate (mg/l)	Date	Chloride (mg/l)
6/18/2012	21.6	1/22/2013	176
7/9/2012	21.0	2/19/2013	174
8/6/2012	21.0	3/19/2013	168
9/18/2012	21.0	4/16/2013	171
10/22/2012	18.0	5/13/2013	169
11/6/2012	23.6	6/24/2013	179
12/18/2012	22.2	7/9/2013	182
1/22/2013	22.8	8/19/2013	183
2/19/2013	19.3	9/17/2013	193
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		
1/20/2015	20.9		
2/2/2015	18.7		
3/3/2015	19.8		
4/7/2015	19.0		
5/11/2015	18.4		
6/23/2015	18.0		

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.

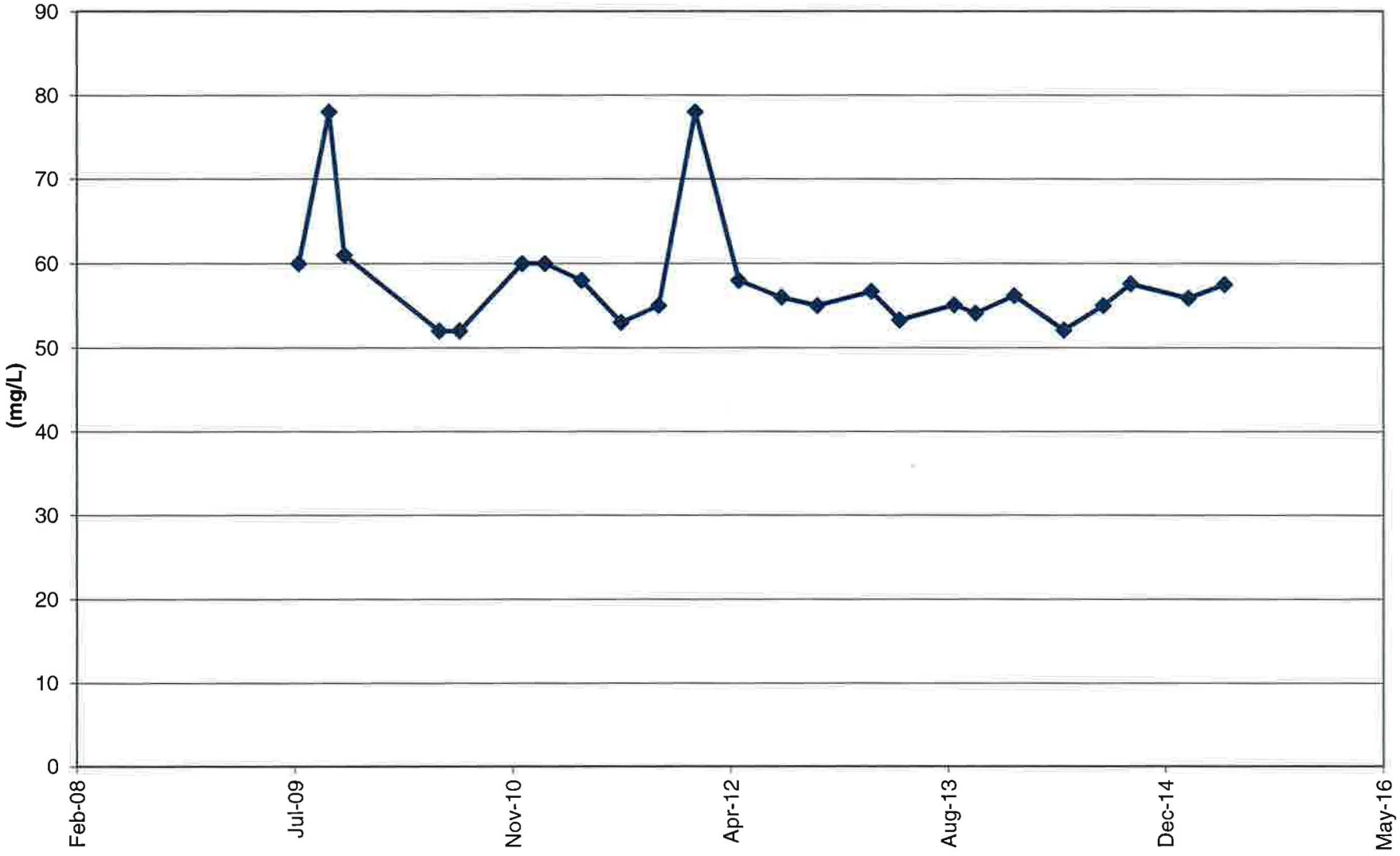
Tab K

Concentration Trend Graphs

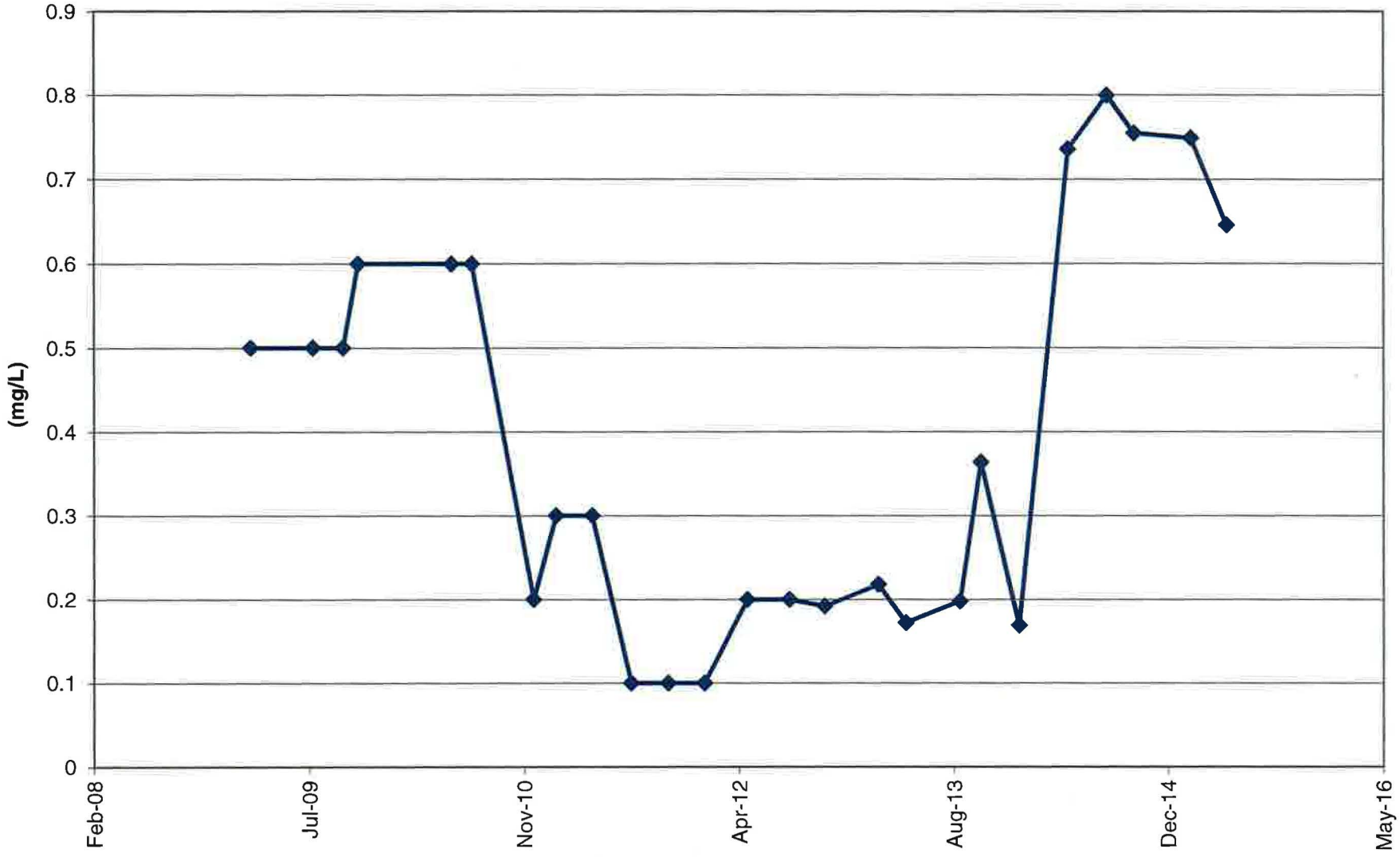
Piezometer 1 Nitrate Concentrations



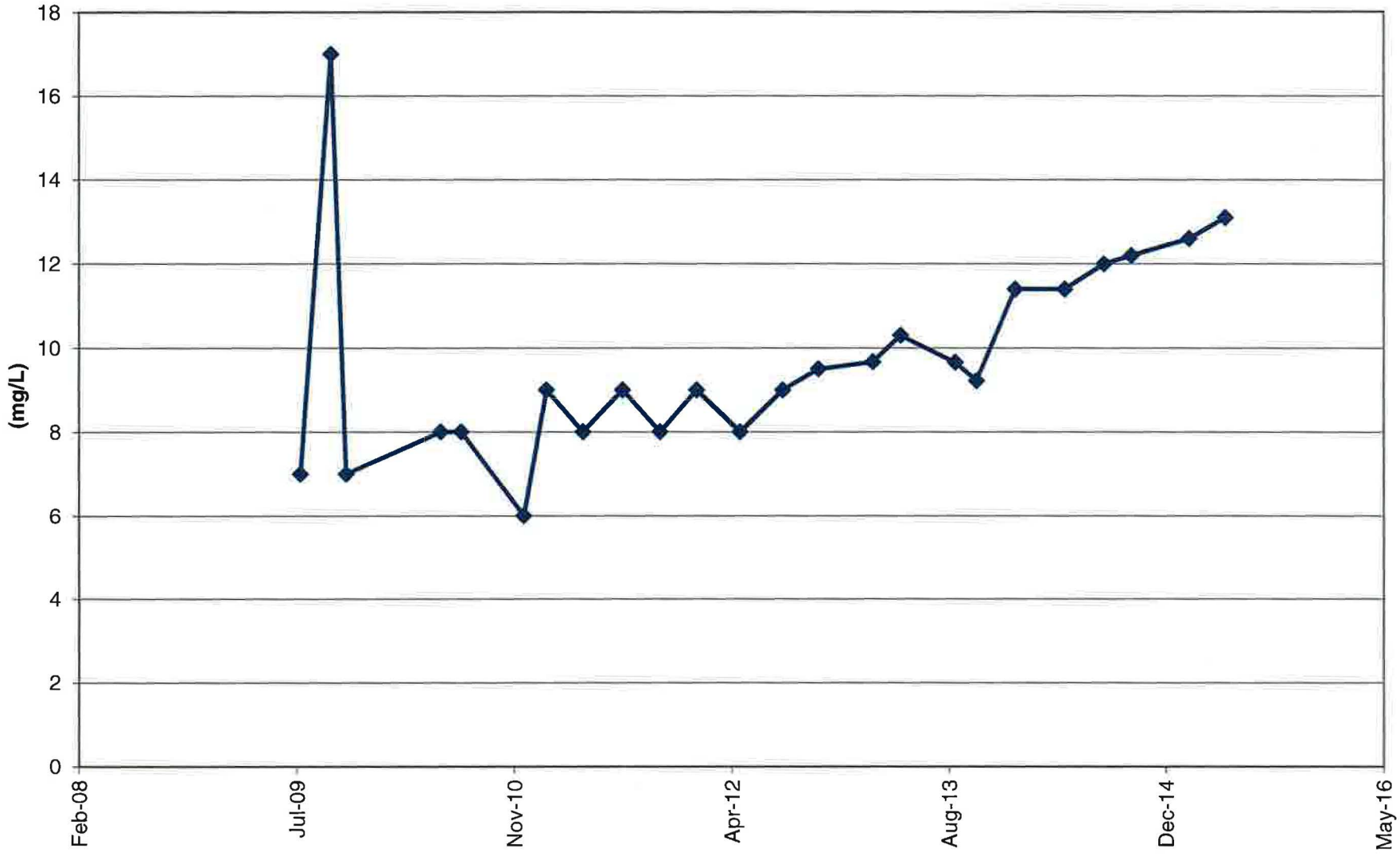
Piezometer 1 Chloride Concentrations



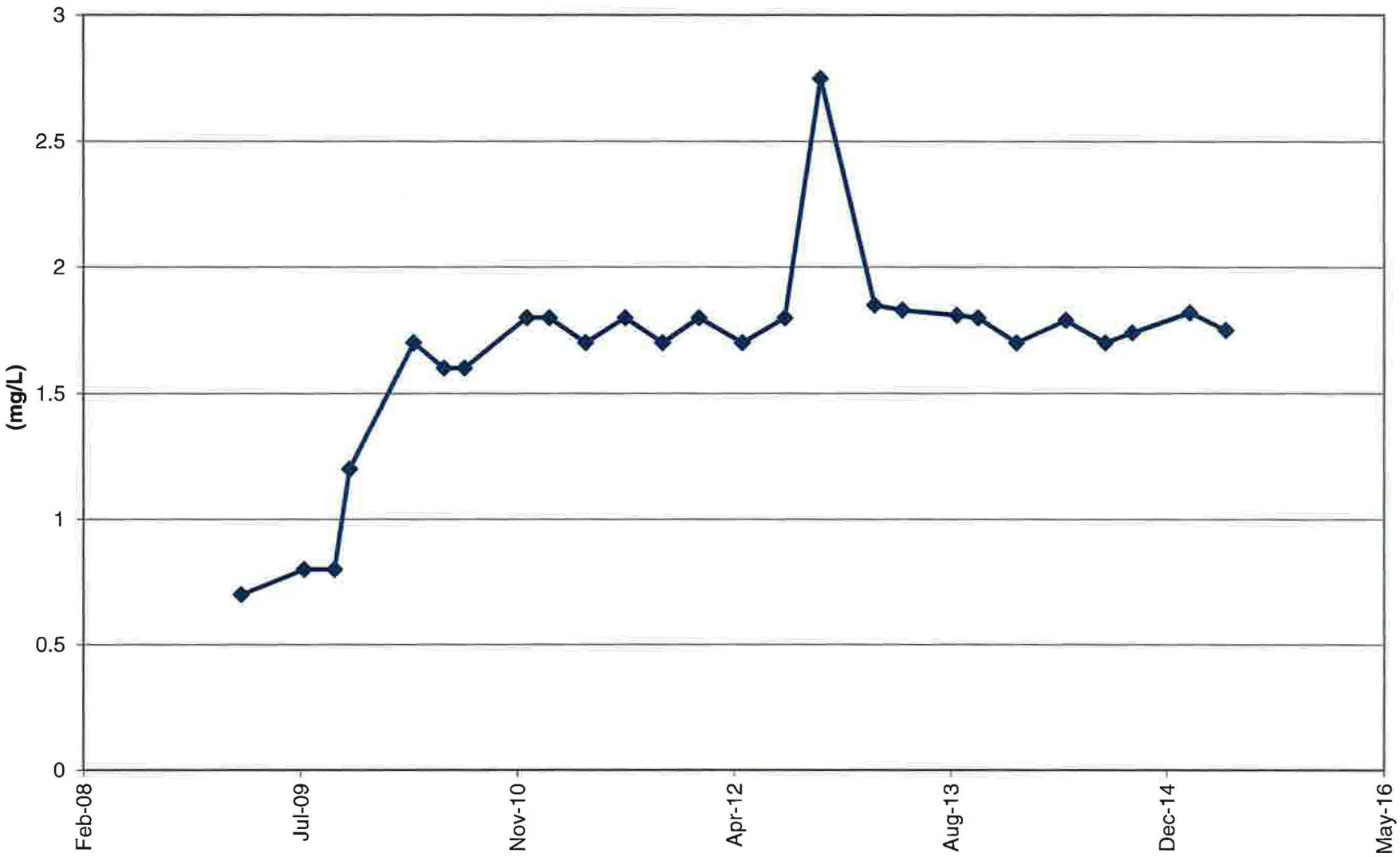
Piezometer 2 Nitrate Concentrations



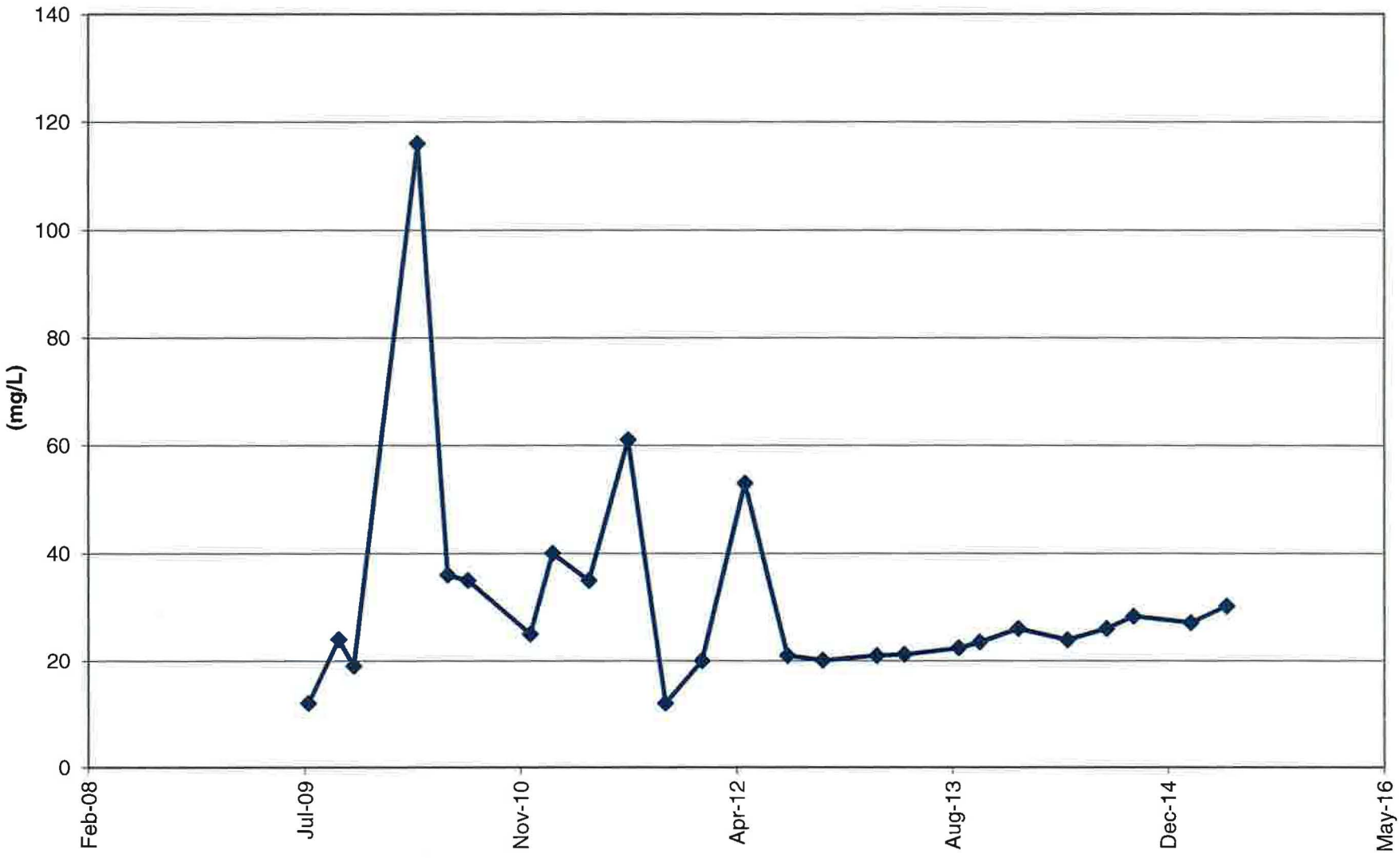
Piezometer 2 Chloride Concentrations

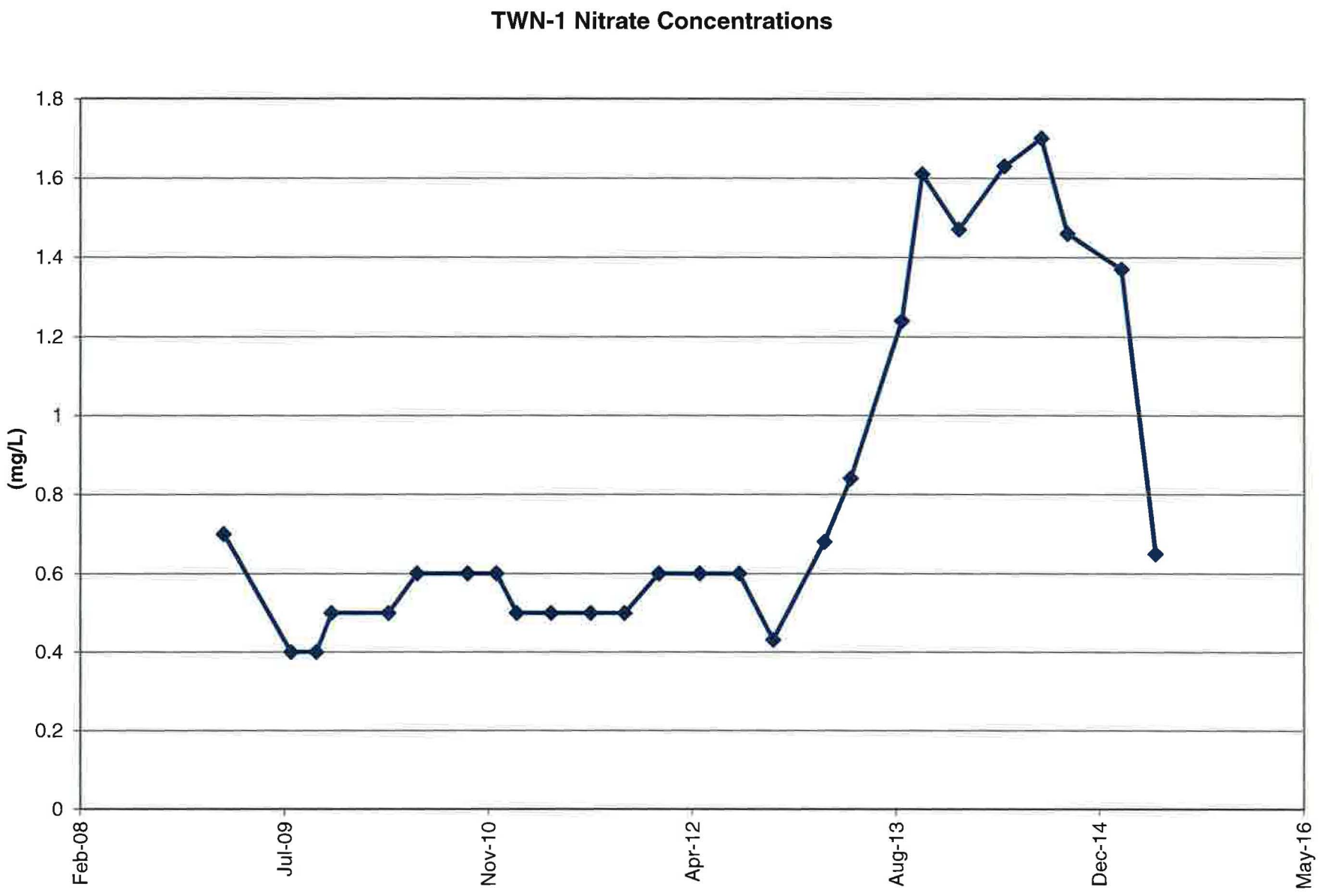


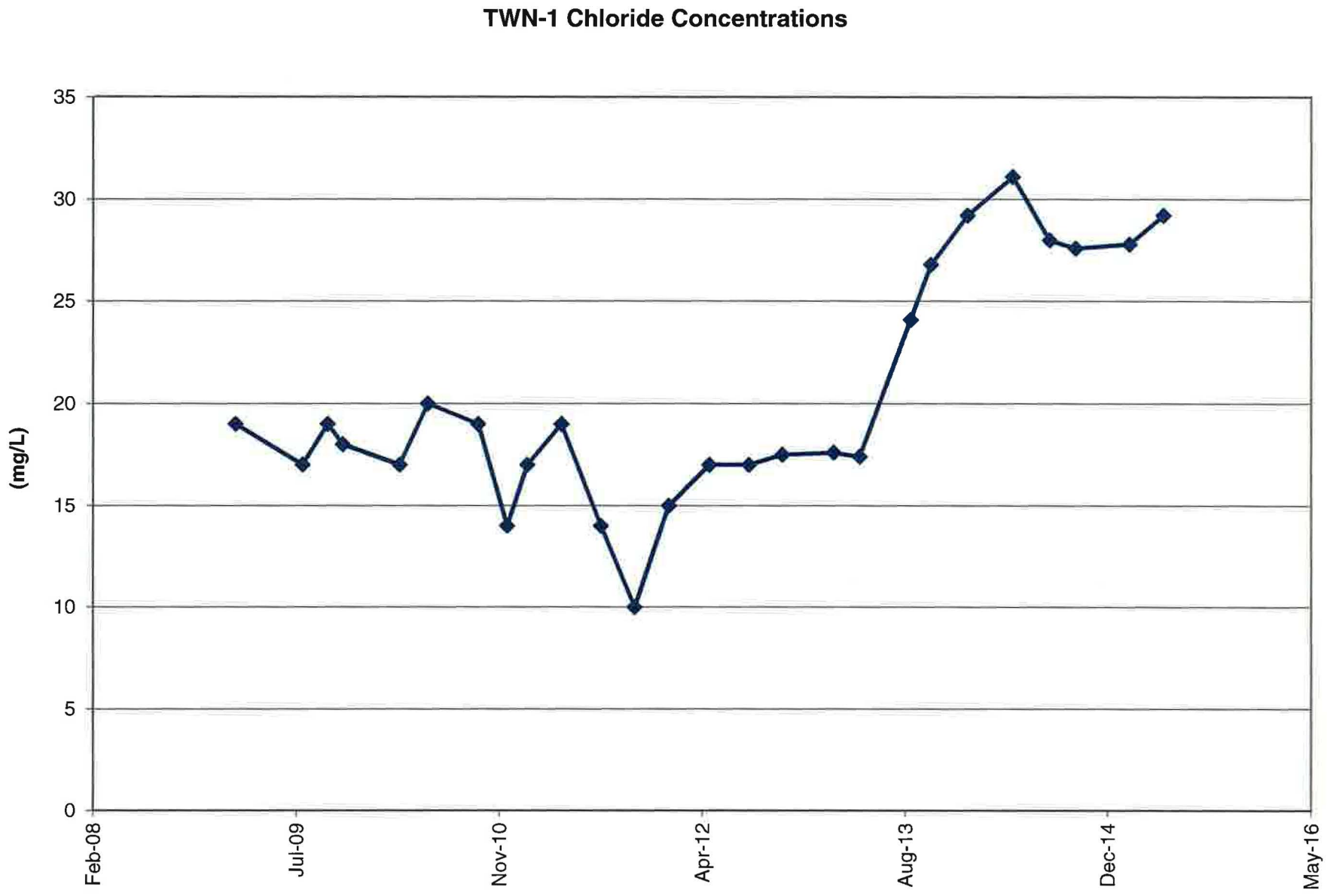
Piezometer 3 Nitrate Concentrations

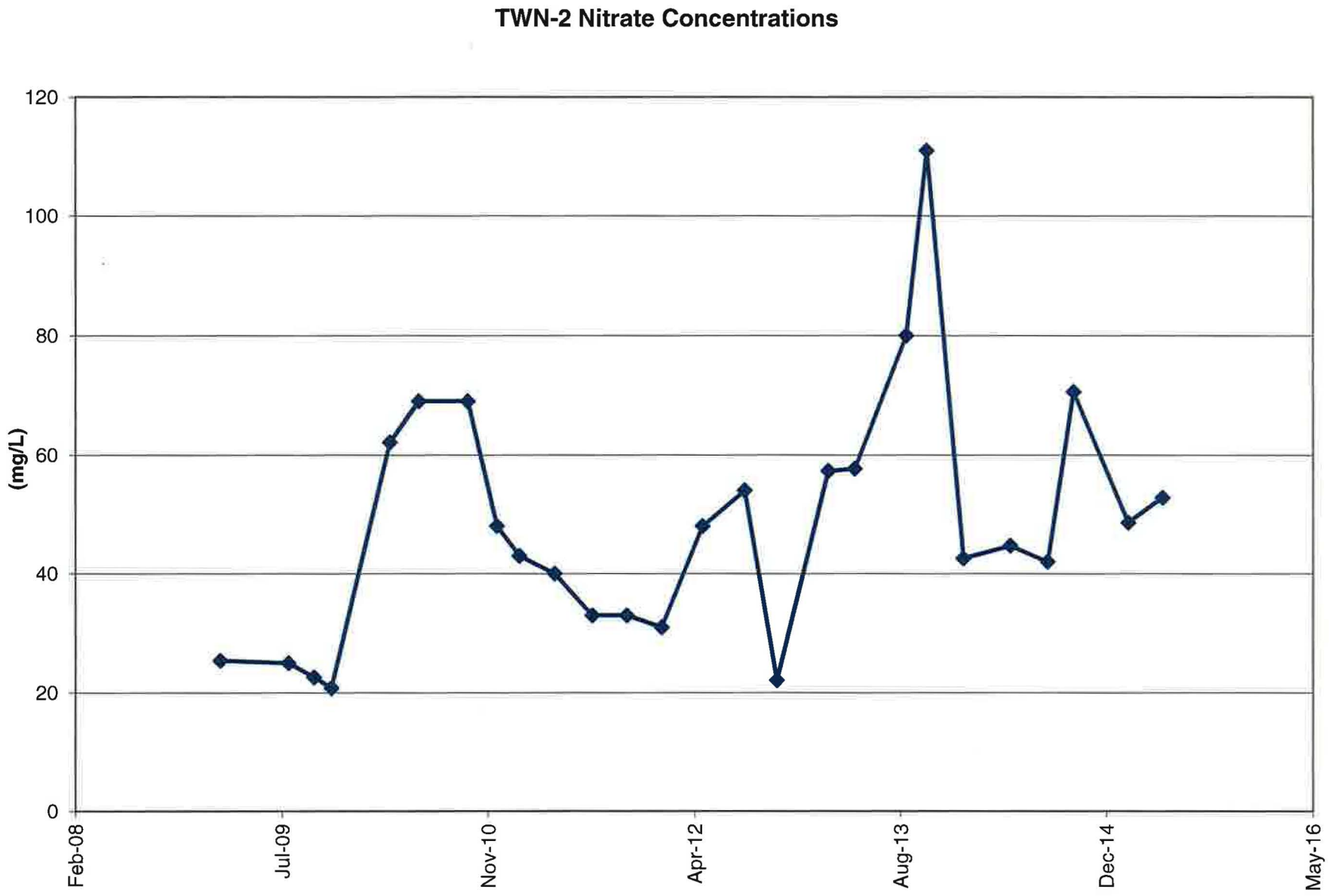


Piezometer 3 Chloride Concentrations

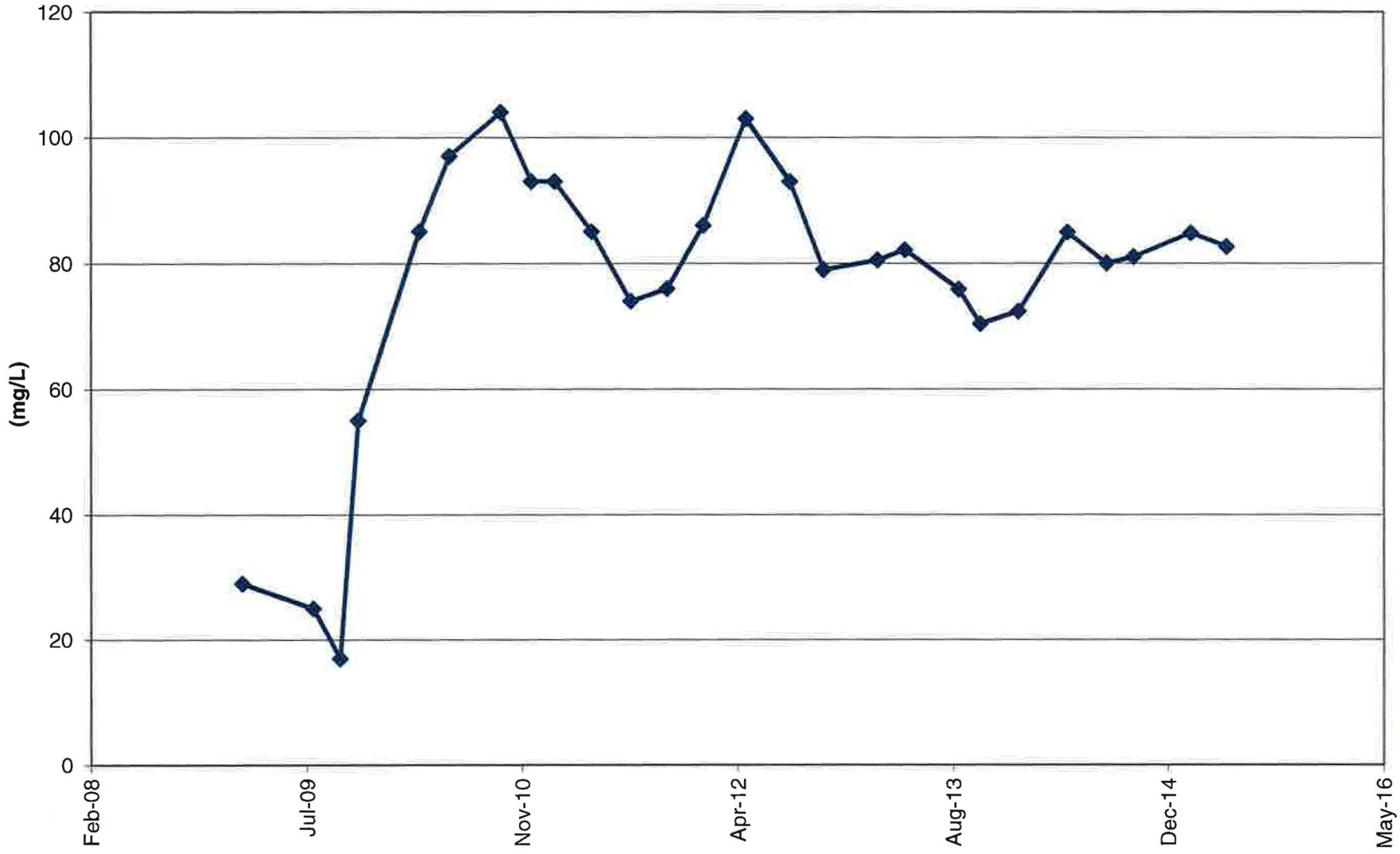



TWN-1 Nitrate Concentrations
(mg/L)
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
Feb-08
Jul-09
Nov-10
Apr-12
Aug-13
Dec-14
May-16

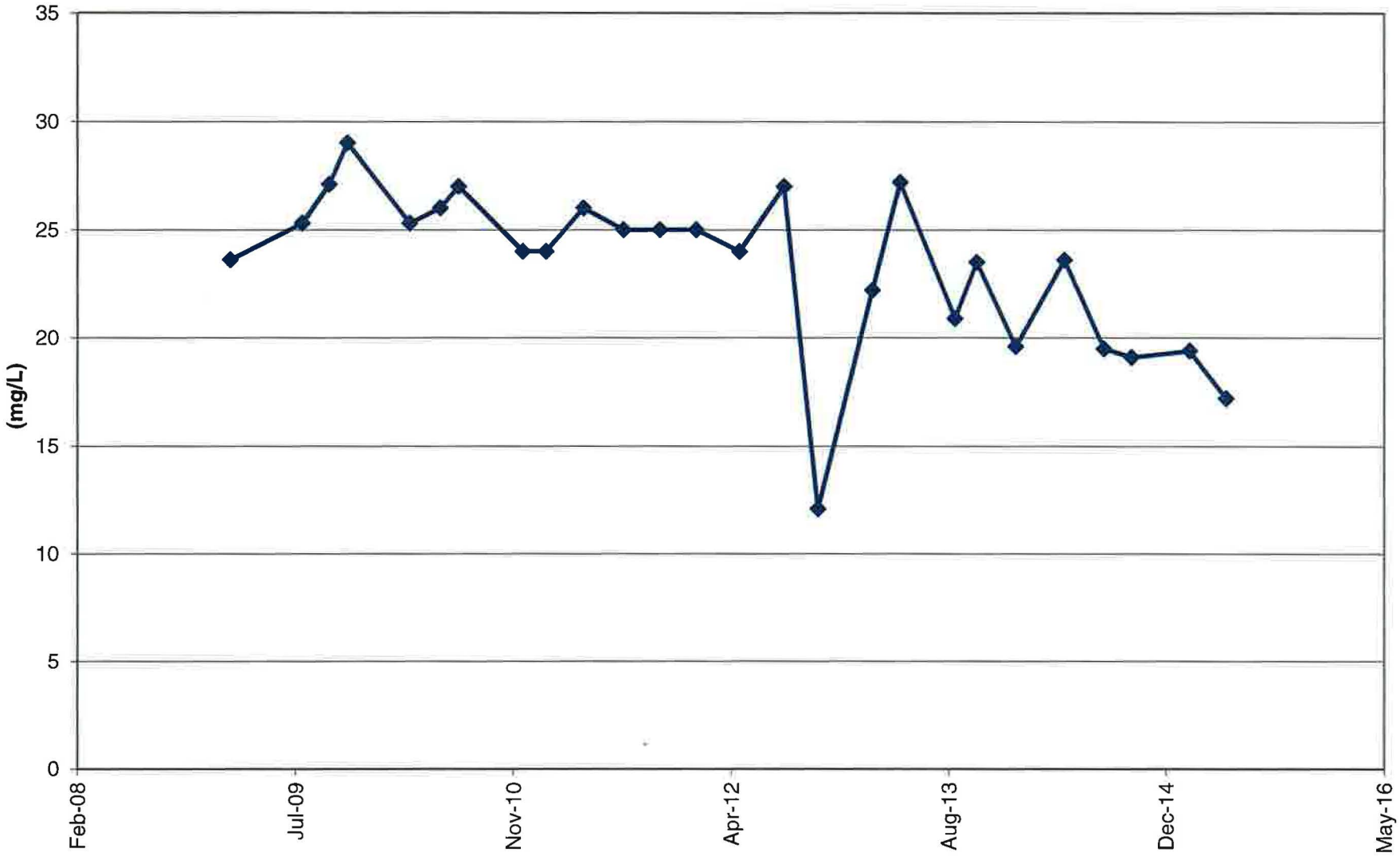

TWN-1 Chloride Concentrations
(mg/L)
35
30
25
20
15
10
5
0
Feb-08
Jul-09
Nov-10
Apr-12
Aug-13
Dec-14
May-16

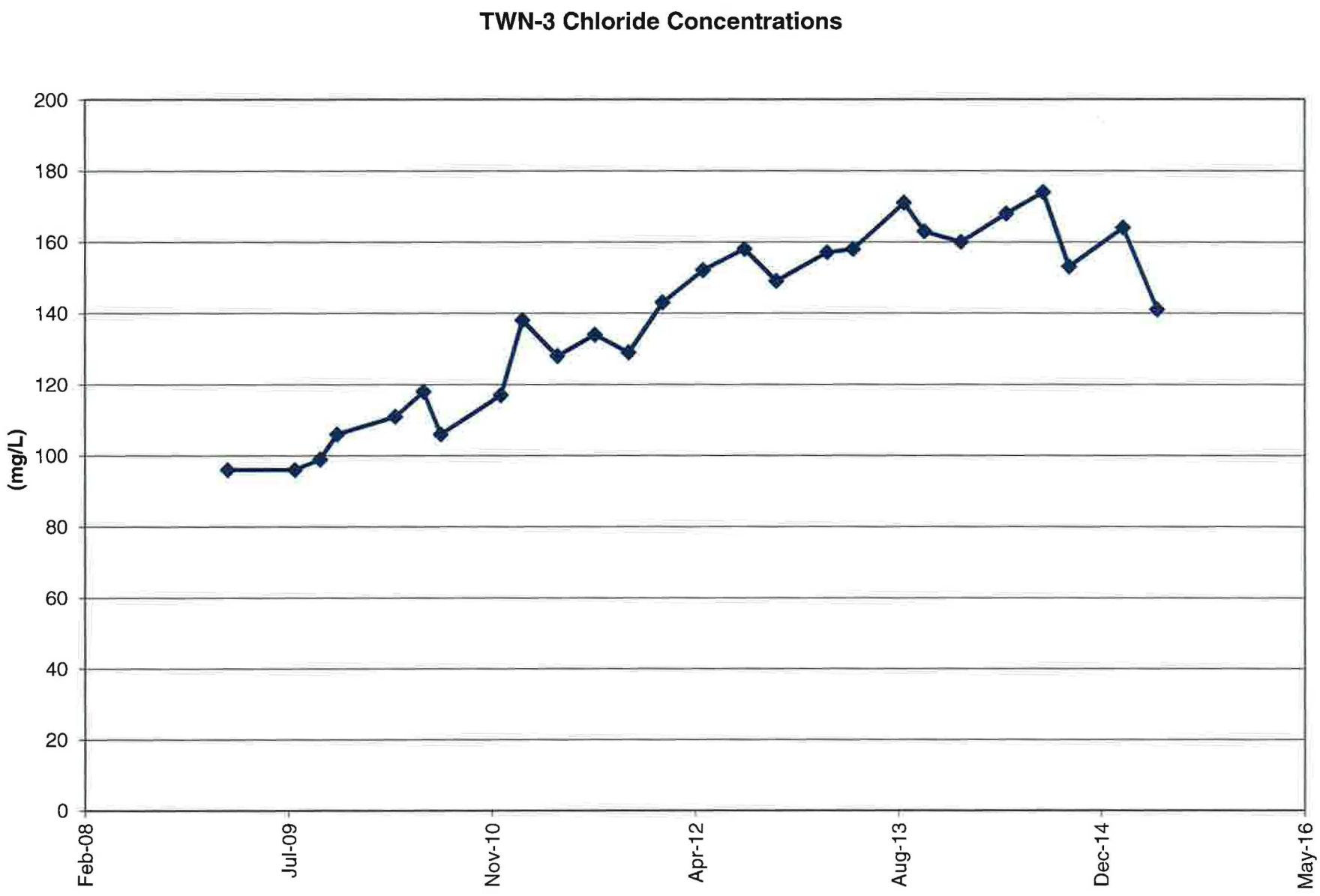

TWN-2 Nitrate Concentrations
(mg/L)
120
100
80
60
40
20
0
Feb-08
Jul-09
Nov-10
Apr-12
Aug-13
Dec-14
May-16

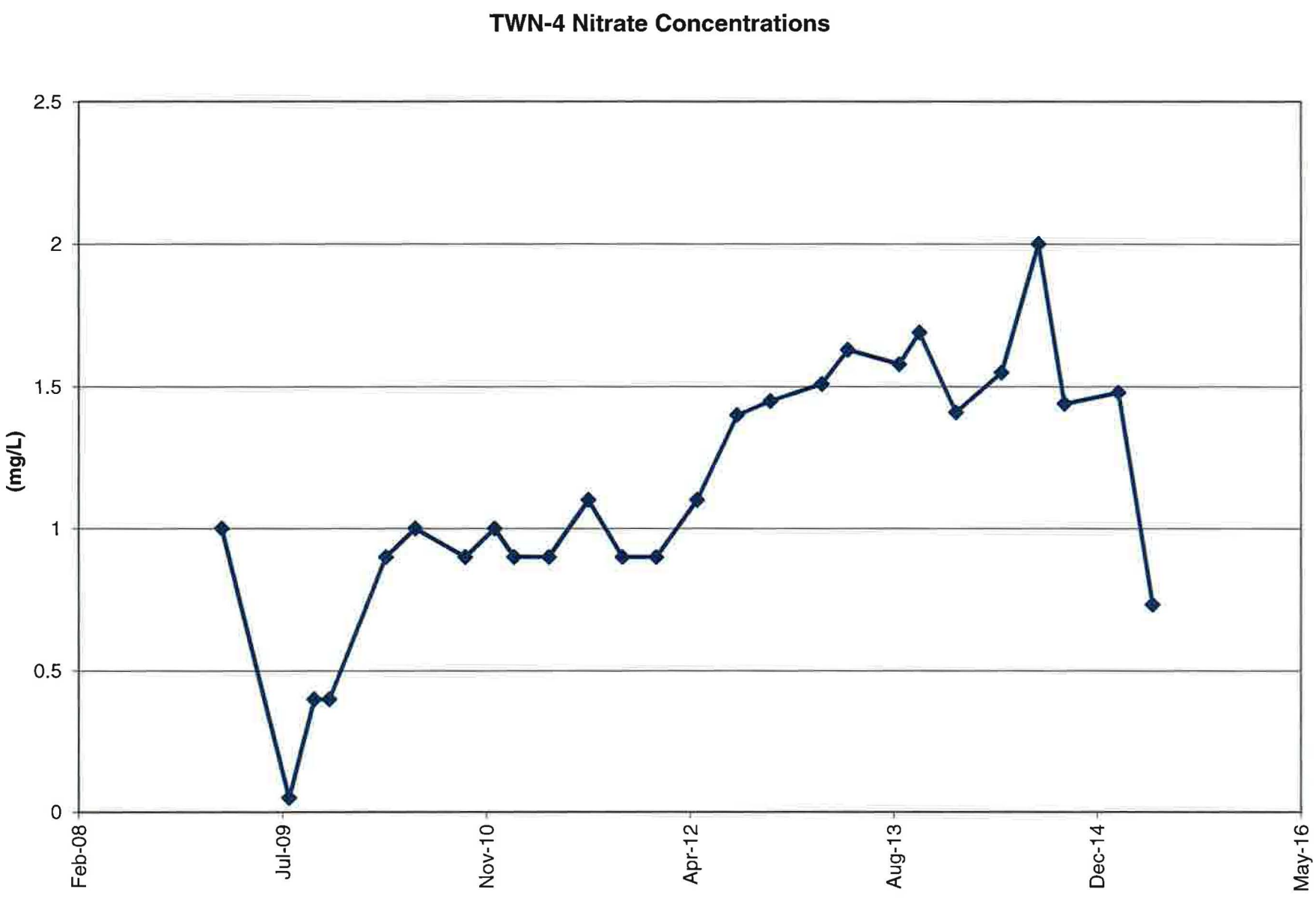
TWN-2 Chloride Concentrations

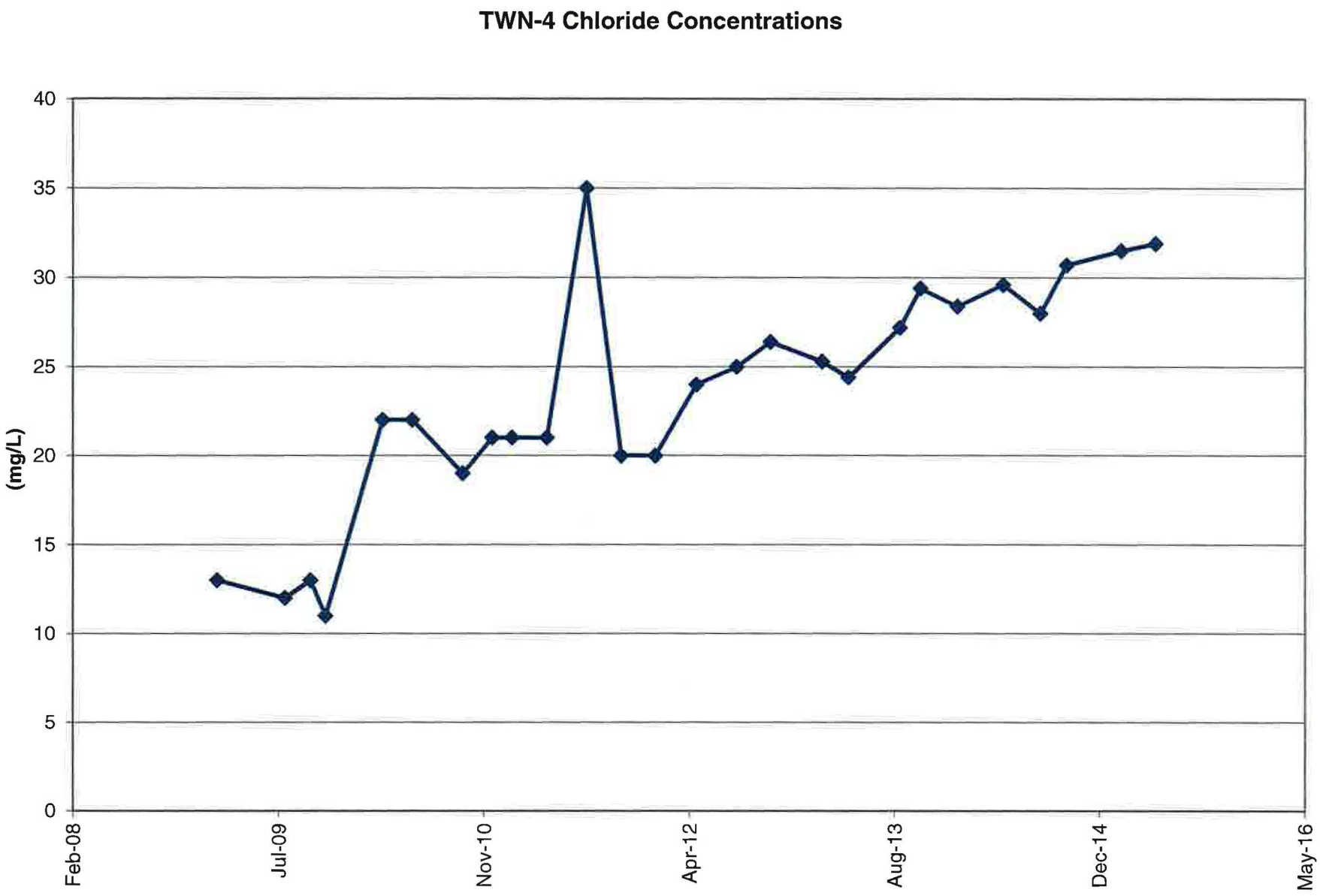


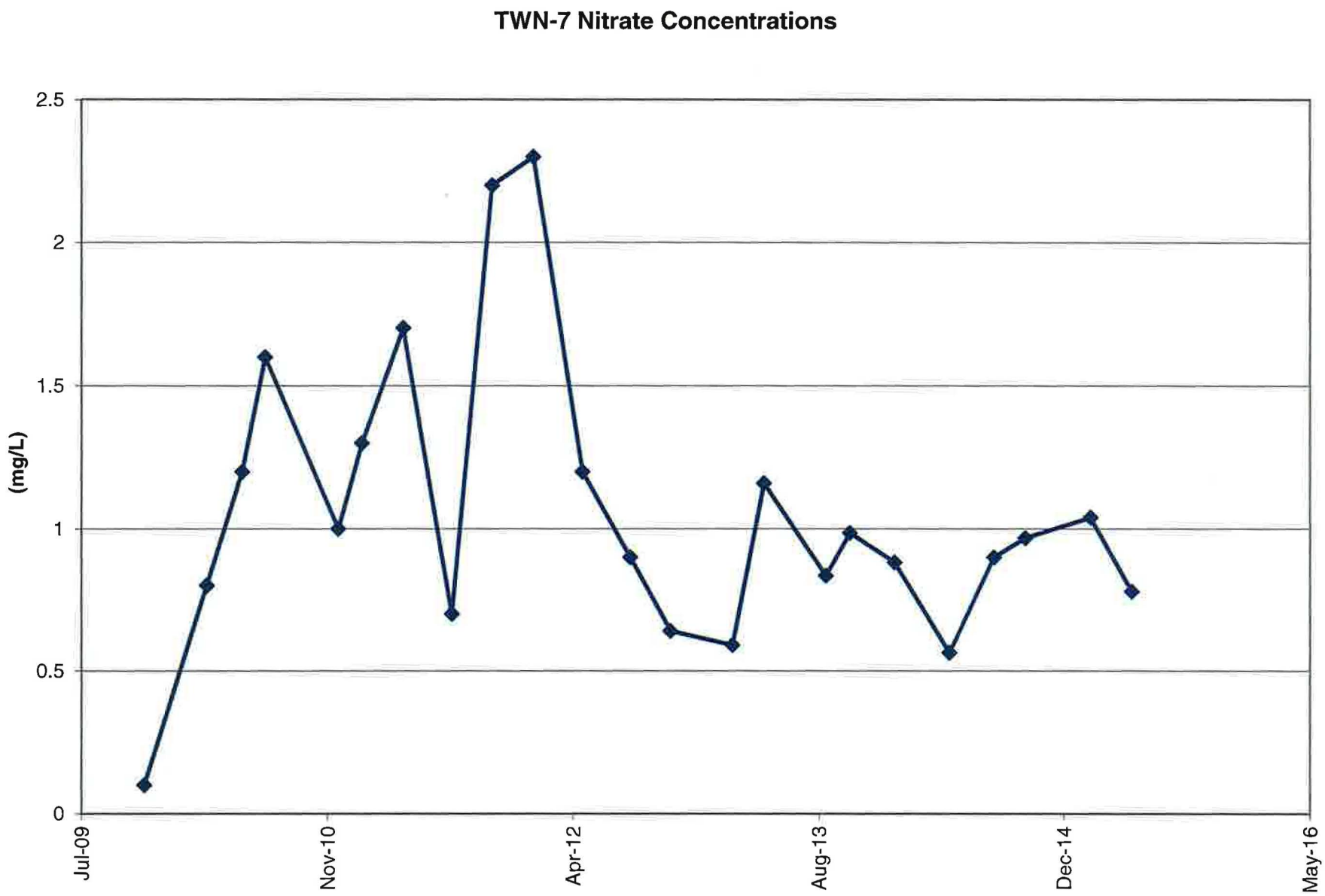
TWN-3 Nitrate Concentrations

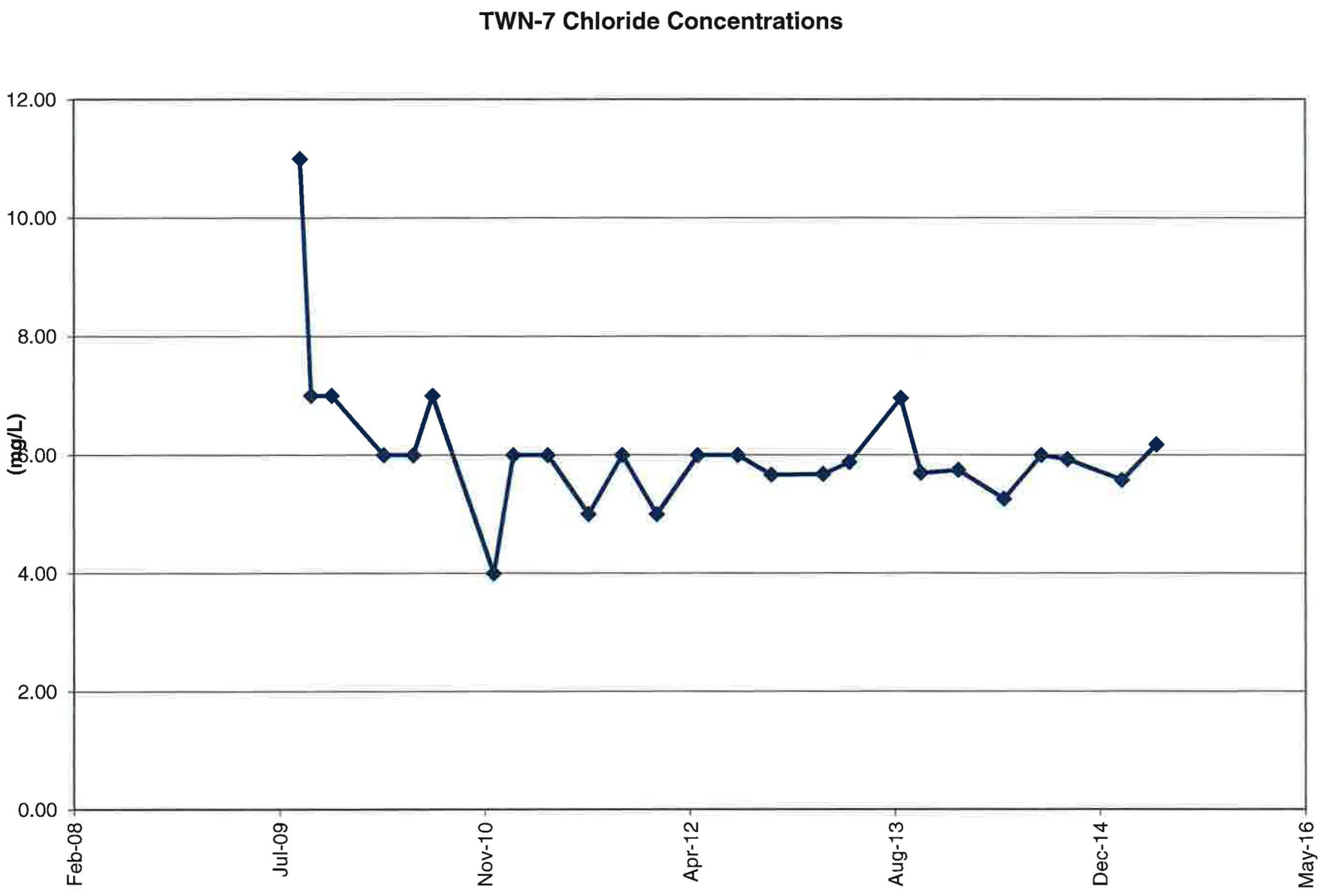


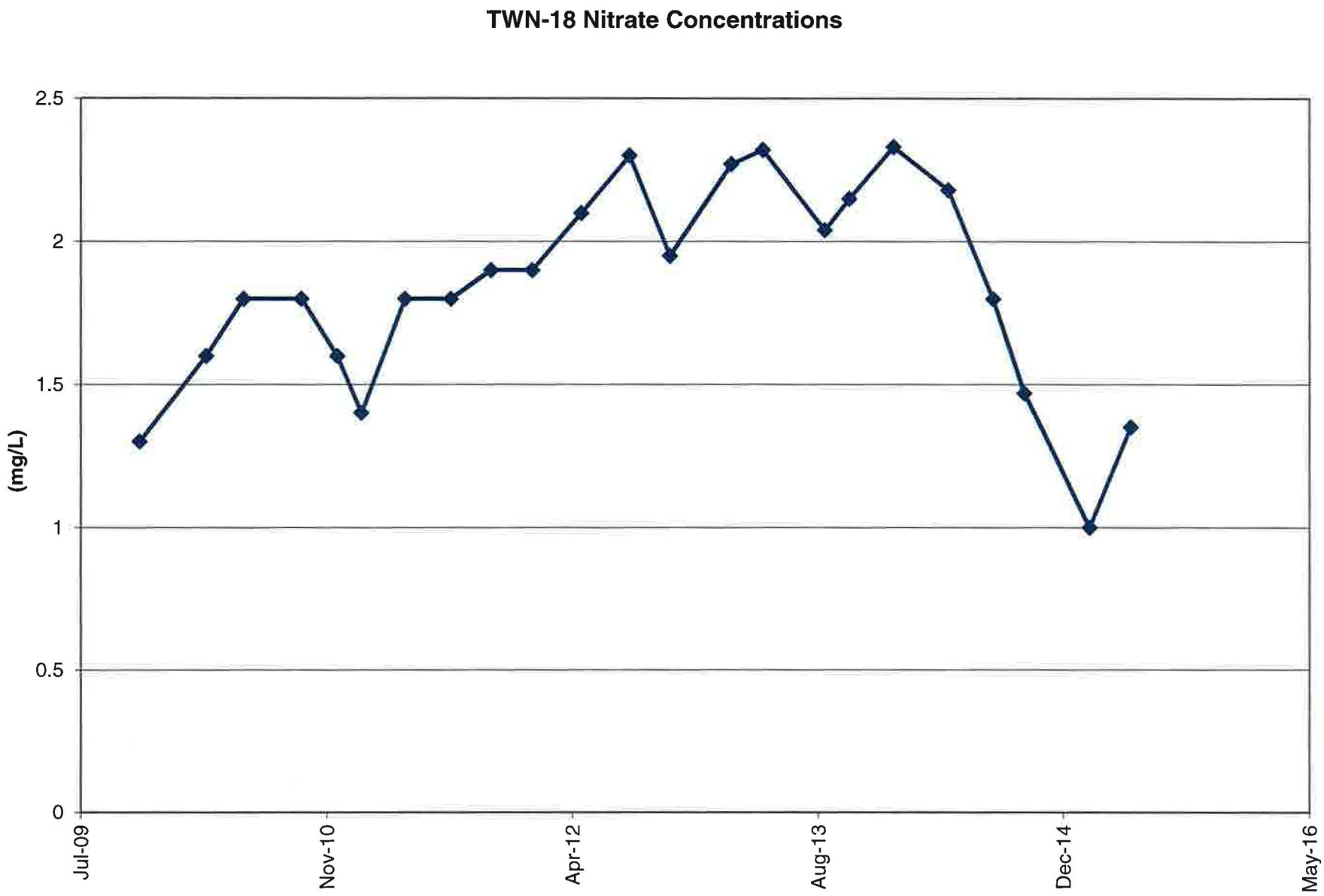

TWN-3 Chloride Concentrations
(mg/L)
200
180
160
140
120
100
80
60
40
20
0
Feb-08
Jul-09
Nov-10
Apr-12
Aug-13
Dec-14
May-16

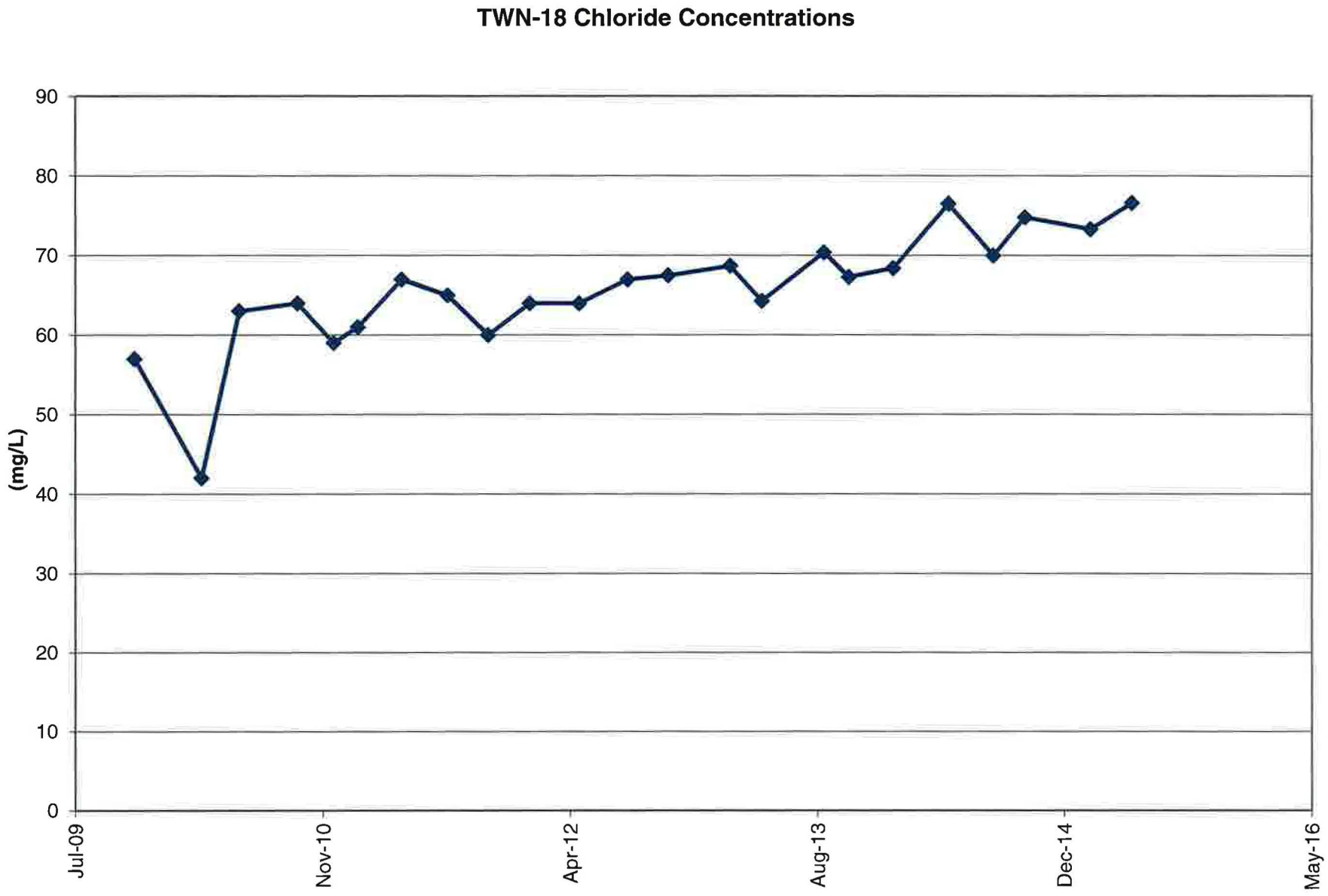

TWN-4 Nitrate Concentrations
(mg/L)
2.5
2
1.5
1
0.5
0
Feb-08
Jul-09
Nov-10
Apr-12
Aug-13
Dec-14
May-16

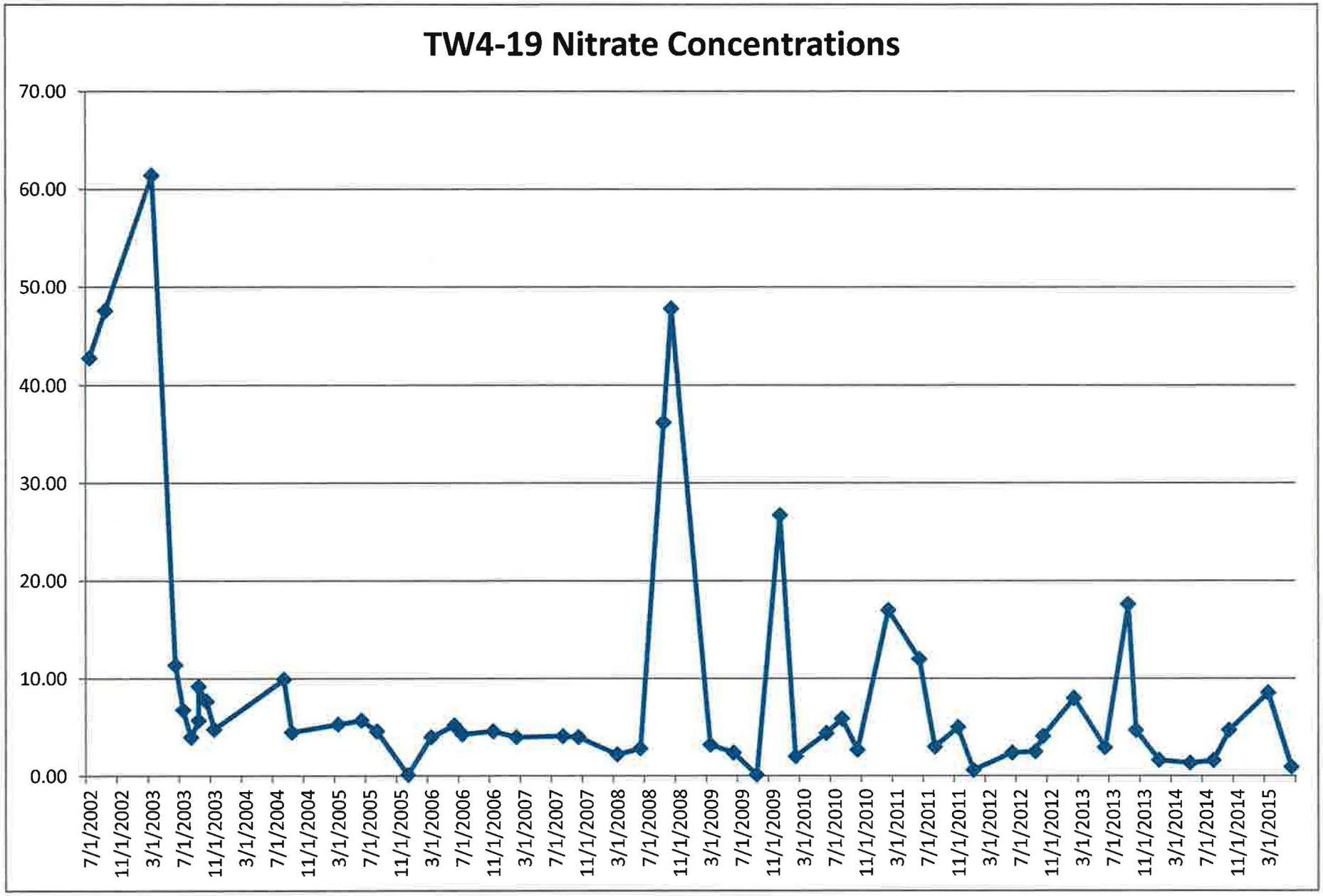

TWN-4 Chloride Concentrations
(mg/L)
40
35
30
25
20
15
10
5
0
Feb-08
Jul-09
Nov-10
Apr-12
Aug-13
Dec-14
May-16

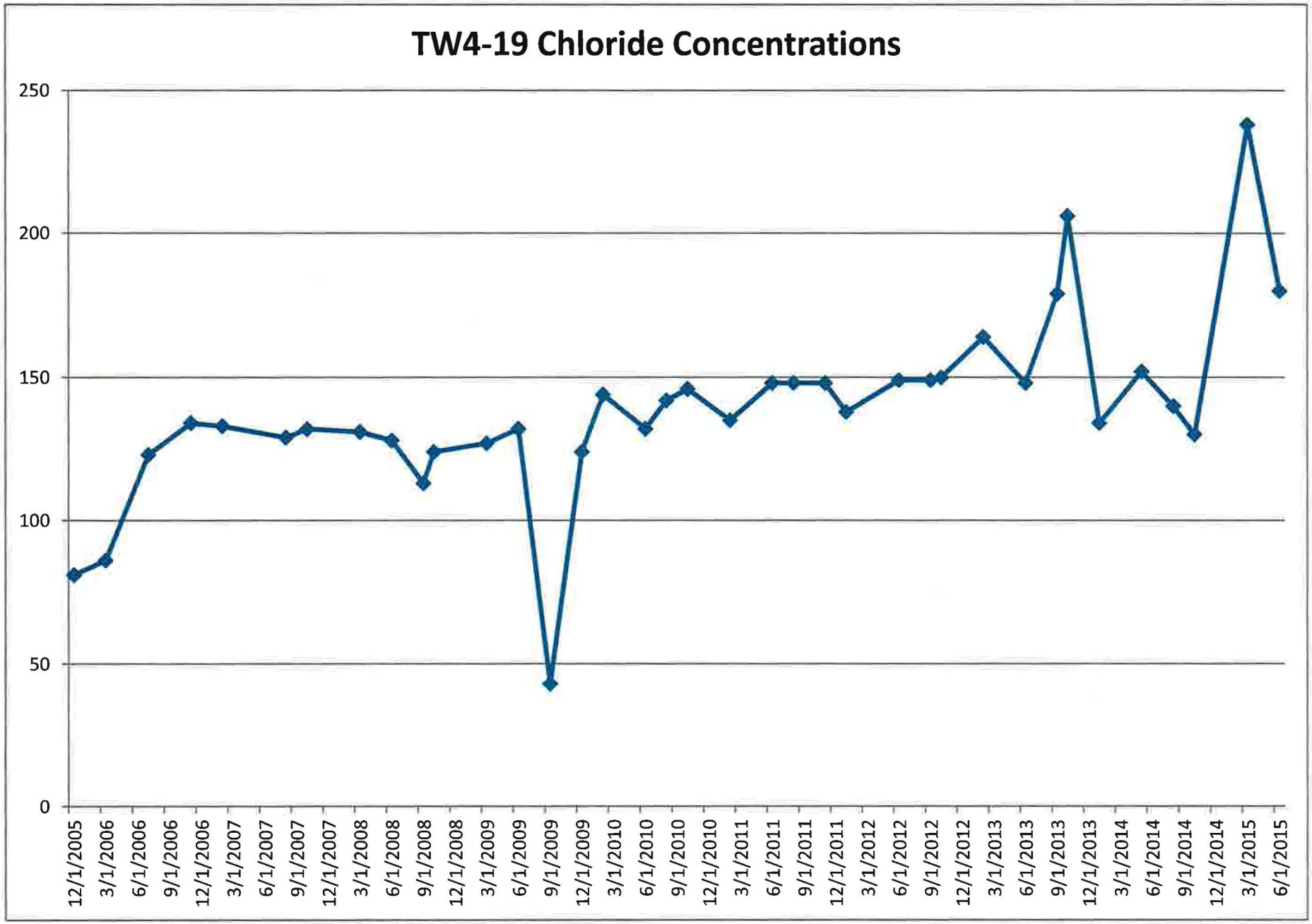

TWN-7 Nitrate Concentrations
(mg/L)
2.5
2
1.5
1
0.5
0
Jul-09
Nov-10
Apr-12
Aug-13
Dec-14
May-16

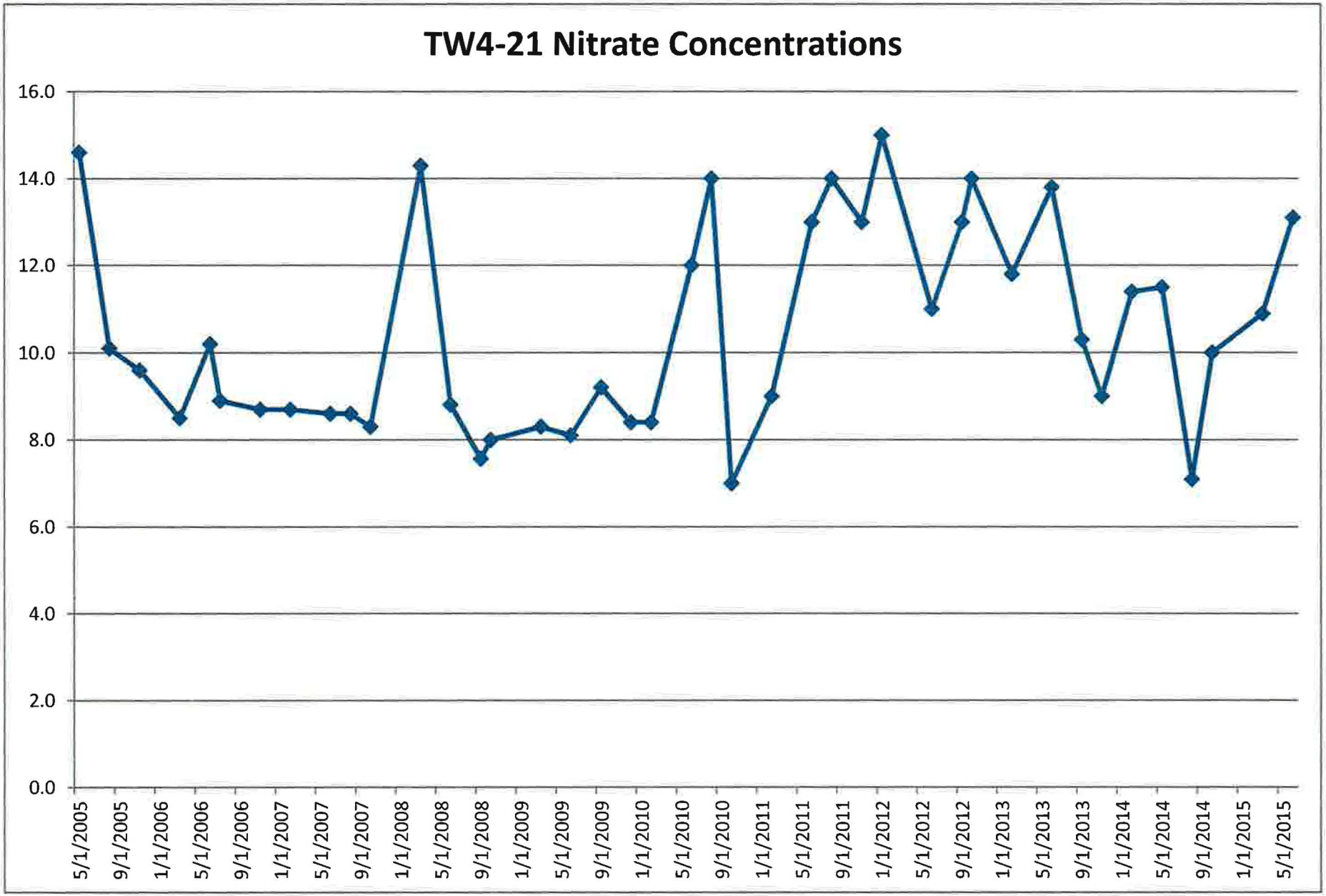

TWN-7 Chloride Concentrations
12.00
10.00
8.00
6.00
4.00
2.00
0.00
(mg/L)
Feb-08
Jul-09
Nov-10
Apr-12
Aug-13
Dec-14
May-16

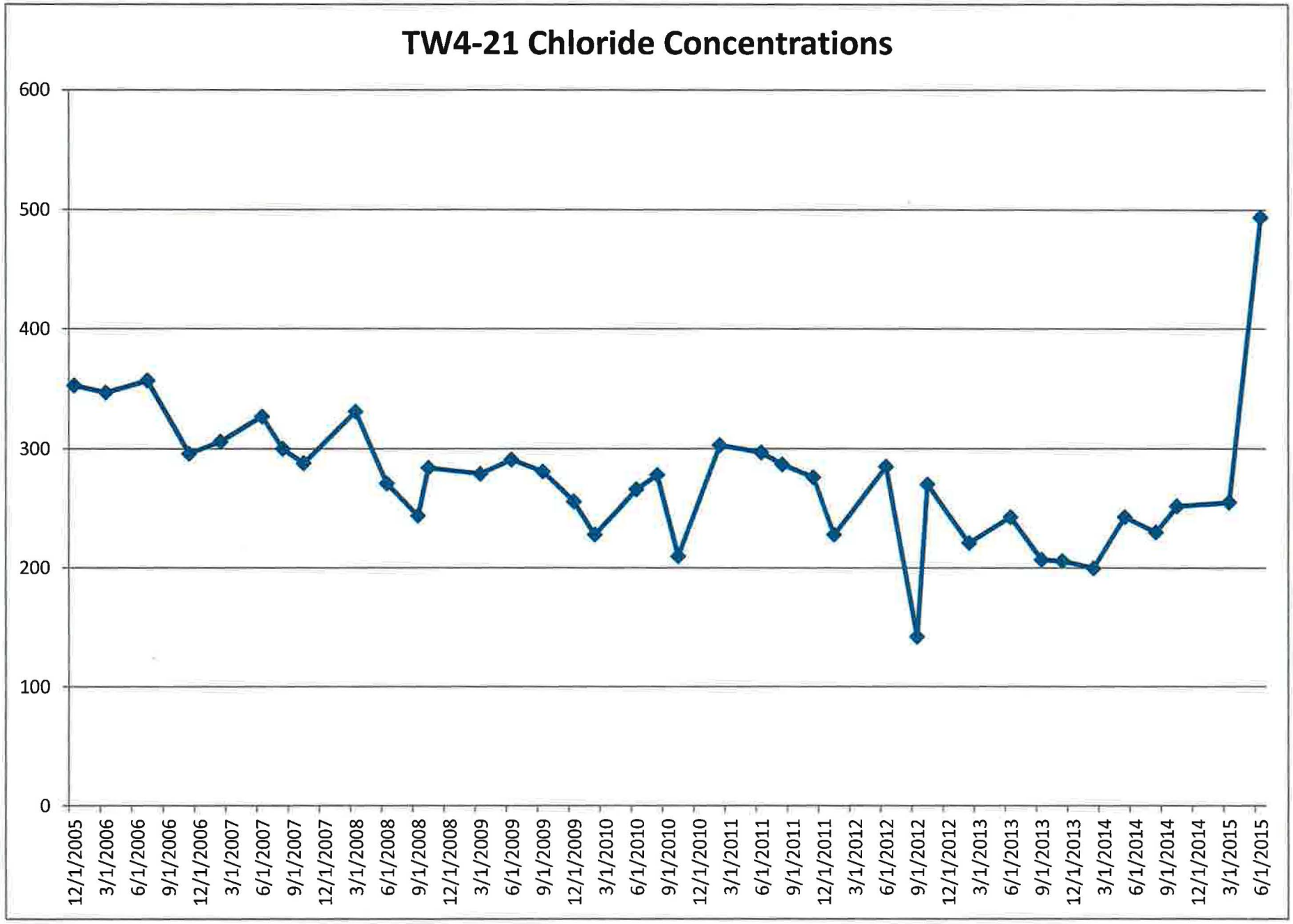

TWN-18 Nitrate Concentrations
(mg/L)
2.5
2
1.5
1
0.5
0
Jul-09
Nov-10
Apr-12
Aug-13
Dec-14
May-16


TWN-18 Chloride Concentrations
(mg/L)
90
80
70
60
50
40
30
20
10
0
Jul-09
Nov-10
Apr-12
Aug-13
Dec-14
May-16


TW4-19 Nitrate Concentrations
70.00
60.00
50.00
40.00
30.00
20.00
10.00
0.00
7/1/2002
11/1/2002
3/1/2003
7/1/2003
11/1/2003
3/1/2004
7/1/2004
11/1/2004
3/1/2005
7/1/2005
11/1/2005
3/1/2006
7/1/2006
11/1/2006
3/1/2007
7/1/2007
11/1/2007
3/1/2008
7/1/2008
11/1/2008
3/1/2009
7/1/2009
11/1/2009
3/1/2010
7/1/2010
11/1/2010
3/1/2011
7/1/2011
11/1/2011
3/1/2012
7/1/2012
11/1/2012
3/1/2013
7/1/2013
11/1/2013
3/1/2014
7/1/2014
11/1/2014
3/1/2015


TW4-19 Chloride Concentrations
250
200
150
100
50
0
12/1/2005
3/1/2006
6/1/2006
9/1/2006
12/1/2006
3/1/2007
6/1/2007
9/1/2007
12/1/2007
3/1/2008
6/1/2008
9/1/2008
12/1/2008
3/1/2009
6/1/2009
9/1/2009
12/1/2009
3/1/2010
6/1/2010
9/1/2010
12/1/2010
3/1/2011
6/1/2011
9/1/2011
12/1/2011
3/1/2012
6/1/2012
9/1/2012
12/1/2012
3/1/2013
6/1/2013
9/1/2013
12/1/2013
3/1/2014
6/1/2014
9/1/2014
12/1/2014
3/1/2015
6/1/2015


TW4-21 Nitrate Concentrations
16.0
14.0
12.0
10.0
8.0
6.0
4.0
2.0
0.0
5/1/2005
9/1/2005
1/1/2006
5/1/2006
9/1/2006
1/1/2007
5/1/2007
9/1/2007
1/1/2008
5/1/2008
9/1/2008
1/1/2009
5/1/2009
9/1/2009
1/1/2010
5/1/2010
9/1/2010
1/1/2011
5/1/2011
9/1/2011
1/1/2012
5/1/2012
9/1/2012
1/1/2013
5/1/2013
9/1/2013
1/1/2014
5/1/2014
9/1/2014
1/1/2015
5/1/2015


TW4-21 Chloride Concentrations
600
500
400
300
200
100
0
12/1/2005
3/1/2006
6/1/2006
9/1/2006
12/1/2006
3/1/2007
6/1/2007
9/1/2007
12/1/2007
3/1/2008
6/1/2008
9/1/2008
12/1/2008
3/1/2009
6/1/2009
9/1/2009
12/1/2009
3/1/2010
6/1/2010
9/1/2010
12/1/2010
3/1/2011
6/1/2011
9/1/2011
12/1/2011
3/1/2012
6/1/2012
9/1/2012
12/1/2012
3/1/2013
6/1/2013
9/1/2013
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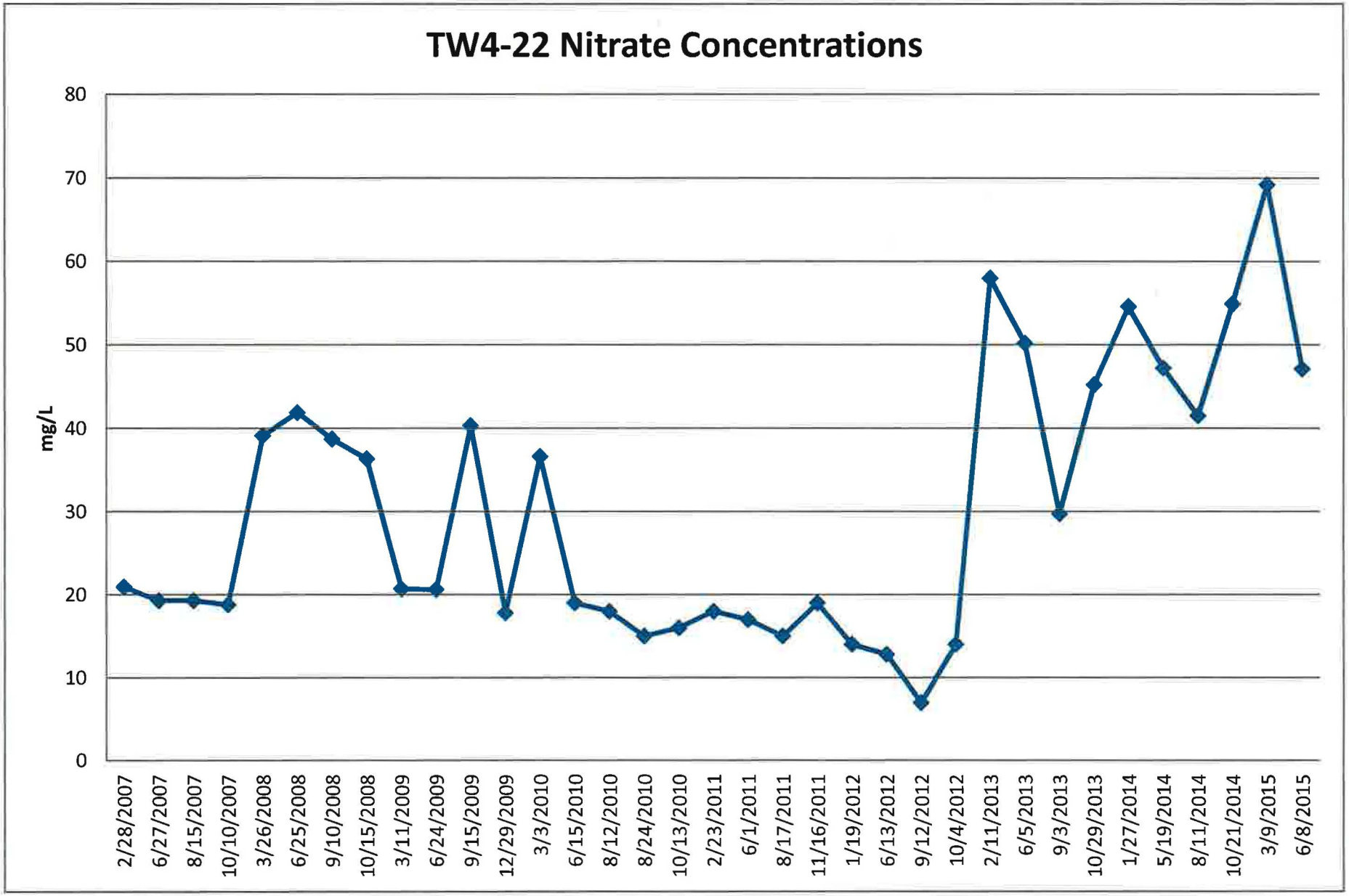
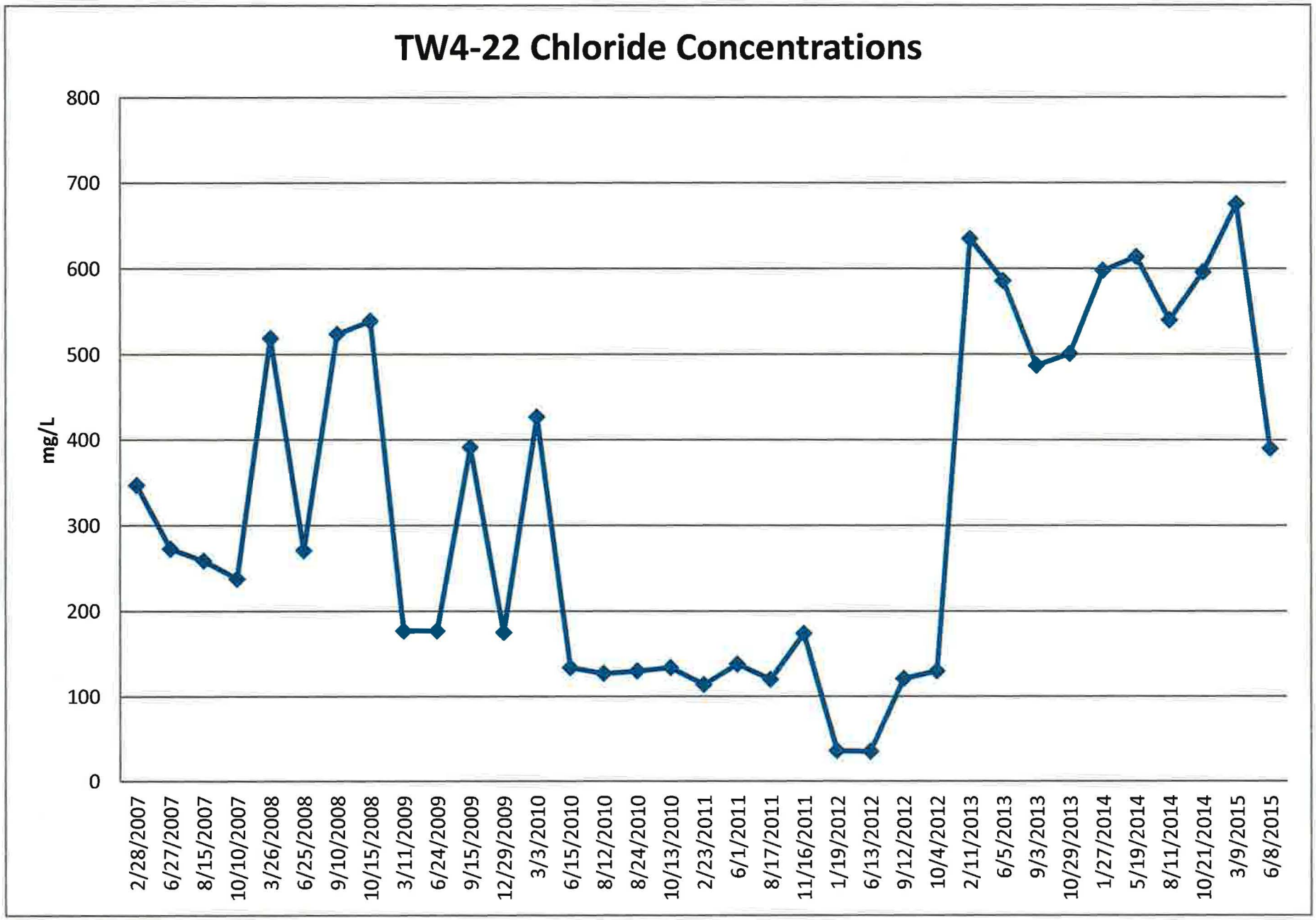
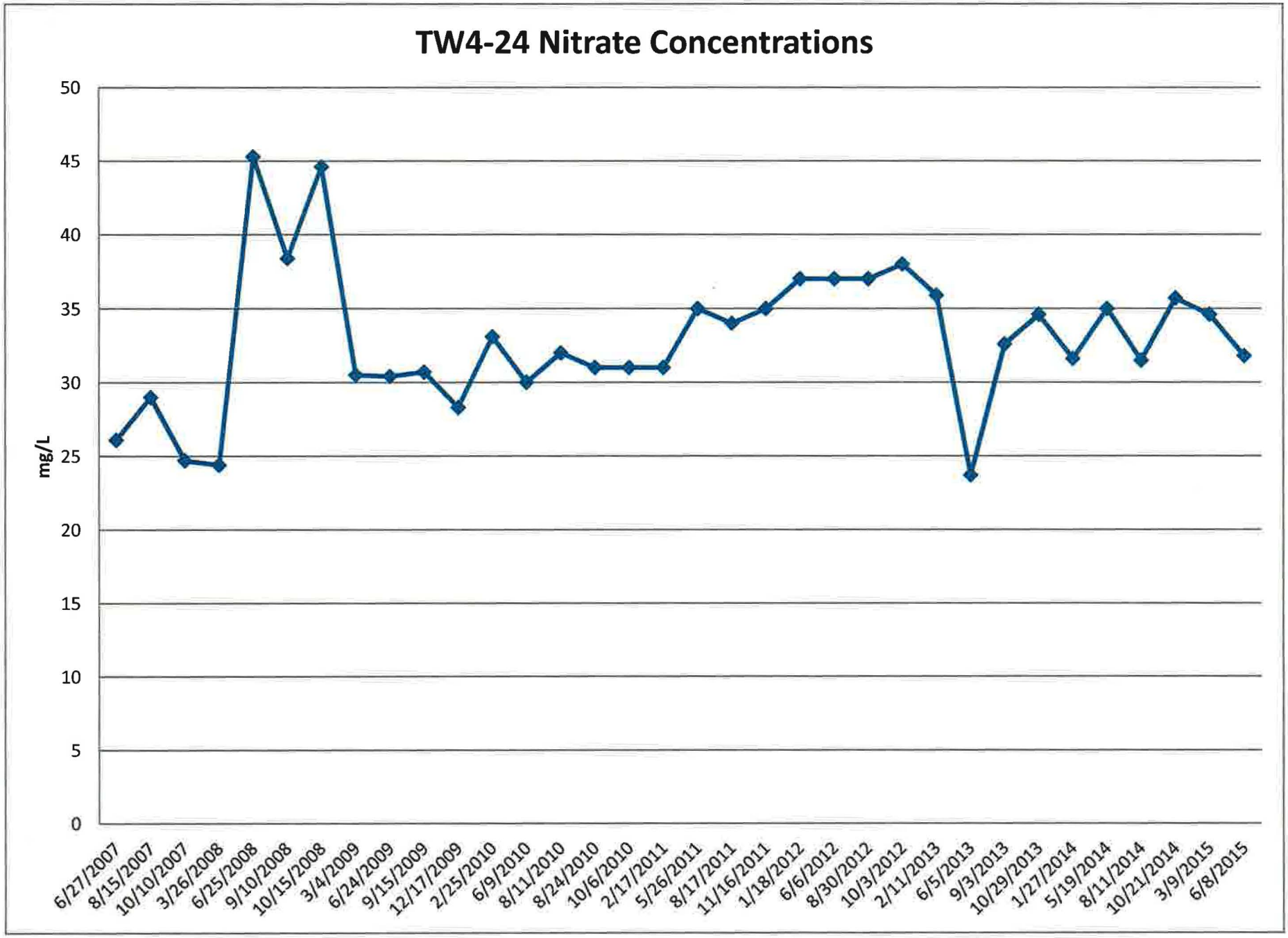
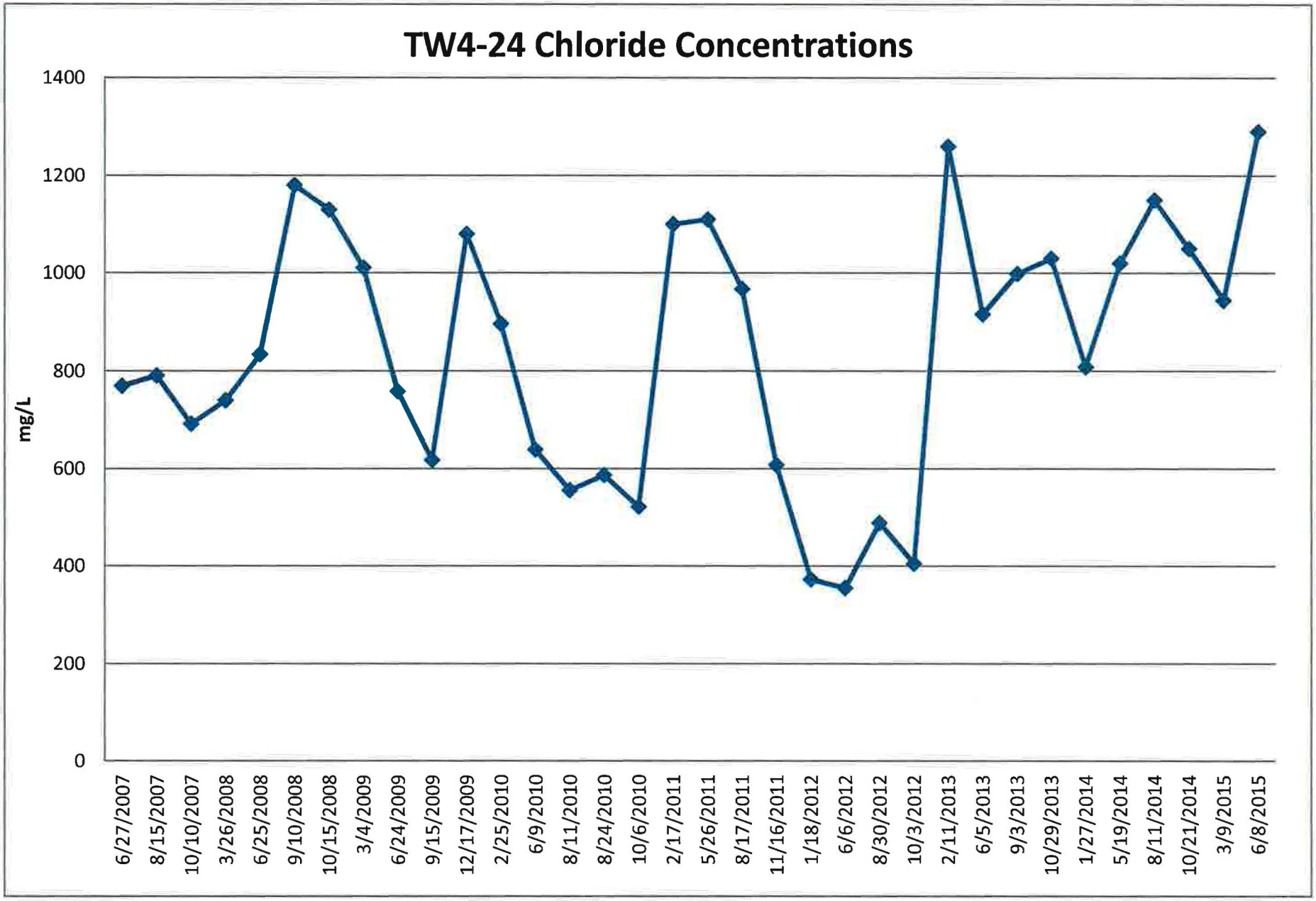
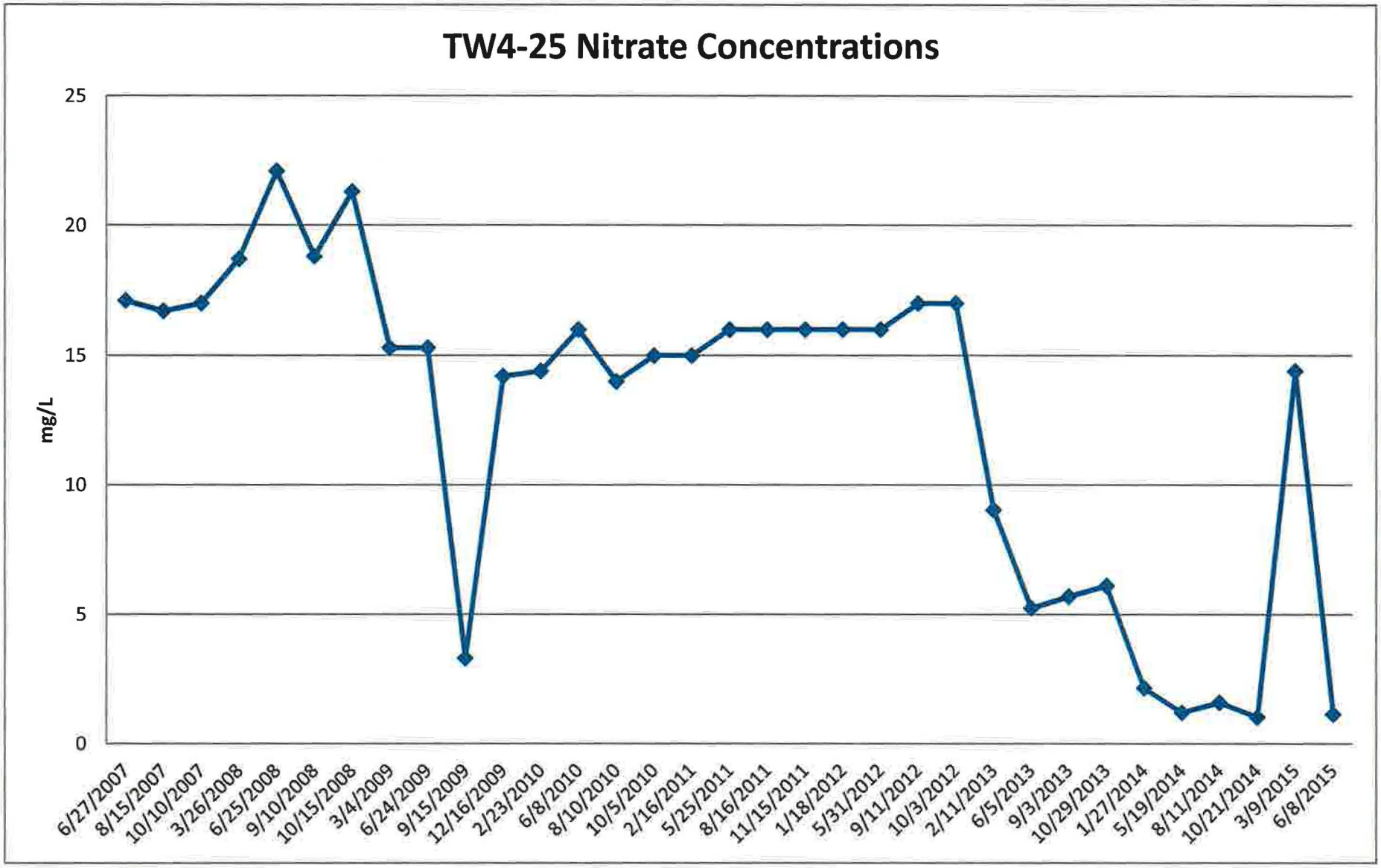
3/1/2014
6/1/2014
9/1/2014
12/1/2014
3/1/2015
6/1/2015

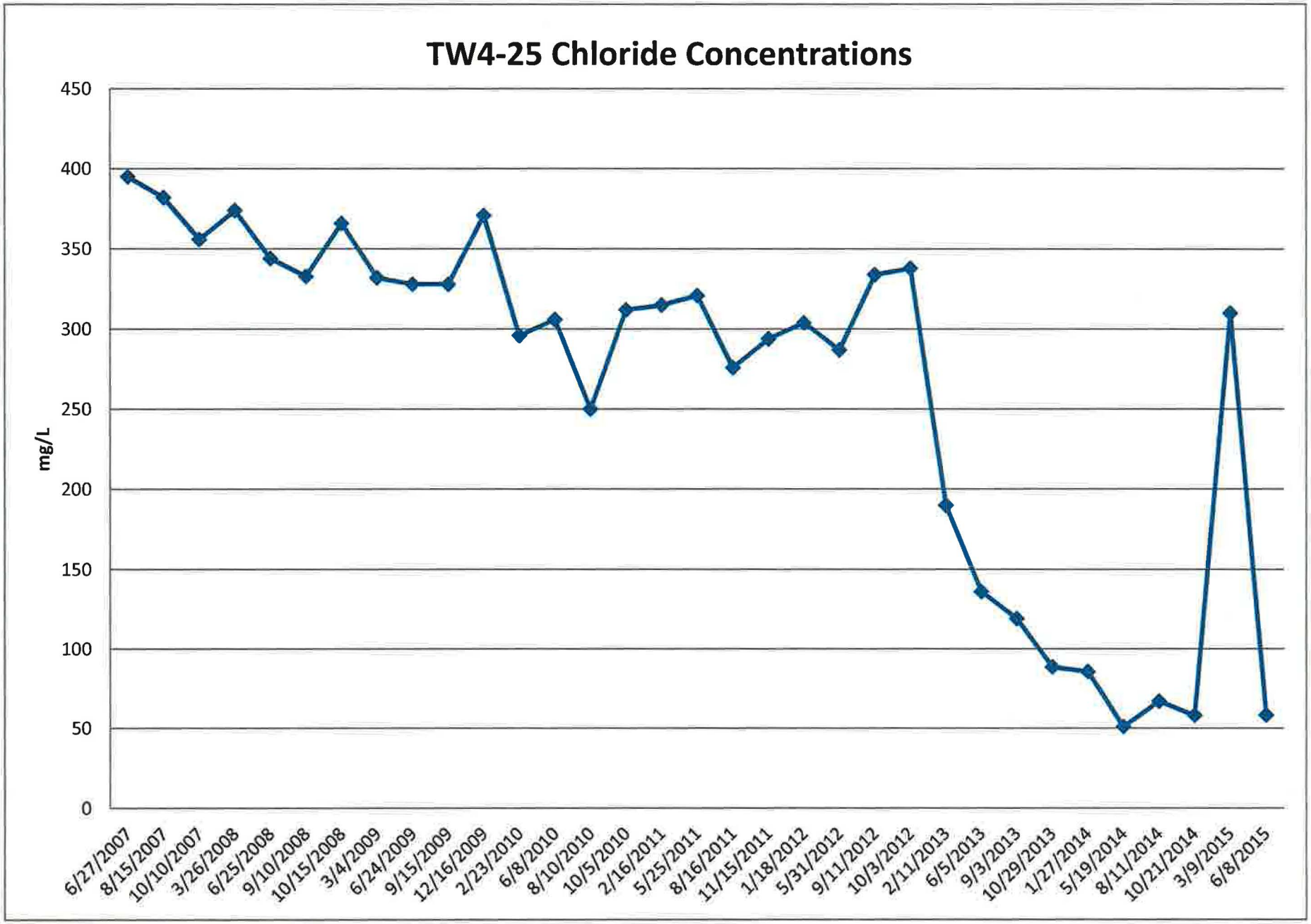

TW4-22 Nitrate Concentrations
mg/L
80
70
60
50
40
30
20
10
0
2/28/2007
6/27/2007
8/15/2007
10/10/2007
3/26/2008
6/25/2008
9/10/2008
10/15/2008
3/11/2009
6/24/2009
9/15/2009
12/29/2009
3/3/2010
6/15/2010
8/12/2010
8/24/2010
10/13/2010
2/23/2011
6/1/2011
8/17/2011
11/16/2011
1/19/2012
6/13/2012
9/12/2012
10/4/2012
2/11/2013
6/5/2013
9/3/2013
10/29/2013
1/27/2014
5/19/2014
8/11/2014
10/21/2014
3/9/2015
6/8/2015


TW4-22 Chloride Concentrations
mg/L
800
700
600
500
400
300
200
100
0
2/28/2007
6/27/2007
8/15/2007
10/10/2007
3/26/2008
6/25/2008
9/10/2008
10/15/2008
3/11/2009
6/24/2009
9/15/2009
12/29/2009
3/3/2010
6/15/2010
8/12/2010
8/24/2010
10/13/2010
2/23/2011
6/1/2011
8/17/2011
11/16/2011
1/19/2012
6/13/2012
9/12/2012
10/4/2012
2/11/2013
6/5/2013
9/3/2013
10/29/2013
1/27/2014
5/19/2014
8/11/2014
10/21/2014
3/9/2015
6/8/2015


TW4-24 Nitrate Concentrations
mg/L
50
45
40
35
30
25
20
15
10
5
0
6/27/2007
8/15/2007
10/10/2007
3/26/2008
6/25/2008
9/10/2008
10/15/2008
3/4/2009
6/24/2009
9/15/2009
12/17/2009
2/25/2010
6/9/2010
8/11/2010
8/24/2010
10/6/2010
2/17/2011
5/26/2011
8/17/2011
11/16/2011
1/18/2012
6/6/2012
8/30/2012
10/3/2012
2/11/2013
6/5/2013
9/3/2013
10/29/2013
1/27/2014
5/19/2014
8/11/2014
10/21/2014
3/9/2015
6/8/2015


TW4-24 Chloride Concentrations
mg/L
1400
1200
1000
800
600
400
200
0
6/27/2007
8/15/2007
10/10/2007
3/26/2008
6/25/2008
9/10/2008
10/15/2008
3/4/2009
6/24/2009
9/15/2009
12/17/2009
2/25/2010
6/9/2010
8/11/2010
8/24/2010
10/6/2010
2/17/2011
5/26/2011
8/17/2011
11/16/2011
1/18/2012
6/6/2012
8/30/2012
10/3/2012
2/11/2013
6/5/2013
9/3/2013
10/29/2013
1/27/2014
5/19/2014
8/11/2014
10/21/2014
3/9/2015
6/8/2015


TW4-25 Nitrate Concentrations
mg/L
25
20
15
10
5
0
6/27/2007
8/15/2007
10/10/2007
3/26/2008
6/25/2008
9/10/2008
10/15/2008
3/4/2009
6/24/2009
9/15/2009
12/16/2009
2/23/2010
6/8/2010
8/10/2010
10/5/2010
2/16/2011
5/25/2011
8/16/2011
11/15/2011
1/18/2012
5/31/2012
9/11/2012
10/3/2012
2/11/2013
6/5/2013
9/3/2013
10/29/2013
1/27/2014
5/19/2014
8/11/2014
10/21/2014
3/9/2015
6/8/2015


TW4-25 Chloride Concentrations
mg/L
450
400
350
300
250
200
150
100
50
0
6/27/2007
8/15/2007
10/10/2007
3/26/2008
6/25/2008
9/10/2008
10/15/2008
3/4/2009
6/24/2009
9/15/2009
12/16/2009
2/23/2010
6/8/2010
8/10/2010
10/5/2010
2/16/2011
5/25/2011
8/16/2011
11/15/2011
1/18/2012
5/31/2012
9/11/2012
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2/11/2013
6/5/2013
9/3/2013
10/29/2013
1/27/2014
5/19/2014
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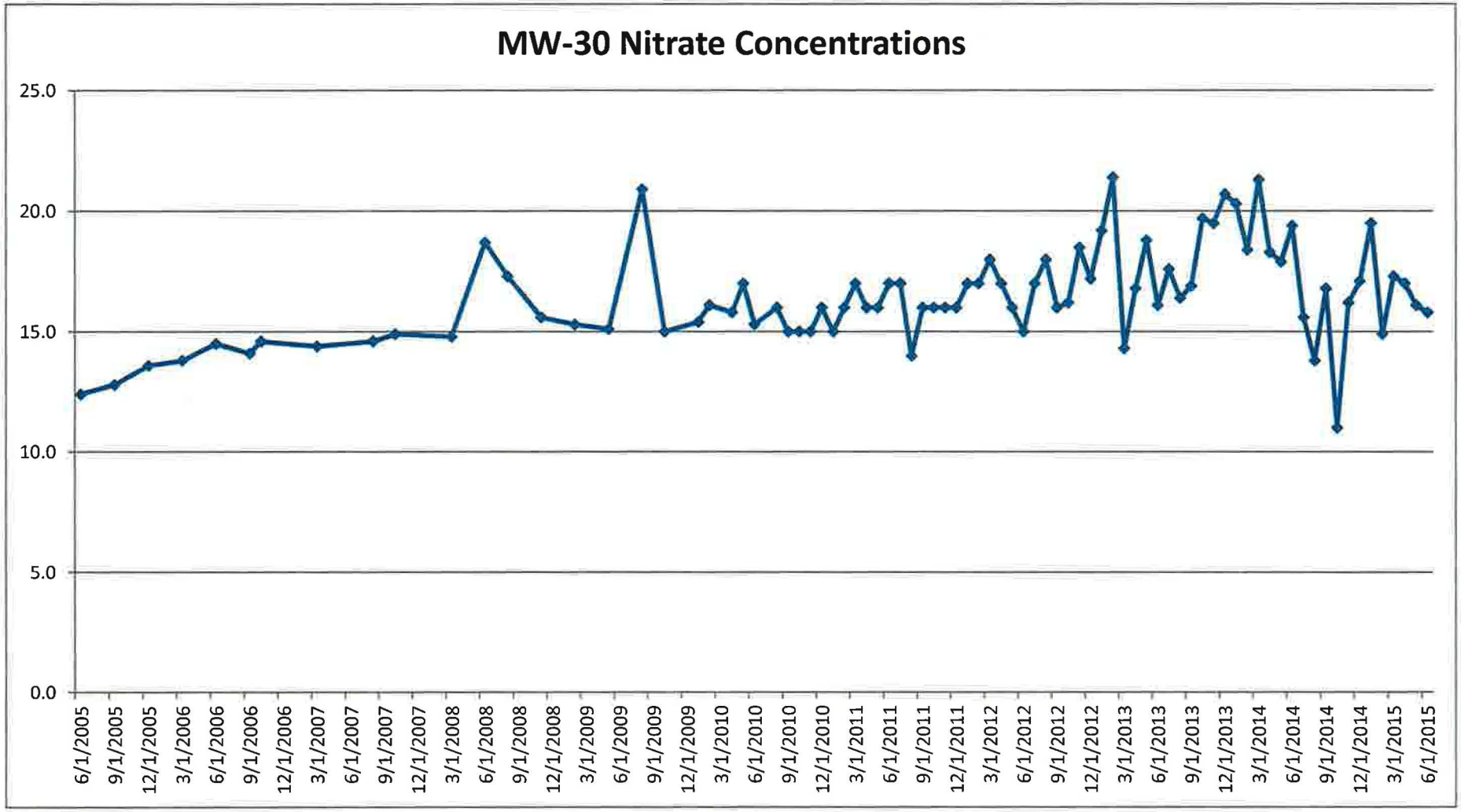
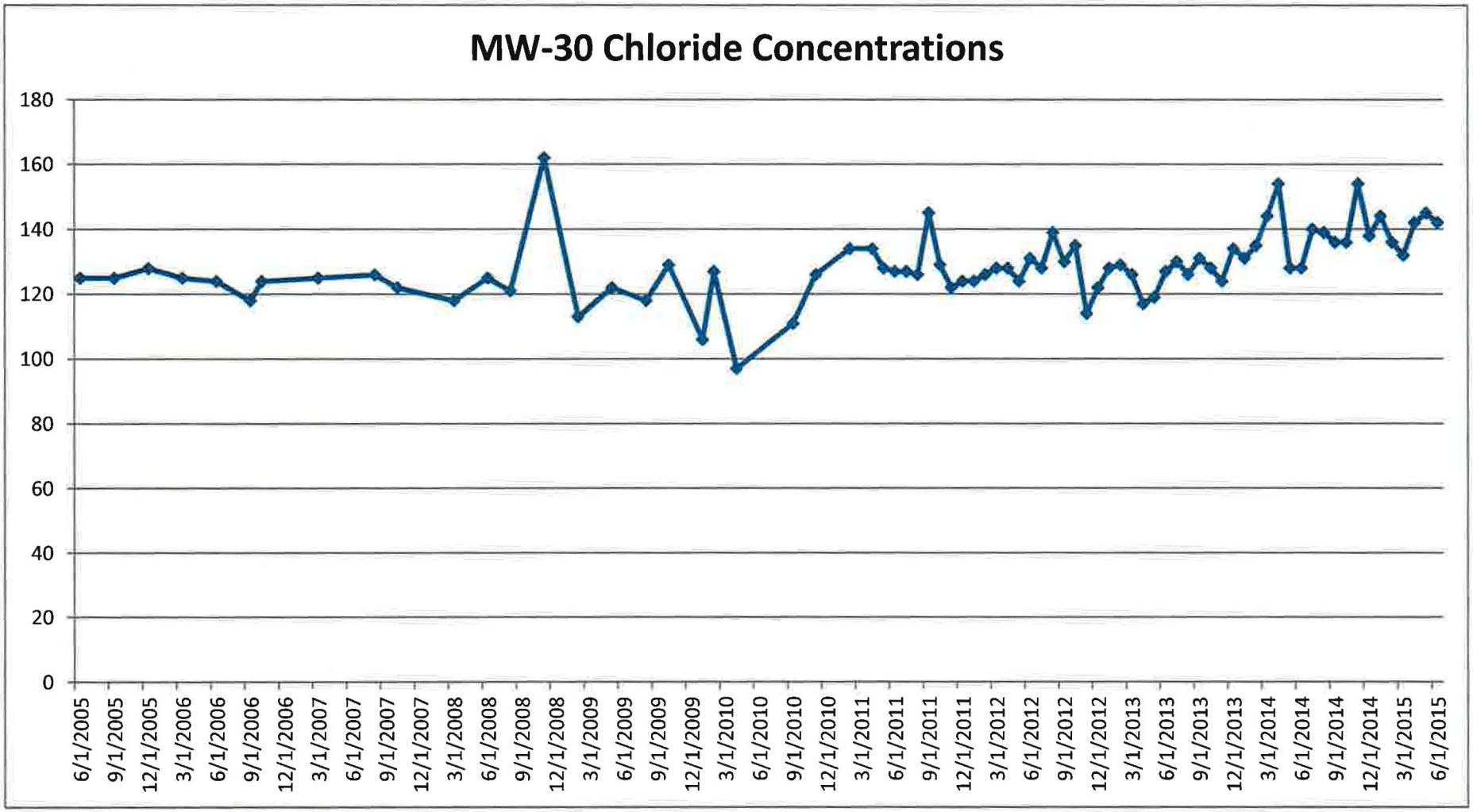

MW-30 Nitrate Concentrations
25.0
20.0
15.0
10.0
5.0
0.0
6/1/2005
9/1/2005
12/1/2005
3/1/2006
6/1/2006
9/1/2006
12/1/2006
3/1/2007
6/1/2007
9/1/2007
12/1/2007
3/1/2008
6/1/2008
9/1/2008
12/1/2008
3/1/2009
6/1/2009
9/1/2009
12/1/2009
3/1/2010
6/1/2010
9/1/2010
12/1/2010
3/1/2011
6/1/2011
9/1/2011
12/1/2011
3/1/2012
6/1/2012
9/1/2012
12/1/2012
3/1/2013
6/1/2013
9/1/2013
12/1/2013
3/1/2014
6/1/2014
9/1/2014
12/1/2014
3/1/2015
6/1/2015


MW-30 Chloride Concentrations
180
160
140
120
100
80
60
40
20
0
6/1/2005
9/1/2005
12/1/2005
3/1/2006
6/1/2006
9/1/2006
12/1/2006
3/1/2007
6/1/2007
9/1/2007
12/1/2007
3/1/2008
6/1/2008
9/1/2008
12/1/2008
3/1/2009
6/1/2009
9/1/2009
12/1/2009
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12/1/2010
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12/1/2011
3/1/2012
6/1/2012
9/1/2012
12/1/2012
3/1/2013
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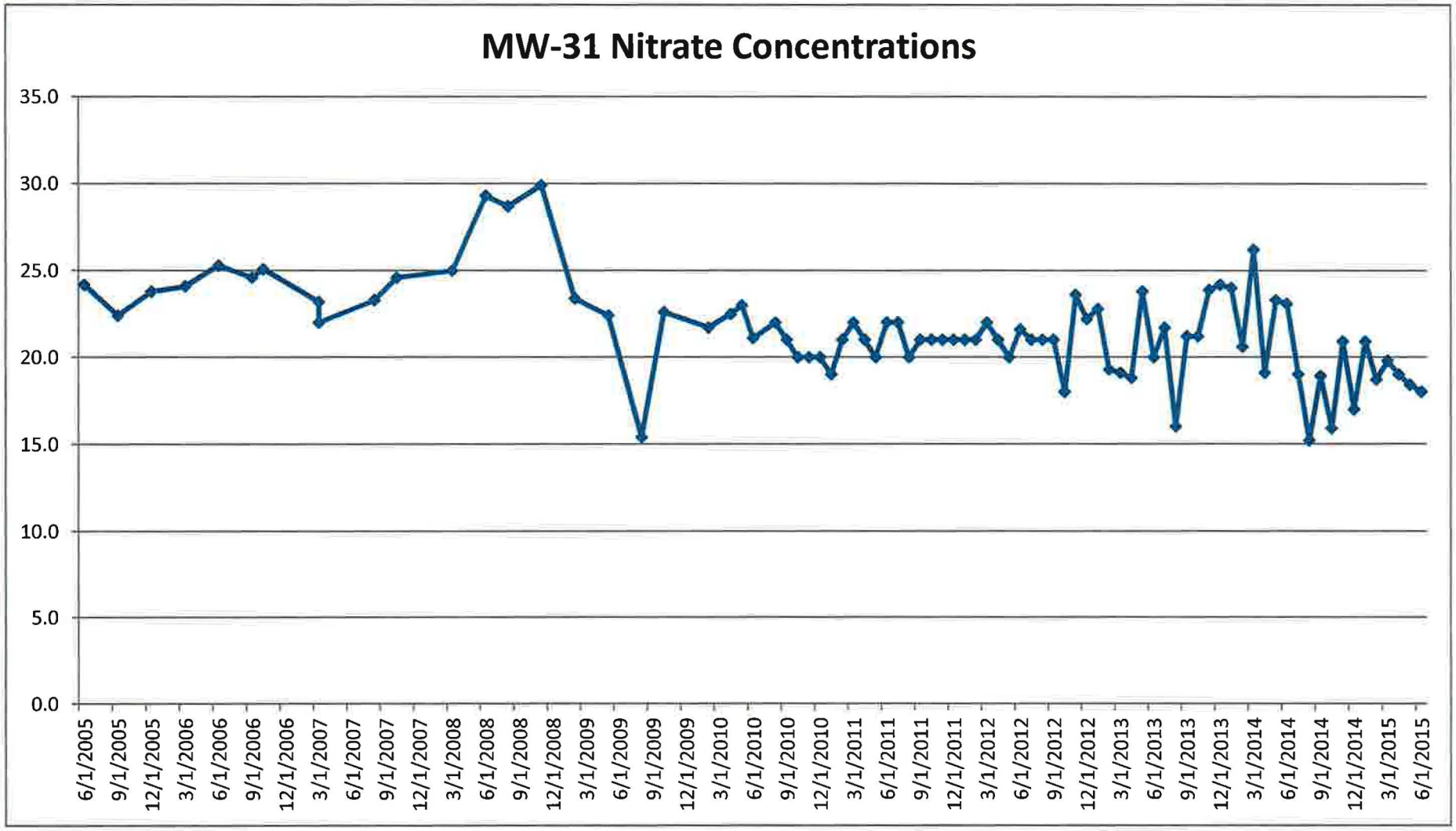
6/1/2015


MW-31 Nitrate Concentrations
35.0
30.0
25.0
20.0
15.0
10.0
5.0
0.0
6/1/2005
9/1/2005
12/1/2005
3/1/2006
6/1/2006
9/1/2006
12/1/2006
3/1/2007
6/1/2007
9/1/2007
12/1/2007
3/1/2008
6/1/2008
9/1/2008
12/1/2008
3/1/2009
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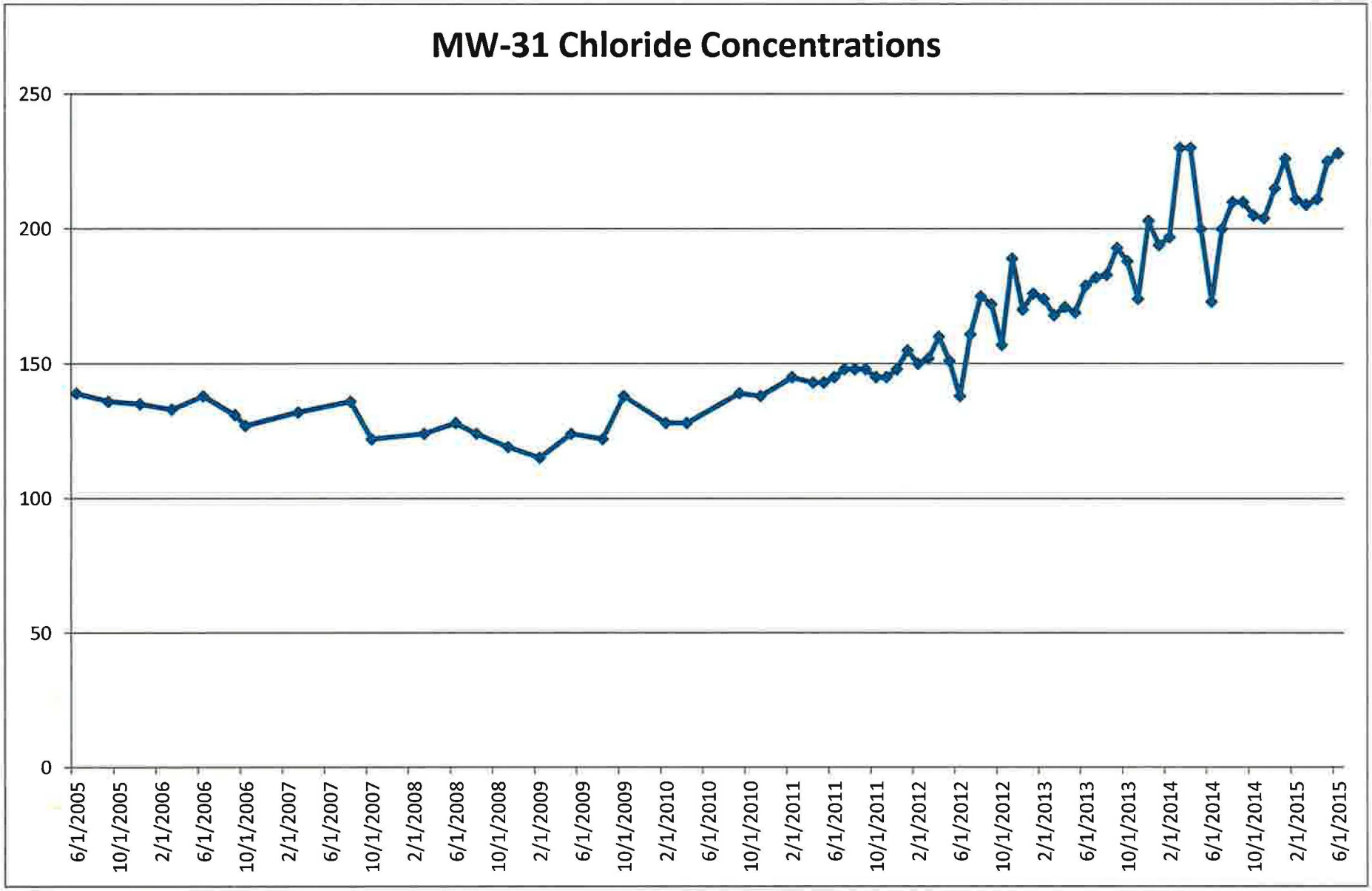
6/1/2015


MW-31 Chloride Concentrations
250
200
150
100
50
0
6/1/2005
10/1/2005
2/1/2006
6/1/2006
10/1/2006
2/1/2007
6/1/2007
10/1/2007
2/1/2008
6/1/2008
10/1/2008
2/1/2009
6/1/2009
10/1/2009
2/1/2010
6/1/2010
10/1/2010
2/1/2011
6/1/2011
10/1/2011
2/1/2012
6/1/2012
10/1/2012
2/1/2013
6/1/2013
10/1/2013
2/1/2014
6/1/2014
10/1/2014
2/1/2015
6/1/2015

Tab L

CSV Transmittal Letter

Kathy Weinel

From: Kathy Weinel
Sent: Wednesday, August 26, 2015 7:31 AM
To: 'Phillip Goble'
Cc: 'Dean Henderson'; Harold Roberts; David Frydenlund; Jaime Massey; David Turk; Scott Bakken; Dan Hillsten; Logan Shumway
Subject: Transmittal of CSV Files White Mesa Mill 2015 Q2 Nitrate Monitoring
Attachments: 1505271-EDD.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 second quarter of 2015, 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

Energy Fuels Resources (USA) Inc.

Kathy Weinel
Quality Assurance Manager

t: 303.389.4134 | f: 303.389.4125
225 Union Blvd., Suite 600
Lakewood, CO 80228

http://www.energyfuels.com

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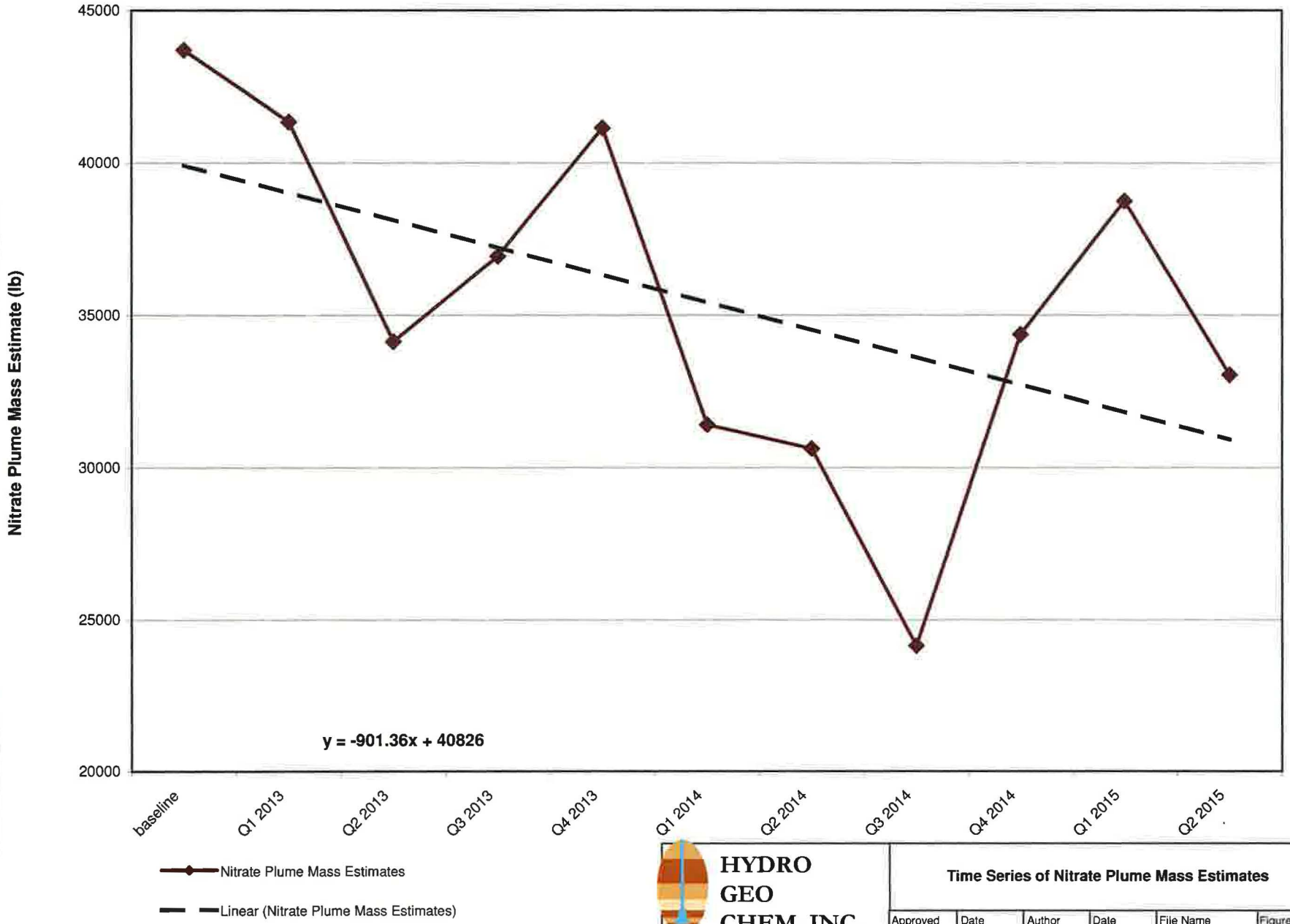
Tab M Residual Mass Estimate Analysis Figures and Tables

Tab M – Figures



HYDRO GEO CHEM, INC.

Time Series of Nitrate Plume Mass Estimates

Approved	Date	Author	Date	File Name	Figure
		GEM	7/21/15	Nmasstrend0615.xls	M.1

H:\718000\aug15\Nitrate\masscalc\Nmtrend0615.xls: 8x11 LS Color

Tab M - Tables

The Residual Mass Estimate Analysis Tables are updated annually and included in the fourth quarter report. This tab has been intentionally left blank.