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February 25, 2013

Sent VIA OVERNIGHT DELIVERY

Mr. Rusty Lundberg
Division of Radiation Control
Utah Department of Environmental Quality
195 North 1950 West
P.O. Box 144850
Salt Lake City, UT 84114-4820

**Re: Transmittal of 4th Quarter 2012 Nitrate Monitoring Report
UDEQ Docket No. UGW-09-03 White Mesa Uranium Mill**

Dear Mr. Lundberg:

Enclosed are two copies of the White Mesa Uranium Mill Nitrate Monitoring Report for the 4th Quarter of 2012 as required by the January 2009 Stipulated Consent Agreement, UDEQ Docket No. UGW-09-03, 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,

A handwritten signature in blue ink that reads 'Jo Ann Tischler'.

ENERGY FUELS RESOURCES (USA) INC.
Jo Ann Tischler
Director, Compliance

CC: David C. Frydenlund
Harold R. Roberts
David E. Turk
Katherine A. Weinl
Central Files

White Mesa Uranium Mill

Nitrate Monitoring Report

**State of Utah
Stipulated Consent Agreement, January 2009
Docket No. UGW09-03**

**4th Quarter
(October through December)
2012**

Prepared by:

Energy Fuels Resources (USA) Inc.
225 Union Boulevard, Suite 600
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February 25, 2013

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1.0 INTRODUCTION

The Utah Department of Environmental Quality (“UDEQ”) 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 (the “Consent Agreement”) with the Utah Water Quality Board in January 2009 which directed the preparation of a Nitrate Contamination Investigation Report (“CIR”) and Quarterly Nitrate Monitoring Reports. A subsequent letter dated December 1, 2009, among other things, recommended that EFRI also address elevated chloride concentration in the Nitrate Monitoring Reports. The Consent Agreement (“CA”) was amended in August 2011. Under the amended Consent Agreement, 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, DRC 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.

This is the Quarterly Nitrate Monitoring Report, as required under the Consent Agreement, State of UDEQ Docket No. UGW-09-03 for the fourth quarter of 2012. This report meets the requirements of Consent Agreement, State of UDEQ Docket No. UGW-09-03 and is the document which covered nitrate monitoring activities during this monitoring period.

Based on the schedule included in the CAP and as delineated and approved by the SCO, all activities associated with the implementation of the CAP began in January, 2013. Because none of the CAP requirements have been implemented in the 4th quarter 2012, and as agreed to in telephone conversations with DRC on January 14, 2013, this 4th quarter 2012 report is not required to include any of the additional reporting requirements specified in the CAP or SCO. The additional reporting requirements specified in the CAP and SCO will be included in the quarterly nitrate reports beginning with the report for the 1st quarter of 2013 which will be submitted on or before June 1, 2013.

2.0 GROUNDWATER NITRATE MONITORING

2.1 Samples and Measurements Taken During the Quarter

A map showing the location of all groundwater monitoring wells, piezometers, existing wells, temporary chloroform contaminant investigation wells and temporary nitrate investigation wells is attached under Tab A. Nitrate samples and measurements taken during this reporting period are discussed in the remainder of this section.

2.1.1 Nitrate Monitoring

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

TWN-1	TWN-8	TWN-15	Piezometer 3
TWN-2	TWN-9	TWN-16	
TWN-3	TWN-10	TWN-17	
TWN-4	TWN-11	TWN-18	
TWN-5	TWN-12	TWN-19	
TWN-6	TWN-13	Piezometer 1	
TWN-7	TWN-14	Piezometer 2	

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 all of the nitrate monitoring wells, and Piezometers 1, 2, and 3. Analytical data for all of the nitrate 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 Revision 7.2 of the QAP 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 (the "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 which were installed during the Southwest Hydrogeologic Investigation.
- Nitrate monitoring wells.
- 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.

2.2 Sampling Methodology and Equipment and Decontamination Procedures

The QAP, Revision 7.2, dated June 6, 2012 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 non-detect wells and then move to the more contaminated wells in order of nitrate contamination, starting with the wells having the lowest 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 Revision 7.2 of 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% 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-detect) 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, Revision 7.2 dated June 6, 2012.

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.

Piezometers

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 contaminant investigation monitoring wells, and piezometers identified in Section 2.1.1 above, and Table 1.

2.4 Depth to Groundwater Data and Water Table Contour Map

Depth-to-groundwater measurements which 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

All 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.

Results from analysis of samples collected for this quarter's nitrate investigation 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 Consent Agreement 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. Pursuant to the Consent Agreement, the most recent version of the CAP was submitted to the Director of the Division of 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 continued monitoring consistent with the program described in the initial Nitrate Contamination Investigation Report submitted in 2009. The monitoring program and reporting requirements set forth in the 2009 Contamination Investigation report will remain in effect until implementation of the CAP commences in January 2013. Pursuant to telephone conversations with DRC on January 14, 2013, the monitoring and reporting requirements specified in the CAP and SCO will be included in the quarterly nitrate reports beginning with the report for the 1st quarter of 2013 which will be submitted on or before June 1, 2013.

3.0 QUALITY ASSURANCE AND DATA VALIDATION

The Mill QA Manager performed a QA/QC review to confirm compliance of the monitoring program with requirements of the QAP. As required in the QAP, data QA includes preparation and analysis of QC samples in the field, review of field procedures, an analyte completeness review, and QC review of laboratory 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 (“NELAC”) certification and reporting protocol. The Analytical Laboratory QA/QC Summary Reports, including copies of the Mill’s Chain of Custody and Analytical Request Record forms for each set of Analytical Results, follow the analytical results under Tab G. Results of 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, one DI Field Blank (“DIFB”) and equipment rinsate samples.

During the quarter, two duplicate samples were collected as indicated in Table 1. The duplicates were sent blind to the analytical laboratory and analyzed for the same parameters as the nitrate wells.

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

3.2 Adherence to Mill Sampling SOPs

On a review of adherence by Mill personnel to the existing sampling SOPs, the QA Manager observed that QA/QC requirements established in the QAP were being adhered to and that the SOPs were implemented, except as noted below.

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, all wells conformed to the QAP purging and field measurement requirements. A summary of the purging techniques employed and field measurements taken is described below:

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

Wells TWN-01, TWN-04, TWN-05, TWN-06, TWN-08, TWN-11, TWN-12, TWN-13, TWN-16, TWN-18, and TWN-19 were sampled after two casing volumes were removed. Field parameters pH, specific conductivity, turbidity, water temperature, and redox potential were measured during purging. All field parameters for this requirement were stable within 10% RPD.

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

Wells TWN-02, TWN-03, TWN-07, TWN-09, TWN-10, TWN-14, TWN-15, and TWN-17 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, Revision 7.2. It is important to note that redox potential and turbidity were measured as well during purging and sampling. These parameters were not within 10% RPD; however, these parameters are not required to be measured or to be within 10% RPD per the approved QAP, Revision 7.2. Data from measurement of these parameters has been provided for information purposes only.

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, Revision 7.2 requirements resulted in the observations noted below. The QAP requirements in Attachment 2-3 specifically state that field parameters must be stabilized to within 10% over at least 2 consecutive measurements for wells purged to 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.

- Nineteen 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% except in wells that were purged to dryness as noted above.

EFRI's letter to DRC of March 26, 2010 discusses further why turbidity does not appear to be an appropriate parameter for assessing well stabilization. In response to DRC's subsequent correspondence dated June 1, 2010 and June 24, 2010, EFRI has completed a monitoring well redevelopment program. The redevelopment report was submitted to DRC on September 30, 2011. DRC responded to the redevelopment report via letter on November 15, 2012. Per the DRC 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 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.

3.4.4 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.

3.4.5 Reporting Limit Evaluation

All analytical method reporting limits 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 nineteen samples and two duplicate 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.

3.4.6 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 (described as activities in the QAP) 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 all duplicate pairs for all analytes regardless of whether or not the reported concentrations are greater than 5 times the required detection limits. However, data will be considered noncompliant only when the results are greater than 5 times the required detection limit and the RPD is greater than 20%. The additional duplicate information is provided for information purposes.

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

3.4.7 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.

3.4.8 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.

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

The QAP Section 8.1.2 requires that a Matrix Spike/Matrix Spike Duplicate ("MS/MSD") pair be analyzed with each analytical batch. The QAP does not specify

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

The information from the Laboratory QA/QC Summary Reports indicates that the MS/MSDs recoveries and the associated RPDs for all quarterly nitrate samples are within acceptable laboratory limits for all regulated compounds except as indicated in Tab H. One MS/MSD recovery was below the laboratory established acceptance limits. The recoveries do not affect the quality or usability of the data because the recoveries outside of the acceptance limits are indicative of matrix interference. The QAP requirement 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 LCS 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 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 RL.

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 (kriged) 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.

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 (fourth) quarter of 2012 to the water table contour maps for the previous quarter (third quarter of 2012) indicates similar patterns of drawdown related to pumping of MW-4, MW-26, TW4-4, TW4-19 and TW4-20. Water levels and water level contours for the site have not changed significantly since the last quarter, except for a few locations. Pumping at 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 yet evident, likely due to variable permeability conditions near TW4-4 and the persistently low water level at adjacent well TW4-14.

Reported increases in water levels (decreases in drawdown) of approximately 6 feet and of approximately 3 feet occurred in pumping wells MW-26 and TW4-20, respectively, and a decrease in water level (increase in drawdown) of approximately 3 feet occurred in pumping well TW4-19. Changes in water levels at other pumping wells (MW-4 and TW4-4) were less than 1 foot. Water level fluctuations at pumping wells MW-4, MW-26, TW4-4, TW4-19, and TW4-20 typically occur in part because of fluctuations in pumping conditions just prior to and at the time the measurements are taken.

The increases in water levels (decreases in drawdown) at MW-26 and TW4-20 have slightly decreased the apparent capture of these wells relative to other pumping wells and the decrease in water level (increase in drawdown) at TW4-19 has increased its apparent capture relative to other pumping wells. Overall, the combined capture of MW-4, MW-26, TW4-4, TW4-19, and TW4-20 has changed only slightly since the last quarter.

Decreases in water levels of approximately 4 feet, of approximately 3 feet, and of approximately 6 feet occurred in non-pumping wells MW-20, MW-37, and TW4-12, respectively. The reported water level at PIEZ-2, located between the northern wildlife ponds, increased by nearly 7 feet, and water level increases of approximately 3 feet and of approximately 2 feet occurred at wells TWN-2 and TWN-4. Water level changes at other non-pumping wells were less than 2 feet. The water level change at PIEZ-2 suggests increased natural recharge in the vicinity of the northern wildlife ponds since last quarter and represents a partial reversal in the general decrease in water level at PIEZ-2 since the cessation of water delivery to the northern wildlife ponds.

4.1.3 Hydrographs

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

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 Review of Analytical Results

4.2.1 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.

4.2.2 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. Some data (MW-18, MW-19 and the Frog Pond) were not sampled this period but the historical data are included for information purposes.

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

4.2.3 Interpretation of Analytical Data

Generally, the shapes of the nitrate and chloride plumes appear to be stable and unchanged for the last thirteen quarters. The nitrate and chloride plumes maintain their general geographic association and it is still possible to separate the plumes into a segment northeast of the wildlife ponds and a southwest segment at the mill site. The current quarter's data continue to support the conclusion in the Nitrate Contamination Investigation Report that the nitrate and chloride at the Mill site are co-extensive and appear to originally come from the same source.

Nitrate and chloride concentrations in samples from the downgradient edge of the plumes (in the vicinity of tailings impoundment monitoring wells MW-30 and MW-31) have changed very little (current concentration within one standard deviation of the average of the previous twelve quarters and within laboratory variation). Nitrate in MW-30 has increased from near 14 mg/L in 2005 to near 17 in 2012, while chloride has remained essentially flat. Nitrate in MW-31 has declined from near 25 mg/L in 2005 to near 21 mg/L in 2012, while chloride has increased from near 140 mg/L in 2005 to near 170 mg/L in 2012 (an increase of approximately 20%). Thus, the nitrate/chloride plume does not appear to be migrating in the downgradient direction.

In general, nitrate concentrations in nitrate monitoring wells are similar to values from last quarter or have declined (Table 2). An exception is the most recent nitrate concentration reported from Piez-3 which showed a 53% increase from last quarter, going from 1.8 mg/L to 2.75 mg/L. Chloride concentrations are within 6% of last quarter or have declined.

Note that samples from chloroform monitoring wells TW4-26, TW4-27, and TW4-12 have measured nitrate concentrations that are higher than 10 mg/L. However, nitrate

concentrations in these wells are clearly separated from the nitrate/chloride plume at the Mill site by many wells that are below 10 mg/L or are nondetect for nitrate, including but not limited to, TW4-3, TW4-9, TW4-10, TW4-23, MW-32 and TW4-16. Thus, nitrate in TW4-26, TW4-27, and TW4-12 appears to be isolated from the plume at the Mill site, in the same way that the relatively small nitrate plumes at TWN-9 and TWN-17 are isolated from the plume at the Mill site.

5.0 CORRECTIVE ACTION REPORT

There are no corrective actions resulting from fourth quarter 2012 nitrate sampling event.

5.1 Assessment of Previous Quarter's Corrective Actions

There were no corrective actions in the third quarter 2012 nitrate sampling event.

6.0 CONCLUSIONS AND RECOMMENDATIONS

Generally, the shapes of the nitrate and chloride plumes appear to be stable and unchanged for the last thirteen quarters. The nitrate and chloride plumes maintain their general geographic association and it is still possible to separate the plumes into a segment northeast of the wildlife ponds and a southwest segment at the mill site. The current quarter's data continue to support the conclusion in the Nitrate Contamination Investigation Report that the nitrate and chloride at the Mill site are co-extensive and appear to originally come from the same source.

Nitrate and chloride concentrations in samples from the downgradient edge of the plumes (in the vicinity of tailings impoundment monitoring wells MW-30 and MW-31) have changed very little (current concentration within one standard deviation of the average of the previous twelve quarters and within laboratory variation). Nitrate in MW-30 has increased from near 14 mg/L in 2005 to near 17 in 2012, while chloride has remained essentially flat. Nitrate in MW-31 has declined from near 25 mg/L in 2005 to near 21 mg/L in 2012, while chloride has increased from near 140 mg/L in 2005 to near 170 mg/L in 2012 (an increase of approximately 20%). Thus, the nitrate/chloride plume does not appear to be migrating in the downgradient direction.

7.0 ELECTRONIC DATA FILES AND FORMAT

EFRI has provided to the Co-Executive Secretary 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.

8.0 SIGNATURE AND CERTIFICATION

This document was prepared by Energy Fuels Resources (USA) Inc. on February 25, 2013.

Energy Fuels Resources (USA) Inc.

By:



Harold R. Roberts
Executive Vice President and Chief Operating Officer

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.



Harold R. Roberts
Executive Vice President and Chief Operating Officer
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	10/17/2012	10/30/2012 (11/2/2012)
Piezometer 02	10/17/2012	10/30/2012 (11/2/2012)
Piezometer 03	10/17/2012	10/30/2012 (11/2/2012)
TWN-01	10/15/2012	10/30/2012 (11/2/2012)
TWN-02	10/17/2012	10/30/2012 (11/2/2012)
TWN-03	10/17/2012	10/30/2012 (11/2/2012)
TWN-04	10/15/2012	10/30/2012 (11/2/2012)
TWN-05	10/15/2012	10/30/2012 (11/2/2012)
TWN-06	10/15/2012	10/30/2012 (11/2/2012)
TWN-07	10/16/2012	10/30/2012 (11/2/2012)
TWN-08	10/15/2012	10/30/2012 (11/2/2012)
TWN-08R	10/15/2012	10/30/2012 (11/2/2012)
TWN-09	10/17/2012	10/30/2012 (11/2/2012)
TWN-10	10/16/2012	10/30/2012 (11/2/2012)
TWN-11	10/16/2012	10/30/2012 (11/2/2012)
TWN-11R	10/16/2012	10/30/2012 (11/2/2012)
TWN-12	10/16/2012	10/30/2012 (11/2/2012)
TWN-13	10/15/2012	10/30/2012 (11/2/2012)
TWN-14	10/17/2012	10/30/2012 (11/2/2012)
TWN-15	10/17/2012	10/30/2012 (11/2/2012)
TWN-16	10/16/2012	10/30/2012 (11/2/2012)
TWN-17	10/17/2012	10/30/2012 (11/2/2012)
TWN-18	10/16/2012	10/30/2012 (11/2/2012)
TWN-19	10/16/2012	10/30/2012 (11/2/2012)
TWN-60	10/17/2012	10/30/2012 (11/2/2012)
TWN-65	10/15/2012	10/30/2012 (11/2/2012)
TWN-70	10/17/2012	10/30/2012 (11/2/2012)

Note: All wells were sampled for Nitrate and Chloride

TWN-60 is a DI Field Blank

TWN-65 is a duplicate of TWN-04, and TWN-70 is a duplicate of TWN-15.

Date in paranthesis is the date of the revised report.

Table 2
Nitrate (mg/L)

Location	4th Q 2009	1st Q 2010	2nd Q 2010	3rd Q 2010	4th Q 2010	1st Q 2011	2nd Q 2011	3rd Q 2011	4th Q 2011	1st Q 2012	2nd Q 2012	3rd Q 2012	4th Q 2012	% Difference 3rd Q 2012 and 4th Q 2012
Piez 1	NA	NA	7.2	6.8	6.5	7	6.8	7	6.6	7.1	6.6	7.2	7.66	6
Piez 2	NA	NA	0.6	0.6	0.2	0.3	0.3	0.1	0.1	0.1	0.2	0.2	0.192	-4
Piez 3	NA	1.7	1.6	1.8	1.8	1.8	1.7	1.8	1.7	1.8	1.7	1.8	2.75	53
TWN 1	0.5	0.5	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.432	-28
TWN 2	20.8	62.1	69	69	48	43	40	33	33	31	48.0	54.0	22.1	-59
TWN 3	29	25.3	26	27	24	24	26	25	25	25	24.0	27.0	12.1	-55
TWN 4	0.4	0.9	1	0.9	1.0	0.9	0.9	1.1	0.9	0.9	1.1	1.4	1.45	4
TWN 5	0.2	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.2	0.3	0.3	<0.1	-67
TWN 6	1.4	1.5	1.4	1.4	1.2	1.1	1.5	1.1	1.4	1.2	1.1	1.4	0.786	-44
TWN 7	0.1	0.8	1.2	1.6	1.0	1.3	1.7	0.7	2.2	2.3	1.2	0.9	0.641	-29
TWN 8	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0
TWN 9	12	7.6	7.7	10.7	8	9.5	10	11	10.9	12.2	10.6	12.3	12.5	2
TWN 10	1.4	1.5	1	0.2	1.3	0.3	1.2	0.1	0.2	0.8	0.9	0.6	0.119	-80
TWN 11	1.3	1.4	1.3	1.4	1.4	1.4	1.4	0.1	1.6	1.6	1.6	1.8	1.84	2
TWN 12	0.5	0.7	0.8	0.7	0.7	4.2	1	0.6	1.2	0.9	1.2	1.4	1.41	1
TWN 13	0.5	0.1	0.1	0.2	0.4	1.6	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	0
TWN 14	3.4	2.9	2.9	3.5	4.2	3.7	3.5	3.5	3.9	3.5	3.4	3.7	4.03	9
TWN 15	1.1	0.7	1	1	1.2	1.4	1.6	1.6	1.3	1.5	1.6	2.1	1.79	-15
TWN 16	1	1.2	1.3	2.6	2	4.6	1.6	2.4	2.6	2.8	2.0	2.4	2.50	4
TWN 17	6.7	10.4	11	8.9	8	8.6	9	8.5	8.1	8.7	9.1	9.5	9.65	2
TWN 18	1.3	1.6	1.8	1.8	1.6	1.4	1.8	1.8	1.9	1.9	2.1	2.3	1.95	-15
TWN 19	7.4	7.2	6.2	7.2	7	7	6.9	7.1	6.5	7	6.8	7.5	7.70	3

Red value indicates nondetect

Table 3
Chloride (mg/L)

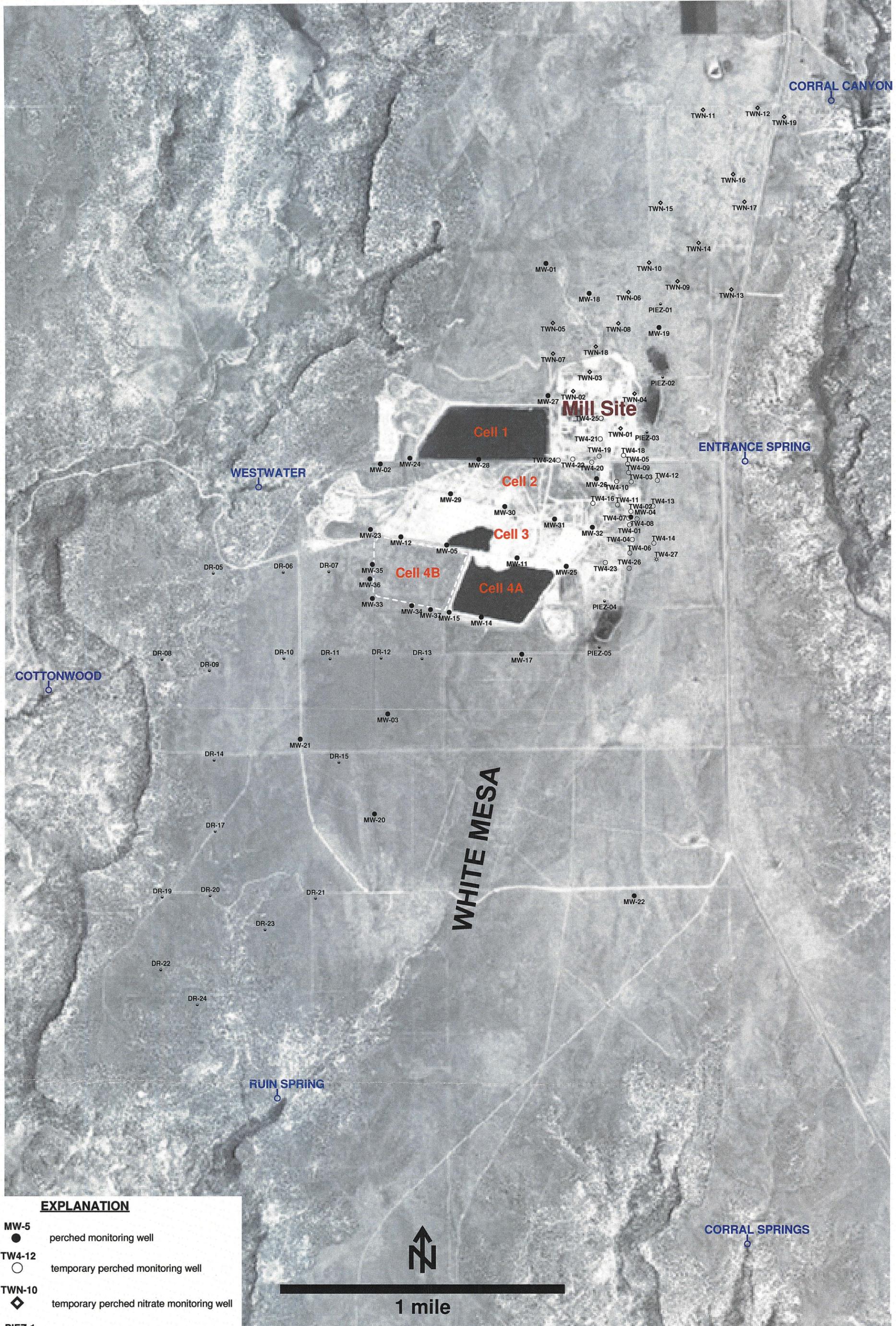
Location	4th Q 2009	1st Q 2010	2nd Q 2010	3rd Q 2010	4th Q 2010	1st Q 2011	2nd Q 2011	3rd Q 2011	4th Q 2011	1st Q 2012	2nd Q 2012	3rd Q 2012	4th Q 2012	% Difference 3rd Q 2012 and 4th Q 2012
Piez 1	NA	NA	52	52	60	60	58	53	55	78	58	56	55.0	-2
Piez 2	NA	NA	8	8	6	9	8	9	8	9	8	9	9.50	6
Piez 3	NA	116	36	35	25	40	35	61	12	20	53	21	20.1	-4
TWN 1	18	17	20	19	14	17	19	14	10	15	17	17	17.5	3
TWN 2	55	85	97	104	93	93	85	74	76	86	103	93	79	-15
TWN 3	106	111	118	106	117	138	128	134	129	143	152	158	149	-6
TWN 4	11	22	22	19	21	21	21	35	20	20	24	25	26.4	6
TWN 5	48	43	44	43	45	47	44	44	45	45	39	48	43.5	-9
TWN 6	21	19	22	73	21	18	22	17	21	20	22	22	20.4	-7
TWN 7	7	6	6	7	4	6	6	5	6	5	6	6	5.67	-6
TWN 8	12	11	11	11	9	13	10	18	10	11	15	11	11.1	1
TWN 9	205	183	175	210	172	217	192	208	134	202	209	215	194	-10
TWN 10	26	54	30	21	28	40	28	28	33	44	28	33	30.8	-7
TWN 11	74	73	72	76	72	84	76	76	76	69	71	77	76.4	-1
TWN 12	109	113	106	112	103	87	109	102	87	104	106	102	101	-1
TWN 13	83	47	49	53	57	103	49	49	48	46	53	48	47.3	-1
TWN 14	32	24	30	26	28	24	30	25	27	26	27	27	27.4	1
TWN 15	78	43	39	36	38	43	49	47	38	38	46	50	47	-6
TWN 16	39	35	35	35	30	34	39	31	34	33	50	33	32.1	-3
TWN 17	152	78	87	66	65	90	81	74	71	79	80	85	84.8	0
TWN 18	57	42	63	64	59	61	67	65	60	64	64	67	67.5	1
TWN 19	125	118	113	113	107	114	120	113	108	114	117	117	118	1

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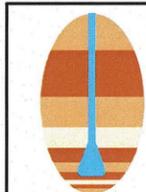
Tab A

Site Plan and Perched Well Locations White Mesa Site



EXPLANATION

- MW-5 ● perched monitoring well
- TW4-12 ○ temporary perched monitoring well
- TWN-10 ◇ temporary perched nitrate monitoring well
- PIEZ-1 ● perched piezometer
- TW4-27 ☼ temporary perched monitoring well installed October, 2011
- 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/may12/Uwellocc12.srf	A-1

Tab B

Order of Sampling and Field Data Worksheets

Nitrate Order 4th Quarter 2012

Nitrate Samples					
Name	Ntrate Mg/L Previous	Qrt.	Date/Purge	sample	Depth Total Depth

Rinsate Samples		
Name	Date	Sample

TWN-8	ND		10/15	0903		145.5
TWN-13	0.1		10/15	0953		120
TWN-5	0.3		10/15	1045		150
TWN-1	0.6		10/15	1150		112.5
TWN-10	0.6		10/16	0633		105
TWN-7	0.9		10/16	0645		105
TWN-4	1.4		10/15	1442		125.7
TWN-6	1.4		10/15	1517		130
TWN-12	1.4		10/16	0732		110
TWN-11	1.8		10/16	0823		142
TWN-15	2.1		10/17	0704		155
TWN-18	2.3		10/16	0939		145
TWN-16	2.4		10/16	1016		100
TWN-14	3.7		10/17	0715		135
TWN-19	7.5		10/16	1224		110
TWN-17	9.5		10/17	0725		110
TWN-9	12.3		10/17	0734		97
TWN-3	27.0		10/17	0747		96
TWN-2	54.0		10/17	0755		96
Piez 1	7.2		10/17	0833		
Piez 2	0.2		10/17	0809		
Piez 3	1.8		10/17	0821		
wildlife	NA		10/17	0833		

TWN-8R	10/15	0834
TWN-13R		
TWN-5R		
TWN-1R		
TWN-10R		
TWN-7R		
TWN-4R		
TWN-6R		
TWN-12R	10/16	
TWN-11R	10/16	0756 0756
TWN-15R		
TWN-18R		
TWN-16R		
TWN-14R		
TWN-19R		
TWN-17R		
TWN-9R		
TWN-3R		
TWN-2R		

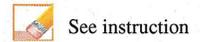
Samplers: _____

04
15

60 0910 10/17/12
65 1442 10/15/12
70 0704 10/17/12



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



Description of Sampling Event: 4th Quarter Nitrate 2012

Location (well name): Piez-01

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID Piez-01-10172012

Date and Time for Purging 10/17/2012

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 999 μ MHOS/cm

Well Depth(0.01ft): 0

Depth to Water Before Purging 61.71

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

Conductance (avg) 2148

pH of Water (avg) 9.65

Well Water Temp. (avg) 13.11

Redox Potential (Eh) 169

Turbidity 1.2

Weather Cond. Sunny

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

Time	<u>0832</u>	Gal. Purged	<u>0</u>
Conductance	<u>2148</u>	pH	<u>9.65</u>
Temp. °C	<u>13.11</u>		
Redox Potential Eh (mV)	<u>169</u>		
Turbidity (NTU)	<u>1.2</u>		

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 gallon(s)

Pumping Rate Calculation

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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	<input type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input type="checkbox"/>	HCL	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

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

Final Depth

Sample Time

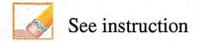
 See instruction

Comment
 Arrived on site at 0827. Tanner and Garrin present to collect samples. Samples bailed at 0833. Water was clear. Left site at 0838

PIEZ-01 10-17-2012 Do not touch this cell (SheetName)



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



Description of Sampling Event: 4th Quarter Nitrate 2012

Location (well name): Piez-02

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID Piez-02-10172012

Date and Time for Purging 10/16/2012 and Sampling (if different) 10/17/2012 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 Prev. Well Sampled in Sampling Event TWN-02

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 999 μ MHOS/ cm

Well Depth(0.01ft): 0

Depth to Water Before Purging 27.30

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

Conductance (avg) 713

pH of Water (avg) 7.60

Well Water Temp. (avg) 13.08

Redox Potential (Eh) 159

Turbidity 3.7

Weather Cond. Sunny Sunny

Ext'l Amb. Temp. °C (prior sampling event) 5°

Time	<u>0808</u>	Gal. Purged	<u>0</u>
Conductance	<u>713</u>	pH	<u>7.60</u>
Temp. °C	<u>13.08</u>		
Redox Potential Eh (mV)	<u>159</u>		
Turbidity (NTU)	<u>3.7</u>		

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 gallon(s)

Pumping Rate Calculation

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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	<input type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input type="checkbox"/>	HCL	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

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

Final Depth

Sample Time

 See instruction

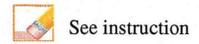
Comment

Arrived on site at 0804. Tanner and Garrin present to collect samples. water was bailed. samples collected at 0809. water was mostly clear
 Left site at 0814

PIEZ-02 10-17-2012 Do not touch this cell (SheetName)



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



Description of Sampling Event: 4th Quarter Nitrate 2012

Location (well name): Piez-03

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID Piez-03_10172012

Date and Time for Purging 10/17/2012

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 999 μ MHOS/ cm

Well Depth(0.01ft): 0

Depth to Water Before Purging 41.45

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

Conductance (avg) 2969

pH of Water (avg) 12.49

Well Water Temp. (avg) 12.99

Redox Potential (Eh) 73

Turbidity 11.4

Weather Cond. clear

Ext'l Amb. Temp. °C (prior sampling event) 5°

Time	<u>0820</u>	Gal. Purged	<u>0</u>
Conductance	<u>2969</u>	pH	<u>12.49</u>
Temp. °C	<u>12.99</u>		
Redox Potential Eh (mV)	<u>73</u>		
Turbidity (NTU)	<u>11.4</u>		

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 gallon(s)

Pumping Rate Calculation

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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	<input type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input type="checkbox"/>	HCL	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

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

Final Depth

Sample Time 0821

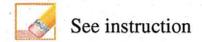
 See instruction

Comment
 Arrived on site at 0816. Tanner and Garrin present to collect samples.
 Samples bailed at 0821. Water was mostly clear. Left site at 0825

PIEZ-03 10-17-2012 Do not touch this cell (SheetName)



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



Description of Sampling Event: 4th Quarter Nitrate 2012

Location (well name): TWN-01 Sampler Name and initials: Tanner Holliday/TH

Field Sample ID TWN-01-10152012

Date and Time for Purging 10/15/2012 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-05

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 999 μ MHOS/cm Well Depth(0.01ft): 112.50

Depth to Water Before Purging 53.23 Casing Volume (V) 4" Well: 38.70 (.653h)
 3" Well: 0 (.367h)

Conductance (avg) 800 pH of Water (avg) 7.34

Well Water Temp. (avg) 15.05 Redox Potential (Eh) 191 Turbidity 72

Weather Cond. Sunny Ext'l Amb. Temp. °C (prior sampling event) 12°

Time	<u>1147</u>	Gal. Purged	<u>50</u>
Conductance	<u>801</u>	pH	<u>7.35</u>
Temp. °C	<u>15.07</u>		
Redox Potential Eh (mV)	<u>191</u>		
Turbidity (NTU)	<u>72.7</u>		

Time	<u>1148</u>	Gal. Purged	<u>60</u>
Conductance	<u>800</u>	pH	<u>7.35</u>
Temp. °C	<u>15.05</u>		
Redox Potential Eh (mV)	<u>191</u>		
Turbidity (NTU)	<u>72.9</u>		

Time	<u>1149</u>	Gal. Purged	<u>70</u>
Conductance	<u>800</u>	pH	<u>7.34</u>
Temp. °C	<u>15.03</u>		
Redox Potential Eh (mV)	<u>191</u>		
Turbidity (NTU)	<u>72.8</u>		

Time	<u>1150</u>	Gal. Purged	<u>80</u>
Conductance	<u>799</u>	pH	<u>7.32</u>
Temp. °C	<u>15.05</u>		
Redox Potential Eh (mV)	<u>191</u>		
Turbidity (NTU)	<u>72.1</u>		

Volume of Water Purged gallon(s)

Pumping Rate Calculation

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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	<input type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input type="checkbox"/>	HCL	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

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

Final Depth

Sample Time

 See instruction

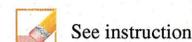
Comment

Arrived on site at 1139. Tanner and Garrin Present for purge and sampling event. Purge began at 1142. Purged well for a total of 8 minutes. water was clear throughout the purge. Purge ended and samples collected at 1150. Left site at 1154

TWN-01 10-15-2012 Do not touch this cell (SheetName)



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



Description of Sampling Event: 4th Quarter Nitrate 2012

Location (well name): TWN-02

Sampler Name and initials: Tanner Holliday AH

Field Sample ID TWN-02-10172012

Date and Time for Purging 10/16/2012

and Sampling (if different) 10/17/2012

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-03

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 999 μ MHOS/cm

Well Depth(0.01ft): 96.00

Depth to Water Before Purging 23.65

Casing Volume (V) 4" Well: 47.24 (.653h)
 3" Well: 0 (.367h)

Conductance (avg) 3210

pH of Water (avg) 6.35

Well Water Temp. (avg) 15.57

Redox Potential (Eh) 122

Turbidity 24

Weather Cond. Sunny

Ext'l Amb. Temp. °C (prior sampling event) 23°

Time	<u>1448</u>	Gal. Purged	<u>57.50</u>
Conductance	<u>3210</u>	pH	<u>6.35</u>
Temp. °C	<u>15.57</u>		
Redox Potential Eh (mV)	<u>122</u>		
Turbidity (NTU)	<u>24</u>		

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

Time	<u>0755</u>	Gal. Purged	<u>0</u>
Conductance	<u>3127</u>	pH	<u>5.6</u> <u>6.13</u>
Temp. °C	<u>14.16</u>		
Redox Potential Eh (mV)	<u>199</u>		
Turbidity (NTU)	<u>6.8</u>		

Time	<u>0758</u>	Gal. Purged	<u>0</u>
Conductance	<u>3115</u>	pH	<u>6.08</u>
Temp. °C	<u>14.19</u>		
Redox Potential Eh (mV)	<u>193</u>		
Turbidity (NTU)	<u>12.8</u>		

Before

After

Before
 Volume of Water Purged gallon(s) After

Pumping Rate Calculation

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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	<input type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input type="checkbox"/>	HCL	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

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

Final Depth

Sample Time

 See instruction

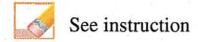
Comment

Arrived on site at 1440. Tanner and Garrin present for purge. Purge began at 1443. Purged well for a total of 5 minutes and 45 seconds. Purged well dry! water was mostly clear. Purge ended at 1448. Left site at 1451
 Arrived on site at 0751. Tanner and Garrin present to collect samples. Depth to water was 23.90. Samples bailed at 0755 Left site at 0758

TWN-02 10-16-2012 Do not touch this cell (SheetName)



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



Description of Sampling Event: 4th Quarter Nitrate 2012

Location (well name): TWN-03

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID TWN-03_10172012

Date and Time for Purging 10/16/2012

and Sampling (if different) 10/17/2012

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-09

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 999 μ MHOS/cm

Well Depth(0.01ft): 96.00

Depth to Water Before Purging 33.95

Casing Volume (V) 4" Well: 40.51 (.653h)
 3" Well: 0 (.367h)

Conductance (avg) 2427

pH of Water (avg) 7.16

Well Water Temp. (avg) 14.90

Redox Potential (Eh) 155

Turbidity 19

Weather Cond. Sunny

Ext'l Amb. Temp. °C (prior sampling event) 22°

Time	<u>1416</u>	Gal. Purged	<u>45</u>
Conductance	<u>2427</u>	pH	<u>7.16</u>
Temp. °C	<u>14.90</u>		
Redox Potential Eh (mV)	<u>155</u>		
Turbidity (NTU)	<u>19</u>		

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

Time	<u>0747</u>	Gal. Purged	<u>0</u>
Conductance	<u>2501</u>	pH	<u>7.14</u>
Temp. °C	<u>13.36</u>		
Redox Potential Eh (mV)	<u>191</u>		
Turbidity (NTU)	<u>7.0</u>		

Time	<u>0750</u>	Gal. Purged	<u>0</u>
Conductance	<u>2490</u>	pH	<u>7.15</u>
Temp. °C	<u>13.39</u>		
Redox Potential Eh (mV)	<u>187</u>		
Turbidity (NTU)	<u>8.3</u>		

Before

After

Volume of Water Purged Before gallon(s) After

Pumping Rate Calculation

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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	<input type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input type="checkbox"/>	HCL	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

Chloride

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

Final Depth

Sample Time

 See instruction

Comment

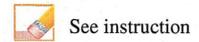
Arrived on site at 1410 Tanner and Garrin present for purge. Purge began at 1412 Purged well for a total of 4 minutes and 30 seconds. Purged well dry Water was mostly Clear. Purge ended at 1416. Left site at 1418

Arrived on site at 0743. Tanner and Garrin present to collect samples. Depth to water was 34.50 Samples bailed at 0747. Left site at 0750

TWN-03 10-16-2012 Do not touch this cell (SheetName)



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



Description of Sampling Event: 4th Quarter Nitrate 2012

Location (well name): TWN-04

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID TWN-04-10152012

Date and Time for Purging 10/15/2012

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 999 μ MHOS/ cm

Well Depth(0.01ft): 125.70

Depth to Water Before Purging 43.60

Casing Volume (V) 4" Well: 53.61 (.653h)

3" Well: 0 (.367h)

Conductance (avg) 1012

pH of Water (avg) 7.21

Well Water Temp. (avg) 14.60

Redox Potential (Eh) 215

Turbidity 62

Weather Cond. Sunny

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

Time	<u>1439</u>	Gal. Purged	<u>100</u>
Conductance	<u>1015</u>	pH	<u>7.27</u>
Temp. °C	<u>14.61</u>		
Redox Potential Eh (mV)	<u>216</u>		
Turbidity (NTU)	<u>64</u>		

Time	<u>1440</u>	Gal. Purged	<u>110</u>
Conductance	<u>1013</u>	pH	<u>7.20</u>
Temp. °C	<u>14.61</u>		
Redox Potential Eh (mV)	<u>216</u>		
Turbidity (NTU)	<u>61.8</u>		

Time	<u>1441</u>	Gal. Purged	<u>120</u>
Conductance	<u>1012</u>	pH	<u>7.19</u>
Temp. °C	<u>14.60</u>		
Redox Potential Eh (mV)	<u>215</u>		
Turbidity (NTU)	<u>62.5</u>		

Time	<u>1442</u>	Gal. Purged	<u>130</u>
Conductance	<u>1011</u>	pH	<u>7.19</u>
Temp. °C	<u>14.60</u>		
Redox Potential Eh (mV)	<u>213</u>		
Turbidity (NTU)	<u>63.2</u>		

Volume of Water Purged gallon(s)

Pumping Rate Calculation

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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	<input type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input type="checkbox"/>	HCL	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

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

Final Depth

Sample Time

 See instruction

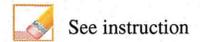
Comment

Arrived on site at 1426. Tanner and Garrin present for purge and sampling event. Purge began at 1429. Purged well for 13 minutes. Water was a ~~little~~ little murky. Purge ended at 1442. Left site at 1445

TWN-04 10-15-2012 Do not touch this cell (SheetName)



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



Description of Sampling Event: 4th Quarter Nitrate 2012

Location (well name): TWN-05

Sampler Name and initials: Tanner Holliday TH

Field Sample ID TWN-05-10152012

Date and Time for Purging 10/15/2012

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-13

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 999 μ MHOS/cm

Well Depth(0.01ft): 150.00

Depth to Water Before Purging 69.64

Casing Volume (V) 4" Well: 52.47 (.653h)
3" Well: 0 (.367h)

Conductance (avg) 3018

pH of Water (avg) 6.79

Well Water Temp. (avg) 14.82

Redox Potential (Eh) 177

Turbidity 5.4

Weather Cond. Sunny

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

Time	<u>1042</u>	Gal. Purged	<u>80</u>
Conductance	<u>3017</u>	pH	<u>6.79</u>
Temp. °C	<u>14.84</u>		
Redox Potential Eh (mV)	<u>179</u>		
Turbidity (NTU)	<u>5.9</u>		

Time	<u>1043</u>	Gal. Purged	<u>90</u>
Conductance	<u>3019</u>	pH	<u>6.80</u>
Temp. °C	<u>14.84</u>		
Redox Potential Eh (mV)	<u>178</u>		
Turbidity (NTU)	<u>5.5</u>		

Time	<u>1044</u>	Gal. Purged	<u>100</u>
Conductance	<u>3018</u>	pH	<u>6.79</u>
Temp. °C	<u>14.81</u>		
Redox Potential Eh (mV)	<u>177</u>		
Turbidity (NTU)	<u>5.3</u>		

Time	<u>1045</u>	Gal. Purged	<u>110</u>
Conductance	<u>3018</u>	pH	<u>6.80</u>
Temp. °C	<u>14.82</u>		
Redox Potential Eh (mV)	<u>176</u>	<u>176</u>	
Turbidity (NTU)	<u>5.1</u>		

Volume of Water Purged gallon(s)

Pumping Rate Calculation

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input type="checkbox"/>	HCL	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

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

Final Depth

Sample Time

 See instruction

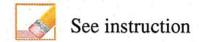
Comment

Arrived on site at 1031. Tanner and Garrin present for purge and sampling event. Purge began at 1034. Purged well for a total of 11 minutes. water was clear. Purge ended and samples collected at 1045. Left site at 1048

TWN-05 10-15-2012 Do not touch this cell (SheetName)



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



Description of Sampling Event: 4th Quarter Nitrate 2012

Location (well name): TWN-06

Sampler Name and initials: Tanner Holliday / JH

Field Sample ID TWN-06-10152012

Date and Time for Purging 10/15/2012

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-04

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 999 μ MHOS/ cm

Well Depth(0.01ft): 130.00

Depth to Water Before Purging 75.20

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

Conductance (avg) 1489

pH of Water (avg) 7.05

Well Water Temp. (avg) 14.86

Redox Potential (Eh) 182

Turbidity 21

Weather Cond. Sunny

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

Time	<u>1514</u>	Gal. Purged	<u>50</u>
Conductance	<u>1474</u>	pH	<u>7.07</u>
Temp. °C	<u>14.88</u>		
Redox Potential Eh (mV)	<u>185</u>		
Turbidity (NTU)	<u>21.6</u>		

Time	<u>1515</u>	Gal. Purged	<u>60</u>
Conductance	<u>1479</u>	pH	<u>7.05</u>
Temp. °C	<u>14.88</u>		
Redox Potential Eh (mV)	<u>183</u>		
Turbidity (NTU)	<u>21.8</u>		

Time	<u>1516</u>	Gal. Purged	<u>70</u>
Conductance	<u>1501</u>	pH	<u>7.07</u>
Temp. °C	<u>14.86</u>		
Redox Potential Eh (mV)	<u>181</u>		
Turbidity (NTU)	<u>21.8</u>		

Time	<u>1517</u>	Gal. Purged	<u>80</u>
Conductance	<u>1502</u>	pH	<u>7.04</u>
Temp. °C	<u>14.85</u>		
Redox Potential Eh (mV)	<u>179</u>		
Turbidity (NTU)	<u>22.0</u>		

Volume of Water Purged gallon(s)

Pumping Rate Calculation

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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	<input type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input type="checkbox"/>	HCL	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

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

Final Depth

Sample Time

 See instruction

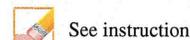
Comment

Arrived on site at 1506 Tanner and Garrin present for purge and sampling event. Purge began at 1509. Purged well for a total of 8 minutes. Water was mostly clear. Purge ended and samples collected at 1517. Left site at 1520

TWN-06 10-15-2012 Do not touch this cell (SheetName)



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



Description of Sampling Event: 4th Quarter Nitrate 2012

Location (well name): TWN-07

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID TWN-07_10162012

Date and Time for Purging 10/15/2012

and Sampling (if different) 10/16/2012

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-10

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 999 μ MHOS/cm

Well Depth(0.01ft): 105.00

Depth to Water Before Purging 87.86

Casing Volume (V) 4" Well: 11.19 (.653h)
 3" Well: 0 (.367h)

Conductance (avg) 1244

pH of Water (avg) 8.23

Well Water Temp. (avg) 15.70

Redox Potential (Eh) 136

Turbidity 114.1

Weather Cond. Sunny

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

Time	<u>1404</u>	Gal. Purged	<u>10</u>
Conductance	<u>1244</u>	pH	<u>8.23</u>
Temp. °C	<u>15.70</u>		
Redox Potential Eh (mV)	<u>136</u>		
Turbidity (NTU)	<u>114.1</u>		

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

Time	<u>0645</u>	Gal. Purged	<u>0</u>
Conductance	<u>1245</u>	pH	<u>6.27</u>
Temp. °C	<u>13.31</u>		
Redox Potential Eh (mV)	<u>509</u>		
Turbidity (NTU)	<u>45</u>		

Time	<u>0647</u>	Gal. Purged	<u>0</u>
Conductance	<u>1260</u>	pH	<u>6.35</u>
Temp. °C	<u>13.49</u>		
Redox Potential Eh (mV)	<u>488</u>		
Turbidity (NTU)	<u>51.7</u>		

Before

After

Volume of Water Purged Before gallon(s) After

Pumping Rate Calculation

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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	<input type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input type="checkbox"/>	HCL	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

Chloride

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

Final Depth

Sample Time

0645

 See instruction

Comment

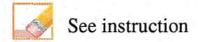
Arrived on site at 1400. Tanner and Garrin present for purge. Purge began at 1403. Purged well for 1 minute. Purged well dry. Water was a little murky but mostly clear. Purge ended at 1404. Left site at 1407.

Arrived on site at 0640 Tanner and Garrin present to collect samples. Depth to water was 97.10. Samples bailed at 0645. Left site at 0648

TWN-07 10-15-2012 Do not touch this cell (SheetName)



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



Description of Sampling Event: 4th Quarter Nitrate 2012

Location (well name): TWN-08

Sampler Name and initials: Tanner Holiday TH

Field Sample ID TWN-08-10152012

Date and Time for Purging 10/15/2012

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-08R

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 999 uMHOS/ cm

Well Depth(0.01ft): 145.50

Depth to Water Before Purging 62.34

Casing Volume (V) 4" Well: 54.30 (.653h)
 3" Well: 0 (.367h)

Conductance (avg) 2381

pH of Water (avg) 7.11

Well Water Temp. (avg) 14.50

Redox Potential (Eh) 124

Turbidity 20.5

Weather Cond. Clear

Ext'l Amb. Temp. °C (prior sampling event) 4°

Time	<u>0900</u>	Gal. Purged	<u>90</u>
Conductance	<u>2368</u>	pH	<u>7.13</u>
Temp. °C	<u>14.49</u>		
Redox Potential Eh (mV)	<u>121</u>		
Turbidity (NTU)	<u>20.5</u>		

Time	<u>0901</u>	Gal. Purged	<u>100</u>
Conductance	<u>2370</u>	pH	<u>7.09</u>
Temp. °C	<u>14.50</u>		
Redox Potential Eh (mV)	<u>123</u>		
Turbidity (NTU)	<u>20.2</u>		

Time	<u>0902</u>	Gal. Purged	<u>110</u>
Conductance	<u>2392</u>	pH	<u>7.12</u>
Temp. °C	<u>14.50</u>		
Redox Potential Eh (mV)	<u>126</u>		
Turbidity (NTU)	<u>20.5</u>		

Time	<u>0903</u>	Gal. Purged	<u>120</u>
Conductance	<u>2395</u>	pH	<u>7.10</u>
Temp. °C	<u>14.51</u>		
Redox Potential Eh (mV)	<u>129</u>		
Turbidity (NTU)	<u>20.8</u>		

Volume of Water Purged gallon(s)

Pumping Rate Calculation

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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	<input type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input type="checkbox"/>	HCL	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

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

Final Depth

Sample Time

 See instruction

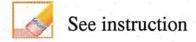
Comment

Arrived on site at 0845. Tanner and Garrin present for purge and sampling event. Purge began at 0851 Purged well for a total of 12 minutes. water was clear Purge ended at 0903. Left site at 0908.

TWN-08 10-15-2012 Do not touch this cell (SheetName)



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



Description of Sampling Event: 4th Quarter Nitrate 2012

Location (well name): TWN-08R

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID TWN-08R-10152012

Date and Time for Purging 10/15/2012

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 N/A

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 999 μ MHOS/ cm

Well Depth(0.01ft): 0

Depth to Water Before Purging 0

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

Conductance (avg) 1.2

pH of Water (avg) 6.28

Well Water Temp. (avg) 19.16

Redox Potential (Eh) 216

Turbidity 0

Weather Cond. Clear

Ext'l Amb. Temp. °C (prior sampling event) 3°

Time	<u>0833</u>	Gal. Purged	<u>130</u>
Conductance	<u>1.2</u>	pH	<u>6.28</u>
Temp. °C	<u>19.16</u>		
Redox Potential Eh (mV)	<u>216</u>		
Turbidity (NTU)	<u>0</u>		

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 gallon(s)

Pumping Rate Calculation

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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	<input type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input type="checkbox"/>	HCL	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

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

Final Depth

Sample Time

 See instruction

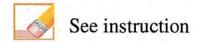
Comment

Arrived on site at 0815 Tanner and Garrin present for rinsate.
 Rinsate began at 0820 Pumped 50 Gallons of soap water and 100 Gallons of DI water. Samples taken at 0834 Left site at 0840
 Rinsate

TWN-08R 10-15-2012 Do not touch this cell (SheetName)



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



Description of Sampling Event: 4th Quarter Nitrate 2012

Location (well name): TWN-09

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID TWN-09_10172012

Date and Time for Purging 10/16/2012

and Sampling (if different) 10/17/2012

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-17

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 999 uMHOS/cm

Well Depth(0.01ft): 97.00

Depth to Water Before Purging 62.48

Casing Volume (V) 4" Well: 22.54 (.653h)
 3" Well: 0 (.367h)

Conductance (avg) 2569

pH of Water (avg) 6.93

Well Water Temp. (avg) 15.24

Redox Potential (Eh) 189

Turbidity 11.8

Weather Cond. Sunny

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

Time	<u>1349</u>	Gal. Purged	<u>30</u>
Conductance	<u>2569</u>	pH	<u>6.93</u>
Temp. °C	<u>15.24</u>		
Redox Potential Eh (mV)	<u>189</u>		
Turbidity (NTU)	<u>11.8</u>		

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

Time	<u>0734</u>	Gal. Purged	<u>0</u>
Conductance	<u>2556</u>	pH	<u>7.15</u>
Temp. °C	<u>13.35</u>		
Redox Potential Eh (mV)	<u>190</u>		
Turbidity (NTU)	<u>14.4</u>		

Time	<u>0737</u>	Gal. Purged	<u>0</u>
Conductance	<u>2596</u>	pH	<u>7.13</u>
Temp. °C	<u>13.33</u>		
Redox Potential Eh (mV)	<u>186</u>		
Turbidity (NTU)	<u>17.1</u>		

Volume of Water Purged Before gallon(s) After

Pumping Rate Calculation

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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	<input type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input type="checkbox"/>	HCL	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

Chloride

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

Final Depth

Sample Time

 See instruction

Comment

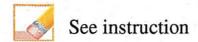
Arrived on site at 1343 Tanner and Garrin present for purge. Purge began at 1346 Purged well for a total of 3 minutes. Purged well dry. water was clear. Purge ended at 1349, Left site at 1351

Arrived on site at 0729. Tanner and Garrin present to collect samples. Depth to water was 62.50. Samples bailed at 0734. Left site at 0738

TWN-09 10-16-2012 Do not touch this cell (SheetName)



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



Description of Sampling Event: 4th Quarter Nitrate 2012

Location (well name): TWN-10

Sampler Name and initials: Janner Holliday/JH

Field Sample ID TWN-10-10162012

Date and Time for Purging 10/15/2012

and Sampling (if different) 10/16/2012

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 999 uMHOS/cm

Well Depth(0.01ft): 105.00

Depth to Water Before Purging 80.90

Casing Volume (V) 4" Well: 15.73 (.653h)
3" Well: 8 (.367h)

Conductance (avg) 3499

pH of Water (avg) 3.84

Well Water Temp. (avg) 15.58

Redox Potential (Eh) 384

Turbidity 31.6

Weather Cond. Sunny

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

Time	<u>1221</u>	Gal. Purged	<u>20</u>
Conductance	<u>3499</u>	pH	<u>3.84</u>
Temp. °C	<u>15.58</u>		
Redox Potential Eh (mV)	<u>384</u>		
Turbidity (NTU)	<u>31.6</u>		

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

Time	<u>0633</u>	Gal. Purged	<u>0</u>
Conductance	<u>3545</u>	pH	<u>3.01</u>
Temp. °C	<u>14.00</u>		
Redox Potential Eh (mV)	<u>458</u>		
Turbidity (NTU)	<u>4.9</u>		

Time	<u>0635</u>	Gal. Purged	<u>0</u>
Conductance	<u>3559</u>	pH	<u>3.10</u>
Temp. °C	<u>14.10</u>		
Redox Potential Eh (mV)	<u>450</u>		
Turbidity (NTU)	<u>7.9</u>		

Before

After

Volume of Water Purged Before 27.50 gallon(s) After

Pumping Rate Calculation

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

Time to evacuate two casing volumes (2V)
 T = 2V/Q = 3.14

Number of casing volumes evacuated (if other than two) 1.74

If well evacuated to dryness, number of gallons evacuated 27.50

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	<input type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input type="checkbox"/>	HCL	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

Chloride

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

Final Depth 102.13

Sample Time 0633

 See instruction

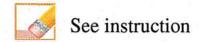
Comment

Arrived on site at 1215. Tanner and Garrin present for purge. Purge began at 1219 Purged well for 2 minutes and 45 seconds. Purged well dry. water was clear left site at 1230
 Arrived on site at 0628. Tanner and Garrin present to collect samples. Depth to water was 81.10 samples bailed at 0633. Left site at 0636

TWN-10 10-15-2012 Do not touch this cell (SheetName)



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



Description of Sampling Event: 4th Quarter Nitrate 2012

Location (well name): TWN-11

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID TWN-11-10162012

Date and Time for Purging 10/16/2012

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-11R

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 999 μ MHOS/cm

Well Depth(0.01ft): 142.00

Depth to Water Before Purging 69.35

Casing Volume (V) 4" Well: 47.44 (.653h)
3" Well: 0 (.367h)

Conductance (avg) 2742

pH of Water (avg) 6.83

Well Water Temp. (avg) 14.66

Redox Potential (Eh) 339

Turbidity 49

Weather Cond. Sunny

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

Time	<u>0820</u>	Gal. Purged	<u>70</u>
Conductance	<u>2743</u>	pH	<u>6.80</u>
Temp. °C	<u>14.66</u>		
Redox Potential Eh (mV)	<u>340</u>		
Turbidity (NTU)	<u>47.1</u>		

Time	<u>0821</u>	Gal. Purged	<u>80</u>
Conductance	<u>2741</u>	pH	<u>6.85</u>
Temp. °C	<u>14.66</u>		
Redox Potential Eh (mV)	<u>340</u>		
Turbidity (NTU)	<u>48</u>		

Time	<u>0822</u>	Gal. Purged	<u>90</u>
Conductance	<u>2743</u>	pH	<u>6.83</u>
Temp. °C	<u>14.67</u>		
Redox Potential Eh (mV)	<u>339</u>		
Turbidity (NTU)	<u>50</u>		

Time	<u>0823</u>	Gal. Purged	<u>100</u>
Conductance	<u>2743</u>	pH	<u>6.85</u>
Temp. °C	<u>14.67</u>		
Redox Potential Eh (mV)	<u>339</u>		
Turbidity (NTU)	<u>51</u>		

Volume of Water Purged gallon(s)

Pumping Rate Calculation

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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	<input type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input type="checkbox"/>	HCL	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

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

Final Depth

Sample Time

 See instruction

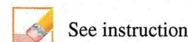
Comment

Arrived on site at 0810. Tanner and Garrin present for purge and sampling event. Purge began at 0813. Purged well for a total of 10 minutes. Water was mostly clear. Purge ended and samples collected at 0823. Left site at 0826

TWN-11 10-16-2012 Do not touch this cell (SheetName)



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



Description of Sampling Event: 4th Quarter Nitrate 2012

Location (well name): TWN-11R

Sampler Name and initials: Tanner Holliday TH

Field Sample ID TWN-11R_10/16/2012

Date and Time for Purging 10/16/2012

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-12

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 999 μ MHOS/cm

Well Depth(0.01ft): 0

Depth to Water Before Purging 0

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

Conductance (avg) 10.4

pH of Water (avg) 4.94

Well Water Temp. (avg) 19.84

Redox Potential (Eh) 487

Turbidity 1.2

Weather Cond. clear

Ext'l Amb. Temp. °C (prior sampling event) 4°

Time	<u>0755</u>	Gal. Purged	<u>130</u>
Conductance	<u>10.4</u>	pH	<u>4.94</u>
Temp. °C	<u>19.84</u>		
Redox Potential Eh (mV)	<u>487</u>		
Turbidity (NTU)	<u>1.2</u>		

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 gallon(s)

Pumping Rate Calculation

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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	<input type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input type="checkbox"/>	HCL	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

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

Final Depth

Sample Time

 See instruction

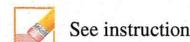
Comment

Arrived on site at 0740. Tanner and Garrin present for rinsate.
 Rinsate began at 0742. Pumped 50 Gallons of soap water and 100 Gallons of DI water. Rinsate ended and samples collected at 0744 0756.
 Left site at 0758.
 Rinsate

TWN-11R 10-16-2012 Do not touch this cell (SheetName)



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



Description of Sampling Event: 4th Quarter Nitrate 2012

Location (well name): TWN-12

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID TWN-12-10162012

Date and Time for Purging 10/16/2012

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-04

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 999 μ MHOS/cm

Well Depth(0.01ft): 110.00

Depth to Water Before Purging 27.20

Casing Volume (V) 4" Well: 54.06 (.653h)
 3" Well: 0 (.367h)

Conductance (avg) 2404

pH of Water (avg) 7.30

Well Water Temp. (avg) 14.26

Redox Potential (Eh) 321

Turbidity 207

Weather Cond. clear

Ext'l Amb. Temp. °C (prior sampling event) 3°

Time	<u>0729</u>	Gal. Purged	<u>90</u>
Conductance	<u>2398</u>	pH	<u>7.30</u>
Temp. °C	<u>14.2</u>		
Redox Potential Eh (mV)	<u>326</u>		
Turbidity (NTU)	<u>213</u>		

Time	<u>0730</u>	Gal. Purged	<u>100</u>
Conductance	<u>2401</u>	pH	<u>7.31</u>
Temp. °C	<u>14.30</u>		
Redox Potential Eh (mV)	<u>322</u>		
Turbidity (NTU)	<u>210</u>		

Time	<u>0731</u>	Gal. Purged	<u>110</u>
Conductance	<u>2410</u>	pH	<u>7.31</u>
Temp. °C	<u>14.25</u>		
Redox Potential Eh (mV)	<u>320</u>		
Turbidity (NTU)	<u>205</u>		

Time	<u>0732</u>	Gal. Purged	<u>120</u>
Conductance	<u>2409</u>	pH	<u>7.31</u>
Temp. °C	<u>14.28</u>		
Redox Potential Eh (mV)	<u>319</u>		
Turbidity (NTU)	<u>200</u>		

Volume of Water Purged gallon(s)

Pumping Rate Calculation

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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	<input type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input type="checkbox"/>	HCL	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologies	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

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

Final Depth

Sample Time

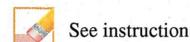
 See instruction

Comment
 Arrived on site at 0716 Tanner and Garrin present for purge and sampling event. Purge began at 0720. Purged well for a total of 12 minutes. Water had an orange color to it but slowly cleared throughout Purge. Purge ended and samples collected at 0732. Left site at 0735

TWN-12 10-16-2012 Do not touch this cell (SheetName)



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



Description of Sampling Event: 4th Quarter Nitrate 2012

Location (well name): TWN-13 Sampler Name and initials: Tanner Holliday / TH

Field Sample ID: TWN-13-10152012 TWN-13-10152012

Date and Time for Purging: 10/15/2012 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 TWN-08

Sampling Event: Quarterly Nitrate Prev. Well Sampled in Sampling Event: TW4-0

pH Buffer 7.0: 7.0 pH Buffer 4.0: 4.0

Specific Conductance: 999 μ MHOS/cm Well Depth(0.01ft): 120.00

Depth to Water Before Purging: 45.89 Casing Volume (V) 4" Well: 48.39 (.653h)
3" Well: 0 (.367h)

Conductance (avg): 1203 pH of Water (avg): 7.78

Well Water Temp. (avg): 15.06 Redox Potential (Eh): 132 Turbidity: 10.42

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

Time	<u>0950</u>	Gal. Purged	<u>70</u>
Conductance	<u>1201</u>	pH	<u>7.77</u>
Temp. °C	<u>15.09</u>		
Redox Potential Eh (mV)	<u>129</u>		
Turbidity (NTU)	<u>9.3</u>		

Time	<u>0951</u>	Gal. Purged	<u>80</u>
Conductance	<u>1206</u>	pH	<u>7.80</u>
Temp. °C	<u>15.06</u>		
Redox Potential Eh (mV)	<u>133</u>		
Turbidity (NTU)	<u>10.5</u>		

Time	<u>0952</u>	Gal. Purged	<u>90</u>
Conductance	<u>1204</u>	pH	<u>7.76</u>
Temp. °C	<u>15.05</u>		
Redox Potential Eh (mV)	<u>138</u>		
Turbidity (NTU)	<u>11.9</u>		

Time	<u>0953</u>	Gal. Purged	<u>100</u>
Conductance	<u>1201</u>	pH	<u>7.81</u>
Temp. °C	<u>15.05</u>		
Redox Potential Eh (mV)	<u>131</u>		
Turbidity (NTU)	<u>11.0</u>		

Volume of Water Purged gallon(s)

Pumping Rate Calculation

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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	<input type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input type="checkbox"/>	HCL	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

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

Final Depth

Sample Time

 See instruction

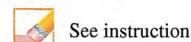
Comment

Arrived on site at 0940. Tanner and Garrin present for purge and sampling event.
 Purge began at 0943. Purged well for a total of 10 minutes, water was mostly clear. Purge ended and samples collected at 0953.
 Left site at 0956

TWN-13 10-15-2012 Do not touch this cell (SheetName)



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



Description of Sampling Event: 4th Quarter Nitrate 2012

Location (well name): TWN-14

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID TWN-14-10172012

Date and Time for Purging 10/16/2012

and Sampling (if different) 10/17/2012

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-16

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 999 μ MHOS/cm

Well Depth(0.01ft): 135.00

Depth to Water Before Purging 62.45

Casing Volume (V) 4" Well: 47.37 (.653h)
3" Well: 0 (.367h)

Conductance (avg) 1041

pH of Water (avg) 7.80

Well Water Temp. (avg) 15.04

Redox Potential (Eh) 350

Turbidity 193

Weather Cond. Sunny

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

Time	<u>1058</u>	Gal. Purged	<u>50</u>
Conductance	<u>1041</u>	pH	<u>7.80</u>
Temp. °C	<u>15.04</u>		
Redox Potential Eh (mV)	<u>350</u>		
Turbidity (NTU)	<u>193</u>		

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

Time	<u>0715</u>	Gal. Purged	<u>0</u>
Conductance	<u>1226</u>	pH	<u>7.17</u>
Temp. °C	<u>13.94</u>		
Redox Potential Eh (mV)	<u>162</u>		
Turbidity (NTU)	<u>6.3</u>		

Time	<u>0718</u>	Gal. Purged	<u>0</u>
Conductance	<u>1240</u>	pH	<u>7.20</u>
Temp. °C	<u>14.00</u>		
Redox Potential Eh (mV)	<u>159</u>		
Turbidity (NTU)	<u>12.9</u>		

Before

After

Volume of Water Purged Before gallon(s) After

Pumping Rate Calculation

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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	<input type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input type="checkbox"/>	HCL	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

Chloride

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

Final Depth

Sample Time

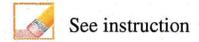
 See instruction

Comment
 Arrived on site at 1050 Tanner and Garrin on site for purge. Purge began at 1053
 Purged well for a total of 5 minutes. Purged well dry. water was a little murky with some sand in it. Purge ended at 1058. Left site at 1104
 Arrived on site at 0711. Tanner and Garrin present to collect samples. Depth to water was 62.72. Samples bailed at 0715. Left site at 0719

TWN-14 10-16-2012 Do not touch this cell (SheetName)



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



Description of Sampling Event: 4th Quarter Nitrate 2012

Location (well name): TWN-15

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID TWN-15-10172012

Date and Time for Purging 10/16/2012

and Sampling (if different) 10/17/2012

Well Purging Equip Used: pump or bailer

Well Pump (if other than Bennet) Grundfos

Purging Method Used: 2 casings 3 casings

Sampling Event Quarterly Chlorof Nitrate

Prev. Well Sampled in Sampling Event TWN-11

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 999 μ MHOS/ cm

Well Depth(0.01ft): 155.00

Depth to Water Before Purging 91.80

Casing Volume (V) 4" Well: 41.26 (.653h)
 3" Well: 0 (.367h)

Conductance (avg) 1499

pH of Water (avg) 6.94

Well Water Temp. (avg) 14.64

Redox Potential (Eh) 356

Turbidity 98

Weather Cond. Sunny

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

Time	<u>0901</u>	Gal. Purged	<u>60</u>
Conductance	<u>1499</u>	pH	<u>6.94</u>
Temp. °C	<u>14.64</u>		
Redox Potential Eh (mV)	<u>356</u>		
Turbidity (NTU)	<u>98</u>		

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

Time	<u>0704</u>	Gal. Purged	<u>0</u>
Conductance	<u>1756</u>	pH	<u>6.98</u>
Temp. °C	<u>14.26</u>		
Redox Potential Eh (mV)	<u>160</u>	<u>160</u>	
Turbidity (NTU)	<u>1.1</u>		

Time	<u>0707</u>	Gal. Purged	<u>0</u>
Conductance	<u>1762</u>	pH	<u>6.94</u>
Temp. °C	<u>14.31</u>		
Redox Potential Eh (mV)	<u>154</u>		
Turbidity (NTU)	<u>4.9</u>		

Before

AFTER

Volume of Water Purged ^{Before} gallon(s) ^{After}

Pumping Rate Calculation

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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	<input type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input type="checkbox"/>	HCL	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

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

Final Depth

Sample Time

 See instruction

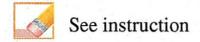
Comment

Arrived on site at 0852 Tanner and Garrin present for purge. Purge began at 0855
Purged well for a total of 6 minutes. water was mostly clear. Purged well dry!
Purge ended at 0901. Left site at 0904
Arrived on site at 0658. Tanner and Garrin present to collect samples. Depth to water was 91.75. samples bailed at 0704. Left site at 0708

TWN-15 10-16-2012 Do not touch this cell (SheetName)



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



Description of Sampling Event: 4th Quarter Nitrate 2012

Location (well name): TWN-16

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID TWN-16-10162012

Date and Time for Purging 10/16/2012

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-18

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 999 μ MHOS/ cm

Well Depth(0.01ft): 100.00

Depth to Water Before Purging 47.60

Casing Volume (V) 4" Well: 34.21 (.653h)
 3" Well: 0 (.367h)

Conductance (avg) 1831

pH of Water (avg) 7.03

Well Water Temp. (avg) 14.72

Redox Potential (Eh) 345

Turbidity 16

Weather Cond. Sunny Sunny

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

Time	<u>1013</u>	Gal. Purged	<u>40</u>
Conductance	<u>1838</u>	pH	<u>7.06</u>
Temp. °C	<u>14.74</u>		
Redox Potential Eh (mV)	<u>345</u>		
Turbidity (NTU)	<u>9</u>		

Time	<u>1014</u>	Gal. Purged	<u>50</u>
Conductance	<u>1837</u>	pH	<u>7.04</u>
Temp. °C	<u>14.73</u>		
Redox Potential Eh (mV)	<u>345</u>		
Turbidity (NTU)	<u>18</u>		

Time	<u>1015</u>	Gal. Purged	<u>60</u>
Conductance	<u>1829</u>	pH	<u>7.03</u>
Temp. °C	<u>14.72</u>		
Redox Potential Eh (mV)	<u>345</u>		
Turbidity (NTU)	<u>18</u>		

Time	<u>1016</u>	Gal. Purged	<u>70</u>
Conductance	<u>1820</u>	pH	<u>7.01</u>
Temp. °C	<u>14.72</u>		
Redox Potential Eh (mV)	<u>345</u>		
Turbidity (NTU)	<u>19</u>		

Volume of Water Purged gallon(s)

Pumping Rate Calculation

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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	<input type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input type="checkbox"/>	HCL	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

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

Final Depth

Sample Time

 See instruction

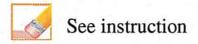
Comment

Arrived on site at 1005 Tanner and Garrin present for purge and sampling event. Purge began at 1009. Purged well for a total of 7 minutes. water was clear. Purge ended and samples collected at 1016 Left site at 1019

TWN-16 10-16-2012 Do not touch this cell (SheetName)



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



Description of Sampling Event: 4th Quarter Nitrate 2012

Location (well name): TWN-17

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID TWN-17-10172012

Date and Time for Purging 10/16/2012

and Sampling (if different) 10/17/2012

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-19

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 999 μ MHOS/ cm

Well Depth(0.01ft): 110.00

Depth to Water Before Purging 33.64

Casing Volume (V) 4" Well: 49.86 (.653h)
3" Well: 0 (.367h)

Conductance (avg) 1120

pH of Water (avg) 7.41

Well Water Temp. (avg) 15.35

Redox Potential (Eh) 163

Turbidity 97

Weather Cond. Sunny

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

Time	<u>1303</u>	Gal. Purged	<u>60</u>
Conductance	<u>1120</u>	pH	<u>7.41</u>
Temp. °C	<u>15.35</u>		
Redox Potential Eh (mV)	<u>163</u>		
Turbidity (NTU)	<u>97</u>		

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

Time	<u>0725</u>	Gal. Purged	<u>0</u>
Conductance	<u>1139</u>	pH	<u>7.38</u>
Temp. °C	<u>13.94</u>		
Redox Potential Eh (mV)	<u>181</u>		
Turbidity (NTU)	<u>7.5</u>		

Time	<u>0728</u>	Gal. Purged	<u>0</u>
Conductance	<u>1136</u>	pH	<u>7.38</u>
Temp. °C	<u>14.05</u>		
Redox Potential Eh (mV)	<u>183</u>		
Turbidity (NTU)	<u>16.1</u>		

Volume of Water Purged Before gallon(s) After

Pumping Rate Calculation

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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	<input type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input type="checkbox"/>	HCL	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

Chloride

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

Final Depth

Sample Time

 See instruction

Comment

Arrived on site at 1255 Tanner and Garrin present for purge. Purge began at 1257
 Purged well for a total of 6 minutes. Water was murky with some sand particles.
 Purged well dry! Purge ended at 1303. Left site at 1306
 Arrived on site at 0720. Tanner and Garrin present to collect samples. Depth to water was 33.68
 Samples bailed at 0725 Left site at 0728

TWN-17 10-16-2012 Do not touch this cell (SheetName)



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

See instruction

Description of Sampling Event: 4th Quarter Nitrate 2012

Location (well name): TWN-18

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TWN-18_10162012

Date and Time for Purging: 10/16/2012

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-15

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.6

Specific Conductance: 999 µMHOS/cm

Well Depth(0.01ft): 145.00

Depth to Water Before Purging: 57.90

Casing Volume (V) 4" Well: 56.87 (.653h)
 3" Well: 0 (.367h)

Conductance (avg): 2147

pH of Water (avg): 6.98

Well Water Temp. (avg): 14.44

Redox Potential (Eh): 329

Turbidity: 170

Weather Cond.: Sunny

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

Time	<u>40</u> <u>0936</u>	Gal. Purged	<u>6936</u> <u>90</u>
Conductance	<u>2143</u>	pH	<u>6.97</u>
Temp. °C	<u>14.44</u>		
Redox Potential Eh (mV)	<u>329</u>		
Turbidity (NTU)	<u>187</u>		

Time	<u>40</u> <u>0937</u>	Gal. Purged	<u>6957</u> <u>100</u>
Conductance	<u>2147</u>	pH	<u>6.98</u>
Temp. °C	<u>14.44</u>		
Redox Potential Eh (mV)	<u>329</u>		
Turbidity (NTU)	<u>171</u>		

Time	<u>40</u> <u>0938</u>	Gal. Purged	<u>6938</u> <u>110</u>
Conductance	<u>2151</u>	pH	<u>6.99</u>
Temp. °C	<u>14.44</u>		
Redox Potential Eh (mV)	<u>329</u>		
Turbidity (NTU)	<u>163</u>		

Time	<u>40</u> <u>0939</u>	Gal. Purged	<u>6939</u> <u>120</u>
Conductance	<u>2149</u>	pH	<u>6.99</u>
Temp. °C	<u>14.44</u>		
Redox Potential Eh (mV)	<u>329</u>		
Turbidity (NTU)	<u>159</u>		

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Volume of Water Purged gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.

S/60 =

Time to evacuate two casing volumes (2V)

T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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	<input type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input type="checkbox"/>	HCL	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

Chloride

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

Final Depth

Sample Time

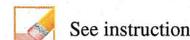
See instruction

Comment

Arrived on site at 0924 Tanner and Garrin present for purge and sampling event. Purge began at 0927. Purged well for a total of 12 minutes. Water was a little Murky. Purge ended and samples collected at 0939. Left site at 0942.



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



Description of Sampling Event: 4th Quarter Nitrate 2012

Location (well name): TWN-19

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: TWN-19_10162012

Date and Time for Purging: 10/16/2012

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-14

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 999 μ MHOS/cm

Well Depth(0.01ft): 110.00

Depth to Water Before Purging: 52.15

Casing Volume (V) 4" Well: 37.77 (.653h)
3" Well: 0 (.367h)

Conductance (avg): 1943

pH of Water (avg): 7.31

Well Water Temp. (avg): 15.07

Redox Potential (Eh): 170

Turbidity: 16

Weather Cond.: Sunny

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

Time	<u>1221</u>	Gal. Purged	<u>50</u>
Conductance	<u>1940</u>	pH	<u>7.33</u>
Temp. °C	<u>15.07</u>		
Redox Potential Eh (mV)	<u>173</u>		
Turbidity (NTU)	<u>16.9</u>		

Time	<u>1222</u>	Gal. Purged	<u>60</u>
Conductance	<u>1943</u>	pH	<u>7.31</u>
Temp. °C	<u>15.08</u>		
Redox Potential Eh (mV)	<u>171</u>		
Turbidity (NTU)	<u>16.8</u>		

Time	<u>1223</u>	Gal. Purged	<u>70</u>
Conductance	<u>1950</u>	pH	<u>7.31</u>
Temp. °C	<u>15.08</u>		
Redox Potential Eh (mV)	<u>171</u>		
Turbidity (NTU)	<u>16.5</u>		

Time	<u>1224</u>	Gal. Purged	<u>80</u>
Conductance	<u>1941</u>	pH	<u>7.30</u>
Temp. °C	<u>15.07</u>		
Redox Potential Eh (mV)	<u>168</u>		
Turbidity (NTU)	<u>15.9</u>		

Volume of Water Purged gallon(s)

Pumping Rate Calculation

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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	<input type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input type="checkbox"/>	HCL	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

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

Final Depth

Sample Time

 See instruction

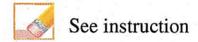
Comment

Arrived on site at 1213. Tanner and Garrin present for purge and sampling event. Purge began at 1216. Purged well for 8 minutes. After 6 minutes well started to sputter but kept up. water was clear. Purge ended and samples collected at 1224. Left site at 1227

TWN-19 10-16-2012 Do not touch this cell (SheetName)



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



Description of Sampling Event: 4th Quarter Nitrate

Location (well name): TWN-66

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID TWN-60-10172012

Date and Time for Purging 10/17/2012

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-01

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 999 μ MHOS/ cm

Well Depth(0.01ft): 0

Depth to Water Before Purging 0

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

Conductance (avg) 0.8

pH of Water (avg) 6.60

Well Water Temp. (avg) 21.69

Redox Potential (Eh) 211

Turbidity 0

Weather Cond. Clear

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

Time	<u>0909</u>	Gal. Purged	<u>0</u>
Conductance	<u>0.8</u>	pH	<u>6.60</u>
Temp. °C	<u>21.69</u>		
Redox Potential Eh (mV)	<u>374.</u>	<u>211</u>	
Turbidity (NTU)	<u>0</u>		

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 gallon(s)

Pumping Rate Calculation

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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	<input type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input type="checkbox"/>	HCL	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

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

Final Depth

Sample Time

 See instruction

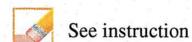
Comment

DI Sample

TWN-60 10-17-2012 Do not touch this cell (SheetName)



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



Description of Sampling Event: 4th Quarter Nitrate 2012

Location (well name): TWN-65 Sampler Name and initials: Tanner Holliday/TH

Field Sample ID TWN-65-10152012

Date and Time for Purging 10/15/2012 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 999 μ MHOS/ cm Well Depth(0.01ft): 125.70

Depth to Water Before Purging 43.60 Casing Volume (V) 4" Well: 53.61 (.653h)
 3" Well: 0 (.367h)

Conductance (avg) 1012 pH of Water (avg) 7.21

Well Water Temp. (avg) 14.60 Redox Potential (Eh) 215 Turbidity 62

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

Time	<input type="text"/>	Gal. Purged	<input type="text"/>
Conductance	<input type="text"/>	pH	<input type="text"/>
Temp. °C	<input type="text"/>		
Redox Potential Eh (mV)	<input type="text"/>		
Turbidity (NTU)	<input type="text"/>		

Time	<input type="text"/>	Gal. Purged	<input type="text"/>
Conductance	<input type="text"/>	pH	<input type="text"/>
Temp. °C	<input type="text"/>		
Redox Potential Eh (mV)	<input type="text"/>		
Turbidity (NTU)	<input type="text"/>		

Time	<input type="text"/>	Gal. Purged	<input type="text"/>
Conductance	<input type="text"/>	pH	<input type="text"/>
Temp. °C	<input type="text"/>		
Redox Potential Eh (mV)	<input type="text"/>		
Turbidity (NTU)	<input type="text"/>		

Time	<input type="text"/>	Gal. Purged	<input type="text"/>
Conductance	<input type="text"/>	pH	<input type="text"/>
Temp. °C	<input type="text"/>		
Redox Potential Eh (mV)	<input type="text"/>		
Turbidity (NTU)	<input type="text"/>		

Volume of Water Purged gallon(s)

Pumping Rate Calculation

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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	<input type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input type="checkbox"/>	HCL	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologies	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

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

Final Depth

Sample Time

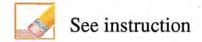
 See instruction

Comment

TWN-65 10-15-2012 Do not touch this cell (SheetName)



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



Description of Sampling Event: 4th Quarter Nitrate 2012

Location (well name): TWN-70

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID TWN-70_10172012

Date and Time for Purging 10/16/2012

and Sampling (if different) 10/17/2012

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-11

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 999 μ MHOS/cm

Well Depth(0.01ft): 155.00

Depth to Water Before Purging 91.80

Casing Volume (V) 4" Well: 41.26 (.653h)
3" Well: 0 (.367h)

Conductance (avg) 1499

pH of Water (avg) 6.94

Well Water Temp. (avg) 14.64

Redox Potential (Eh) 356

Turbidity

Weather Cond. Sunny

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

Time	<input type="text"/>	Gal. Purged	<input type="text"/>
Conductance	<input type="text"/>	pH	<input type="text"/>
Temp. °C	<input type="text"/>		
Redox Potential Eh (mV)	<input type="text"/>		
Turbidity (NTU)	<input type="text"/>		

Time	<input type="text"/>	Gal. Purged	<input type="text"/>
Conductance	<input type="text"/>	pH	<input type="text"/>
Temp. °C	<input type="text"/>		
Redox Potential Eh (mV)	<input type="text"/>		
Turbidity (NTU)	<input type="text"/>		

Time	<input type="text"/>	Gal. Purged	<input type="text"/>
Conductance	<input type="text"/>	pH	<input type="text"/>
Temp. °C	<input type="text"/>		
Redox Potential Eh (mV)	<input type="text"/>		
Turbidity (NTU)	<input type="text"/>		

Time	<input type="text"/>	Gal. Purged	<input type="text"/>
Conductance	<input type="text"/>	pH	<input type="text"/>
Temp. °C	<input type="text"/>		
Redox Potential Eh (mV)	<input type="text"/>		
Turbidity (NTU)	<input type="text"/>		

Volume of Water Purged gallon(s)

Pumping Rate Calculation

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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	<input type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input type="checkbox"/>	HCL	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

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

Final Depth

Sample Time

 See instruction

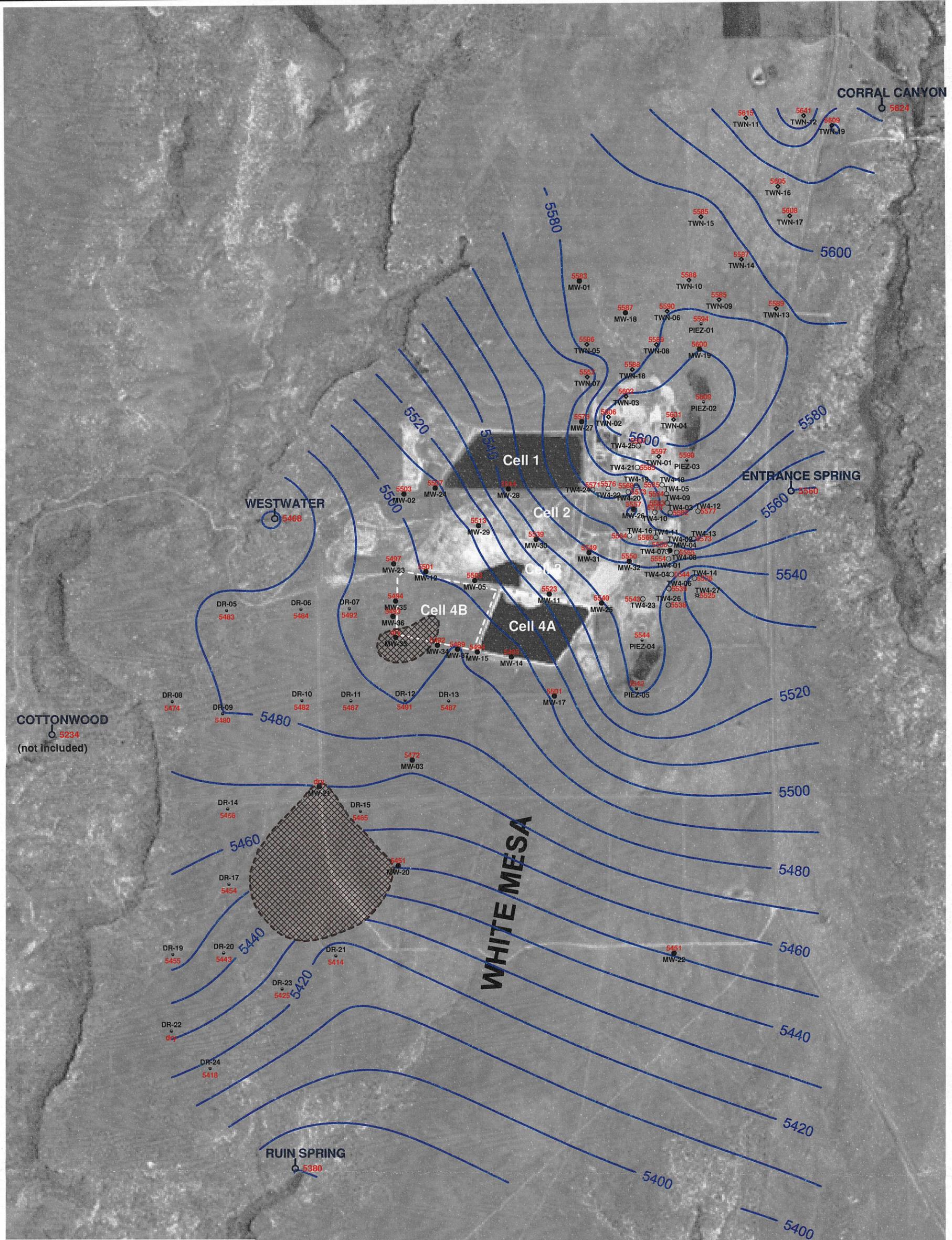
Comment

Duplicate of TWW-15

TWN-70 10-16-2012 Do not touch this cell (SheetName)

Tab C

Kriged Current Quarter Groundwater Contour Map and Depth to Water Summary



EXPLANATION

-  estimated dry area
- MW-5  5503 perched monitoring well showing elevation in feet amsl
- TW4-12  5577 temporary perched monitoring well showing elevation in feet amsl
- TWN-10  5586 temporary perched nitrate monitoring well showing elevation in feet amsl
- PIEZ-1  5594 perched piezometer showing elevation in feet amsl
- TW4-27  5525 temporary perched monitoring well installed October, 2011 showing elevation in feet amsl
- RUIN SPRING  5380 seep or spring showing elevation in feet amsl



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**KRIGED 4th QUARTER, 2012 WATER LEVELS
WHITE MESA SITE**

APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/feb13/Uwl1212.srf	C-1

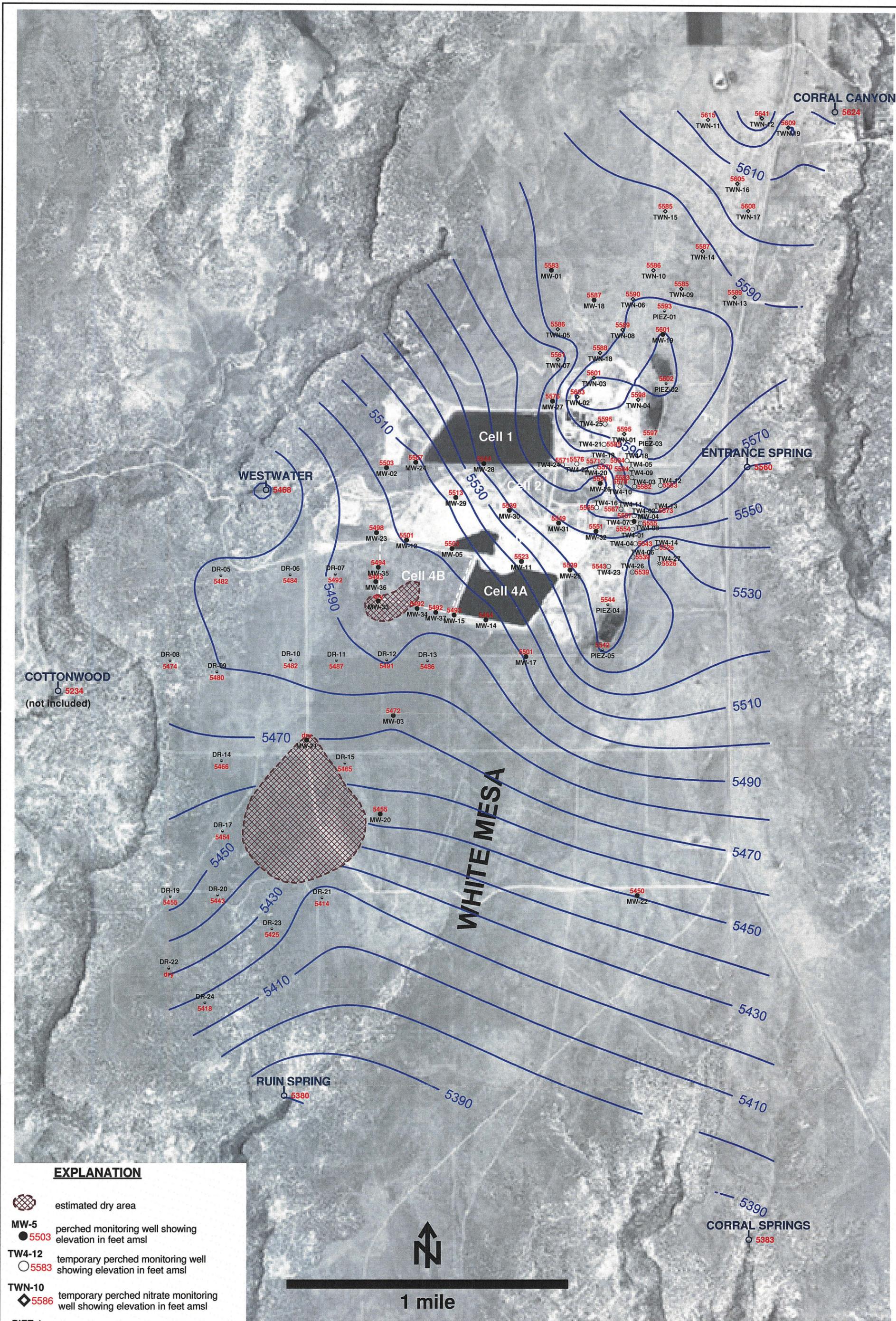
NAME: Garrin Palmer

DATE: 12/28/2012

TIME	WELL	Static level	TIME	WELL	Static Level	TIME	WELL	Static Level	TIME	WELL	Static Level
824	MW-1	64.15	1251	MW-4	73.02	1341	PIEZ-1	61.55	NA	DR-1	ABANDON
706	MW-2	109.75	1256	TW4-1	64.99	1343	PIEZ-2	20.20	NA	DR-2	ABANDON
701	MW-3	83.06	1249	TW4-2	66.90	1346	PIEZ-3	40.31			
701	MW-3A	85.04	1245	TW4-3	50.29	1438	PIEZ-4	46.85			
719	MW-5	106.27	1302	TW4-4	69.98	1441	PIEZ-5	41.95	910	DR-5	82.9
717	MW-11	87.54	1240	TW4-5	56.81				916	DR-6	94.4
721	MW-12	108.50	1307	TW4-6	70.04	1207	TWN-1	51.47	1500	DR-7	92
740	MW-14	103.52	1253	TW4-7	67.92	1210	TWN-2	20.93	925	DR-8	50.96
736	MW-15	106.35	1259	TW4-8	66.54	1214	TWN-3	32.76	922	DR-9	86.31
1445	MW-17	73.60	1243	TW4-9	54.75	1218	TWN-4	41.01	919	DR-10	78.12
827	MW-18	70.12	1236	TW4-10	56.37	838	TWN-5	69.28	1454	DR-11	98.25
746	MW-19	55.01	1330	TW4-11	57.85	820	TWN-6	75.27	1451	DR-12	89.12
650	MW-20	89.95	1320	TW4-12	47.13	840	TWN-7	87.76	1448	DR-13	69.65
645	MW-22	66.71	1322	TW4-13	47.15	831	TWN-8	62.30	931	DR-14	76.27
723	MW-23	115.39	1325	TW4-14	86.89	752	TWN-9	62.21	959	DR-15	92.8
641	MW-24	114.18	1233	TW4-15	68.15	817	TWN-10	80.70	NA	DR-16	ABANDON
714	MW-25	73.19	1333	TW4-16	60.25	811	TWN-11	69.25	934	DR-17	64.75
654	MW-26	59.93	1336	TW4-17	74.95	806	TWN-12	27.72	NA	DR-18	ABANDON
705	MW-27	51.46	1201	TW4-18	56.63	755	TWN-13	45.61	937	DR-19	63.05
639	MW-28	76.28	1400	TW4-19	63.18	758	TWN-14	62.20	946	DR-20	55.35
708	MW-29	101.82	1231	TW4-20	56.95	814	TWN-15	91.74	1002	DR-21	107.35
710	MW-30	75.51	1204	TW4-21	54.10	803	TWN-16	47.60	939	DR-22	DRY
712	MW-31	67.49	1228	TW4-22	53.41	801	TWN-17	33.47	951	DR-23	70.46
658	MW-32	74.95	1310	TW4-23	64.76	836	TWN-18	57.95	942	DR-24	43.54
728	MW-33	DRY	1225	TW4-24	54.78	858	TWN-19	52.50	NA	DR-25	ABANDON
731	MW-34	107.95	1157	TW4-25	47.50						
725	MW-35	112.36	1314	TW4-26	63.48						
727	MW-36	110.51	1328	TW4-27	83.08						
734	MW-37	110.17									

Tab D

Kriged Previous Quarter Groundwater Contour Map



EXPLANATION

-  estimated dry area
- MW-5**
 5503 perched monitoring well showing elevation in feet amsl
- TW4-12**
 5583 temporary perched monitoring well showing elevation in feet amsl
- TWN-10**
 5586 temporary perched nitrate monitoring well showing elevation in feet amsl
- PIEZ-1**
 5593 perched piezometer showing elevation in feet amsl
- TW4-27**
 5526 temporary perched monitoring well installed October, 2011 showing elevation in feet amsl
- RUIN SPRING**
 5380 seep or spring showing elevation in feet amsl

NOTE: MW-4, MW-26, TW4-4, TW4-19, and TW4-20 are pumping wells



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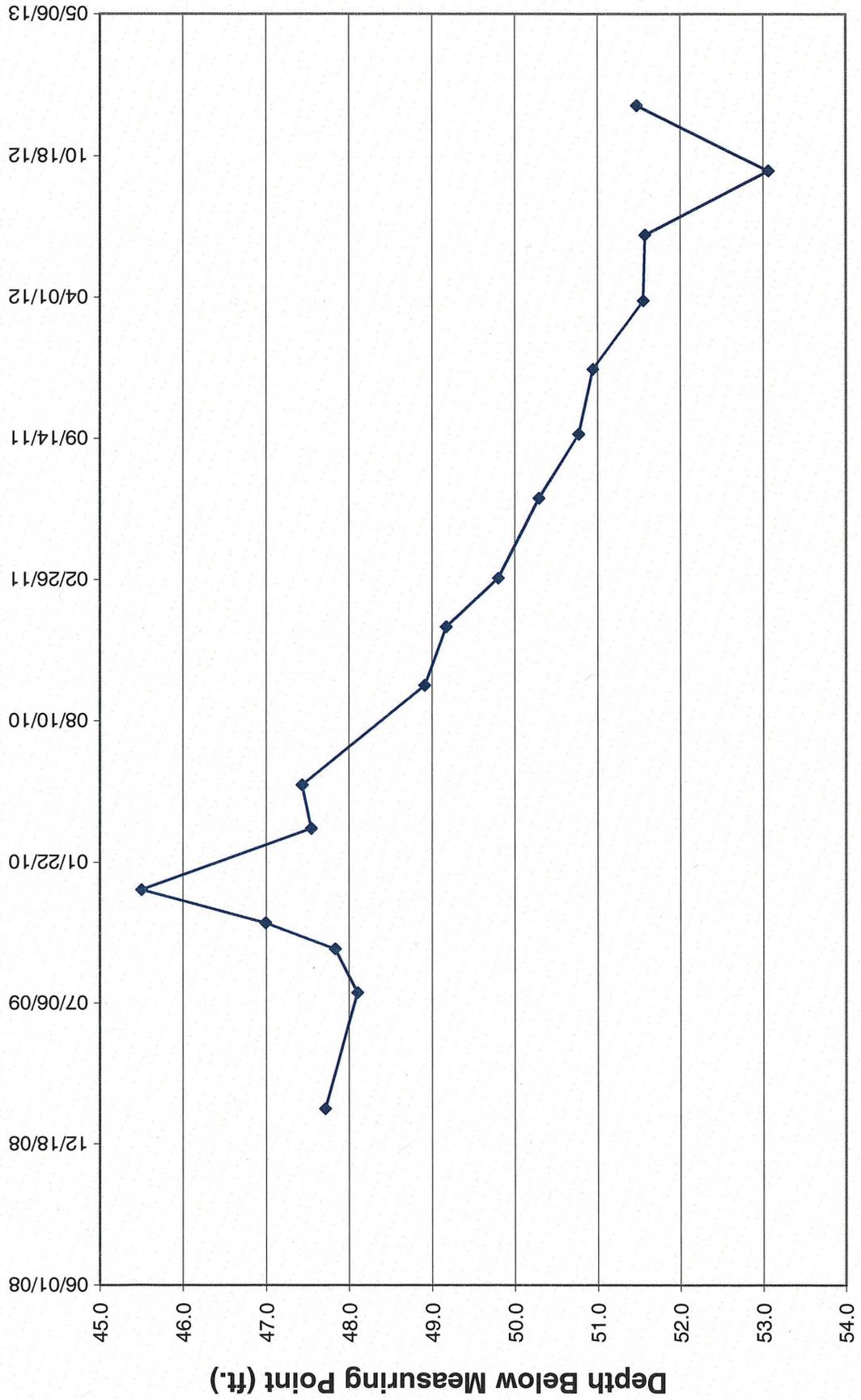
**KRIGED 3rd QUARTER, 2012 WATER LEVELS
WHITE MESA SITE**

APPROVED	DATE	REFERENCE	FIGURE
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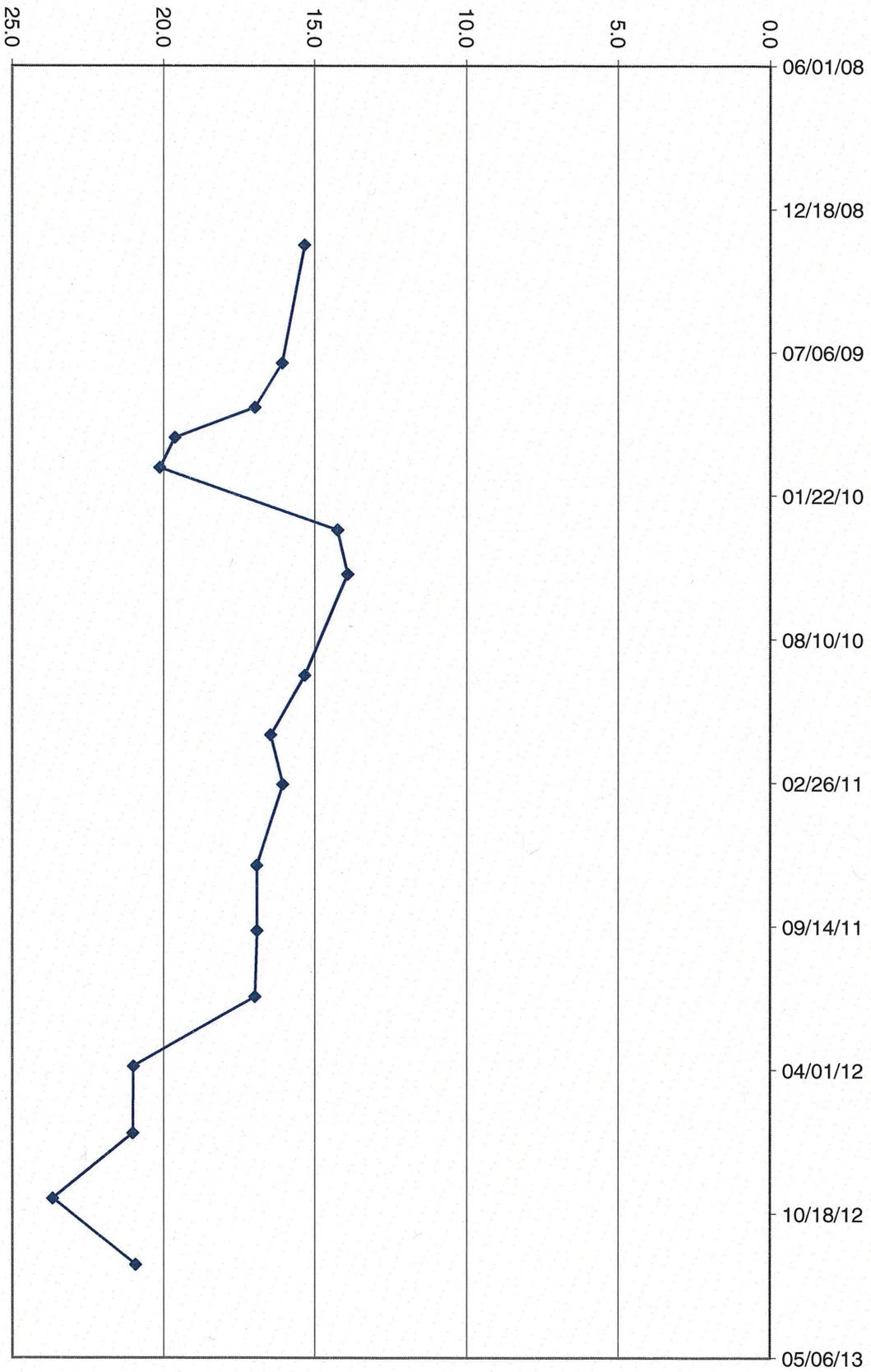
Tab E

Hydrographs of Groundwater Elevations Over Time for Nitrate Monitoring Wells

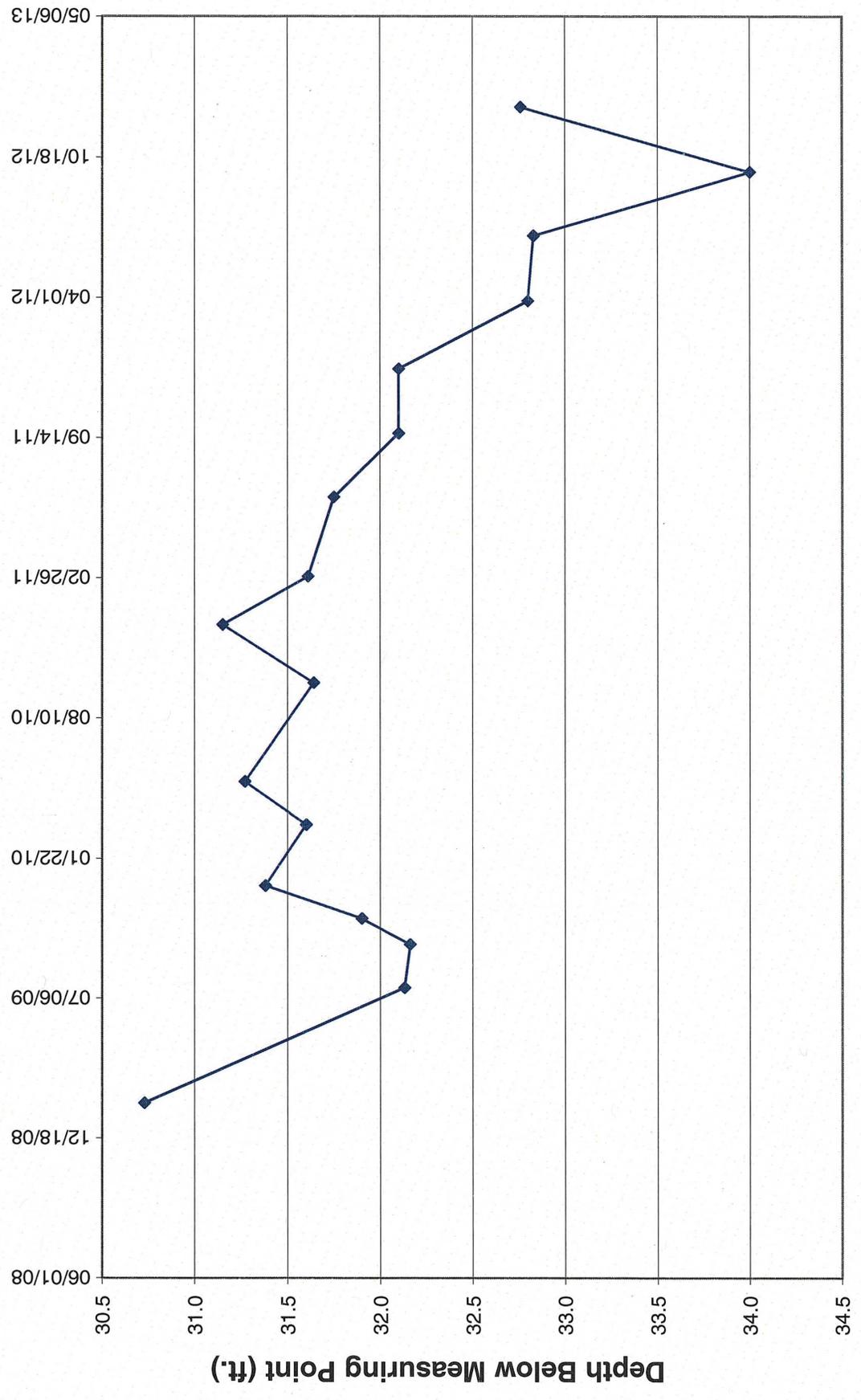
TWN-1 Water Level Over Time (ft. blimp)



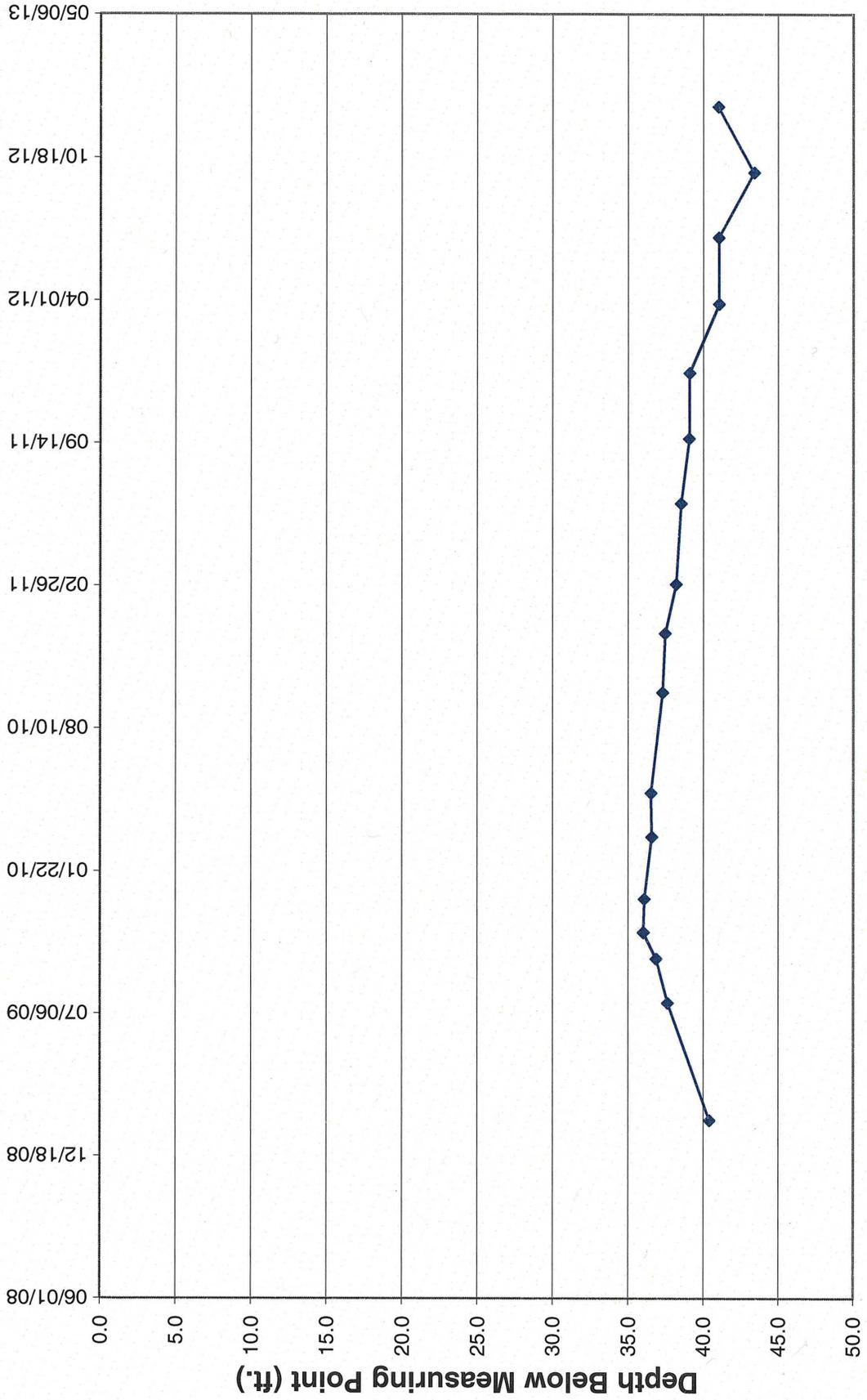
Depth Below Measuring Point (ft.)



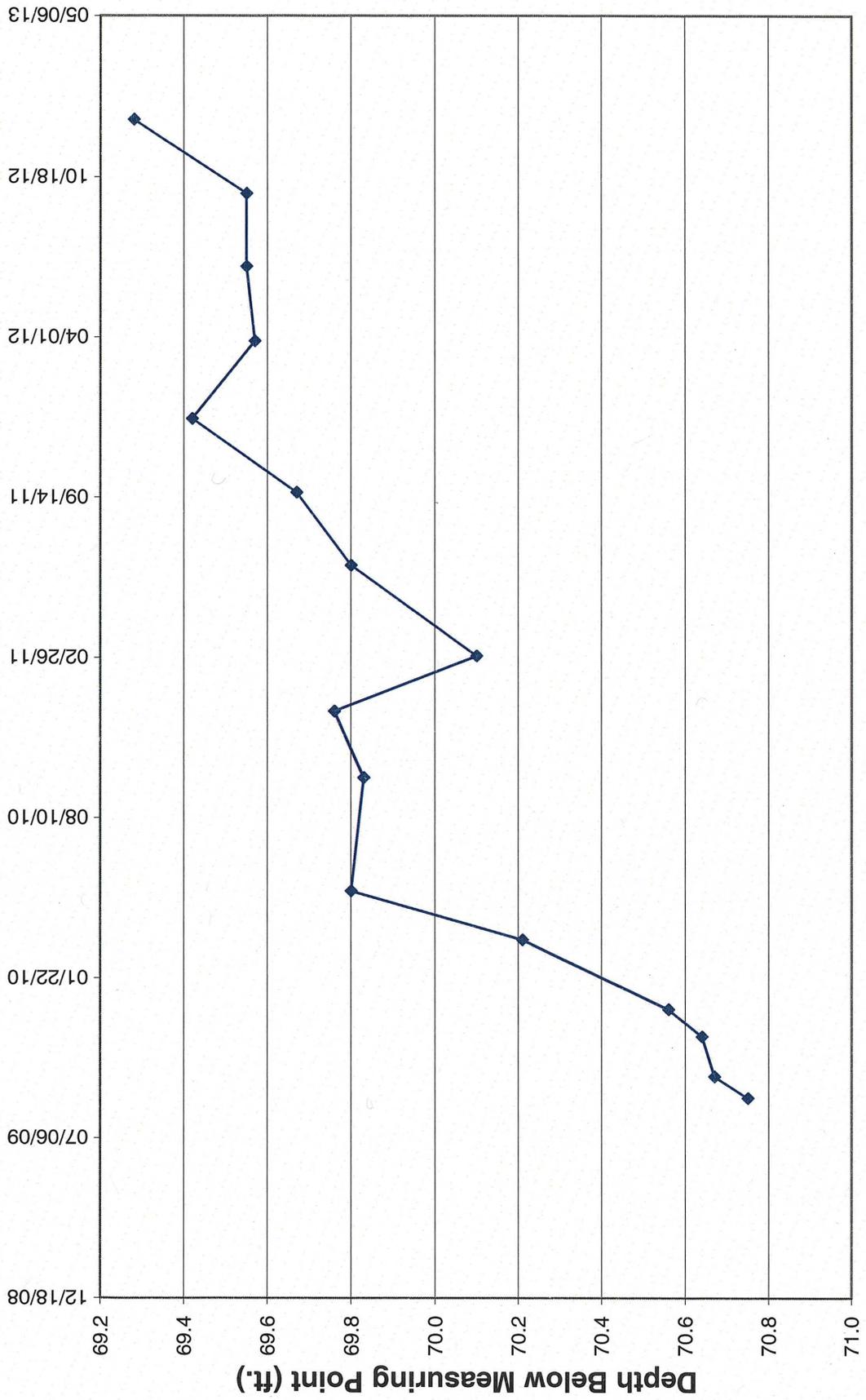
TWN-3 Water Level Over Time (ft. blmp)



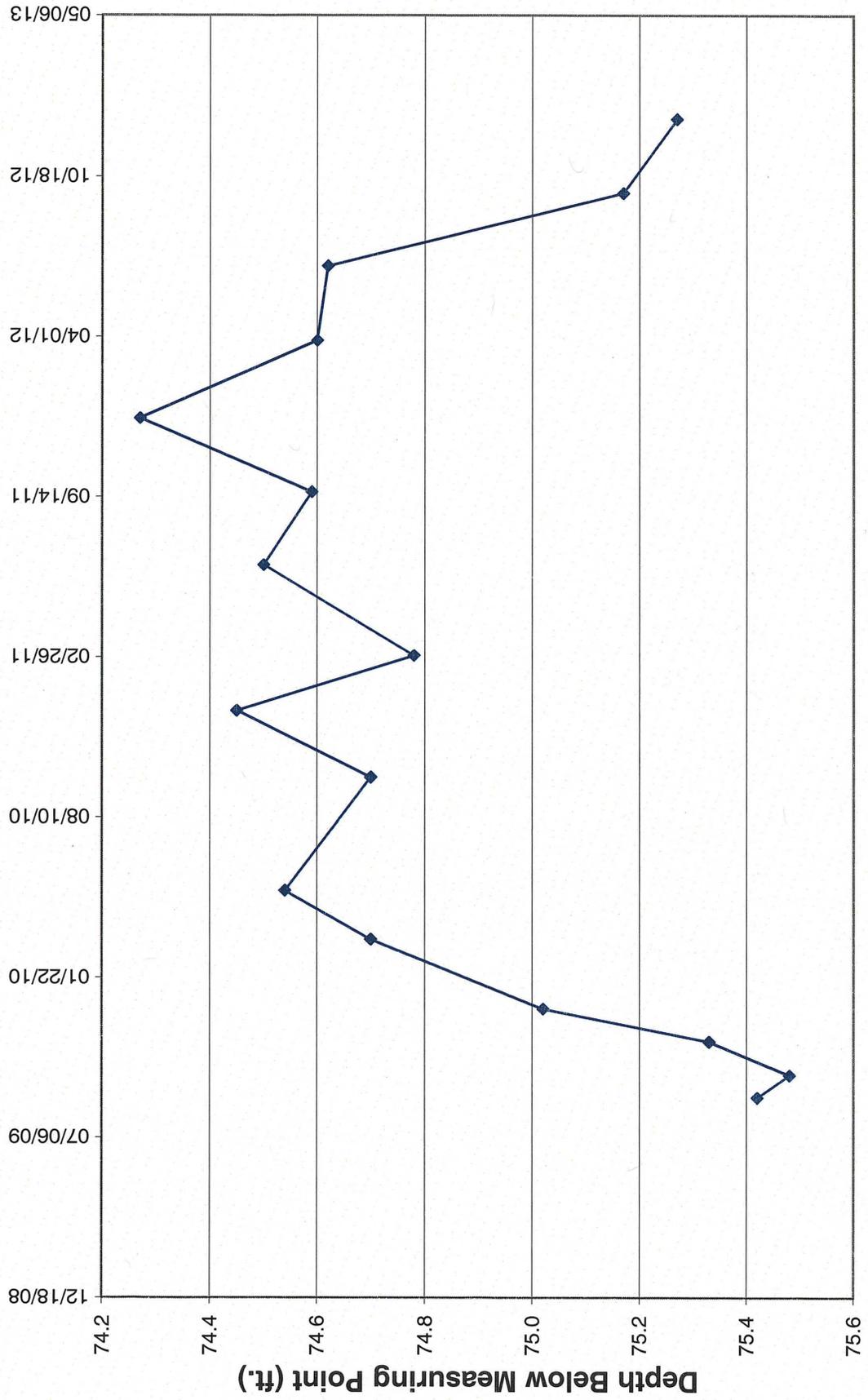
TWN-4 Water Level Over Time (ft. blmp)



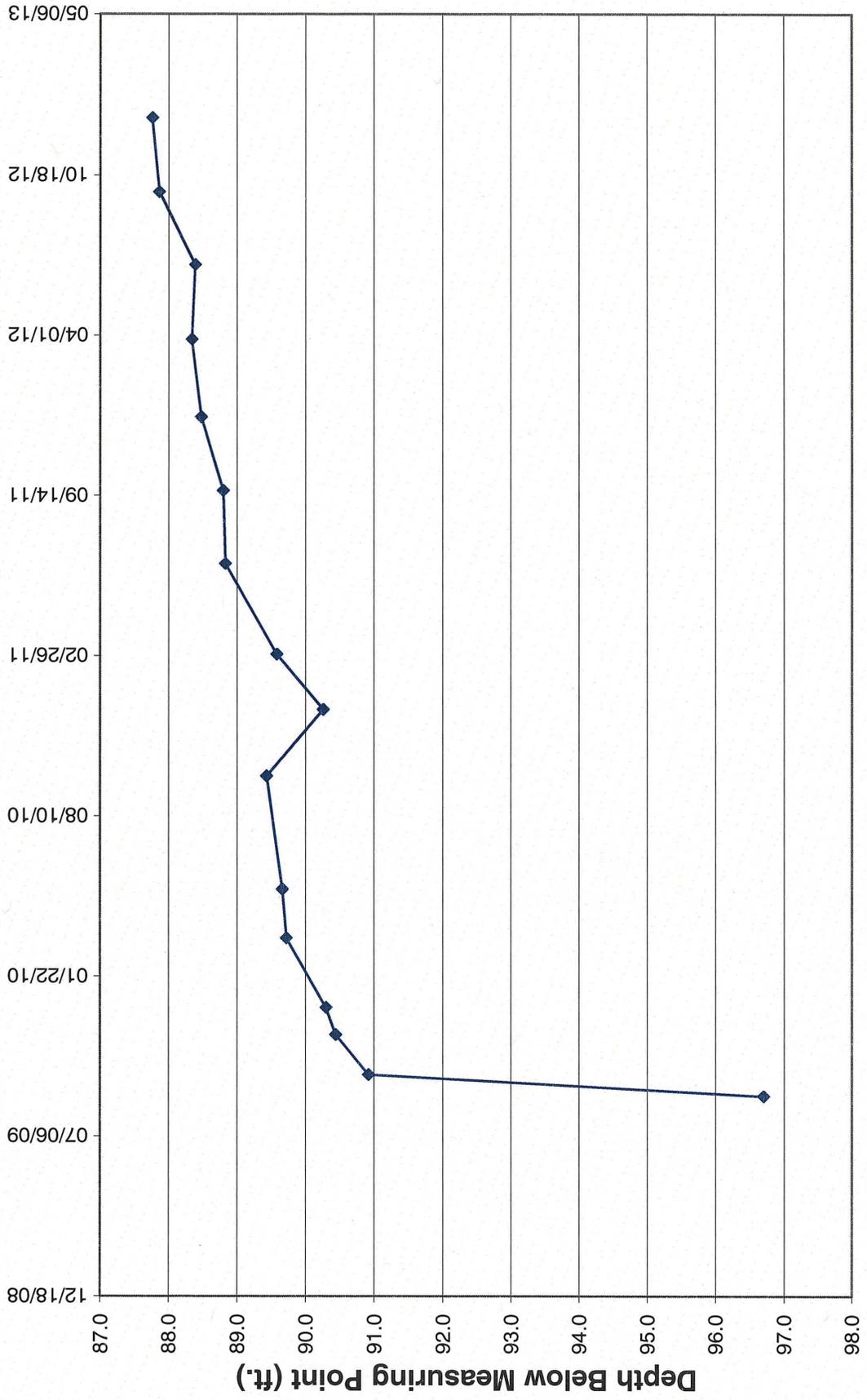
TWN-5 Water Level Over Time (ft. blimp)

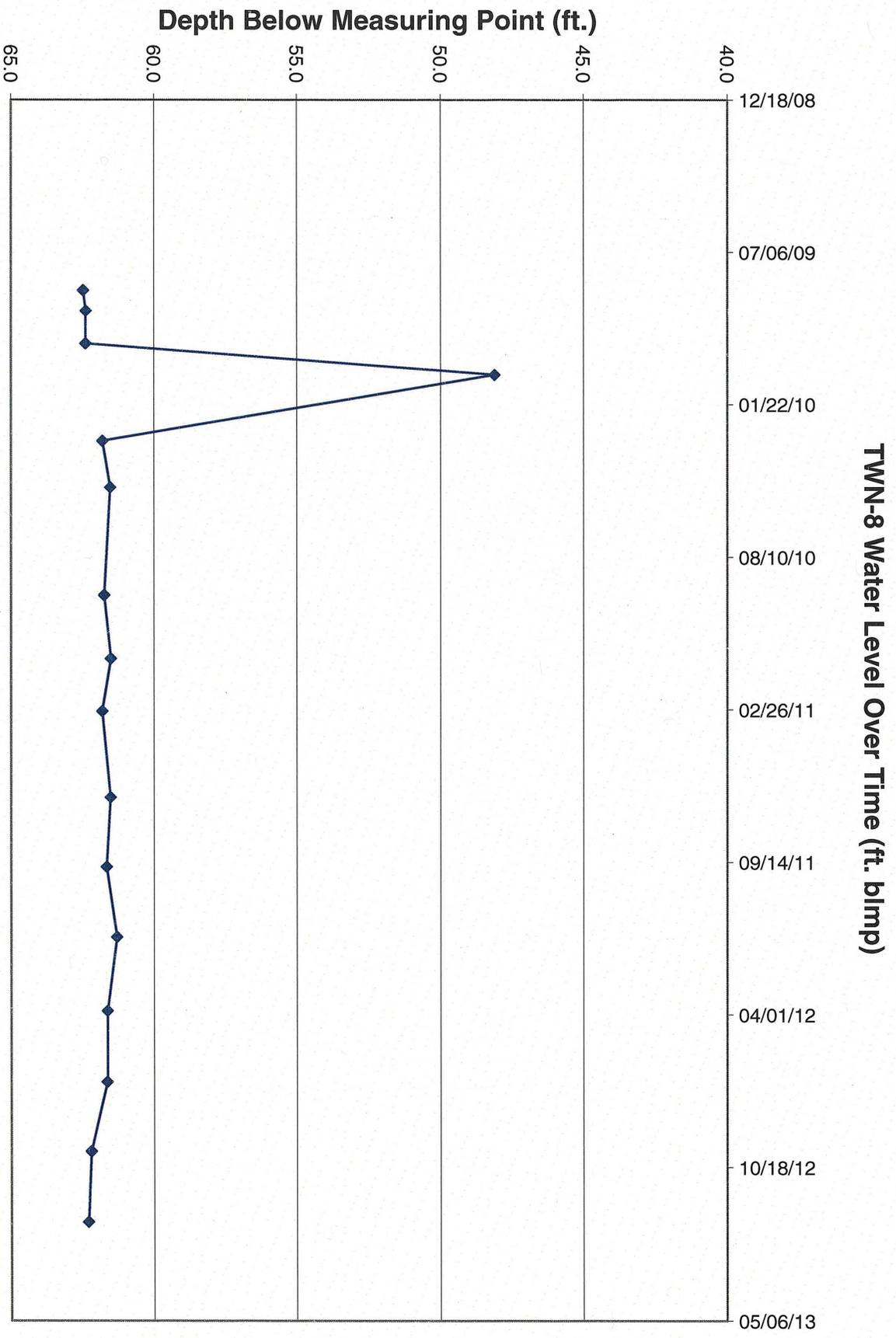


TWN-6 Water Level Over Time (ft. blmp)

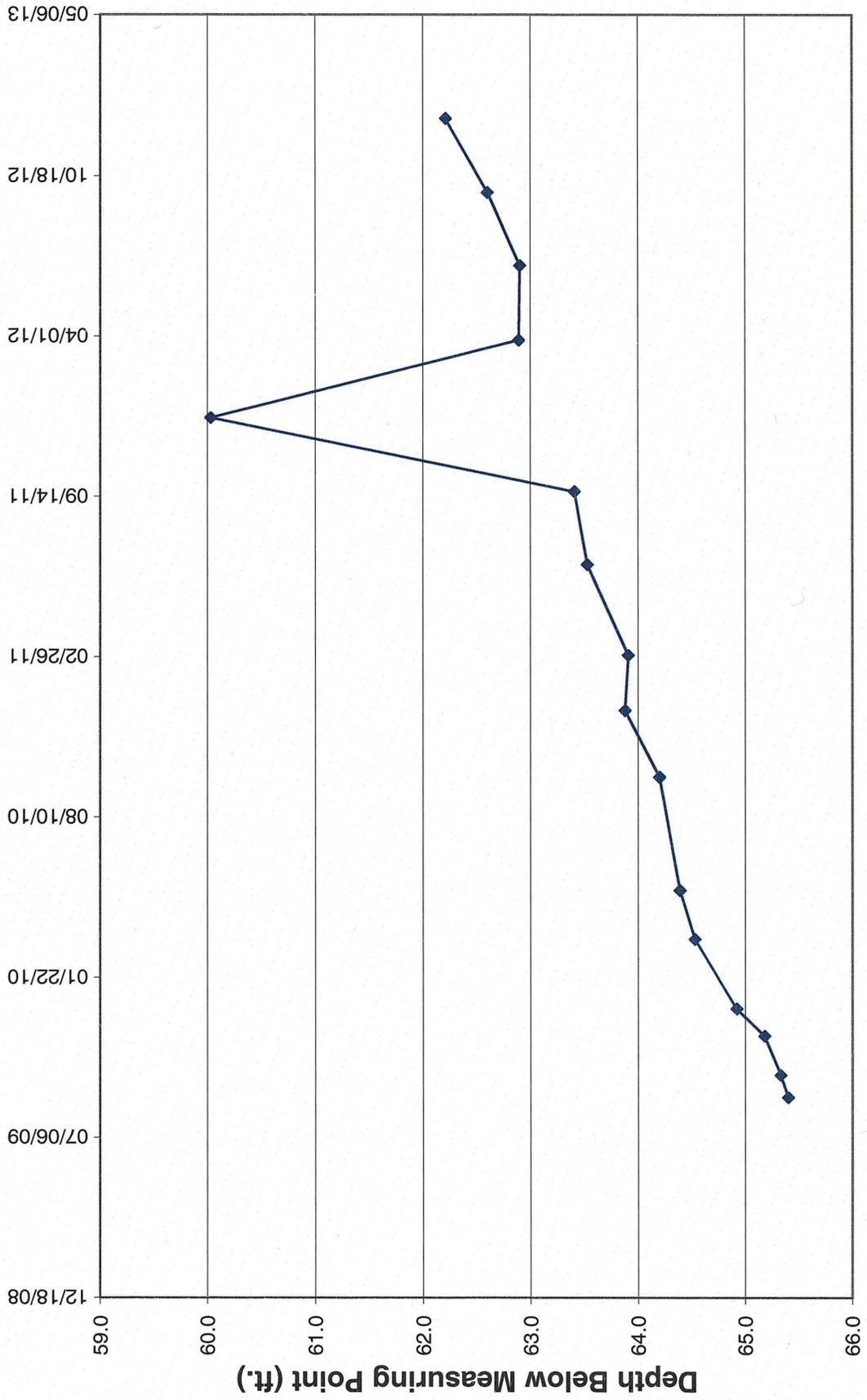


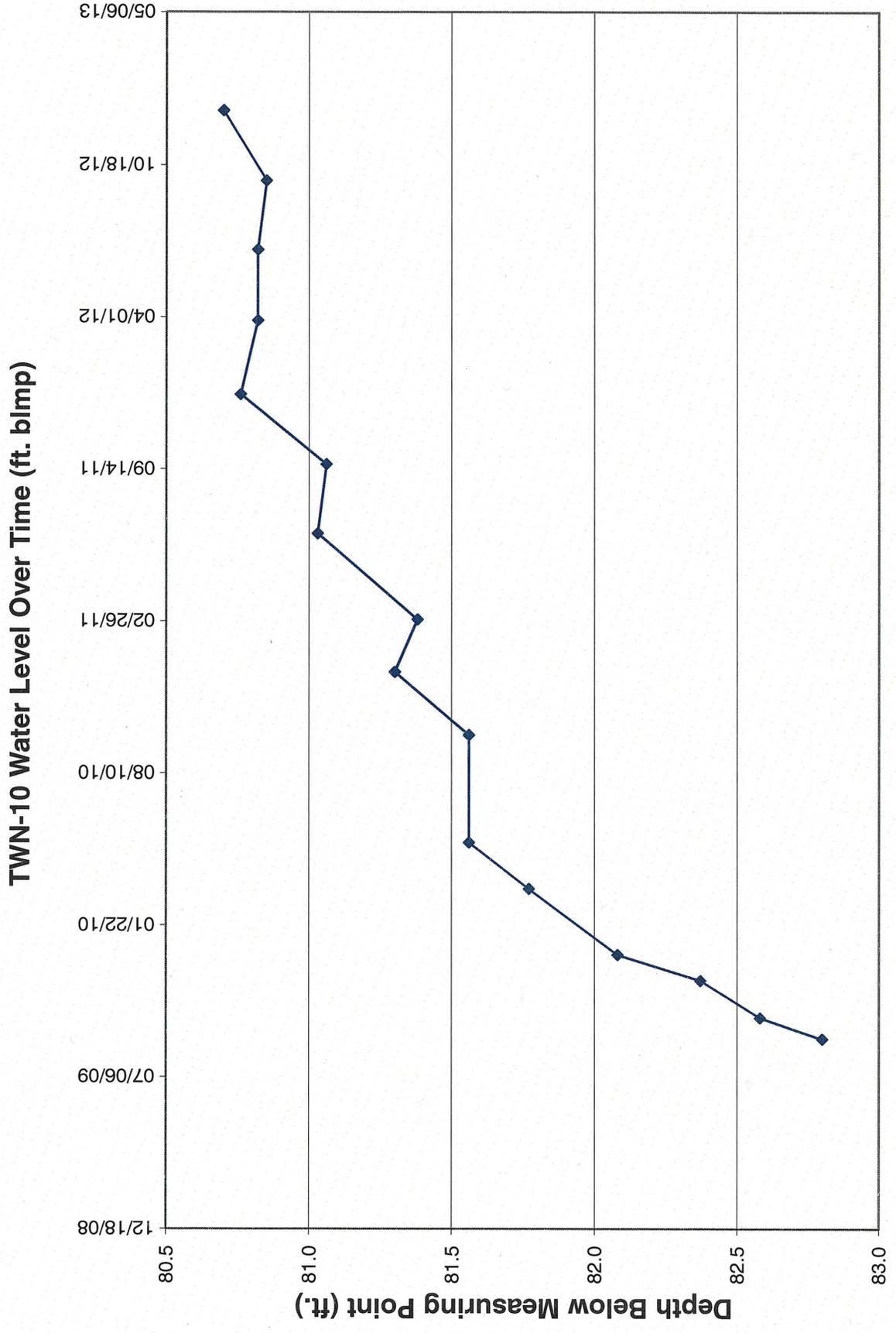
TWN-7 Water Level Over Time (ft. blmp)

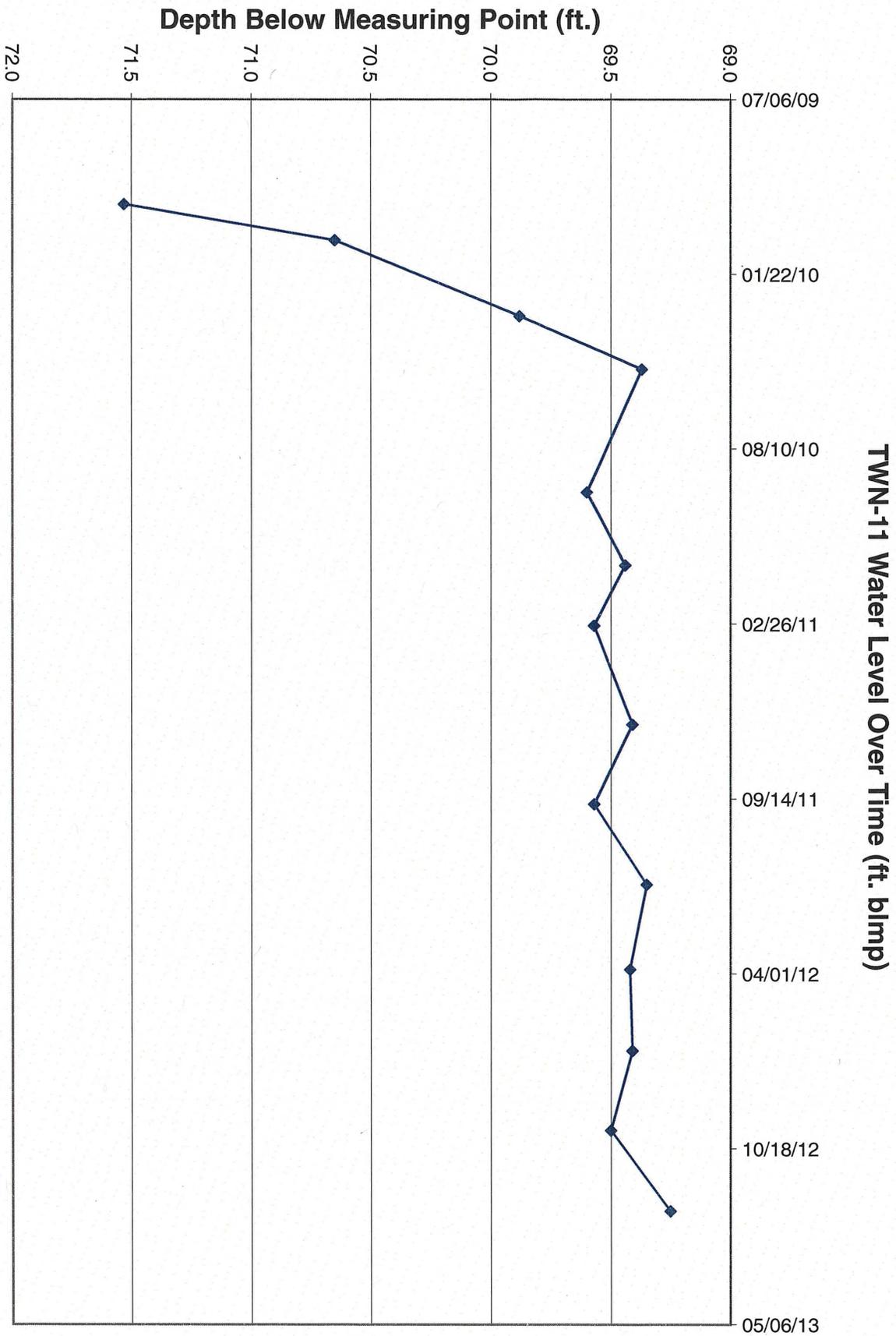


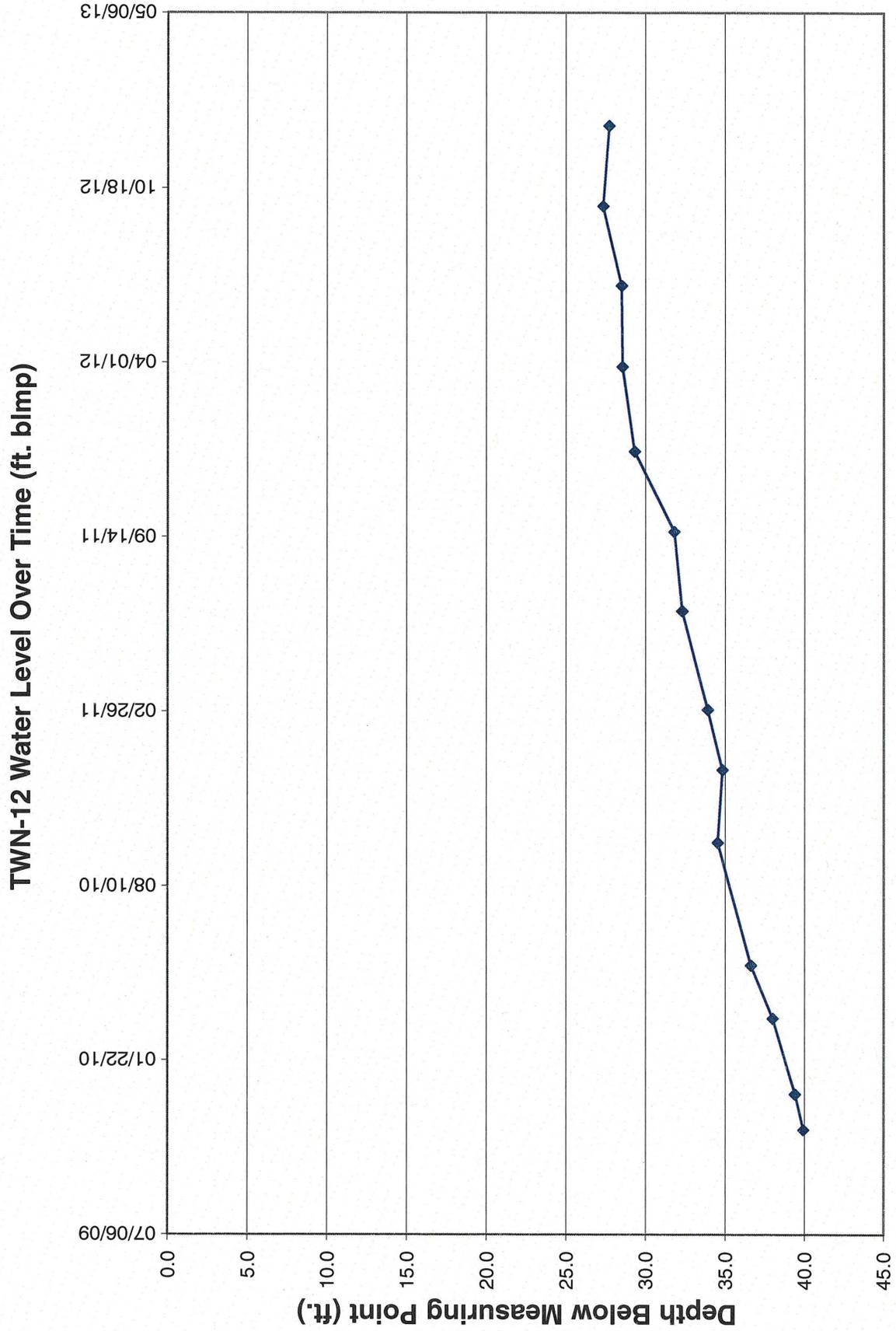


TWN-9 Water Level Over Time (ft. blmp)

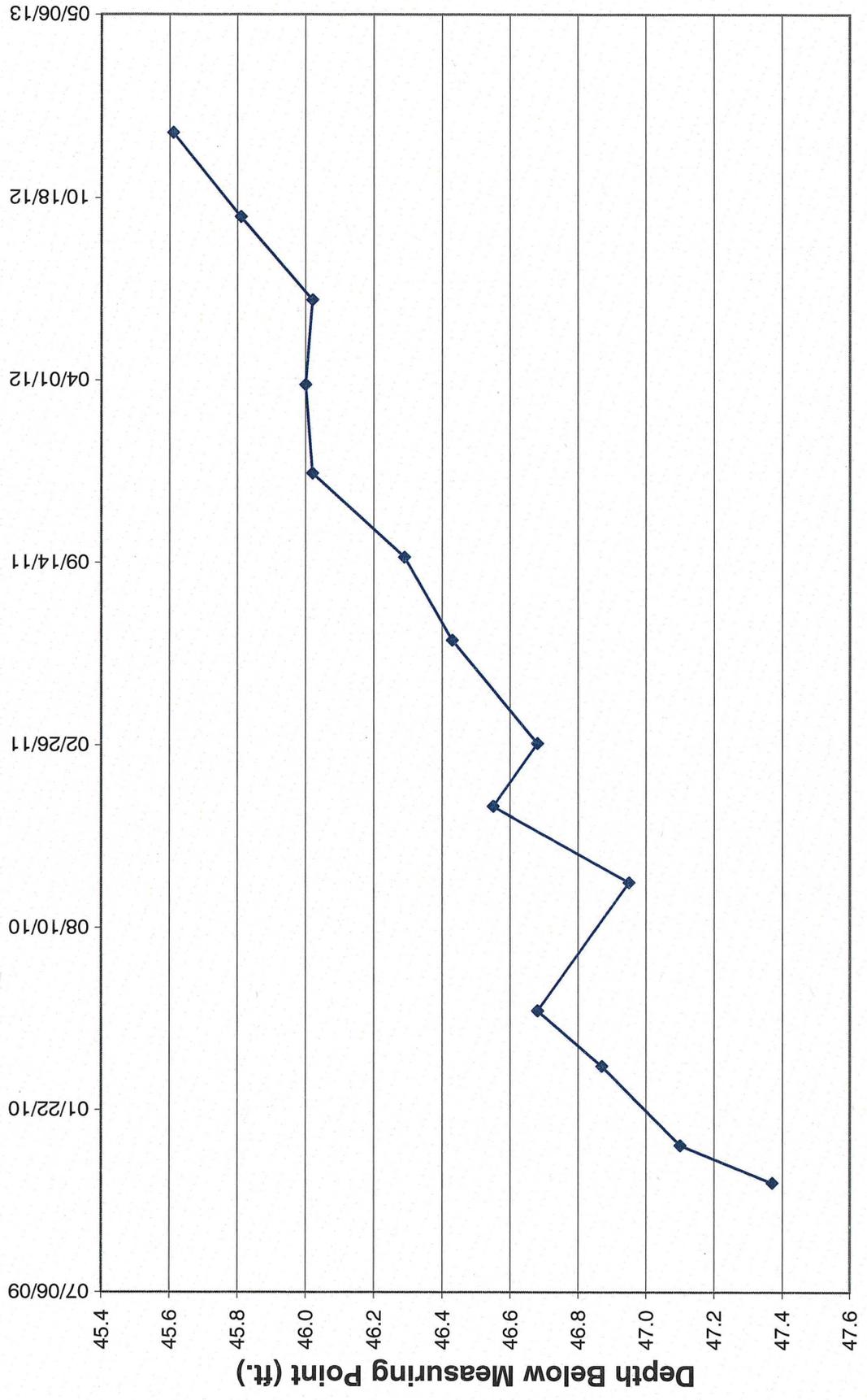




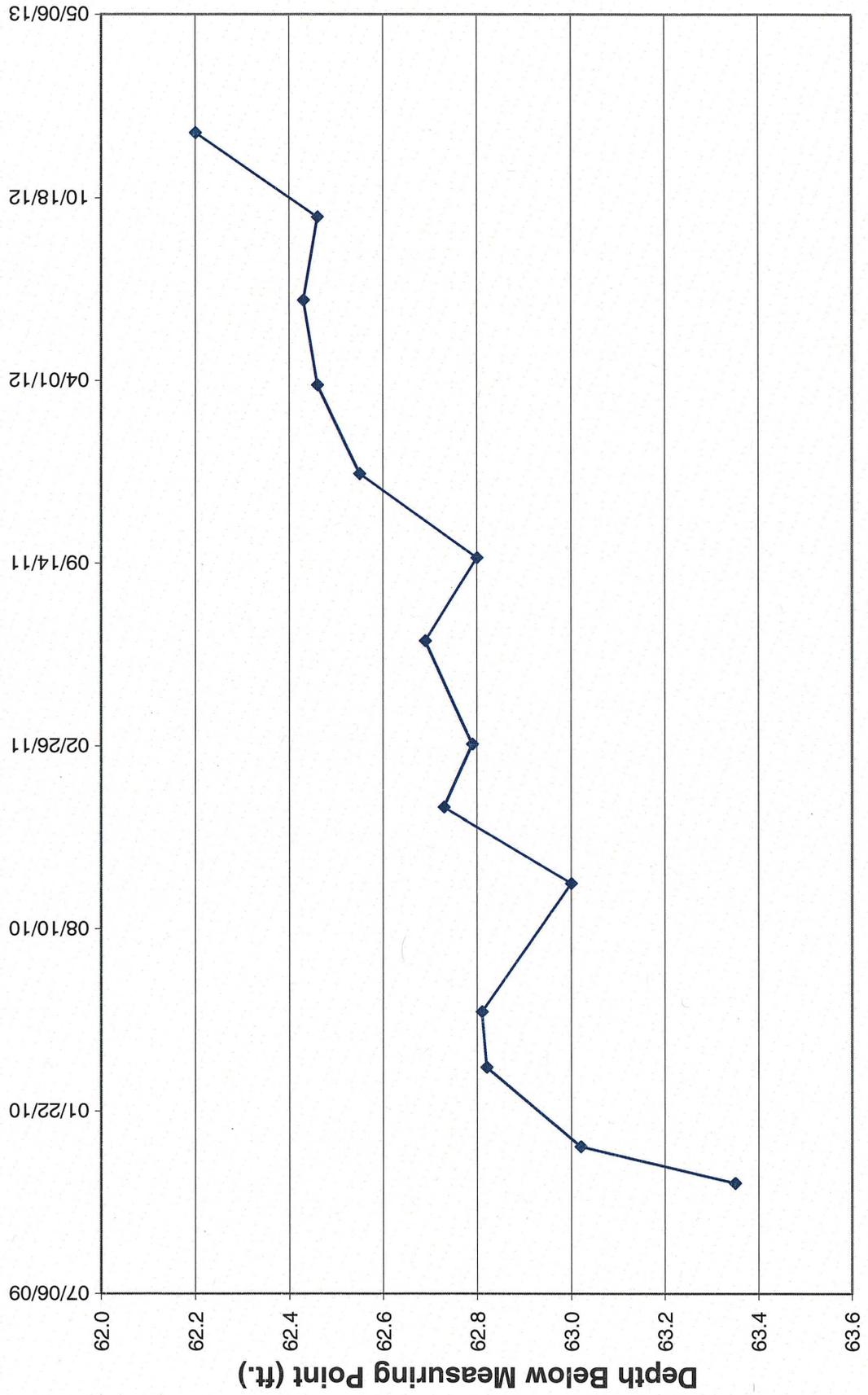




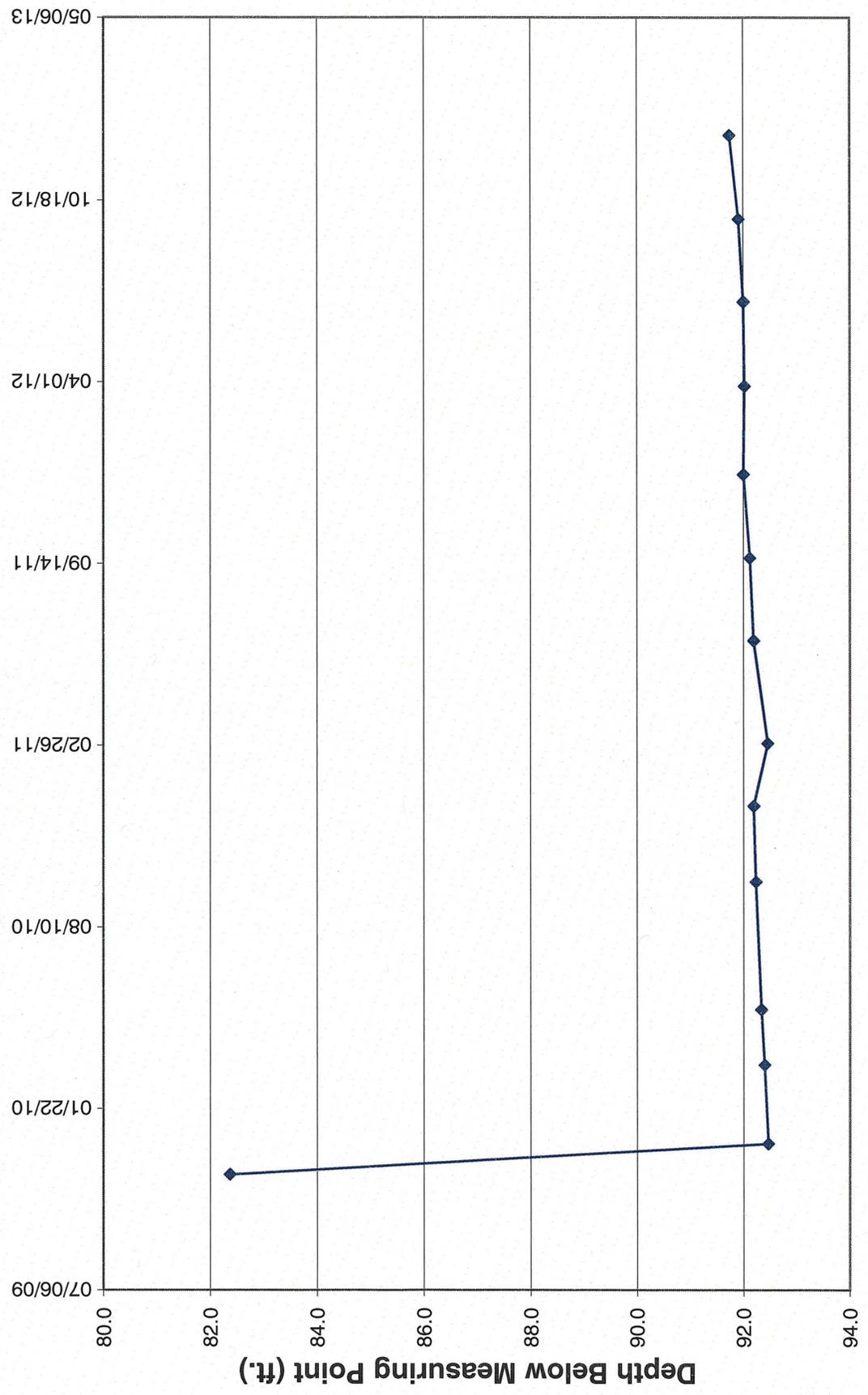
TWN-13 Water Level Over Time (ft. blimp)

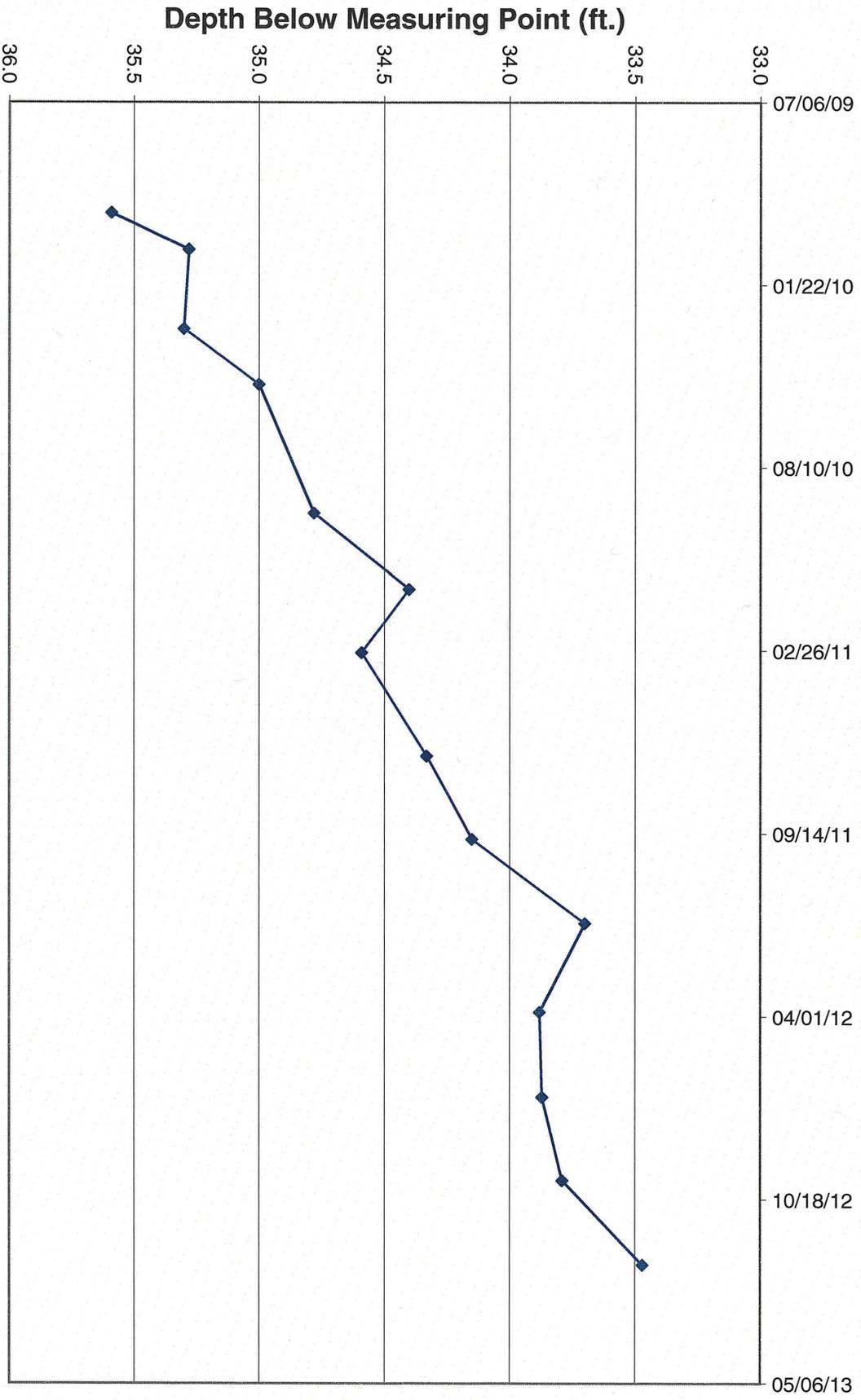


TWN-14 Water Level Over Time (ft. blmp)

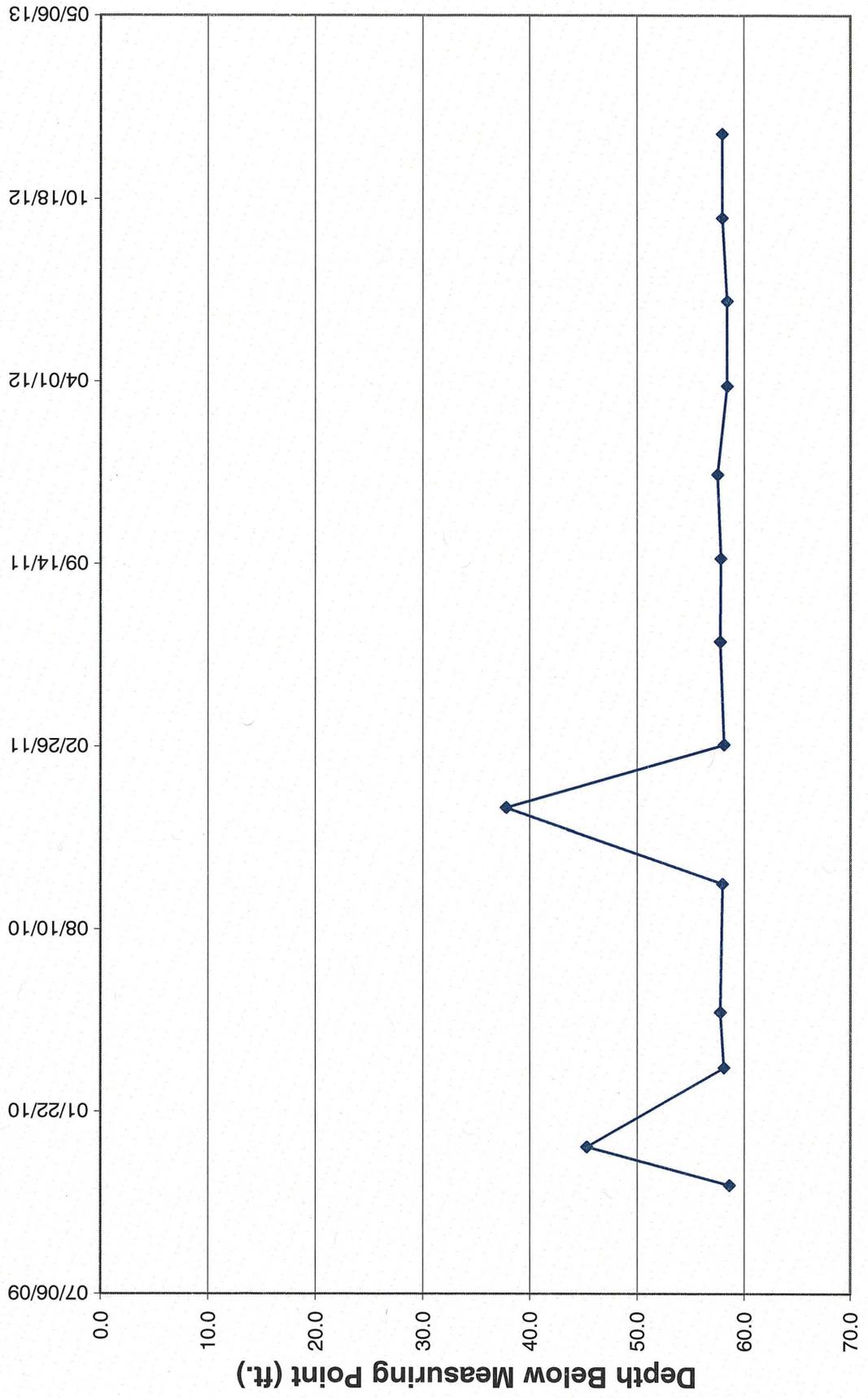


TWN-15 Water Level Over Time (ft. blmp)

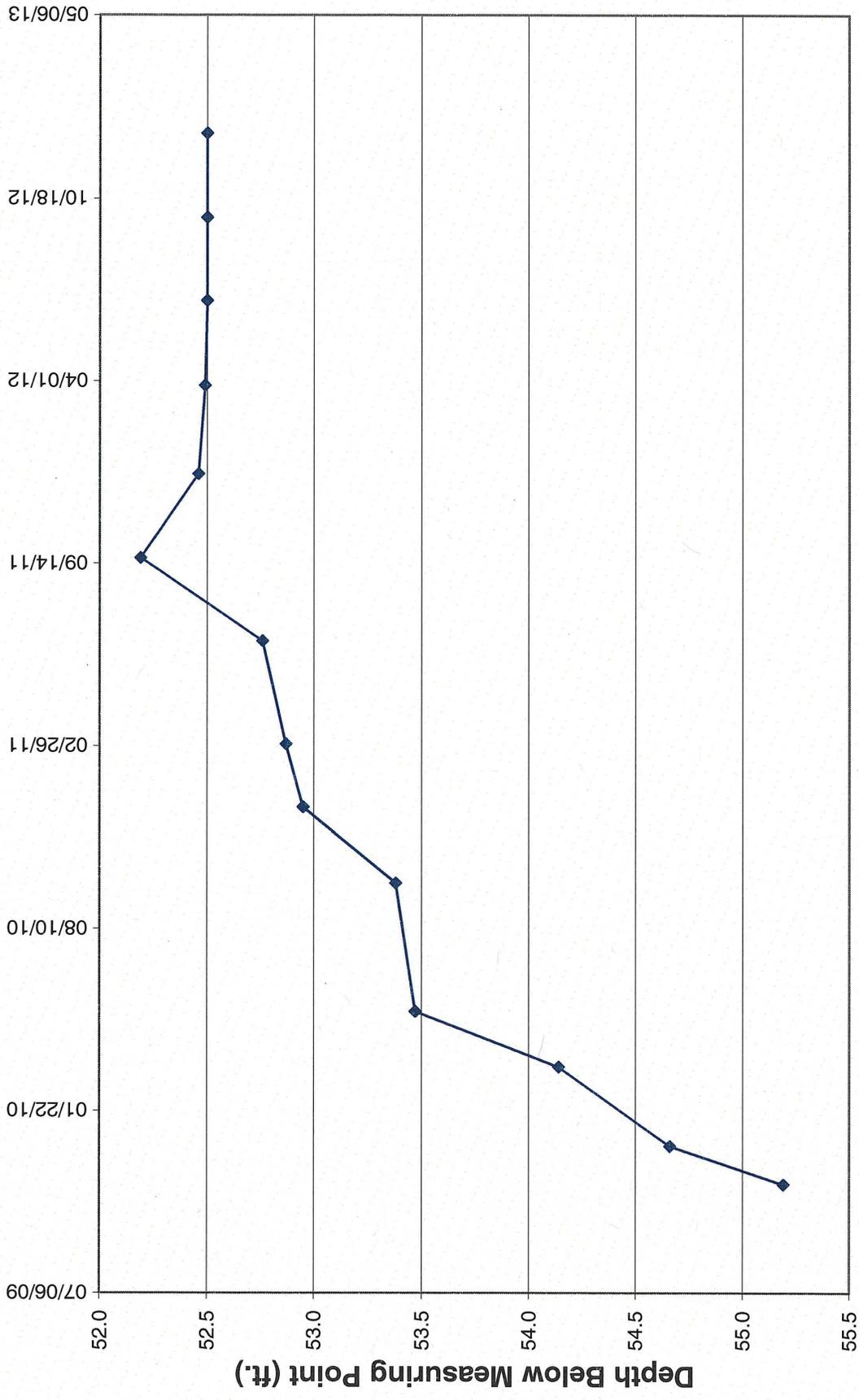




TWN-18 Water Level Over Time (ft. blimp)



TWN-19 Water Level Over Time (ft. blmp)



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	

**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	

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	

**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	

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

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
	5,653.70	5,655.18	1.48				155
5,584.43				08/25/09	70.75	69.27	
5,584.51				09/21/09	70.67	69.19	
5,584.54				11/10/09	70.64	69.16	
5,584.62				12/14/09	70.56	69.08	
5,584.97				03/11/10	70.21	68.73	
5,585.38				05/11/10	69.80	68.32	
5,585.35				09/29/10	69.83	68.35	
5,585.42				12/21/10	69.76	68.28	
5,585.08				02/28/11	70.10	68.62	
5,585.38				06/21/11	69.80	68.32	
5,585.51				09/20/11	69.67	68.19	
5,585.76				12/21/11	69.42	67.94	
5,585.61				03/27/12	69.57	68.09	
5,585.63				06/28/12	69.55	68.07	
5,585.63				09/27/12	69.55	68.07	
5,585.90				12/28/12	69.28	67.80	

**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	

**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	

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

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,649.35	5,651.48	2.13				160
5,589.01				08/25/09	62.47	60.34	
5,589.10				09/21/09	62.38	60.25	
5,589.09				11/03/09	62.39	60.26	
5,603.38				12/14/09	48.10	45.97	
5,589.68				03/11/10	61.80	59.67	
5,589.95				05/11/10	61.53	59.40	
5,589.74				09/29/10	61.74	59.61	
5,589.97				12/21/10	61.51	59.38	
5,589.67				02/28/11	61.81	59.68	
5,589.96				06/21/11	61.52	59.39	
5,589.82				09/20/11	61.66	59.53	
5,590.18				12/21/11	61.30	59.17	
5,589.85				03/27/12	61.63	59.50	
5,589.84				06/28/12	61.64	59.51	
5,589.28				09/27/12	62.20	60.07	
5,589.18				12/28/12	62.30	60.17	

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

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,645.68	5,647.45	1.77				102.5
5,582.05				08/25/09	65.40	63.63	
5,582.12				09/22/09	65.33	63.56	
5,582.27				11/10/09	65.18	63.41	
5,582.53				12/14/09	64.92	63.15	
5,582.92				03/11/10	64.53	62.76	
5,583.06				05/11/10	64.39	62.62	
5,583.25				09/29/10	64.20	62.43	
5,583.57				12/21/10	63.88	62.11	
5,583.54				02/28/11	63.91	62.14	
5,583.92				06/21/11	63.53	61.76	
5,584.04				09/20/11	63.41	61.64	
5,587.42				12/21/11	60.03	58.26	
5,584.56				03/27/12	62.89	61.12	
5,584.55				06/28/12	62.90	61.13	
5,584.85				09/27/12	62.6	60.83	
5,585.24				12/28/12	62.21	60.44	

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

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,664.63	5,666.98	2.35				107.5
5,584.18				08/25/09	82.80	80.45	
5,584.40				09/22/09	82.58	80.23	
5,584.61				11/10/09	82.37	80.02	
5,584.90				12/14/09	82.08	79.73	
5,585.21				03/11/10	81.77	79.42	
5,585.42				05/11/10	81.56	79.21	
5,585.42				09/29/10	81.56	79.21	
5,585.68				12/21/10	81.30	78.95	
5,585.60				02/28/11	81.38	79.03	
5,585.95				06/21/11	81.03	78.68	
5,585.92				09/20/11	81.06	78.71	
5,586.22				12/21/11	80.76	78.41	
5,586.16				03/27/12	80.82	78.47	
5,586.16				06/28/12	80.82	78.47	
5,586.13				09/27/12	80.85	78.50	
5,586.28				12/28/12	80.7	78.35	

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

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,683.16	5,684.53	1.37				147.5
5,613.00				11/03/09	71.53	70.16	
5,613.88				12/14/09	70.65	69.28	
5,614.65				03/11/10	69.88	68.51	
5,615.16				05/11/10	69.37	68.00	
5,614.93				09/29/10	69.60	68.23	
5,615.09				12/21/10	69.44	68.07	
5,614.96				02/28/11	69.57	68.20	
5,615.12				06/21/11	69.41	68.04	
5,614.96				09/20/11	69.57	68.20	
5,615.18				12/21/11	69.35	67.98	
5,615.11				03/27/12	69.42	68.05	
5,615.12				06/28/12	69.41	68.04	
5,615.03				09/27/12	69.50	68.13	
5,615.28				12/28/12	69.25	67.88	

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

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,667.03	5,668.24	1.21				115
5,628.33				11/03/09	39.91	38.70	
5,628.86				12/14/09	39.38	38.17	
5,630.27				03/11/10	37.97	36.76	
5,631.64				05/11/10	36.60	35.39	
5,633.73				09/29/10	34.51	33.30	
5,633.43				12/21/10	34.81	33.60	
5,634.35				02/28/11	33.89	32.68	
5,635.95				06/21/11	32.29	31.08	
5,636.44				09/20/11	31.80	30.59	
5,638.93				12/21/11	29.31	28.10	
5,639.69				03/27/12	28.55	27.34	
5,639.74				06/28/12	28.50	27.29	
5,640.90				09/27/12	27.34	26.13	
5,640.52				12/28/12	27.72	26.51	

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

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,633.04	5,634.32	1.28				120
5,586.95				11/03/09	47.37	46.09	
5,587.22				12/14/09	47.10	45.82	
5,587.45				03/11/10	46.87	45.59	
5,587.64				05/11/10	46.68	45.40	
5,587.37				09/29/10	46.95	45.67	
5,587.77				12/21/10	46.55	45.27	
5,587.64				02/28/11	46.68	45.40	
5,587.89				06/21/11	46.43	45.15	
5,588.03				09/20/11	46.29	45.01	
5,588.30				12/21/11	46.02	44.74	
5,588.32				03/27/12	46.00	44.72	
5,588.30				06/28/12	46.02	44.74	
5,588.51				09/27/12	45.81	44.53	
5,588.71				12/28/12	45.61	44.33	

**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	

**Water Levels and Data over Time
White Mesa Mill - Well TWN-15**

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
	5,675.01	5,676.49	1.48				155
5,594.12				11/10/09	82.37	80.89	
5,584.03				12/14/09	92.46	90.98	
5,584.10				03/11/10	92.39	90.91	
5,584.16				05/11/10	92.33	90.85	
5,584.26				09/29/10	92.23	90.75	
5,584.30				12/21/10	92.19	90.71	
5,584.04				02/28/11	92.45	90.97	
5,584.30				06/21/11	92.19	90.71	
5,584.37				09/20/11	92.12	90.64	
5,584.49				12/21/11	92.00	90.52	
5,584.47				03/27/12	92.02	90.54	
5,584.49				06/28/12	92.00	90.52	
5,584.58				09/27/12	91.91	90.43	
5,584.75				12/28/12	91.74	90.26	

**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	

**Water Levels and Data over Time
White Mesa Mill - Well TWN-17**

Water Elevation (WL)	Land Surface (LSD)	Measuring Point Elevation (MP)	Length Of Riser (L)	Date Of Monitoring	Total or Measured Depth to Water (blw.MP)	Total Depth to Water (blw.LSD)	Total Depth Of Well
	5,639.73	5,641.55	1.82				100
5,605.96				11/04/09	35.59	33.77	
5,606.27				12/14/09	35.28	33.46	
5,606.25				03/11/10	35.30	33.48	
5,606.55				05/11/10	35.00	33.18	
5,606.77				09/29/10	34.78	32.96	
5,607.15				12/21/10	34.40	32.58	
5,606.96				02/28/11	34.59	32.77	
5,607.22				06/21/11	34.33	32.51	
5,607.40				09/20/11	34.15	32.33	
5,607.85				12/21/11	33.70	31.88	
5,607.67				03/27/12	33.88	32.06	
5,607.68				06/28/12	33.87	32.05	
5,607.76				09/27/12	33.79	31.97	
5,608.08				12/28/12	33.47	31.65	

**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	

**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	

Tab G

Laboratory Analytical Reports



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 4th Quarter Nitrate 2012
Lab Sample ID: 1210325-022
Client Sample ID: Piez-01_10172012
Collection Date: 10/17/2012 0833h
Received Date: 10/19/2012 1140h

Contact: Garrin Palmer

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		10/25/2012 1345h	E300.0	10.0	55.0	
Nitrate/Nitrite (as N)	mg/L		10/26/2012 2154h	E353.2	1.00	7.66	

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Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 4th Quarter Nitrate 2012
Lab Sample ID: 1210325-023
Client Sample ID: Piez-02_10172012
Collection Date: 10/17/2012 0809h
Received Date: 10/19/2012 1140h

Contact: Garrin Palmer

Analytical Results

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Chloride	mg/L		10/25/2012 0637h	E300.0	1.00	9.50	
Nitrate/Nitrite (as N)	mg/L		10/26/2012 2214h	E353.2	0.100	0.192	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Nitrate 2012
Lab Sample ID: 1210325-024
Client Sample ID: Piez-03_10172012
Collection Date: 10/17/2012 0821h
Received Date: 10/19/2012 1140h

Analytical Results

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Chloride	mg/L		10/25/2012 1406h	E300.0	10.0	20.1	
Nitrate/Nitrite (as N)	mg/L		10/26/2012 2204h	E353.2	1.00	2.75	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 4th Quarter Nitrate 2012
Lab Sample ID: 1210325-005
Client Sample ID: TWN-01_10152012
Collection Date: 10/15/2012 1150h
Received Date: 10/19/2012 1140h

Contact: Garrin Palmer

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		10/26/2012 0230h	E300.0	10.0	17.5	
Nitrate/Nitrite (as N)	mg/L		10/24/2012 2119h	E353.2	0.100	0.432	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 4th Quarter Nitrate 2012
Lab Sample ID: 1210325-020
Client Sample ID: TWN-02_10172012
Collection Date: 10/17/2012 0755h
Received Date: 10/19/2012 1140h

Contact: Garrin Palmer

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		10/25/2012 1323h	E300.0	10.0	79.0	
Nitrate/Nitrite (as N)	mg/L		10/26/2012 2211h	E353.2	10.0	22.1	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Nitrate 2012
Lab Sample ID: 1210325-019
Client Sample ID: TWN-03_10172012
Collection Date: 10/17/2012 0747h
Received Date: 10/19/2012 1140h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		10/29/2012 2106h	E300.0	100	149	
Nitrate/Nitrite (as N)	mg/L		10/26/2012 2209h	E353.2	10.0	12.1	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 4th Quarter Nitrate 2012
Lab Sample ID: 1210325-008
Client Sample ID: TWN-04_10152012
Collection Date: 10/15/2012 1442h
Received Date: 10/19/2012 1140h

Contact: Garrin Palmer

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		10/26/2012 0312h	E300.0	10.0	26.4	
Nitrate/Nitrite (as N)	mg/L		10/31/2012 1741h	E353.2	0.100	1.45	^

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

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 4th Quarter Nitrate 2012
Lab Sample ID: 1210325-004
Client Sample ID: TWN-05_10152012
Collection Date: 10/15/2012 1045h
Received Date: 10/19/2012 1140h

Contact: Garrin Palmer

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		10/26/2012 0208h	E300.0	10.0	43.5	
Nitrate/Nitrite (as N)	mg/L		10/24/2012 2118h	E353.2	0.100	< 0.100	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 4th Quarter Nitrate 2012
Lab Sample ID: 1210325-009
Client Sample ID: TWN-06_10152012
Collection Date: 10/15/2012 1517h
Received Date: 10/19/2012 1140h

Contact: Garrin Palmer

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		10/26/2012 0333h	E300.0	10.0	20.4	
Nitrate/Nitrite (as N)	mg/L		10/24/2012 2124h	E353.2	0.100	0.786	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 4th Quarter Nitrate 2012
Lab Sample ID: 1210325-007
Client Sample ID: TWN-07_10162012
Collection Date: 10/16/2012 0645h
Received Date: 10/19/2012 1140h

Contact: Garrin Palmer

Analytical Results

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Chloride	mg/L		10/24/2012 2021h	E300.0	1.00	5.67	
Nitrate/Nitrite (as N)	mg/L		10/24/2012 2122h	E353.2	0.100	0.641	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 4th Quarter Nitrate 2012
Lab Sample ID: 1210325-001
Client Sample ID: TWN-08_10152012
Collection Date: 10/15/2012 0903h
Received Date: 10/19/2012 1140h

Contact: Garrin Palmer

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		10/24/2012 1544h	E300.0	1.00	11.1	
Nitrate/Nitrite (as N)	mg/L		10/24/2012 2107h	E353.2	0.100	< 0.100	'@

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

@ - High RPD due to suspected sample non-homogeneity or matrix interference.

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 4th Quarter Nitrate 2012
Lab Sample ID: 1210325-002
Client Sample ID: TWN-08R_10152012
Collection Date: 10/15/2012 0834h
Received Date: 10/19/2012 1140h

Contact: Garrin Palmer

Analytical Results

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Chloride	mg/L		10/24/2012 1835h	E300.0	1.00	< 1.00	
Nitrate/Nitrite (as N)	mg/L		10/24/2012 2115h	E353.2	0.100	< 0.100	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 4th Quarter Nitrate 2012
Lab Sample ID: 1210325-018
Client Sample ID: TWN-09_10172012
Collection Date: 10/17/2012 0734h
Received Date: 10/19/2012 1140h

Contact: Garrin Palmer

Analytical Results

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Chloride	mg/L		10/29/2012 2044h	E300.0	100	194	
Nitrate/Nitrite (as N)	mg/L		10/26/2012 2149h	E353.2	1.00	12.5	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Nitrate 2012
Lab Sample ID: 1210325-006
Client Sample ID: TWN-10_10162012
Collection Date: 10/16/2012 0633h
Received Date: 10/19/2012 1140h

Analytical Results

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Chloride	mg/L		10/26/2012 0251h	E300.0	10.0	30.8	
Nitrate/Nitrite (as N)	mg/L		10/24/2012 2120h	E353.2	0.100	0.119	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 4th Quarter Nitrate 2012
Lab Sample ID: 1210325-011
Client Sample ID: TWN-11_10162012
Collection Date: 10/16/2012 0823h
Received Date: 10/19/2012 1140h

Contact: Garrin Palmer

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		10/26/2012 0458h	E300.0	10.0	76.4	
Nitrate/Nitrite (as N)	mg/L		10/26/2012 2131h	E353.2	1.00	1.84	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 4th Quarter Nitrate 2012
Lab Sample ID: 1210325-021
Client Sample ID: TWN-11R_10162012
Collection Date: 10/16/2012 0756h
Received Date: 10/19/2012 1140h

Contact: Garrin Palmer

Analytical Results

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Chloride	mg/L		10/25/2012 0512h	E300.0	1.00	< 1.00	
Nitrate/Nitrite (as N)	mg/L		10/26/2012 2212h	E353.2	0.100	< 0.100	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 4th Quarter Nitrate 2012
Lab Sample ID: 1210325-010
Client Sample ID: TWN-12_10162012
Collection Date: 10/16/2012 0732h
Received Date: 10/19/2012 1140h

Contact: Garrin Palmer

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		10/26/2012 0437h	E300.0	10.0	101	
Nitrate/Nitrite (as N)	mg/L		10/26/2012 2130h	E353.2	1.00	1.41	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Nitrate 2012
Lab Sample ID: 1210325-003
Client Sample ID: TWN-13_10152012
Collection Date: 10/15/2012 0953h
Received Date: 10/19/2012 1140h

Analytical Results

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Chloride	mg/L		10/26/2012 0105h	E300.0	10.0	47.3	
Nitrate/Nitrite (as N)	mg/L		10/24/2012 2116h	E353.2	0.100	< 0.100	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 4th Quarter Nitrate 2012
Lab Sample ID: 1210325-015
Client Sample ID: TWN-14_10172012
Collection Date: 10/17/2012 0715h
Received Date: 10/19/2012 1140h

Contact: Garrin Palmer

Analytical Results

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Chloride	mg/L		10/26/2012 0706h	E300.0	10.0	27.4	
Nitrate/Nitrite (as N)	mg/L		10/26/2012 2138h	E353.2	1.00	4.03	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Nitrate 2012
Lab Sample ID: 1210325-012
Client Sample ID: TWN-15_10172012
Collection Date: 10/17/2012 0704h
Received Date: 10/19/2012 1140h

Analytical Results

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Chloride	mg/L		10/26/2012 0520h	E300.0	10.0	47.0	
Nitrate/Nitrite (as N)	mg/L		10/26/2012 2134h	E353.2	1.00	1.79	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 4th Quarter Nitrate 2012
Lab Sample ID: 1210325-014
Client Sample ID: TWN-16_10162012
Collection Date: 10/16/2012 1016h
Received Date: 10/19/2012 1140h

Contact: Garrin Palmer

Analytical Results

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Chloride	mg/L		10/26/2012 0645h	E300.0	10.0	32.1	
Nitrate/Nitrite (as N)	mg/L		10/26/2012 2136h	E353.2	1.00	2.50	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 4th Quarter Nitrate 2012
Lab Sample ID: 1210325-017
Client Sample ID: TWN-17_10172012
Collection Date: 10/17/2012 0725h
Received Date: 10/19/2012 1140h

Contact: Garrin Palmer

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		10/26/2012 0748h	E300.0	10.0	84.8	
Nitrate/Nitrite (as N)	mg/L		10/26/2012 2147h	E353.2	1.00	9.65	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 4th Quarter Nitrate 2012
Lab Sample ID: 1210325-013
Client Sample ID: TWN-18_10162012
Collection Date: 10/16/2012 0939h
Received Date: 10/19/2012 1140h

Contact: Garrin Palmer

Analytical Results

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Chloride	mg/L		10/26/2012 0623h	E300.0	10.0	67.5	
Nitrate/Nitrite (as N)	mg/L		10/26/2012 2135h	E353.2	1.00	1.95	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 4th Quarter Nitrate 2012
Lab Sample ID: 1210325-016
Client Sample ID: TWN-19_10162012
Collection Date: 10/16/2012 1224h
Received Date: 10/19/2012 1140h

Contact: Garrin Palmer

Analytical Results

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Chloride	mg/L		10/26/2012 0727h	E300.0	10.0	118	
Nitrate/Nitrite (as N)	mg/L		10/26/2012 2146h	E353.2	1.00	7.70	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Nitrate 2012
Lab Sample ID: 1210325-025
Client Sample ID: TWN-60_10172012
Collection Date: 10/17/2012 0910h
Received Date: 10/19/2012 1140h

Analytical Results

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Chloride	mg/L		10/25/2012 0720h	E300.0	1.00	< 1.00	
Nitrate/Nitrite (as N)	mg/L		10/26/2012 2222h	E353.2	0.100	< 0.100	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 4th Quarter Nitrate 2012
Lab Sample ID: 1210325-026
Client Sample ID: TWN-65_10152012
Collection Date: 10/15/2012 1442h
Received Date: 10/19/2012 1140h

Contact: Garrin Palmer

Analytical Results

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Chloride	mg/L		10/25/2012 1427h	E300.0	10.0	25.6	
Nitrate/Nitrite (as N)	mg/L		10/31/2012 1744h	E353.2	0.100	1.45	^

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 4th Quarter Nitrate 2012
Lab Sample ID: 1210325-027
Client Sample ID: TWN-70_10172012
Collection Date: 10/17/2012 0704h
Received Date: 10/19/2012 1140h

Contact: Garrin Palmer

Analytical Results

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Chloride	mg/L		10/25/2012 1448h	E300.0	10.0	44.4	
Nitrate/Nitrite (as N)	mg/L		10/26/2012 2208h	E353.2	1.00	2.00	

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RE: 4th Quarter Nitrate 2012

Dear Garrin Palmer:

Lab Set ID: 1210325

463 West 3600 South

Salt Lake City, UT 84115

Phone: (801) 263-8686

Toll Free: (888) 263-8686

Fax: (801) 263-8687

e-mail: awal@awal-labs.com

web: www.awal-labs.com

American West Analytical Laboratories received 27 sample(s) on 10/19/2012 for the analyses presented in the following report.

American West Analytical Laboratories (AWAL) is accredited by The National Environmental Laboratory Association Conference (NELAC) Institute in Utah and Texas; and is state accredited in Colorado, Idaho, New Mexico, and Missouri. In addition, AWAL is also accredited by the American Analytical Laboratory Association (A2LA) on ISO IEC 17025:2005, Department of Defense (DOD), UST for the State of Wyoming, and the National Lead Laboratory Accreditation Program (NLLAP). All analyses were performed in accordance to The NELAC Institute and/or A2LA protocols unless noted otherwise. Accreditation documents are available upon request. If you have any questions or concerns regarding this report please feel free to call.

Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer

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

This is a revision to a report originally issued 10/30/2012. Pages 1, 12, 30, and 33-36 have been revised. Page 32 has been added. All pages have been updated for pagination.

Thank You,

**Kyle F.
Gross**

Digitally signed by Kyle F. Gross
DN: cn=Kyle F. Gross, o=AWAL,
ou=AWAL-Laboratory Director,
email=kyle@awal-labs.com, c=US
Date: 2012.11.02 16:13:19 -06'00'

Approved by:

Laboratory Director or designee



SAMPLE SUMMARY

Client: Energy Fuels Resources, Inc.
Project: 4th Quarter Nitrate 2012
Lab Set ID: 1210325
Date Received: 10/19/2012 1140h

Contact: Garrin Palmer

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Salt Lake City, UT 84115

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Kyle F. Gross
 Laboratory Director

Jose Rocha
 QA Officer

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
1210325-001A	TWN-08_10152012	10/15/2012 0903h	Aqueous	Anions, E300.0
1210325-001B	TWN-08_10152012	10/15/2012 0903h	Aqueous	Nitrite/Nitrate (as N), E353.2
1210325-002A	TWN-08R_10152012	10/15/2012 0834h	Aqueous	Anions, E300.0
1210325-002B	TWN-08R_10152012	10/15/2012 0834h	Aqueous	Nitrite/Nitrate (as N), E353.2
1210325-003A	TWN-13_10152012	10/15/2012 0953h	Aqueous	Anions, E300.0
1210325-003B	TWN-13_10152012	10/15/2012 0953h	Aqueous	Nitrite/Nitrate (as N), E353.2
1210325-004A	TWN-05_10152012	10/15/2012 1045h	Aqueous	Anions, E300.0
1210325-004B	TWN-05_10152012	10/15/2012 1045h	Aqueous	Nitrite/Nitrate (as N), E353.2
1210325-005A	TWN-01_10152012	10/15/2012 1150h	Aqueous	Anions, E300.0
1210325-005B	TWN-01_10152012	10/15/2012 1150h	Aqueous	Nitrite/Nitrate (as N), E353.2
1210325-006A	TWN-10_10162012	10/16/2012 0633h	Aqueous	Anions, E300.0
1210325-006B	TWN-10_10162012	10/16/2012 0633h	Aqueous	Nitrite/Nitrate (as N), E353.2
1210325-007A	TWN-07_10162012	10/16/2012 0645h	Aqueous	Anions, E300.0
1210325-007B	TWN-07_10162012	10/16/2012 0645h	Aqueous	Nitrite/Nitrate (as N), E353.2
1210325-008A	TWN-04_10152012	10/15/2012 1442h	Aqueous	Anions, E300.0
1210325-008B	TWN-04_10152012	10/15/2012 1442h	Aqueous	Nitrite/Nitrate (as N), E353.2
1210325-009A	TWN-06_10152012	10/15/2012 1517h	Aqueous	Anions, E300.0
1210325-009B	TWN-06_10152012	10/15/2012 1517h	Aqueous	Nitrite/Nitrate (as N), E353.2
1210325-010A	TWN-12_10162012	10/16/2012 0732h	Aqueous	Anions, E300.0
1210325-010B	TWN-12_10162012	10/16/2012 0732h	Aqueous	Nitrite/Nitrate (as N), E353.2
1210325-011A	TWN-11_10162012	10/16/2012 0823h	Aqueous	Anions, E300.0
1210325-011B	TWN-11_10162012	10/16/2012 0823h	Aqueous	Nitrite/Nitrate (as N), E353.2
1210325-012A	TWN-15_10172012	10/17/2012 0704h	Aqueous	Anions, E300.0
1210325-012B	TWN-15_10172012	10/17/2012 0704h	Aqueous	Nitrite/Nitrate (as N), E353.2
1210325-013A	TWN-18_10162012	10/16/2012 0939h	Aqueous	Anions, E300.0
1210325-013B	TWN-18_10162012	10/16/2012 0939h	Aqueous	Nitrite/Nitrate (as N), E353.2
1210325-014A	TWN-16_10162012	10/16/2012 1016h	Aqueous	Anions, E300.0
1210325-014B	TWN-16_10162012	10/16/2012 1016h	Aqueous	Nitrite/Nitrate (as N), E353.2
1210325-015A	TWN-14_10172012	10/17/2012 0715h	Aqueous	Anions, E300.0
1210325-015B	TWN-14_10172012	10/17/2012 0715h	Aqueous	Nitrite/Nitrate (as N), E353.2
1210325-016A	TWN-19_10162012	10/16/2012 1224h	Aqueous	Anions, E300.0
1210325-016B	TWN-19_10162012	10/16/2012 1224h	Aqueous	Nitrite/Nitrate (as N), E353.2
1210325-017A	TWN-17_10172012	10/17/2012 0725h	Aqueous	Anions, E300.0
1210325-017B	TWN-17_10172012	10/17/2012 0725h	Aqueous	Nitrite/Nitrate (as N), E353.2
1210325-018A	TWN-09_10172012	10/17/2012 0734h	Aqueous	Anions, E300.0
1210325-018B	TWN-09_10172012	10/17/2012 0734h	Aqueous	Nitrite/Nitrate (as N), E353.2



Client: Energy Fuels Resources, Inc.
Project: 4th Quarter Nitrate 2012
Lab Set ID: 1210325
Date Received: 10/19/2012 1140h

Contact: Garrin Palmer

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
1210325-019A	TWN-03_10172012	10/17/2012 0747h	Aqueous	Anions, E300.0
1210325-019B	TWN-03_10172012	10/17/2012 0747h	Aqueous	Nitrite/Nitrate (as N), E353.2
1210325-020A	TWN-02_10172012	10/17/2012 0755h	Aqueous	Anions, E300.0
1210325-020B	TWN-02_10172012	10/17/2012 0755h	Aqueous	Nitrite/Nitrate (as N), E353.2
1210325-021A	TWN-11R_10162012	10/16/2012 0756h	Aqueous	Anions, E300.0
1210325-021B	TWN-11R_10162012	10/16/2012 0756h	Aqueous	Nitrite/Nitrate (as N), E353.2
1210325-022A	Piez-01_10172012	10/17/2012 0833h	Aqueous	Anions, E300.0
1210325-022B	Piez-01_10172012	10/17/2012 0833h	Aqueous	Nitrite/Nitrate (as N), E353.2
1210325-023A	Piez-02_10172012	10/17/2012 0809h	Aqueous	Anions, E300.0
1210325-023B	Piez-02_10172012	10/17/2012 0809h	Aqueous	Nitrite/Nitrate (as N), E353.2
1210325-024A	Piez-03_10172012	10/17/2012 0821h	Aqueous	Anions, E300.0
1210325-024B	Piez-03_10172012	10/17/2012 0821h	Aqueous	Nitrite/Nitrate (as N), E353.2
1210325-025A	TWN-60_10172012	10/17/2012 0910h	Aqueous	Anions, E300.0
1210325-025B	TWN-60_10172012	10/17/2012 0910h	Aqueous	Nitrite/Nitrate (as N), E353.2
1210325-026A	TWN-65_10152012	10/15/2012 1442h	Aqueous	Anions, E300.0
1210325-026B	TWN-65_10152012	10/15/2012 1442h	Aqueous	Nitrite/Nitrate (as N), E353.2
1210325-027A	TWN-70_10172012	10/17/2012 0704h	Aqueous	Anions, E300.0
1210325-027B	TWN-70_10172012	10/17/2012 0704h	Aqueous	Nitrite/Nitrate (as N), E353.2

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer



Inorganic Case Narrative

Client: Denison Mines
Contact: Garrin Palmer
Project: 4th Quarter Nitrate 2012
Lab Set ID: 1210325

Sample Receipt Information:

Date of Receipt: 10/19/2012
Date(s) of Collection: 10/15 & 10/16, & 10/17/2012
Sample Condition: Intact
C-O-C Discrepancies: None

Holding Time and Preservation Requirements: The analysis and preparation of all samples were performed within the method holding times. All 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: Nitrate/nitrite on sample 1210325-001B exhibited MS and MSD percent recoveries outside of control limits due to sample matrix interference and high RPDs due to suspected sample non-homogeneity or 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: 1210325
Project: 4th Quarter Nitrate 2012

Contact: Garrin Palmer
Dept: WC
QC Type: DUP

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
1210325-008BDUP	Nitrate/Nitrite (as N)	mg/L	E353.2	1.41		1.448		-	2.43	20	^	10/31/2012 1743h
1210325-026BDUP	Nitrate/Nitrite (as N)	mg/L	E353.2	1.47		1.451		-	1.11	20	^	10/31/2012 1745h

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



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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1210325
Project: 4th Quarter Nitrate 2012

Contact: Garrin Palmer
Dept: WC
QC Type: LCS

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
LCS-R46581	Chloride	mg/L	E300.0	4.85	5.000	0	97.1	90-110				10/24/2012 1522h
LCS-R46667	Chloride	mg/L	E300.0	5.06	5.000	0	101	90-110				10/25/2012 0430h
LCS-R46668	Chloride	mg/L	E300.0	5.17	5.000	0	103	90-110				10/26/2012 0043h
LCS-R46725	Chloride	mg/L	E300.0	4.92	5.000	0	98.5	90-110				10/29/2012 2022h
LCS-R46569	Nitrate/Nitrite (as N)	mg/L	E353.2	0.900	1.000	0	90.0	90-110				10/24/2012 2053h
LCS-R46665	Nitrate/Nitrite (as N)	mg/L	E353.2	0.977	1.000	0	97.7	90-110				10/26/2012 2129h
LCS-R46902	Nitrate/Nitrite (as N)	mg/L	E353.2	1.00	1.000	0	100	90-110			^	10/31/2012 1722h

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1210325
Project: 4th Quarter Nitrate 2012

Contact: Garrin Palmer
Dept: WC
QC Type: MBLK

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
MB-R46581	Chloride	mg/L	E300.0	< 1.00				-				10/24/2012 1501h
MB-R46667	Chloride	mg/L	E300.0	< 1.00				-				10/25/2012 0409h
MB-R46668	Chloride	mg/L	E300.0	< 1.00				-				10/26/2012 0022h
MB-R46725	Chloride	mg/L	E300.0	< 1.00				-				10/29/2012 1959h
MB-R46569	Nitrate/Nitrite (as N)	mg/L	E353.2	< 0.100				-				10/24/2012 2051h
MB-R46665	Nitrate/Nitrite (as N)	mg/L	E353.2	< 0.100				-				10/26/2012 2127h
MB-R46902	Nitrate/Nitrite (as N)	mg/L	E353.2	< 0.100				-			^	10/31/2012 1721h

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1210325
Project: 4th Quarter Nitrate 2012

Contact: Garrin Palmer
Dept: WC
QC Type: MS

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
1210325-001AMS	Chloride	mg/L	E300.0	59.0	50.00	11.06	95.9	90-110				10/24/2012 1626h
1210325-003AMS	Chloride	mg/L	E300.0	546	500.0	47.35	99.6	90-110				10/26/2012 0126h
1210325-012AMS	Chloride	mg/L	E300.0	559	500.0	46.98	102	90-110				10/26/2012 0541h
1210325-019AMS	Chloride	mg/L	E300.0	655	500.0	148.9	101	90-110				10/29/2012 2129h
1210325-021AMS	Chloride	mg/L	E300.0	50.7	50.00	0.1450	101	90-110				10/25/2012 0534h
1210325-001BMS	Nitrate/Nitrite (as N)	mg/L	E353.2	0.890	1.000	0	89.0	90-110			1	10/24/2012 2112h
1210325-010BMS	Nitrate/Nitrite (as N)	mg/L	E353.2	11.5	10.00	1.409	101	90-110				10/26/2012 2139h
1210325-023BMS	Nitrate/Nitrite (as N)	mg/L	E353.2	1.20	1.000	0.1923	101	90-110				10/26/2012 2215h
1210327-018CMS	Nitrate/Nitrite (as N)	mg/L	E353.2	0.957	1.000	0.007600	95.0	90-110			^	10/31/2012 1730h

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

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



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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1210325
Project: 4th Quarter Nitrate 2012

Contact: Garrin Palmer
Dept: WC
QC Type: MSD

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
1210325-001AMSD	Chloride	mg/L	E300.0	61.8	50.00	11.06	101	90-110	4.57	20		10/24/2012 1647h
1210325-003AMSD	Chloride	mg/L	E300.0	561	500.0	47.35	103	90-110	2.71	20		10/26/2012 0147h
1210325-012AMSD	Chloride	mg/L	E300.0	547	500.0	46.98	99.9	90-110	2.3	20		10/26/2012 0602h
1210325-019AMSD	Chloride	mg/L	E300.0	651	500.0	148.9	101	90-110	0.537	20		10/29/2012 2151h
1210325-021AMSD	Chloride	mg/L	E300.0	49.0	50.00	0.1450	97.8	90-110	3.27	20		10/25/2012 0555h
1210325-001BMSD	Nitrate/Nitrite (as N)	mg/L	E353.2	0.654	1.000	0	65.4	90-110	30.5	10	'@	10/24/2012 2114h
1210325-010BMSD	Nitrate/Nitrite (as N)	mg/L	E353.2	12.5	10.00	1.409	110	90-110	8.12	10		10/26/2012 2140h
1210325-023BMSD	Nitrate/Nitrite (as N)	mg/L	E353.2	1.18	1.000	0.1923	99.2	90-110	1.66	10		10/26/2012 2216h
1210327-018CMSD	Nitrate/Nitrite (as N)	mg/L	E353.2	0.970	1.000	0.007600	96.3	90-110	1.38	10	^	10/31/2012 1732h

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

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

@ - High RPD due to suspected sample non-homogeneity or matrix interference.

American West Analytical Laboratories

UL
Denison

WORK ORDER Summary

Work Order: **1210325**

Client: Denison Mines

Page 1 of 4

10/19/2012

Client ID: DEN100

Contact: Garrin Palmer

Project: 4th Quarter Nitrate 2012

QC Level: II+

WO Type: Project

Comments: PA Rush. QC 2+& Summary. MUST report project specific DL's: Cl @ 1 mg/L, NO2/NO3 @ 0.1 mg/L. EDD-Denison & LOCUS. CC kathy.weinel@energyfuels.com;



Sample ID	Client Sample ID	Collected Date	Received Date	Date Due	Matrix	Test Code	SEL	Storage	
1210325-001A	TWN-08_10152012 SEL Analytes: CL	10/15/2012 0903h	10/19/2012 1140h	10/30/2012	Aqueous	300.0-W	<input checked="" type="checkbox"/>	df - cl	1
1210325-001B	SEL Analytes: NO3NO2N					NO2/NO3-W-353.2	<input checked="" type="checkbox"/>	df - no2/no3	
1210325-002A	TWN-08R_10152012 SEL Analytes: CL	10/15/2012 0834h				300.0-W	<input checked="" type="checkbox"/>	df - cl	
1210325-002B	SEL Analytes: NO3NO2N					NO2/NO3-W-353.2	<input checked="" type="checkbox"/>	df - no2/no3	
1210325-003A	TWN-13_10152012 SEL Analytes: CL	10/15/2012 0953h				300.0-W	<input checked="" type="checkbox"/>	df - cl	
1210325-003B	SEL Analytes: NO3NO2N					NO2/NO3-W-353.2	<input checked="" type="checkbox"/>	df - no2/no3	
1210325-004A	TWN-05_10152012 SEL Analytes: CL	10/15/2012 1045h				300.0-W	<input checked="" type="checkbox"/>	df - cl	
1210325-004B	SEL Analytes: NO3NO2N					NO2/NO3-W-353.2	<input checked="" type="checkbox"/>	df - no2/no3	
1210325-005A	TWN-01_10152012 SEL Analytes: CL	10/15/2012 1150h				300.0-W	<input checked="" type="checkbox"/>	df - cl	
1210325-005B	SEL Analytes: NO3NO2N					NO2/NO3-W-353.2	<input checked="" type="checkbox"/>	df - no2/no3	
1210325-006A	TWN-10_10162012 SEL Analytes: CL	10/16/2012 0633h				300.0-W	<input checked="" type="checkbox"/>	df - cl	
1210325-006B	SEL Analytes: NO3NO2N					NO2/NO3-W-353.2	<input checked="" type="checkbox"/>	df - no2/no3	
1210325-007A	TWN-07_10162012 SEL Analytes: CL	10/16/2012 0645h				300.0-W	<input checked="" type="checkbox"/>	df - cl	
1210325-007B	SEL Analytes: NO3NO2N					NO2/NO3-W-353.2	<input checked="" type="checkbox"/>	df - no2/no3	

FOR LABORATORY USE ONLY [fill out on page 1]:

%M

RT

CN

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QC

HOK cl

HOK _____

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WORK ORDER Summary

Work Order: **1210325**

Client: Denison Mines

Page 2 of 4 10/19/2012

Sample ID	Client Sample ID	Collected Date	Received Date	Date Due	Matrix	Test Code	Sel	Storage	
1210325-008A	TWN-04_10152012 SEL Analytes: CL	10/15/2012 1442h	10/19/2012 1140h	10/30/2012	Aqueous	300.0-W	<input checked="" type="checkbox"/>	df - cl	1
1210325-008B	SEL Analytes: NO3NO2N					NO2/NO3-W-353.2	<input checked="" type="checkbox"/>	df - no2/no3	
1210325-009A	TWN-06_10152012 SEL Analytes: CL	10/15/2012 1517h				300.0-W	<input checked="" type="checkbox"/>	df - cl	
1210325-009B	SEL Analytes: NO3NO2N					NO2/NO3-W-353.2	<input checked="" type="checkbox"/>	df - no2/no3	
1210325-010A	TWN-12_10162012 SEL Analytes: CL	10/16/2012 0732h				300.0-W	<input checked="" type="checkbox"/>	df - cl	
1210325-010B	SEL Analytes: NO3NO2N					NO2/NO3-W-353.2	<input checked="" type="checkbox"/>	df - no2/no3	
1210325-011A	TWN-11_10162012 SEL Analytes: CL	10/16/2012 0823h				300.0-W	<input checked="" type="checkbox"/>	df - cl	
1210325-011B	SEL Analytes: NO3NO2N					NO2/NO3-W-353.2	<input checked="" type="checkbox"/>	df - no2/no3	
1210325-012A	TWN-15_10172012 SEL Analytes: CL	10/17/2012 0704h				300.0-W	<input checked="" type="checkbox"/>	df - cl	
1210325-012B	SEL Analytes: NO3NO2N					NO2/NO3-W-353.2	<input checked="" type="checkbox"/>	df - no2/no3	
1210325-013A	TWN-18_10162012 SEL Analytes: CL	10/16/2012 0939h				300.0-W	<input checked="" type="checkbox"/>	df - cl	
1210325-013B	SEL Analytes: NO3NO2N					NO2/NO3-W-353.2	<input checked="" type="checkbox"/>	df - no2/no3	
1210325-014A	TWN-16_10162012 SEL Analytes: CL	10/16/2012 1016h				300.0-W	<input checked="" type="checkbox"/>	df - cl	
1210325-014B	SEL Analytes: NO3NO2N					NO2/NO3-W-353.2	<input checked="" type="checkbox"/>	df - no2/no3	
1210325-015A	TWN-14_10172012 SEL Analytes: CL	10/17/2012 0715h				300.0-W	<input checked="" type="checkbox"/>	df - cl	
1210325-015B	SEL Analytes: NO3NO2N					NO2/NO3-W-353.2	<input checked="" type="checkbox"/>	df - no2/no3	
1210325-016A	TWN-19_10162012 SEL Analytes: CL	10/16/2012 1224h				300.0-W	<input checked="" type="checkbox"/>	df - cl	

WORK ORDER Summary

Work Order: **1210325**

Client: Denison Mines

Page 3 of 4 10/19/2012

Sample ID	Client Sample ID	Collected Date	Received Date	Date Due	Matrix	Test Code	Sel	Storage
1210325-016B	TWN-19_10162012	10/16/2012 1224h	10/19/2012 1140h	10/30/2012	Aqueous	NO2/NO3-W-353.2	<input checked="" type="checkbox"/>	df - no2/no3 1
	SEL Analytes: NO3NO2N							
1210325-017A	TWN-17_10172012	10/17/2012 0725h				300.0-W	<input checked="" type="checkbox"/>	df - cl
	SEL Analytes: CL							
1210325-017B						NO2/NO3-W-353.2	<input checked="" type="checkbox"/>	df - no2/no3
	SEL Analytes: NO3NO2N							
1210325-018A	TWN-09_10172012	10/17/2012 0734h				300.0-W	<input checked="" type="checkbox"/>	df - cl
	SEL Analytes: CL							
1210325-018B						NO2/NO3-W-353.2	<input checked="" type="checkbox"/>	df - no2/no3
	SEL Analytes: NO3NO2N							
1210325-019A	TWN-03_10172012	10/17/2012 0747h				300.0-W	<input checked="" type="checkbox"/>	df - cl
	SEL Analytes: CL							
1210325-019B						NO2/NO3-W-353.2	<input checked="" type="checkbox"/>	df - no2/no3
	SEL Analytes: NO3NO2N							
1210325-020A	TWN-02_10172012	10/17/2012 0755h				300.0-W	<input checked="" type="checkbox"/>	df - cl
	SEL Analytes: CL							
1210325-020B						NO2/NO3-W-353.2	<input checked="" type="checkbox"/>	df - no2/no3
	SEL Analytes: NO3NO2N							
1210325-021A	TWN-11R_10162012	10/16/2012 0756h				300.0-W	<input checked="" type="checkbox"/>	df - cl
	SEL Analytes: CL							
1210325-021B						NO2/NO3-W-353.2	<input checked="" type="checkbox"/>	df - no2/no3
	SEL Analytes: NO3NO2N							
1210325-022A	Piez-01_10172012	10/17/2012 0833h				300.0-W	<input checked="" type="checkbox"/>	df - cl
	SEL Analytes: CL							
1210325-022B						NO2/NO3-W-353.2	<input checked="" type="checkbox"/>	df - no2/no3
	SEL Analytes: NO3NO2N							
1210325-023A	Piez-02_10172012	10/17/2012 0809h				300.0-W	<input checked="" type="checkbox"/>	df - cl
	SEL Analytes: CL							
1210325-023B						NO2/NO3-W-353.2	<input checked="" type="checkbox"/>	df - no2/no3
	SEL Analytes: NO3NO2N							
1210325-024A	Piez-03_10172012	10/17/2012 0821h				300.0-W	<input checked="" type="checkbox"/>	df - cl
	SEL Analytes: CL							
1210325-024B						NO2/NO3-W-353.2	<input checked="" type="checkbox"/>	df - no2/no3
	SEL Analytes: NO3NO2N							

WORK ORDER Summary

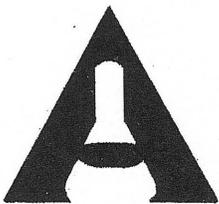
Work Order: **1210325**

Client: Denison Mines

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Sample ID	Client Sample ID	Collected Date	Received Date	Date Due	Matrix	Test Code	Sel	Storage	
1210325-025A	TWN-60_10172012 SEL Analytes: CL	10/17/2012 0910h	10/19/2012 1140h	10/30/2012	Aqueous	300.0-W	<input checked="" type="checkbox"/>	df - cl	1
1210325-025B	SEL Analytes: NO3NO2N					NO2/NO3-W-353.2	<input checked="" type="checkbox"/>	df - no2/no3	
1210325-026A	TWN-65_10152012 SEL Analytes: CL	10/15/2012 1442h				300.0-W	<input checked="" type="checkbox"/>	df - cl	
1210325-026B	SEL Analytes: NO3NO2N					NO2/NO3-W-353.2	<input checked="" type="checkbox"/>	df - no2/no3	
1210325-027A	TWN-70_10172012 SEL Analytes: CL	10/17/2012 0704h				300.0-W	<input checked="" type="checkbox"/>	df - cl	
1210325-027B	SEL Analytes: NO3NO2N					NO2/NO3-W-353.2	<input checked="" type="checkbox"/>	df - no2/no3	

Client Energy Fuels
 Address 6425 S. Hwy 191
Blanding UT 84511
 City State Zip
 Phone 435 678 2221 Fax _____



AMERICAN WEST ANALYTICAL LABORATORIES
 463 West 3600 South Salt Lake City, Utah 84115
 (801) 263-8686 (888) 263-8687
 Email: awal@awal-labs.com

CHAIN OF CUSTODY

Lab Sample Set # 1210325
 Page 1 of 3
 Turn Around Time (Circle One) Standard
 1 day 2 day 3 day 4 day 5 day

Contact Garrin Palmer
 E-mail gpalmer@energyfuels.com
 Project Name Quarterly Nitrate 2012
 Project Number/P.O.# _____
 Sampler Name Tanner Holliday

Sample ID	Date/Time Collected	Matrix	Number of Containers (Total)	TESTS REQUIRED										QC LEVEL per Kathy Weiland 2w 10/19/12 COMMENTS	LABORATORY USE ONLY	
				Nitrate + Nitrite	Chloride											
TWN-08-10152012	10/15/12/0903	w	2	X	X											1 Shipped or hand delivered Notes: <u>Fed Ex</u>
TWN-08R-10152012	10/15/12/0834	w	2	X	X											2 Ambient or Chilled Notes: <u>2+</u>
TWN-13-10152012	10/15/12/0953	w	2	X	X											3 Temperature <u>2.4°C</u>
TWN-05-10152012	10/15/12/1045	w	2	X	X											4 Received Broken/Leaking (Improperly Sealed) Y N
TWN-01-10152012 TWN-01-10152012	10/15/12/1150	w	2	X	X											5 Properly Preserved Y N Checked at Bench Y N
TWN-10-10162012	10/16/12/0633	w	2	X	X											6 Received Within Holding Times Y N
TWN-07-10162012	10/16/12/0645	w	2	X	X											
TWN-04-10152012	10/15/12/1442	w	2	X	X											
TWN-06-10152012	10/15/12/1517	w	2	X	X											
TWN-12-10162012	10/16/12/0732	w	2	X	X											
TWN-11-10162012	10/16/12/0823	w	2	X	X											
TWN-15-10172012	10/17/12/0704	w	2	X	X											

Relinquished By: Signature <u>Garrin Palmer</u>	Date <u>10/18/12</u>	Received By: Signature <u>[Signature]</u>	Date <u>10/19/12</u>
PRINT NAME <u>Garrin Palmer</u>	Time <u>1300</u>	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
Relinquished By: Signature <u>Fed Ex</u>	Date	Received By: Signature <u>[Signature]</u>	Date <u>10/19/12</u>
PRINT NAME	Time	PRINT NAME	Time

Special Instructions:

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
 Notes: N

Client Energy Fuels
 Address 6425 S. Hwy 191
Blanding UT 84511
 City State Zip

Phone 435 678 2221 Fax _____

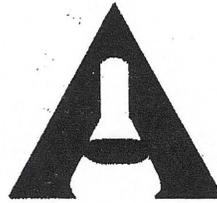
Contact Garrin Palmer

E-mail gpalmer@energyfuels.com

Project Name 4th Quarter Nitrate 2012

Project Number/P.O.# _____

Sampler Name Tanner Holliday



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CHAIN OF CUSTODY

Lab Sample Set # 1210325
 Page 3 of 3

Turn Around Time (Circle One)

1 day 2 day 3 day 4 day 5 day Standard

Sample ID	Date/Time Collected	Matrix	Number of Containers (Total)	TESTS REQUIRED										QC LEVEL 1 2 <u>2+</u> <u>3</u> 3+ 4 Per Kathy Wajid Rev 10/19/12 Per 10/17/12 COMMENTS	
				Nitrate + Nitrite	Chloride										
TWN-60-10172012	10/17/12/0910	w	2	X	X										
TWN-65-10152012	10/15/12/1442	w	2	X	X										
TWN-70-10172012	10/17/12/0704	w	2	X	X										
Temp Blank	10/18/12														
Temp Blank	10/18/12														

LABORATORY USE ONLY

SAMPLES WERE:

- Shipped or hand delivered
Notes: Feed-X
- Ambient or Chilled
Notes: (Circled)
- Temperature 2.4°C
- Received Broken/Leaking (Improperly Sealed)
Y N
Notes:
- Properly Preserved
Y N
Checked at Bench
Y N
Notes:
- Received Within Holding Times
Y N
Notes:

Relinquished By: Signature <u>Garrin Palmer</u>	Date <u>10/18/12</u>	Received By: Signature <u>Tanner Holliday</u>	Date <u>10/19/12</u>
PRINT NAME <u>Garrin Palmer</u>	Time <u>1300</u>	PRINT NAME <u>Tanner Holliday</u>	Time <u>1300</u>

Special Instructions:

COC Tape Was:

- Present on Outer Package
Y N NA
- Unbroken on Outer Package
Y N NA
- Present on Sample
Y N NA
- Unbroken on Sample
Y N NA

Discrepancies Between Sample Labels and COC Record?
Y N
Notes:

Tab H

Quality Assurance and Data Validation Tables

H-1 Field Data QA/QC Evaluation

Location		2x Casing Volume	Volume Pumped	Volume Check	Conductivity		RPD	pH		RPD	Temp		RPD	Redox Potential		RPD	Turbidity		RPD
Piezometer 1			--		2148.0		NC	9.65		NC	13.11		NC	169		NC	1.2		NC
Piezometer 2			--		713.0		NC	7.60		NC	13.08		NC	159		NC	3.7		NC
Piezometer 3			--		2969.0		NC	12.49		NC	12.99		NC	73		NC	11.4		NC
TWN-1	38.70	77.40	80.00	OK	800.0	799.0	0.13	7.34	7.32	0.27	15.03	15.05	0.13	191	191	0.00	72.8	72.1	0.97
TWN-2	47.24	94.48	57.50	Pumped Dry	3127.0	3115.0	0.38	6.13	6.08	0.82	14.16	14.19	0.21	199	193	3.06	6.8	12.8	61.22
TWN-3	40.51	81.02	45.00	Pumped Dry	2501.0	2490.0	0.44	7.14	7.15	0.14	13.36	13.39	0.22	191	187	2.12	7.0	8.3	16.99
TWN-4	53.61	107.22	130.00	OK	1012.0	1011.0	0.10	7.19	7.19	0.00	14.60	14.60	0.00	215	213	0.93	62.5	63.2	1.11
TWN-5	52.47	104.94	110.00	OK	3018.0	3018.0	0.00	6.79	6.80	0.15	14.81	14.82	0.07	177	176	0.57	5.3	5.1	3.85
TWN-6	35.78	71.56	80.00	OK	1501.0	1502.0	0.07	7.07	7.04	0.43	14.86	14.85	0.07	181	179	1.11	21.8	22.0	0.91
TWN-7	11.19	22.38	10.00	Pumped Dry	1245.0	1260.0	1.20	6.27	6.35	1.27	13.31	13.49	1.34	509	488	4.21	45.0	51.7	13.86
TWN-8	54.30	108.60	120.00	OK	2392.0	2395.0	0.13	7.12	7.10	0.28	14.50	14.51	0.07	126	129	2.35	20.5	20.8	1.45
TWN-9	22.54	45.08	30.00	Pumped Dry	2556.0	2546.0	0.39	7.15	7.13	0.28	13.35	13.33	0.15	190	186	2.13	14.4	17.1	17.14
TWN-10	15.73	31.46	27.50	Pumped Dry	3545.0	3559.0	0.39	3.01	3.10	2.95	14.00	14.10	0.71	458	450	1.76	4.9	7.9	46.88
TWN-11	47.44	94.88	100.00	OK	2743.0	2743.0	0.00	6.83	6.85	0.29	14.67	14.67	0.00	339	339	0.00	50.0	51.0	1.98
TWN-12	54.06	108.12	120.00	OK	2410.0	2409.0	0.04	7.31	7.31	0.00	14.25	14.28	0.21	320	319	0.31	205.0	200.0	2.47
TWN-13	48.39	96.78	100.00	OK	1201.0	1204.0	0.25	7.76	7.81	0.64	15.05	15.05	0.00	138	131	5.20	11.9	11.0	7.86
TWN-14	47.37	94.74	50.00	Pumped Dry	1226.0	1240.0	1.14	7.17	7.20	0.42	13.94	14.00	0.43	162	159	1.87	6.3	12.9	68.75
TWN-15	41.26	82.52	60.00	Pumped Dry	1756.0	1762.0	0.34	6.98	6.94	0.57	14.26	14.31	0.35	160	154	3.82	1.1	4.9	126.67
TWN-16	34.21	68.42	70.00	OK	1829.0	1820.0	0.49	7.03	7.01	0.28	14.72	14.72	0.00	345	345	0.00	18.0	19.0	5.41
TWN-17	49.86	99.72	60.00	Pumped Dry	1139.0	1136.0	0.26	7.38	7.38	0.00	13.94	14.05	0.79	181	183	1.10	7.5	16.1	72.88
TWN-18	56.87	113.74	120.00	OK	2151.0	2149.0	0.09	6.99	6.99	0.00	14.44	14.44	0.00	329	329	0.00	163.0	159.0	2.48
TWN-19	37.77	75.54	80.00	OK	1950.0	1941.0	0.46	7.31	7.30	0.14	15.08	15.07	0.07	171	168	1.77	16.5	15.9	3.70

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

TWN-2, TWN-3, TWN-7, TWN-9, TWN-10, TWN-14, TWN-15, and TWN-17 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.

RPD >10%. Per the revised QAP Revision 7.2, Attachment 2-3, when a well is purged to dryness, only pH, temperature and specific conductance parameters are required to be within 10% RPD. Redox potential and turbidity parameters are measured for information purposes only and as such are not required to meet the 10% RPD criteria used for pH, specific conductance and temperature.

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	10/17/2012	10/25/2012	8	28	OK
PIEZ-01	Nitrate/Nitrite (as N)	10/17/2012	10/26/2012	9	28	OK
PIEZ-02	Chloride	10/17/2012	10/25/2012	8	28	OK
PIEZ-02	Nitrate/Nitrite (as N)	10/17/2012	10/26/2012	9	28	OK
PIEZ-03	Chloride	10/17/2012	10/25/2012	8	28	OK
PIEZ-03	Nitrate/Nitrite (as N)	10/17/2012	10/26/2012	9	28	OK
TWN-01	Chloride	10/15/2012	10/26/2012	11	28	OK
TWN-01	Nitrate/Nitrite (as N)	10/15/2012	10/24/2012	9	28	OK
TWN-02	Chloride	10/17/2012	10/25/2012	8	28	OK
TWN-02	Nitrate/Nitrite (as N)	10/17/2012	10/26/2012	9	28	OK
TWN-03	Chloride	10/17/2012	10/29/2012	12	28	OK
TWN-03	Nitrate/Nitrite (as N)	10/17/2012	10/26/2012	9	28	OK
TWN-04	Chloride	10/15/2012	10/26/2012	11	28	OK
TWN-04	Nitrate/Nitrite (as N)	10/15/2012	10/31/2012	16	28	OK
TWN-05	Chloride	10/15/2012	10/26/2012	11	28	OK
TWN-05	Nitrate/Nitrite (as N)	10/15/2012	10/24/2012	9	28	OK
TWN-06	Chloride	10/15/2012	10/26/2012	11	28	OK
TWN-06	Nitrate/Nitrite (as N)	10/15/2012	10/24/2012	9	28	OK
TWN-07	Chloride	10/16/2012	10/24/2012	8	28	OK
TWN-07	Nitrate/Nitrite (as N)	10/16/2012	10/24/2012	8	28	OK
TWN-08	Chloride	10/15/2012	10/24/2012	9	28	OK
TWN-08	Nitrate/Nitrite (as N)	10/15/2012	10/24/2012	9	28	OK
TWN-08R	Chloride	10/15/2012	10/24/2012	9	28	OK
TWN-08R	Nitrate/Nitrite (as N)	10/15/2012	10/24/2012	9	28	OK
TWN-09	Chloride	10/17/2012	10/29/2012	12	28	OK
TWN-09	Nitrate/Nitrite (as N)	10/17/2012	10/26/2012	9	28	OK
TWN-10	Chloride	10/16/2012	10/26/2012	10	28	OK
TWN-10	Nitrate/Nitrite (as N)	10/16/2012	10/24/2012	8	28	OK
TWN-11	Chloride	10/16/2012	10/26/2012	10	28	OK
TWN-11	Nitrate/Nitrite (as N)	10/16/2012	10/26/2012	10	28	OK
TWN-11R	Chloride	10/16/2012	10/25/2012	9	28	OK
TWN-11R	Nitrate/Nitrite (as N)	10/16/2012	10/26/2012	10	28	OK
TWN-12	Chloride	10/16/2012	10/26/2012	10	28	OK
TWN-12	Nitrate/Nitrite (as N)	10/16/2012	10/26/2012	10	28	OK
TWN-13	Chloride	10/15/2012	10/26/2012	11	28	OK
TWN-13	Nitrate/Nitrite (as N)	10/15/2012	10/24/2012	9	28	OK
TWN-14	Chloride	10/17/2012	10/26/2012	9	28	OK
TWN-14	Nitrate/Nitrite (as N)	10/17/2012	10/26/2012	9	28	OK
TWN-15	Chloride	10/17/2012	10/26/2012	9	28	OK
TWN-15	Nitrate/Nitrite (as N)	10/17/2012	10/26/2012	9	28	OK
TWN-16	Chloride	10/16/2012	10/26/2012	10	28	OK
TWN-16	Nitrate/Nitrite (as N)	10/16/2012	10/26/2012	10	28	OK
TWN-17	Chloride	10/17/2012	10/26/2012	9	28	OK
TWN-17	Nitrate/Nitrite (as N)	10/17/2012	10/26/2012	9	28	OK
TWN-18	Chloride	10/16/2012	10/26/2012	10	28	OK
TWN-18	Nitrate/Nitrite (as N)	10/16/2012	10/26/2012	10	28	OK
TWN-19	Chloride	10/16/2012	10/26/2012	10	28	OK
TWN-19	Nitrate/Nitrite (as N)	10/16/2012	10/26/2012	10	28	OK
TWN-60	Chloride	10/17/2012	10/25/2012	8	28	OK
TWN-60	Nitrate/Nitrite (as N)	10/17/2012	10/26/2012	9	28	OK
TWN-65	Chloride	10/15/2012	10/25/2012	10	28	OK
TWN-65	Nitrate/Nitrite (as N)	10/15/2012	10/31/2012	16	28	OK
TWN-70	Chloride	10/17/2012	10/25/2012	8	28	OK
TWN-70	Nitrate/Nitrite (as N)	10/17/2012	10/26/2012	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	Units	RL Check	Dilution Factor
PIEZ-01	Chloride	10	mg/L		1	mg/L	OK	10
PIEZ-01	Nitrate/Nitrite (as N)	1	mg/L		0.1	mg/L	OK	10
PIEZ-02	Chloride	1	mg/L		1	mg/L	OK	1
PIEZ-02	Nitrate/Nitrite (as N)	0.1	mg/L		0.1	mg/L	OK	1
PIEZ-03	Chloride	10	mg/L		1	mg/L	OK	10
PIEZ-03	Nitrate/Nitrite (as N)	1	mg/L		0.1	mg/L	OK	10
TWN-01	Chloride	10	mg/L		1	mg/L	OK	10
TWN-01	Nitrate/Nitrite (as N)	0.1	mg/L		0.1	mg/L	OK	1
TWN-02	Chloride	10	mg/L		1	mg/L	OK	10
TWN-02	Nitrate/Nitrite (as N)	10	mg/L		0.1	mg/L	OK	100
TWN-03	Chloride	100	mg/L		1	mg/L	OK	100
TWN-03	Nitrate/Nitrite (as N)	10	mg/L		0.1	mg/L	OK	100
TWN-04	Chloride	10	mg/L		1	mg/L	OK	10
TWN-04	Nitrate/Nitrite (as N)	0.1	mg/L		0.1	mg/L	OK	1
TWN-05	Chloride	10	mg/L		1	mg/L	OK	10
TWN-05	Nitrate/Nitrite (as N)	0.1	mg/L	U	0.1	mg/L	OK	1
TWN-06	Chloride	10	mg/L		1	mg/L	OK	10
TWN-06	Nitrate/Nitrite (as N)	0.1	mg/L		0.1	mg/L	OK	1
TWN-07	Chloride	1	mg/L		1	mg/L	OK	1
TWN-07	Nitrate/Nitrite (as N)	0.1	mg/L		0.1	mg/L	OK	1
TWN-08	Chloride	1	mg/L		1	mg/L	OK	1
TWN-08	Nitrate/Nitrite (as N)	0.1	mg/L	U	0.1	mg/L	OK	1
TWN-08R	Chloride	1	mg/L	U	1	mg/L	OK	1
TWN-08R	Nitrate/Nitrite (as N)	0.1	mg/L	U	0.1	mg/L	OK	1
TWN-09	Chloride	100	mg/L		1	mg/L	OK	100
TWN-09	Nitrate/Nitrite (as N)	1	mg/L		0.1	mg/L	OK	10
TWN-10	Chloride	10	mg/L		1	mg/L	OK	10
TWN-10	Nitrate/Nitrite (as N)	0.1	mg/L		0.1	mg/L	OK	1
TWN-11	Chloride	10	mg/L		1	mg/L	OK	10
TWN-11	Nitrate/Nitrite (as N)	1	mg/L		0.1	mg/L	OK	10
TWN-11R	Chloride	1	mg/L	U	1	mg/L	OK	1
TWN-11R	Nitrate/Nitrite (as N)	0.1	mg/L	U	0.1	mg/L	OK	1
TWN-12	Chloride	10	mg/L		1	mg/L	OK	10
TWN-12	Nitrate/Nitrite (as N)	1	mg/L		0.1	mg/L	OK	10
TWN-13	Chloride	10	mg/L		1	mg/L	OK	10
TWN-13	Nitrate/Nitrite (as N)	0.1	mg/L	U	0.1	mg/L	OK	1
TWN-14	Chloride	10	mg/L		1	mg/L	OK	10
TWN-14	Nitrate/Nitrite (as N)	1	mg/L		0.1	mg/L	OK	10
TWN-15	Chloride	10	mg/L		1	mg/L	OK	10
TWN-15	Nitrate/Nitrite (as N)	1	mg/L		0.1	mg/L	OK	10
TWN-16	Chloride	10	mg/L		1	mg/L	OK	10
TWN-16	Nitrate/Nitrite (as N)	1	mg/L		0.1	mg/L	OK	10
TWN-17	Chloride	10	mg/L		1	mg/L	OK	10
TWN-17	Nitrate/Nitrite (as N)	1	mg/L		0.1	mg/L	OK	10
TWN-18	Chloride	10	mg/L		1	mg/L	OK	10
TWN-18	Nitrate/Nitrite (as N)	1	mg/L		0.1	mg/L	OK	10
TWN-19	Chloride	10	mg/L		1	mg/L	OK	10
TWN-19	Nitrate/Nitrite (as N)	1	mg/L		0.1	mg/L	OK	10
TWN-60	Chloride	1	mg/L	U	1	mg/L	OK	1
TWN-60	Nitrate/Nitrite (as N)	0.1	mg/L	U	0.1	mg/L	OK	1
TWN-65	Chloride	10	mg/L		1	mg/L	OK	10
TWN-65	Nitrate/Nitrite (as N)	0.1	mg/L		0.1	mg/L	OK	1
TWN-70	Chloride	10	mg/L		1	mg/L	OK	10
TWN-70	Nitrate/Nitrite (as N)	1	mg/L		0.1	mg/L	OK	10

H-7 Receipt Temperature Evaluation

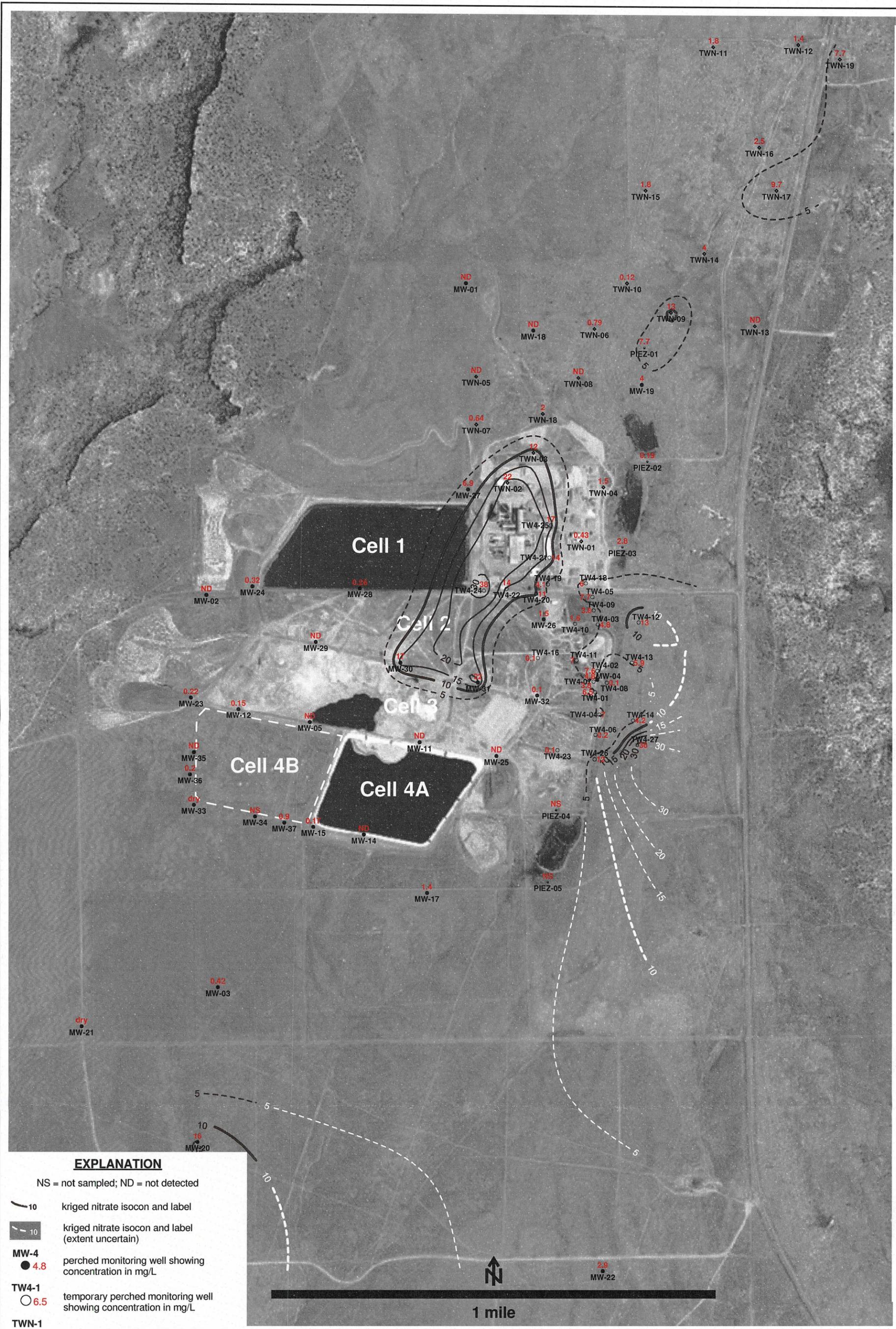
Sample Batch	Wells in Batch	Temperature
1210325	Piezometer 1, Piezometer 2, Piezometer 3, TWN-1, TWN-2, TWN-3, TWN-4, TWN-5, TWN-6, TWN-7, TWN-8, TWN-8R, TWN-9, TWN-10, TWN-11, TWN-11R, TWN-12, TWN-13, TWN-14, TWN-15, TWN-16, TWN-17, TWN-18, TWN-19, TWN-60, TWN-65, TWN-70	2.4 °C

H-8 Rinsate Evaluation

All Rinsate and DI Blank samples were non-detect for the 4th quarter of 2012.

Tab I

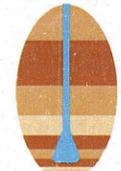
Kriged Current Quarter Isoconcentration Maps



EXPLANATION

NS = not sampled; ND = not detected

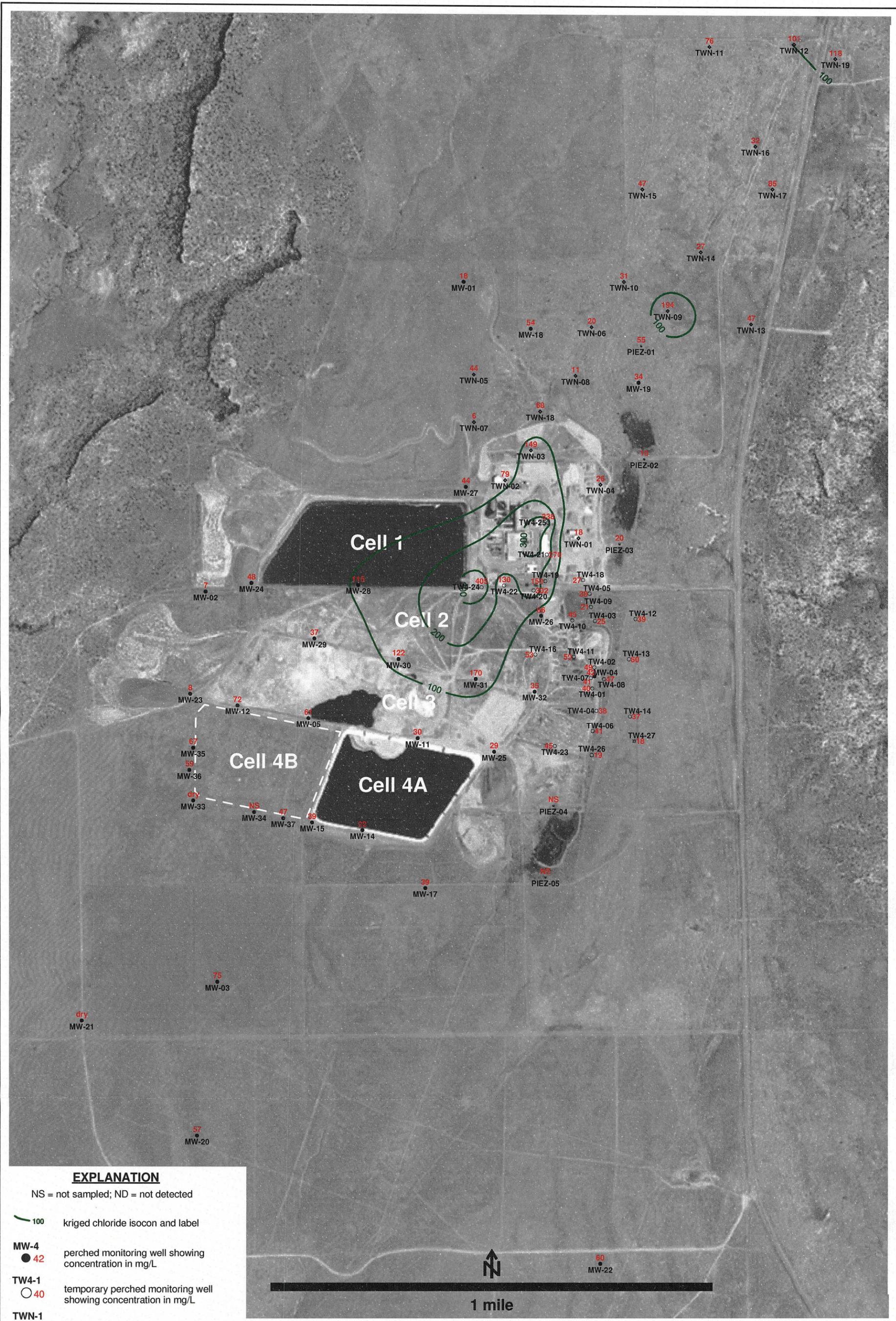
- kriged nitrate isocon and label
- kriged nitrate isocon and label (extent uncertain)
- MW-4 perched monitoring well showing concentration in mg/L
- TW4-1 temporary perched monitoring well showing concentration in mg/L
- TWN-1 temporary perched nitrate monitoring well showing concentration in mg/L
- PIEZ-1 perched piezometer showing concentration in mg/L
- TW4-27 temporary perched monitoring well installed October 2011 showing concentration in mg/L



**HYDRO
GEO
CHEM, INC.**

**KRIGED 4th QUARTER, 2012 NITRATE (mg/L)
(NITRATE + NITRITE AS N)
WHITE MESA SITE**

APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/feb13/nitrate/Unt1212.srf	I - 1



EXPLANATION

- NS = not sampled; ND = not detected
- 100 kriged chloride isocon and label
- MW-4 perched monitoring well showing concentration in mg/L
- TW4-1 temporary perched monitoring well showing concentration in mg/L
- TWN-1 temporary perched nitrate monitoring well showing concentration in mg/L
- PIEZ-1 perched piezometer showing concentration in mg/L
- TW4-27 temporary perched monitoring well installed October, 2011 showing concentration in mg/L



**HYDRO
GEO
CHEM, INC.**

**KRIGED 4th QUARTER, 2012 CHLORIDE (mg/L)
WHITE MESA SITE**

APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/feb13/chloride/Ucl1212.srf	I - 2

Tab J

Analyte Concentrations Over Time

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

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

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

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

TWN-5

Date	Nitrate (mg/l)	Chloride (mg/l)	
8/25/2009	0.22	42	
9/21/2009	0.5	45	
11/10/2009	0.2	48	
3/16/2010	0.3	43	
5/26/2010	0.3	44	
7/12/2010	0.3	43	
12/7/2010	0.3	45	
1/25/2011	0.4	47	
4/20/2011	0.3	44	
7/26/2011	0.3	44	
10/17/2011	0.3	45	
1/9/2012	0.2	45	
4/18/2012	0.3	39	
7/24/2012	0.3	48	
10/15/2012	0.1	43.5	Nitrate ND

TWN-6

Date	Nitrate (mg/l)	Chloride (mg/l)
8/25/2009	3.2	32
9/22/2009	1.6	13
11/3/2009	1.4	21
3/23/2010	1.5	19
6/1/2010	1.4	22
7/13/2010	1.4	73
12/8/2010	1.2	21
1/26/2011	1.1	18
4/20/2011	1.5	22
7/27/2011	1.1	17
10/18/2011	1.4	21
1/10/2012	1.2	20
4/18/2012	1.1	22
7/25/2012	1.4	22
10/15/2012	0.786	20.4

TWN-7

Date	Nitrate (mg/l)	Chloride (mg/l)
8/25/2009	ND	11
9/21/2009	ND	7
11/10/2009	0.1	7
3/17/2010	0.8	6
5/28/2010	1.2	6
7/14/2010	1.6	7
12/10/2010	1	4
1/27/2011	1.3	6
4/21/2011	1.7	6
7/29/2011	0.7	5
10/19/2011	2.2	6
1/11/2012	2.3	5
4/20/2012	1.2	6
7/26/2012	0.9	6
10/16/2012	0.641	5.67

TWN-8

Date	Nitrate (mg/l)	Chloride (mg/l)	Notes
8/25/2009	0	11	Nitrate is ND
9/21/2009	0	12	Nitrate is ND
11/10/2009	0	12	Nitrate is ND
3/16/2010	0	11	Nitrate is ND
5/26/2010	0	11	Nitrate is ND
7/12/2010	0	11	Nitrate is ND
12/6/2010	0	9	Nitrate is ND
1/25/2011	0	13	Nitrate is ND
4/18/2011	0	10	Nitrate is ND
7/26/2011	0	18	Nitrate is ND
10/17/2011	0	10	Nitrate is ND
1/9/2012	0	11	Nitrate is ND
4/18/2012	0	15	Nitrate is ND
7/24/2012	0	11	Nitrate is ND
10/15/2012	0	11.1	Nitrate is ND

TWN-9

Date	Nitrate (mg/l)	Chloride (mg/l)
8/25/2009	9.3	169
9/22/2009	8.9	201
11/10/2009	12	205
3/23/2010	7.6	183
6/1/2010	7.6	175
7/15/2010	10.7	210
12/9/2010	8	172
2/1/2011	9.5	217
4/28/2011	10	192
7/29/2011	11	208
10/20/2011	10.9	134
1/12/2012	12.2	202
4/20/2012	10.6	209
7/31/2012	12.3	215
10/15/2012	12.5	194

TWN-10

Date	Nitrate (mg/l)	Chloride (mg/l)
8/25/2009	1.1	19
9/22/2009	1.6	35
11/10/2009	1.4	26
3/23/2010	1.5	54
6/4/2010	1	30
7/14/2010	0.2	21
12/8/2010	1.3	28
1/27/2011	0.3	40
4/21/2011	1.2	28
7/27/2011	0.1	28
10/18/2011	0.2	33
1/10/2012	0.8	44
4/19/2012	0.9	28
7/25/2012	0.6	33
10/16/2012	0.119	30.8

TWN-11

Date	Nitrate (mg/l)	Chloride (mg/l)
11/3/2009	1.3	74
3/17/2010	1.4	73
6/4/2010	1.3	72
9/27/2010	1.4	76
12/8/2010	1.4	72
1/27/2011	1.4	84
4/26/2011	1.4	76
7/27/2011	0.1	76
10/17/2011	1.6	76
1/10/2012	1.6	69
4/19/2012	1.6	71
7/25/2012	1.8	77
10/16/2012	1.84	76.4

TWN-12

Date	Nitrate (mg/l)	Chloride (mg/l)
11/3/2009	0.5	109
3/17/2010	0.7	113
5/26/2010	0.8	106
7/12/2010	0.7	112
12/7/2010	0.7	103
1/26/2011	4.2	87
4/26/2011	1	109
7/26/2011	0.6	102
10/17/2011	1.2	87
1/10/2012	0.9	104
4/18/2012	1.2	106
7/25/2012	1.4	102
10/16/2012	1.41	101

TWN-13

Date	Nitrate (mg/l)	Chloride (mg/l)	Notes
11/4/2009	0.5	83	
3/17/2010	0	47	Nitrate ND
5/26/2010	0.1	49	
9/27/2010	0.2	53	
12/7/2010	0.4	57	
1/25/2011	1.6	103	
4/26/2011	0	49	Nitrate ND
7/26/2011	0.1	49	
10/17/2011	0	48	Nitrate ND
1/9/2012	0	46	Nitrate ND
4/18/2012	0	53	Nitrate ND
7/24/2012	0.1	48	
10/15/2012	0	47.3	Nitrate ND

TWN-14

Date	Nitrate (mg/l)	Chloride (mg/l)
11/4/2009	3.4	32
3/24/2010	2.9	24
6/2/2010	2.9	30
7/15/2010	3.5	26
12/10/2010	4.2	28
1/28/2011	3.7	24
4/27/2011	3.5	30
7/29/2011	3.5	25
10/19/2011	3.9	27
1/11/2012	3.5	26
4/20/2012	3.4	27
7/27/2012	3.7	27
10/17/2012	4.03	27.4

TWN-15

Date	Nitrate (mg/l)	Chloride (mg/l)
11/10/2009	1.1	78
3/18/2010	0.7	43
5/28/2010	1.0	39
7/13/2010	1.0	36
12/9/2010	1.2	38
1/27/2011	1.4	43
4/27/2011	1.6	49
7/28/2011	1.6	47
10/19/2011	1.3	38
1/11/2012	1.5	38
4/20/2012	1.6	46
7/26/2012	2.1	50
10/17/2012	1.8	47

TWN-16

Date	Nitrate (mg/l)	Chloride (mg/l)
11/4/2009	1	39
3/17/2010	1.2	35
5/27/2010	0.2	35
9/27/2010	2.6	35
12/9/2010	2	30
1/27/2011	4.6	34
4/27/2011	1.6	39
7/27/2011	2.4	31
10/18/2011	2.6	34
1/10/2012	2.8	33
4/19/2012	2	50
7/25/2012	2.4	33
10/16/2012	2.5	32.1

TWN-17

Date	Nitrate (mg/l)	Chloride (mg/l)
11/4/2009	6.7	152
3/24/2010	10.4	78
6/3/2010	11	87
7/15/2010	8.9	66
12/10/2010	8	65
2/1/2011	8.6	90
4/28/2011	9	81
7/29/2011	8.5	74
10/20/2011	8.1	71
1/12/2012	8.7	79
4/20/2012	9.1	80
7/27/2012	9.5	85
10/17/2012	9.65	84.8

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

TWN-19

Date	Nitrate (mg/l)	Chloride (mg/l)
11/2/2009	7.4	125
3/23/2010	7.2	118
6/1/2010	6.2	113
9/29/2010	7.2	113
12/9/2010	7	107
2/1/2011	7	114
4/28/2011	6.9	120
7/28/2011	7.1	113
10/18/2011	6.5	108
1/10/2012	7	114
4/19/2012	6.8	117
7/26/2012	7.5	117
10/16/2012	7.7	118

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

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

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

Piezometer 4

Date	Nitrate (mg/l)	Chloride (mg/l)
7/14/2009	1.8	46

Piezometer 5

Date	Nitrate (mg/l)	Chloride (mg/l)
7/14/2009	0.7	18

MW-18

Date	Nitrate (mg/l)	Chloride (mg/l)
7/14/2009	ND	51

MW-19

Date	Nitrate (mg/l)	Chloride (mg/l)
7/14/2009	2.2	24

Upper Wildlife Pond

Date	Nitrate (mg/l)	Chloride (mg/l)	Note
9/22/2009	0	5	Nitrate ND
10/27/2009	0	3	Nitrate ND
6/2/2010	0	0	Nitrate and Chloride ND
7/19/2010	0	0	Nitrate and Chloride ND
12/10/2010	0	1	Nitrate ND
1/31/2011	0.1	1	
4/25/2011	0	0	Nitrate and Chloride ND
7/25/2011	0	0	Nitrate and Chloride ND
10/19/2011	0	0	Nitrate and Chloride ND
1/11/2012	0	2	Nitrate ND

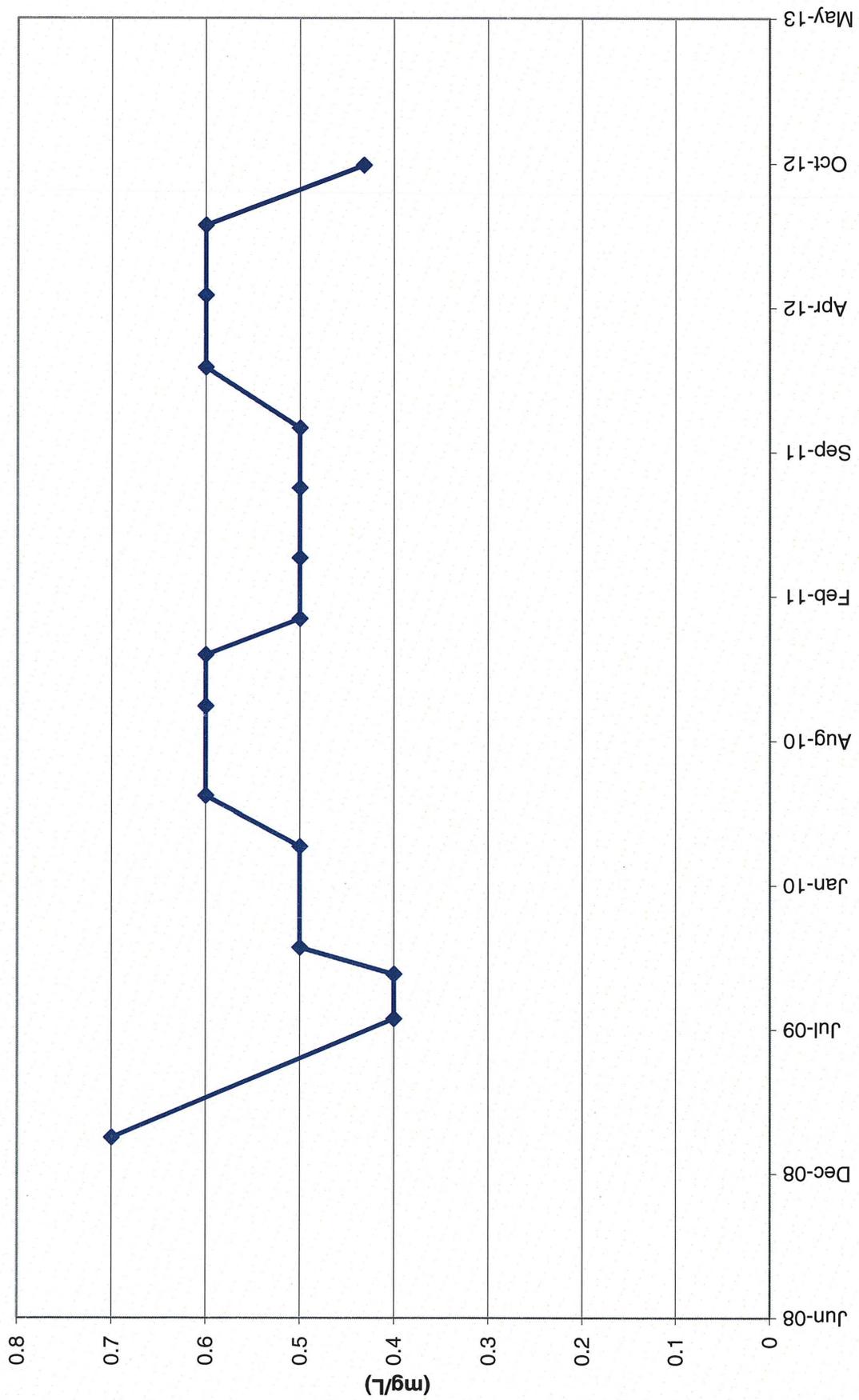
Frog Pond

Date	Nitrate (mg/l)	Chloride (mg/l)	Notes
10/14/09	0	0	Nitrate ND

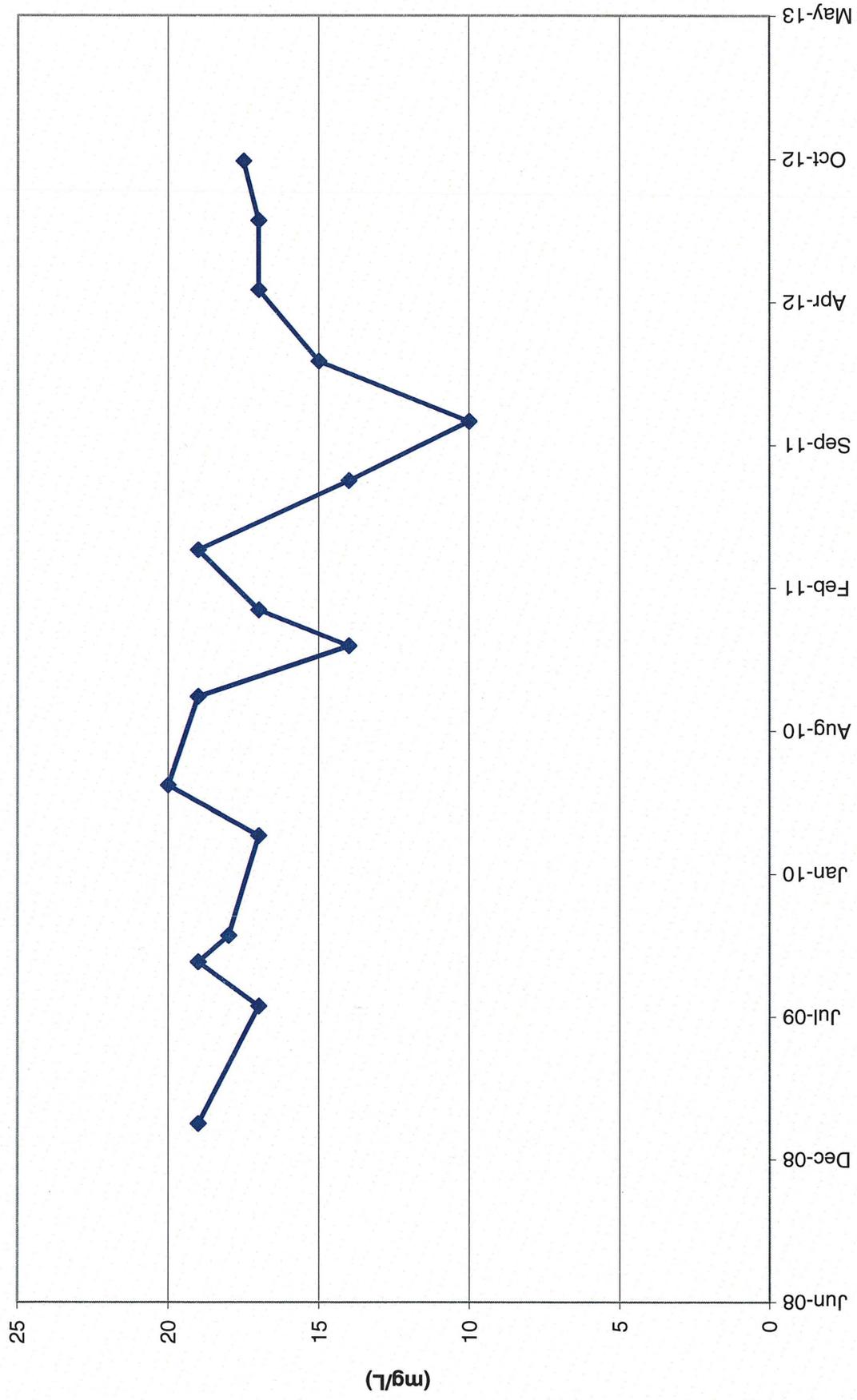
Tab K

Concentration Trend Graphs

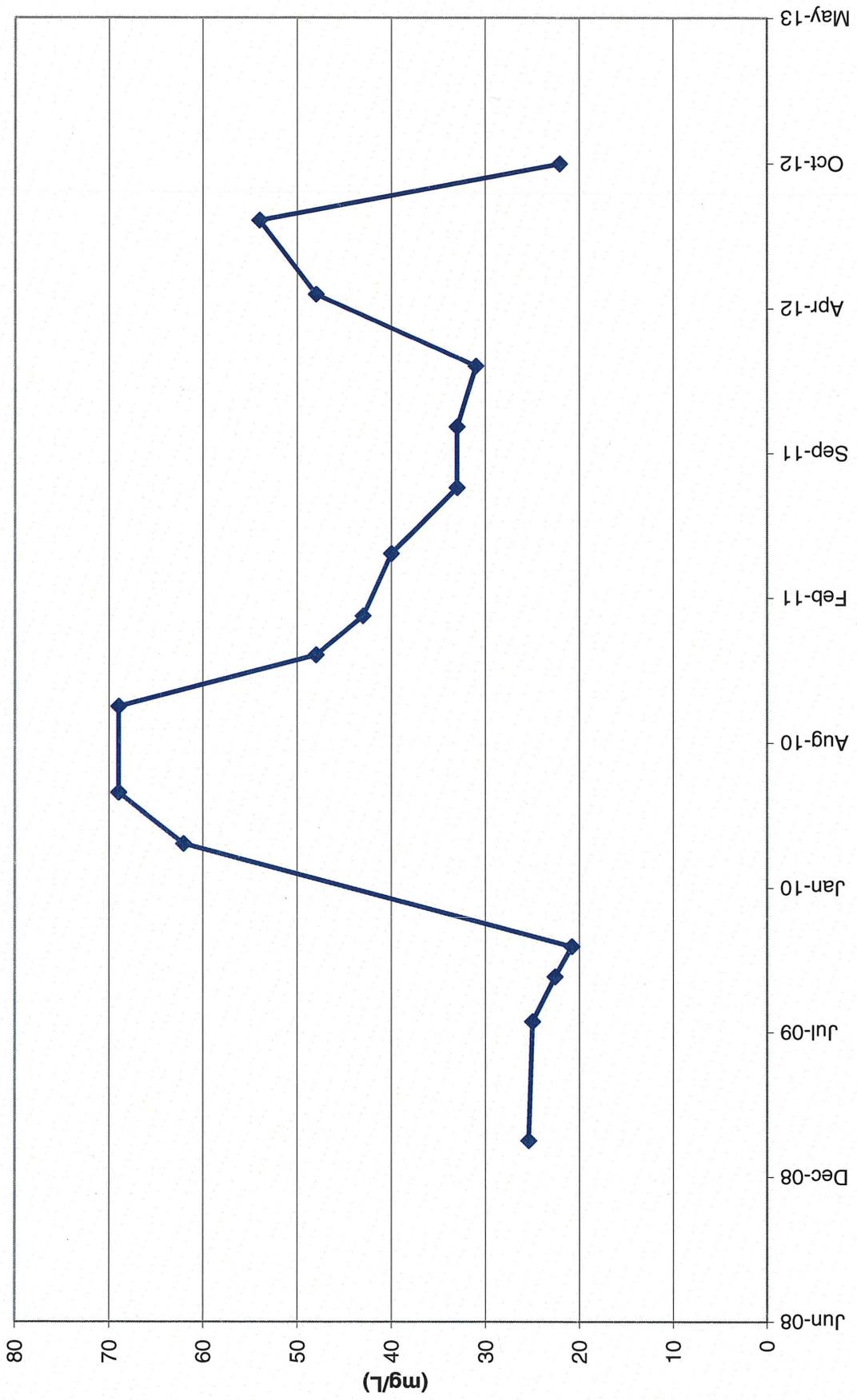
TWN-1 Nitrate Concentrations



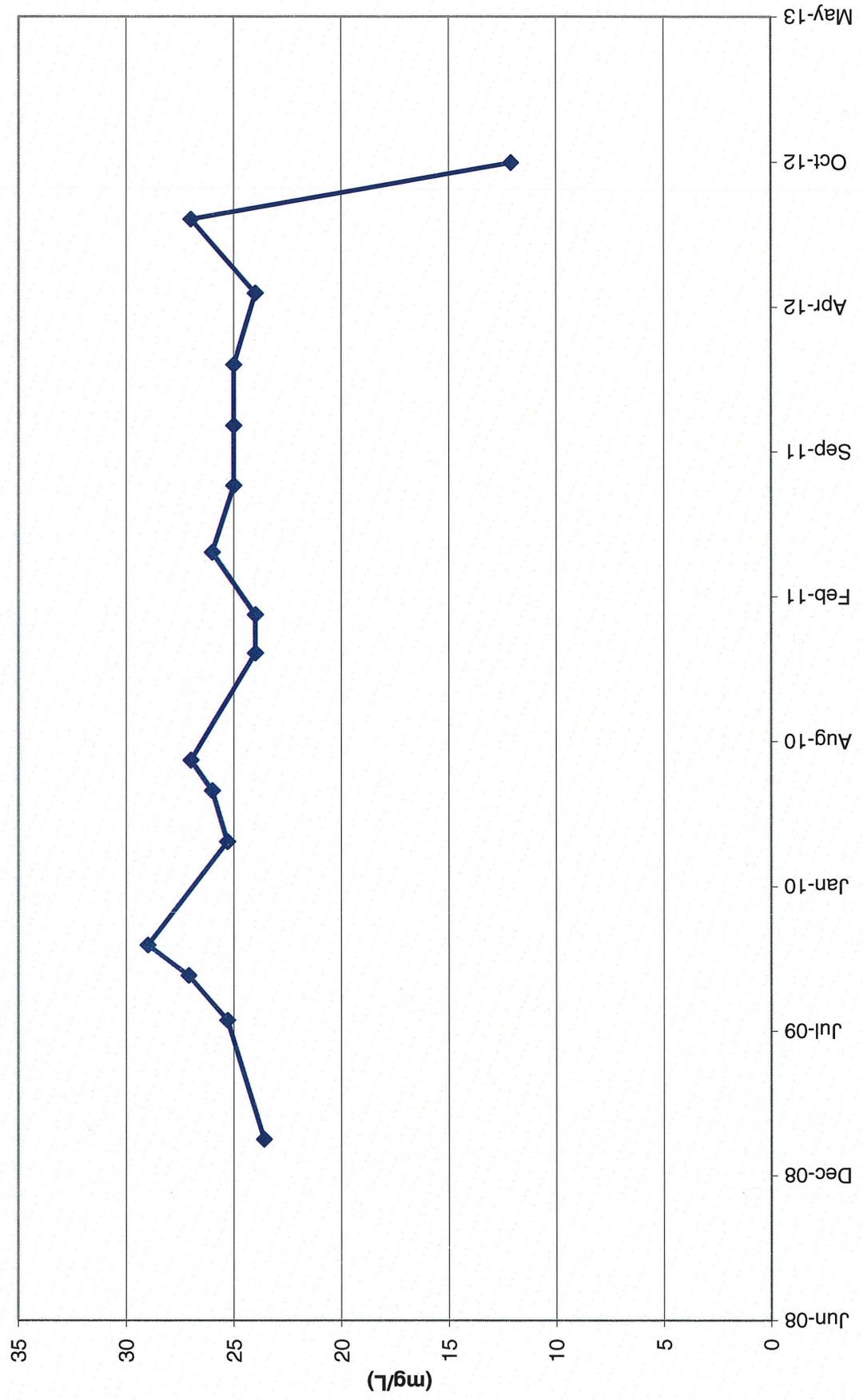
TWN-1 Chloride Concentrations



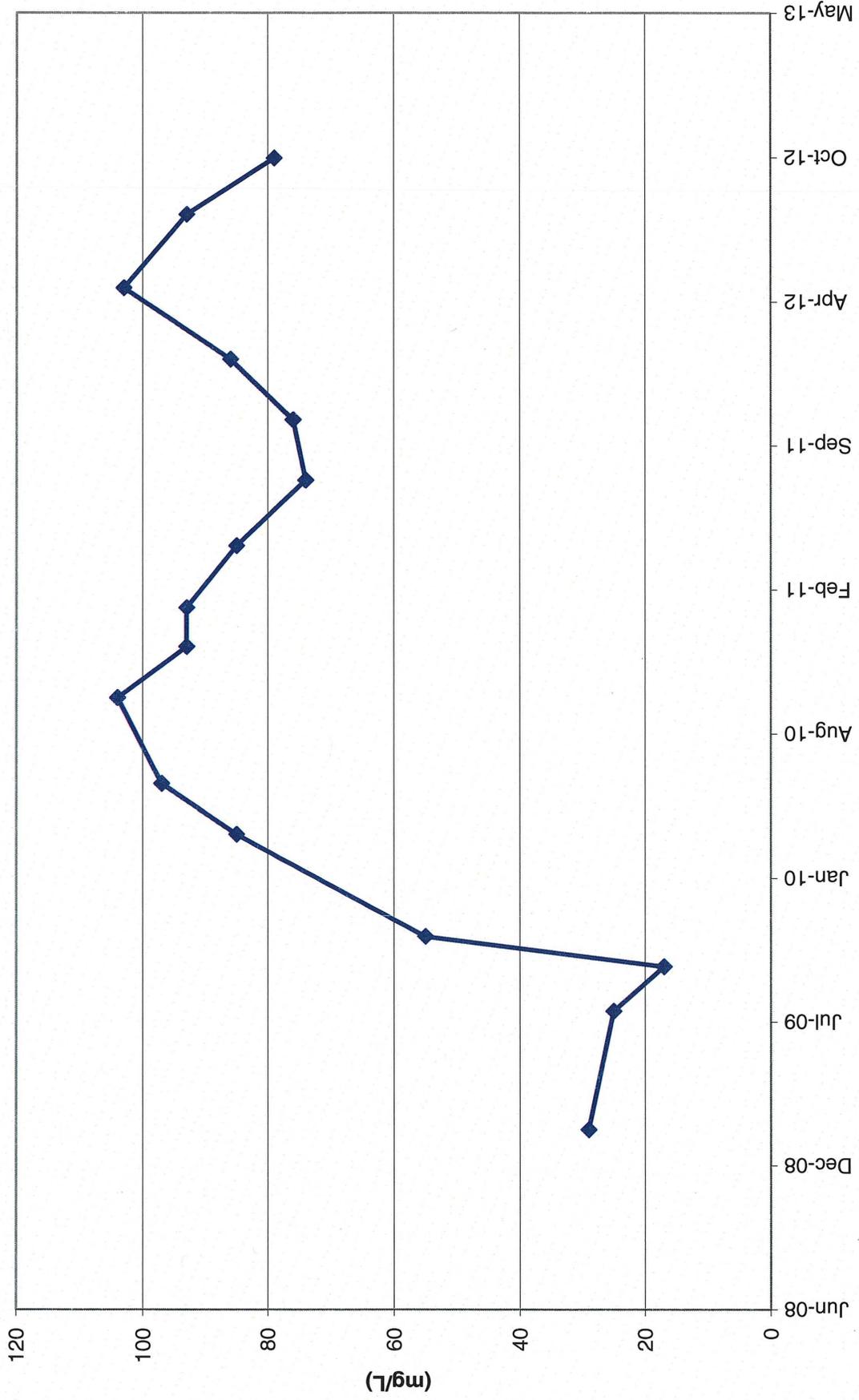
TWN-2 Nitrate Concentrations



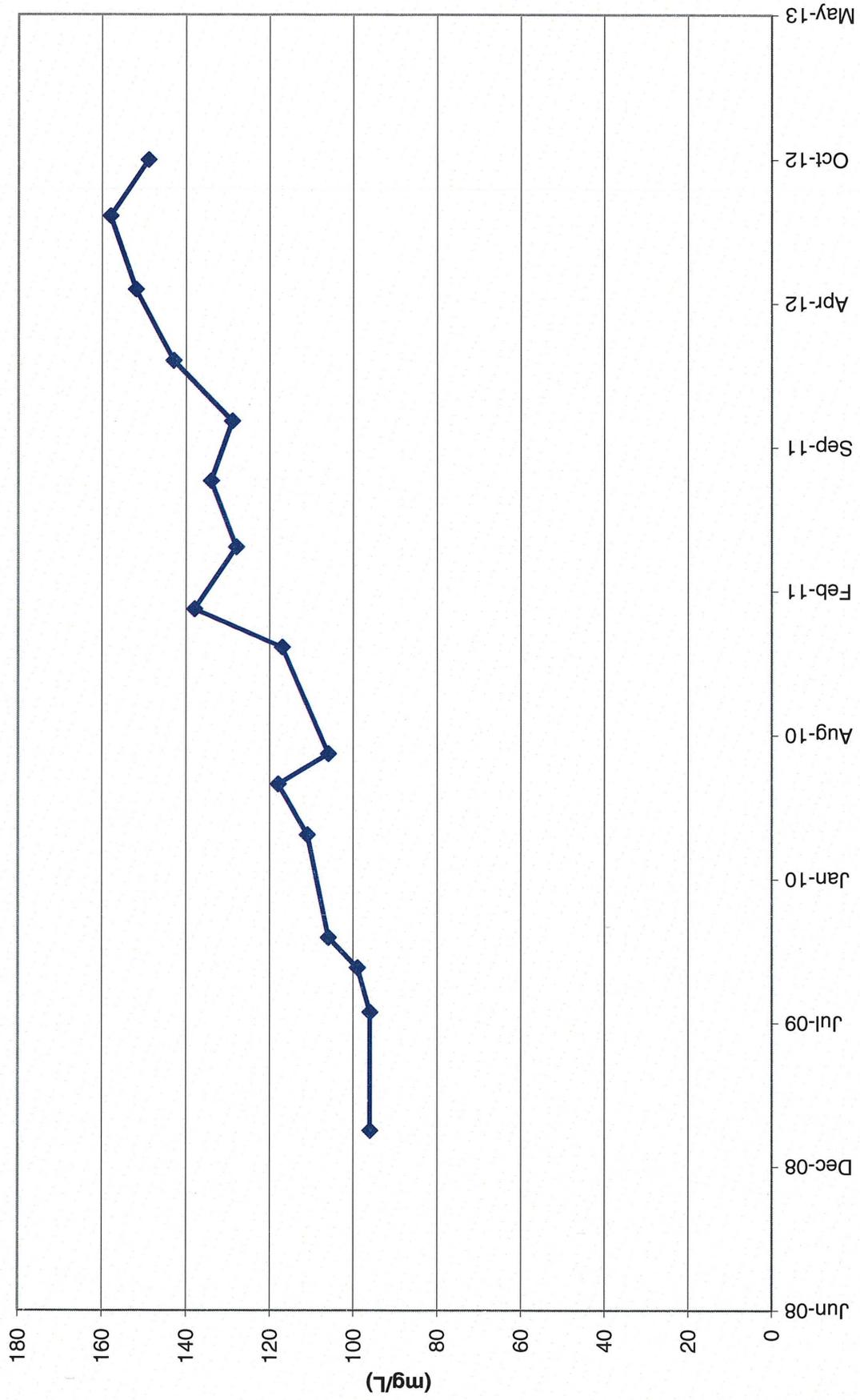
TWN-3 Nitrate Concentrations



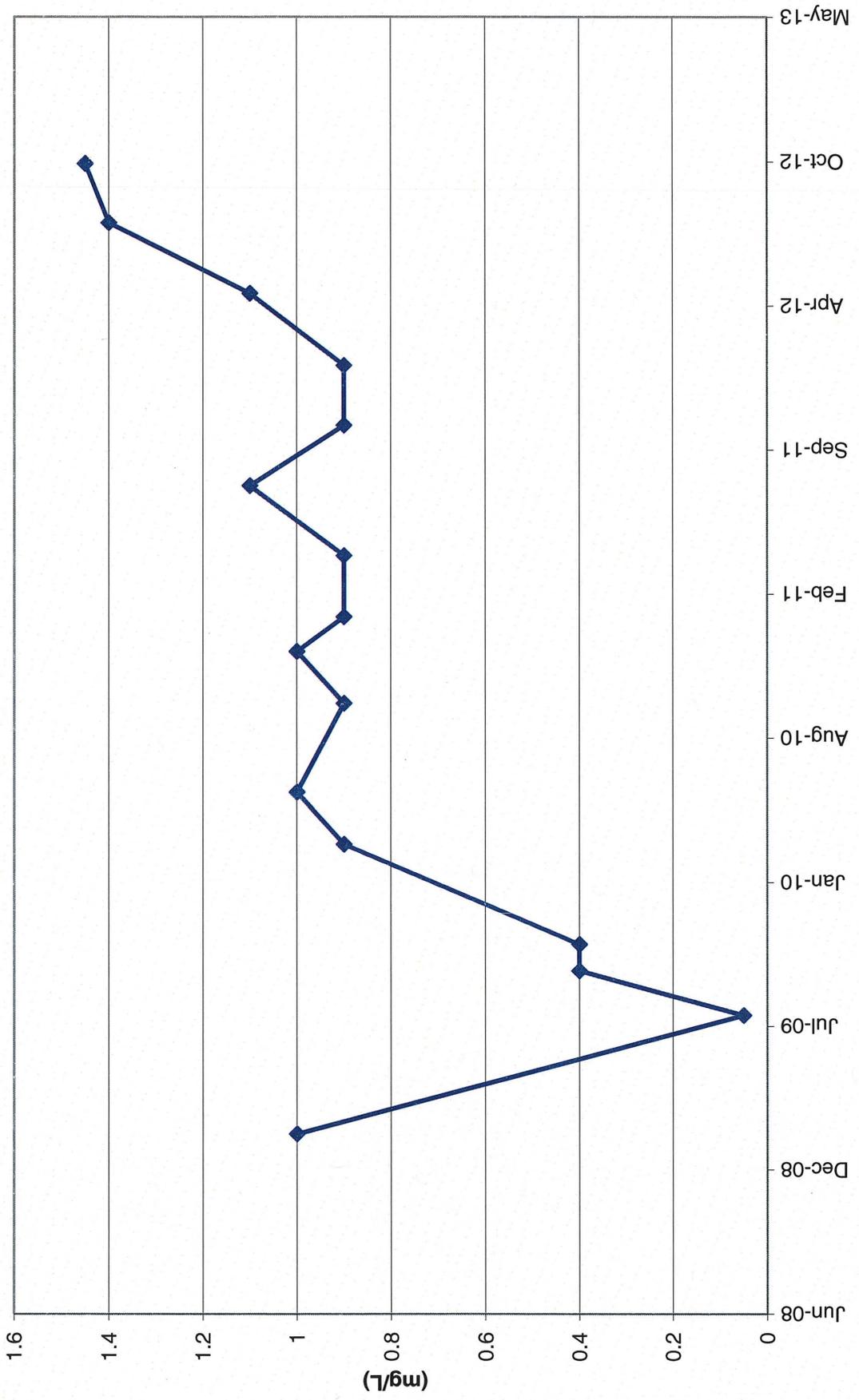
TWN-2 Chloride Concentrations



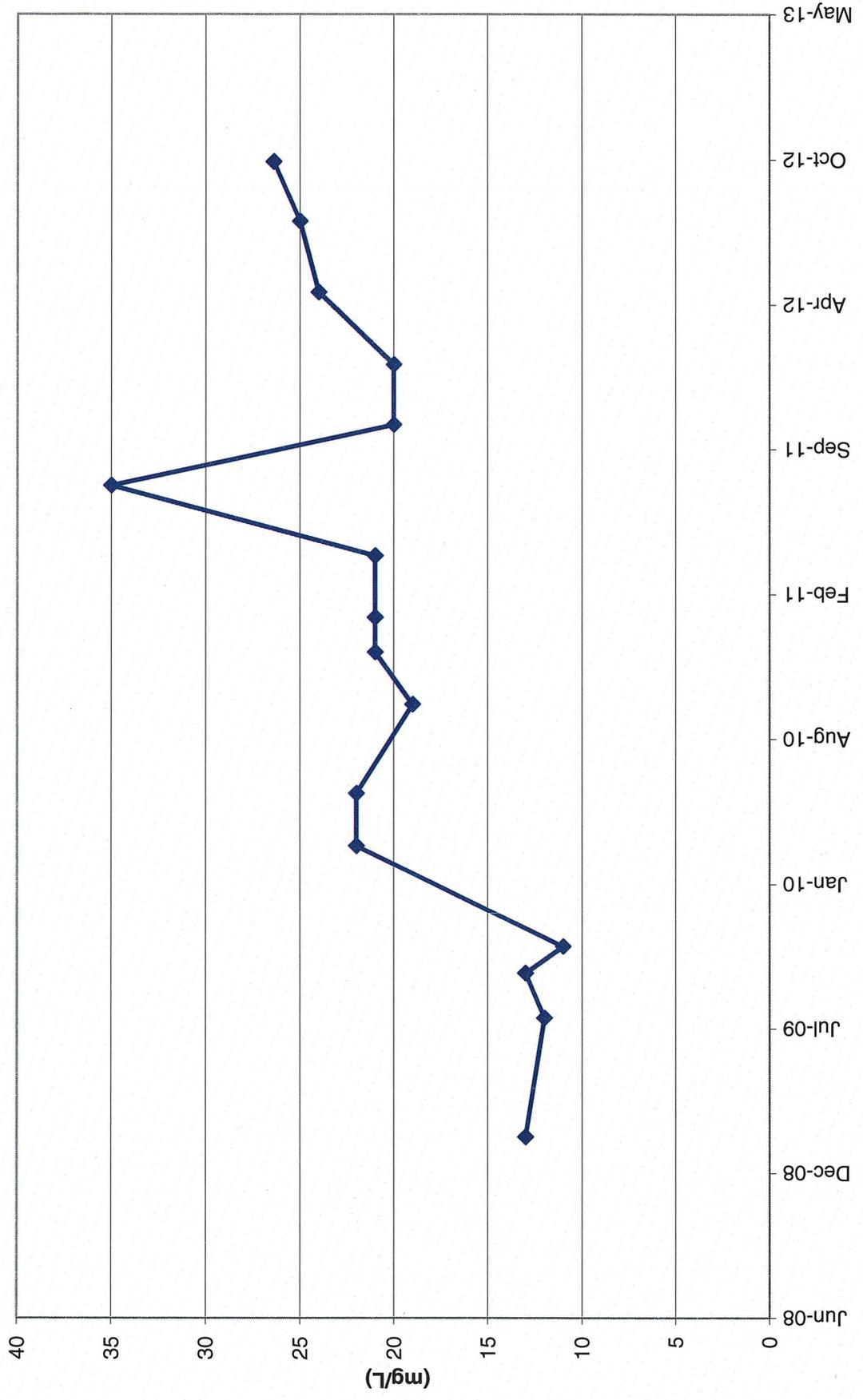
TWN-3 Chloride Concentrations



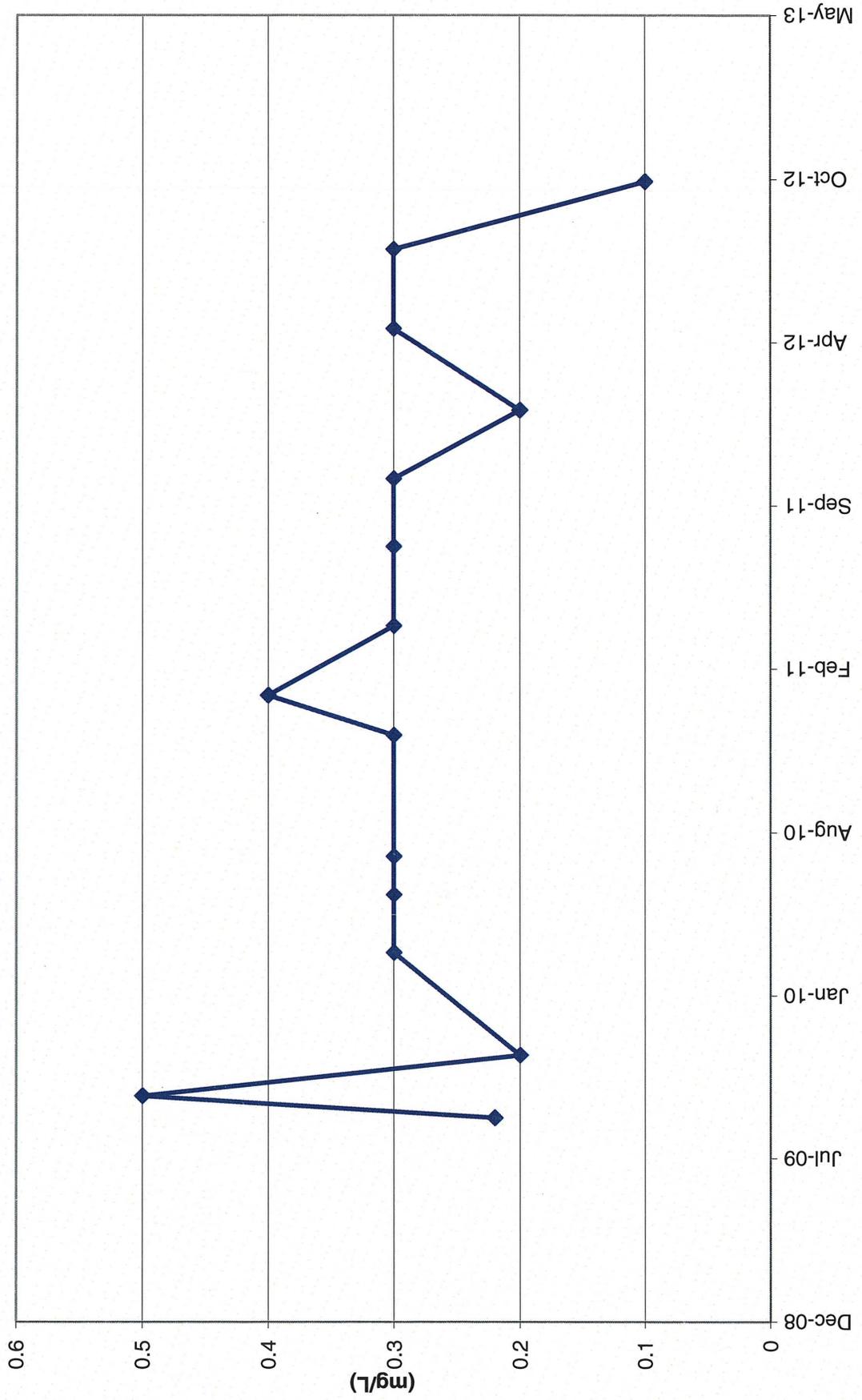
TWN-4 Nitrate Concentrations



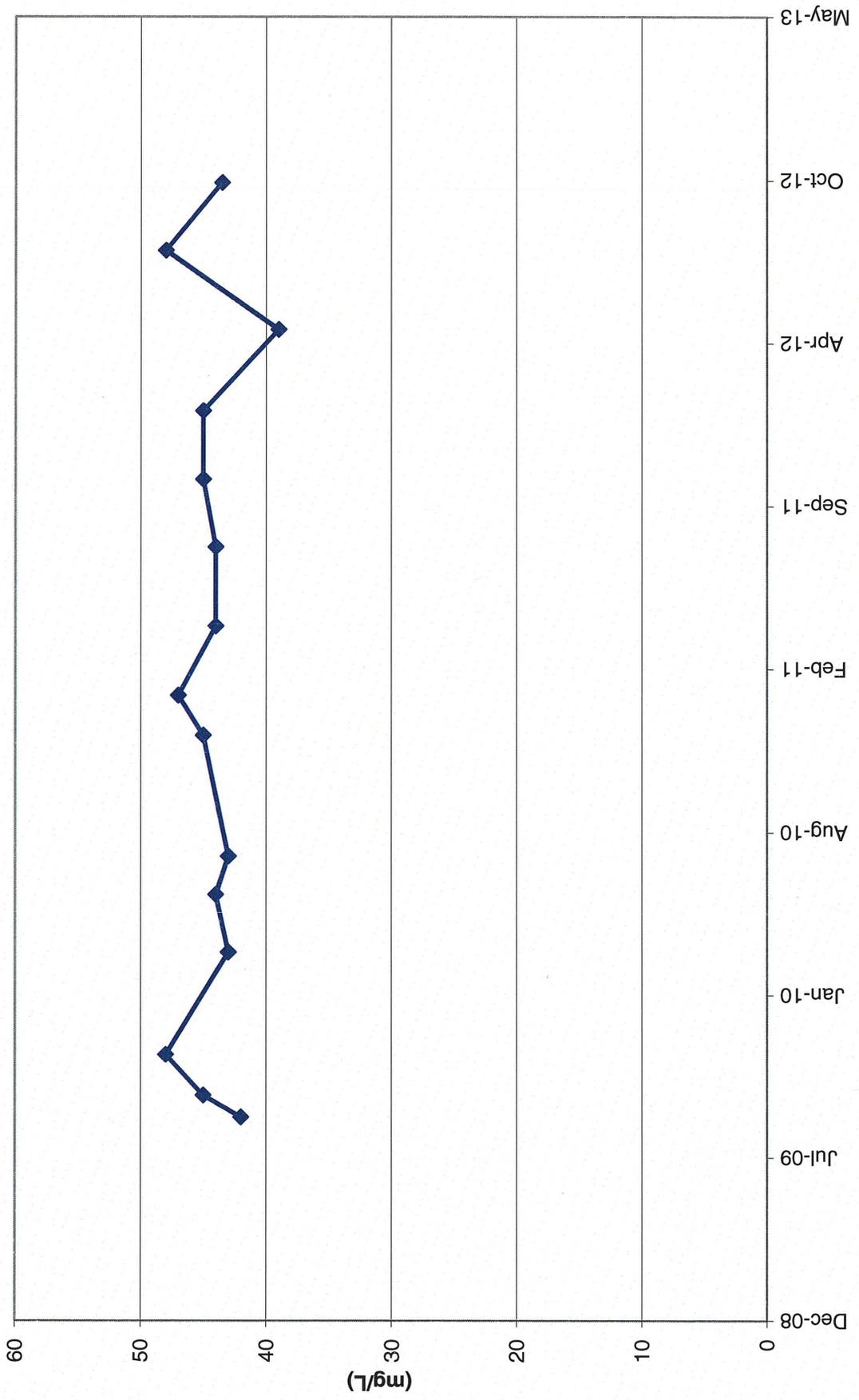
TWN-4 Chloride Concentrations



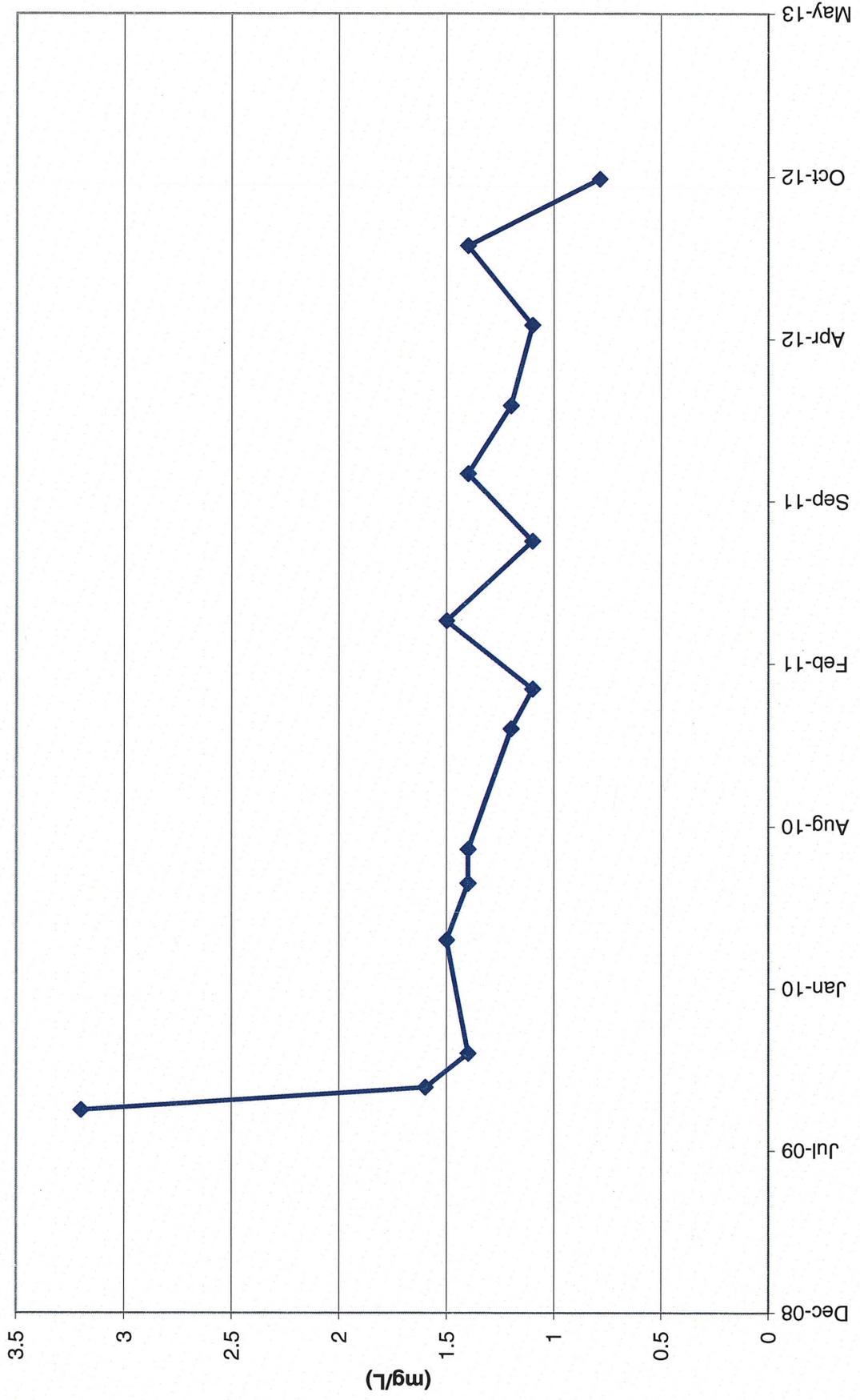
TWN-5 Nitrate Concentrations



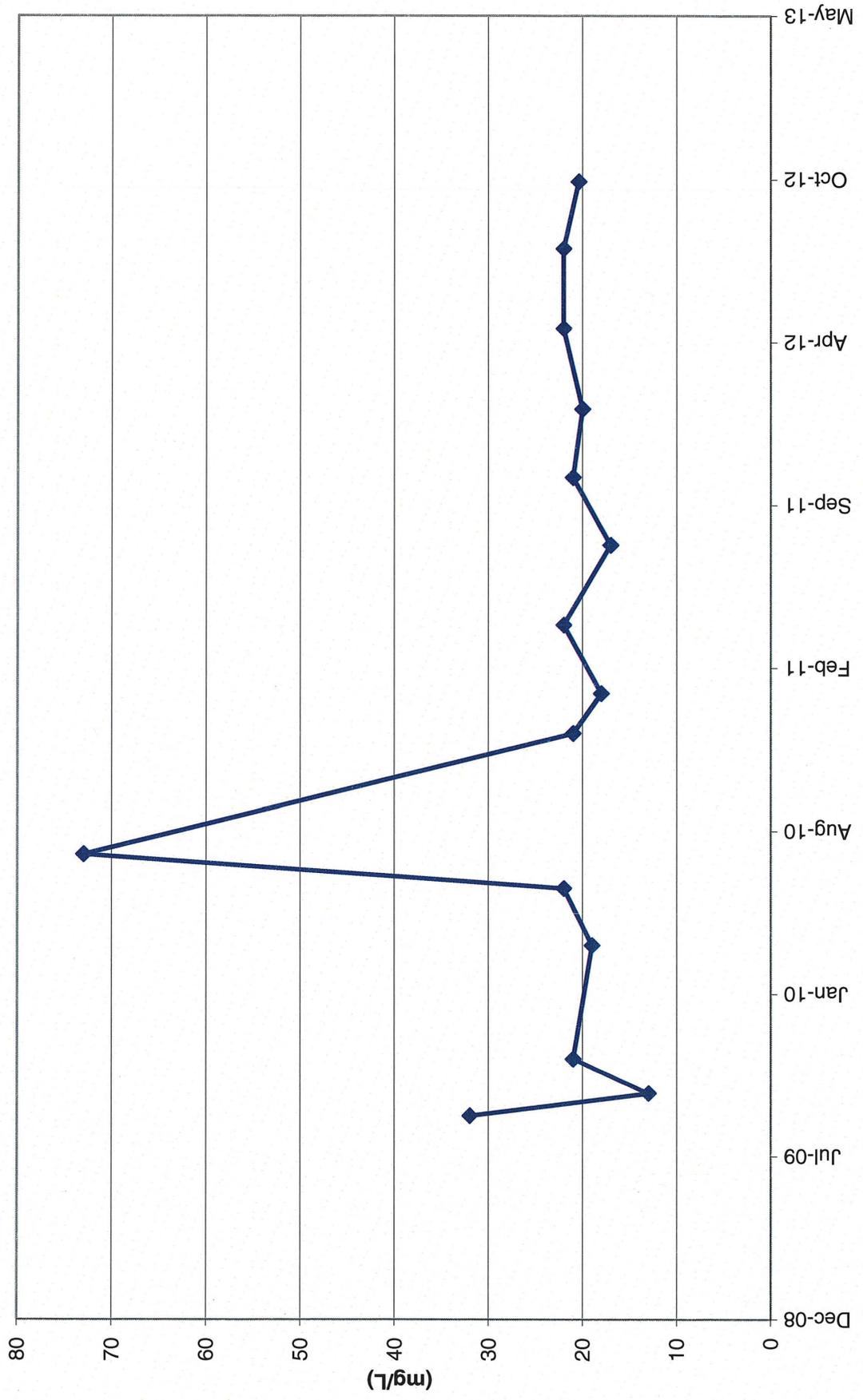
TWN-5 Chloride Concentrations



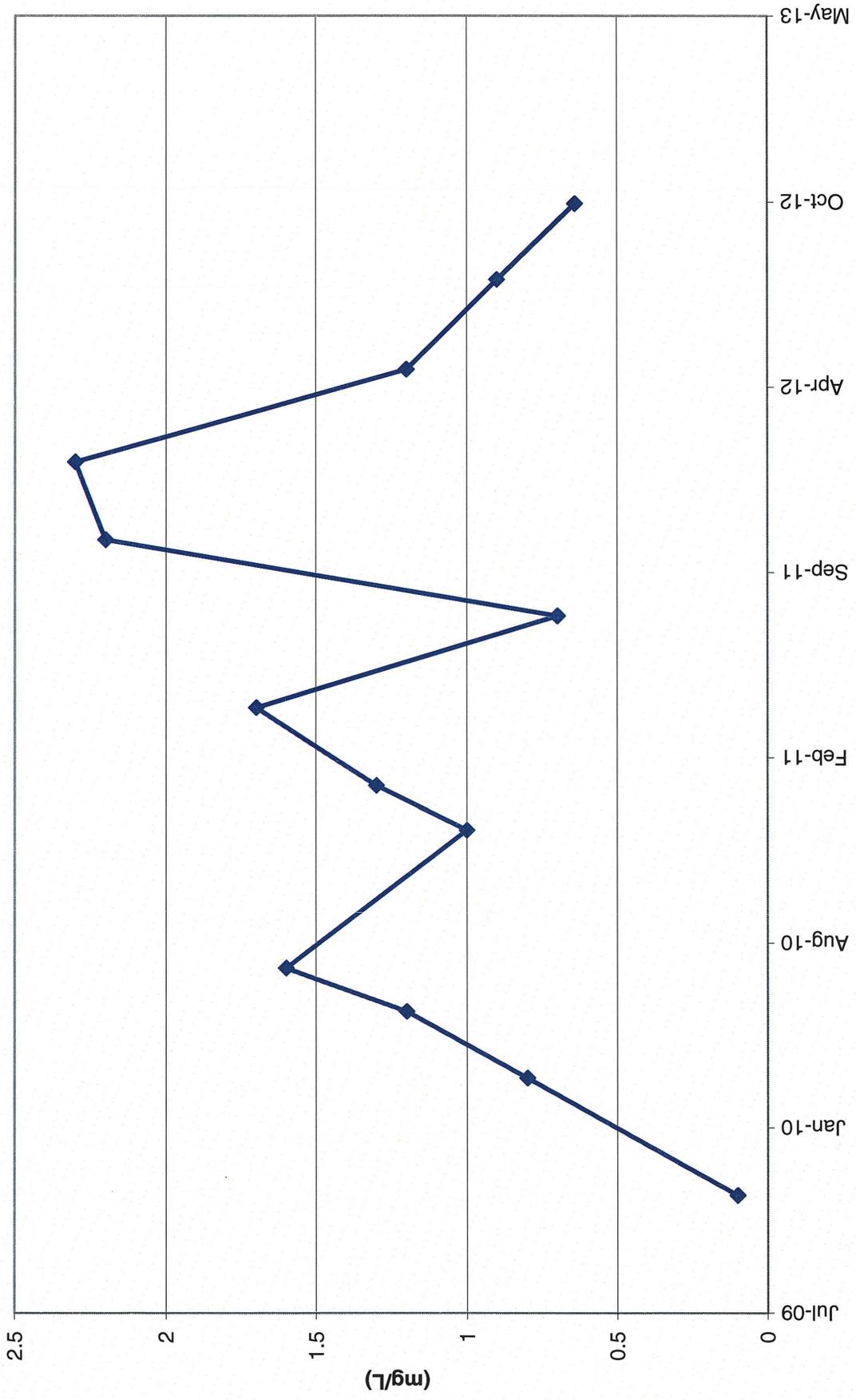
TWN-6 Nitrate Concentrations



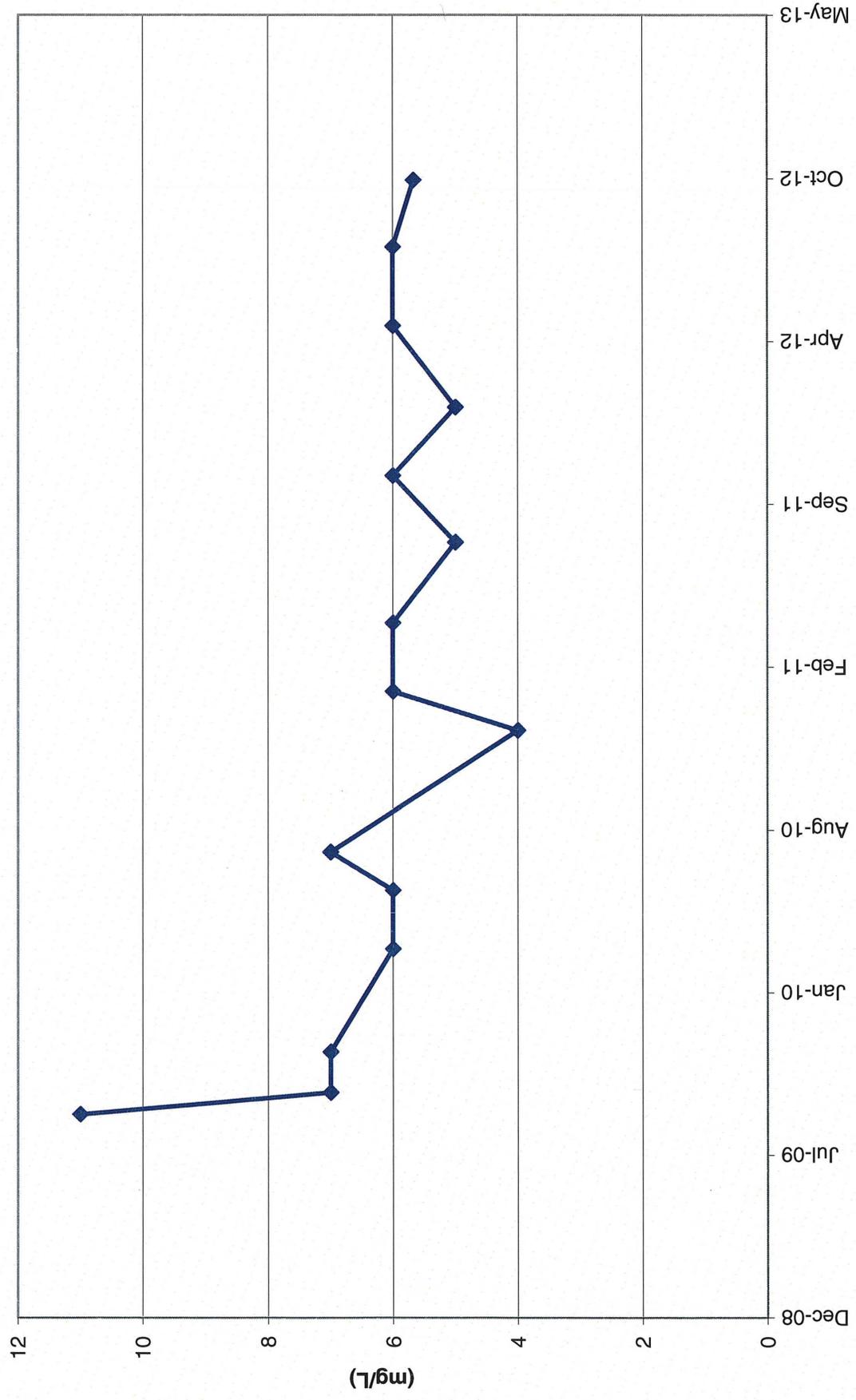
TWN-6 Chloride Concentrations



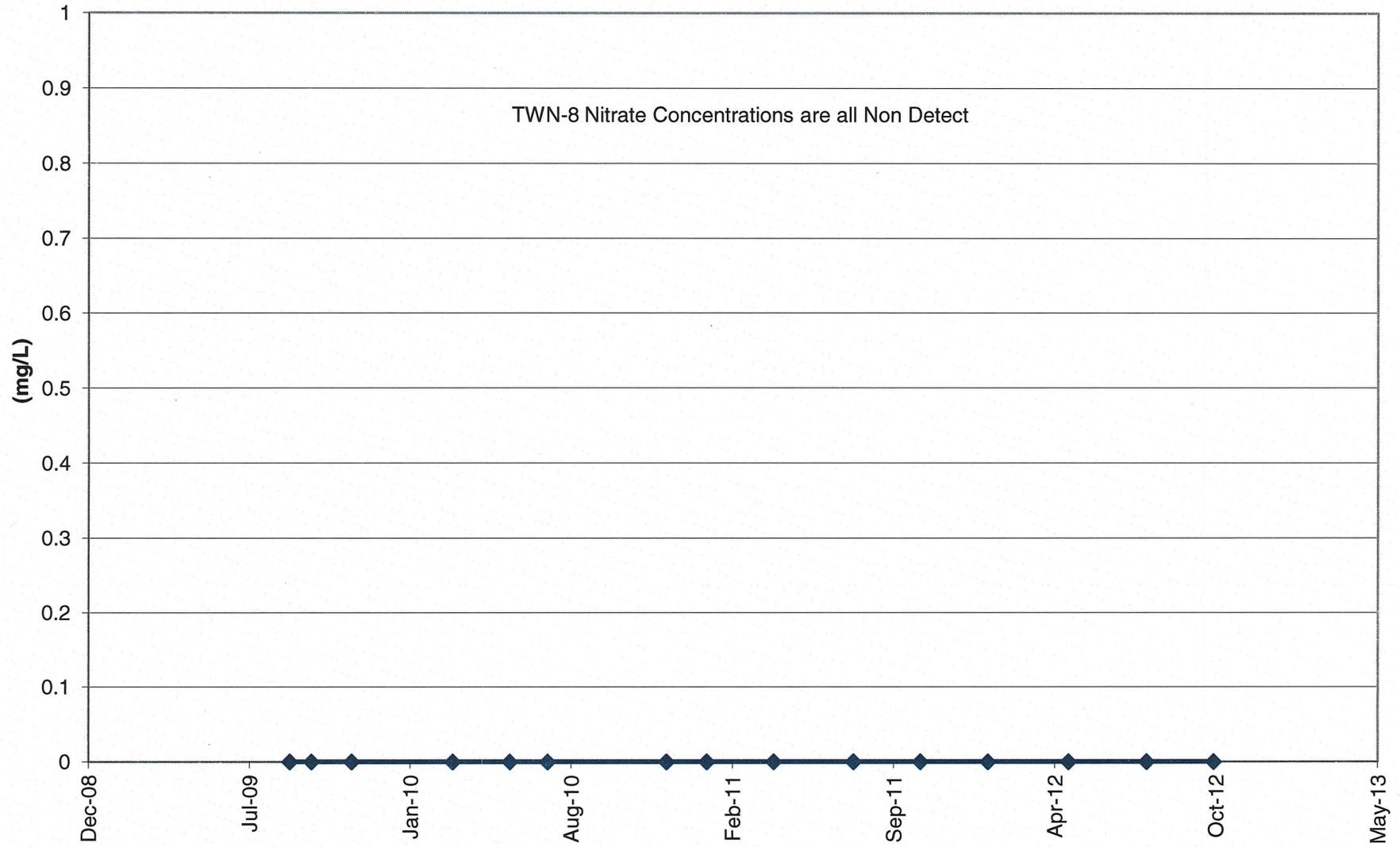
TWN-7 Nitrate Concentrations



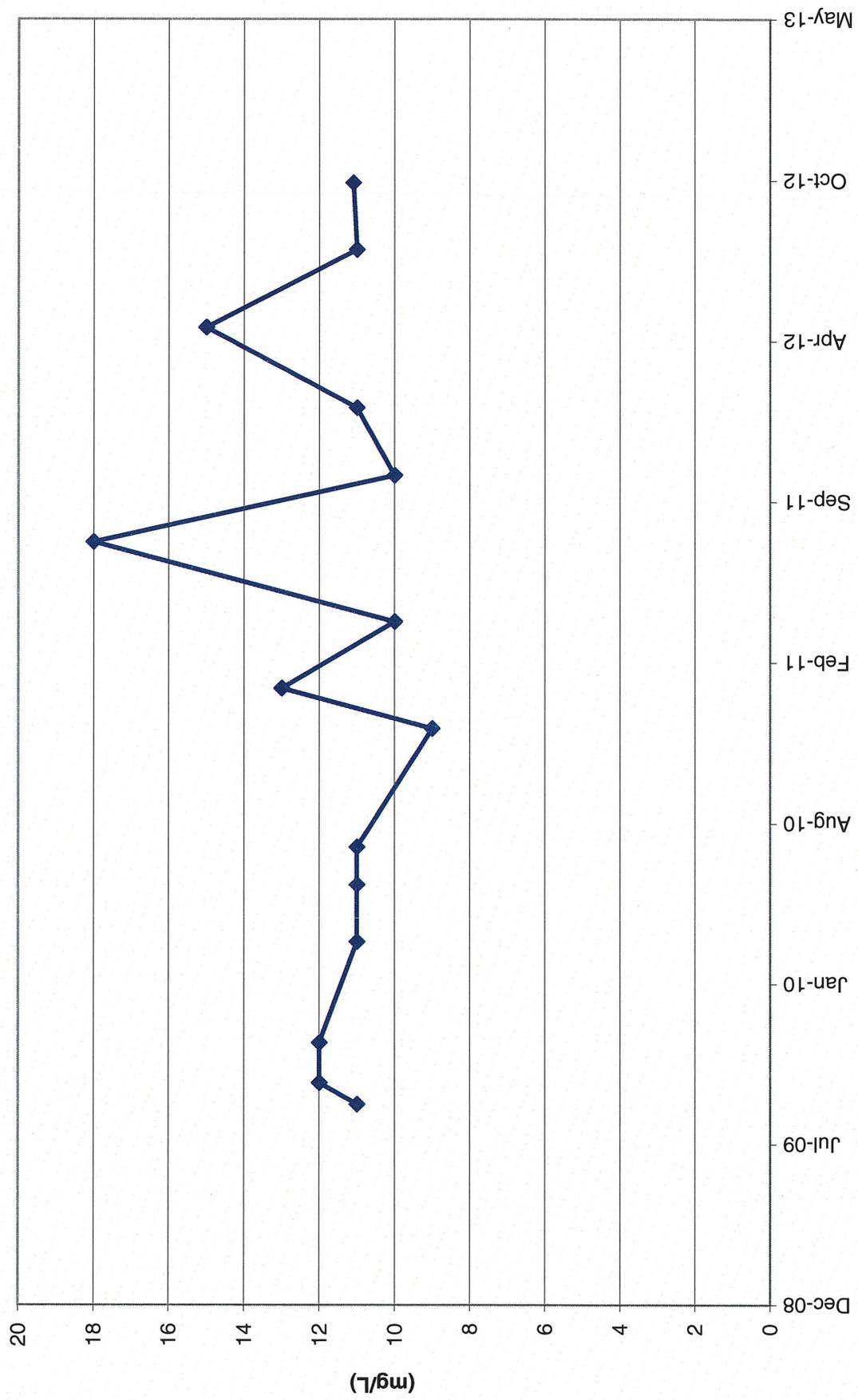
TWN-7 Chloride Concentrations



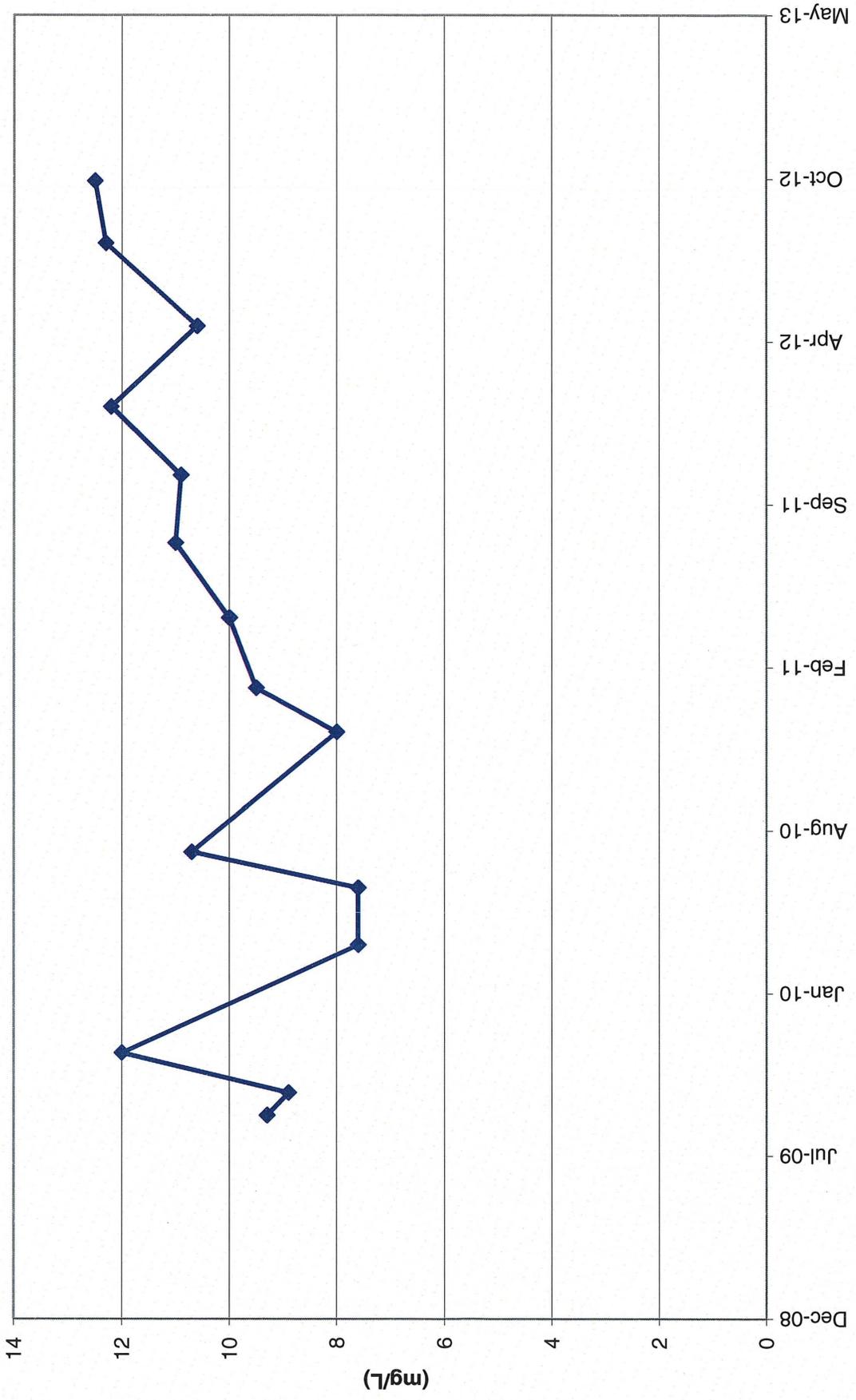
TWN-8 Nitrate Concentrations



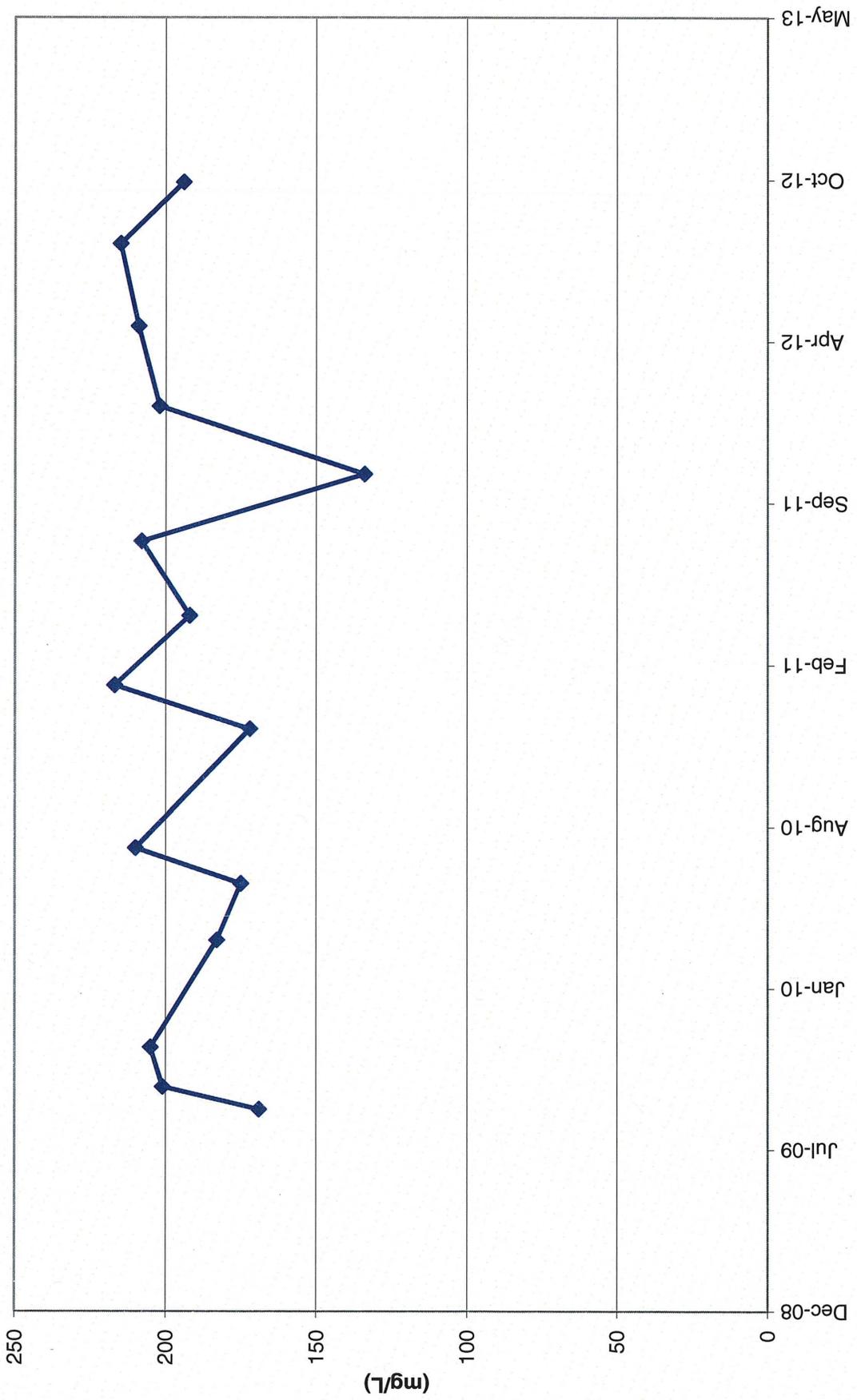
TWN-8 Chloride Concentrations



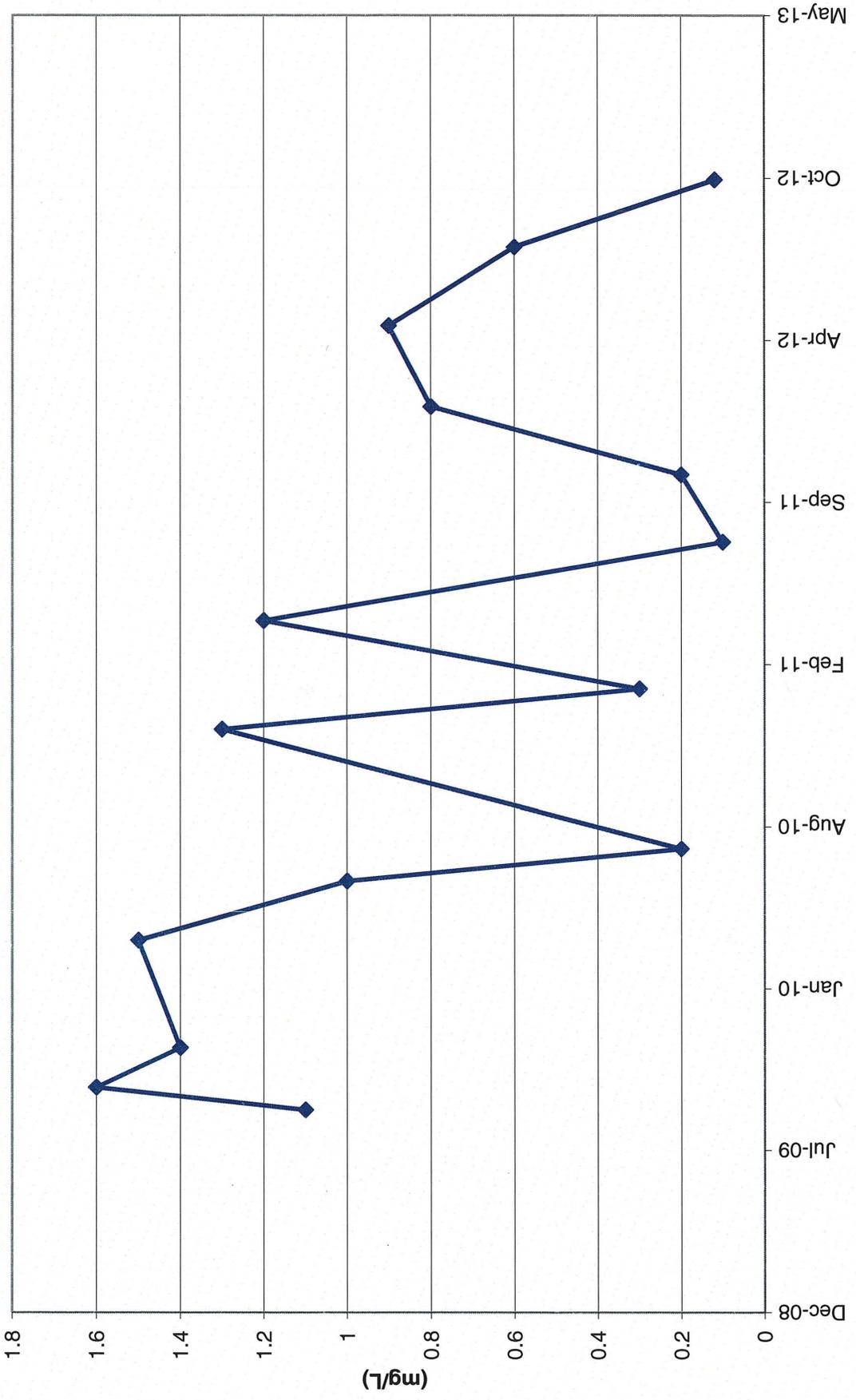
TWN-9 Nitrate Concentrations



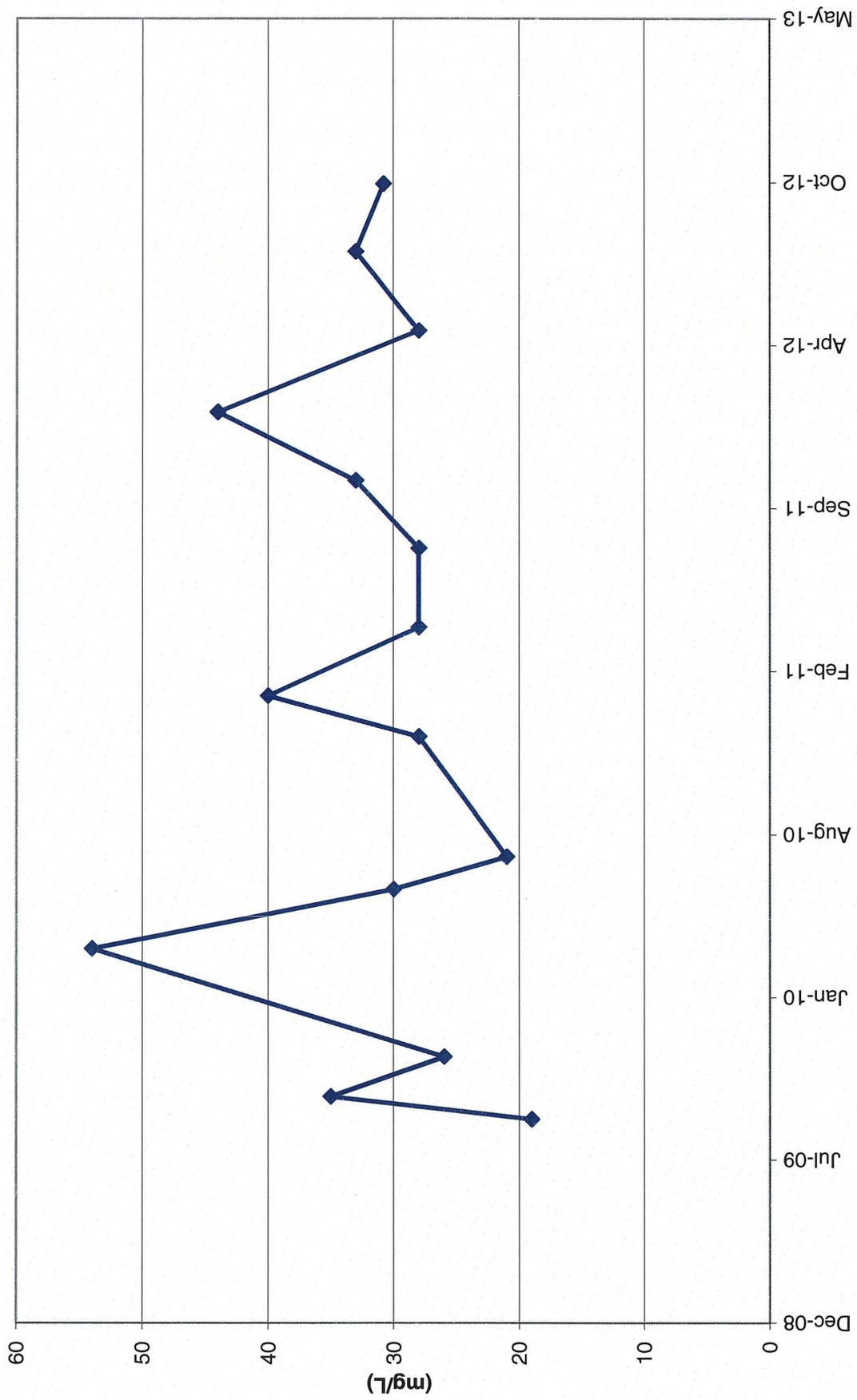
TWN-9 Chloride Concentrations



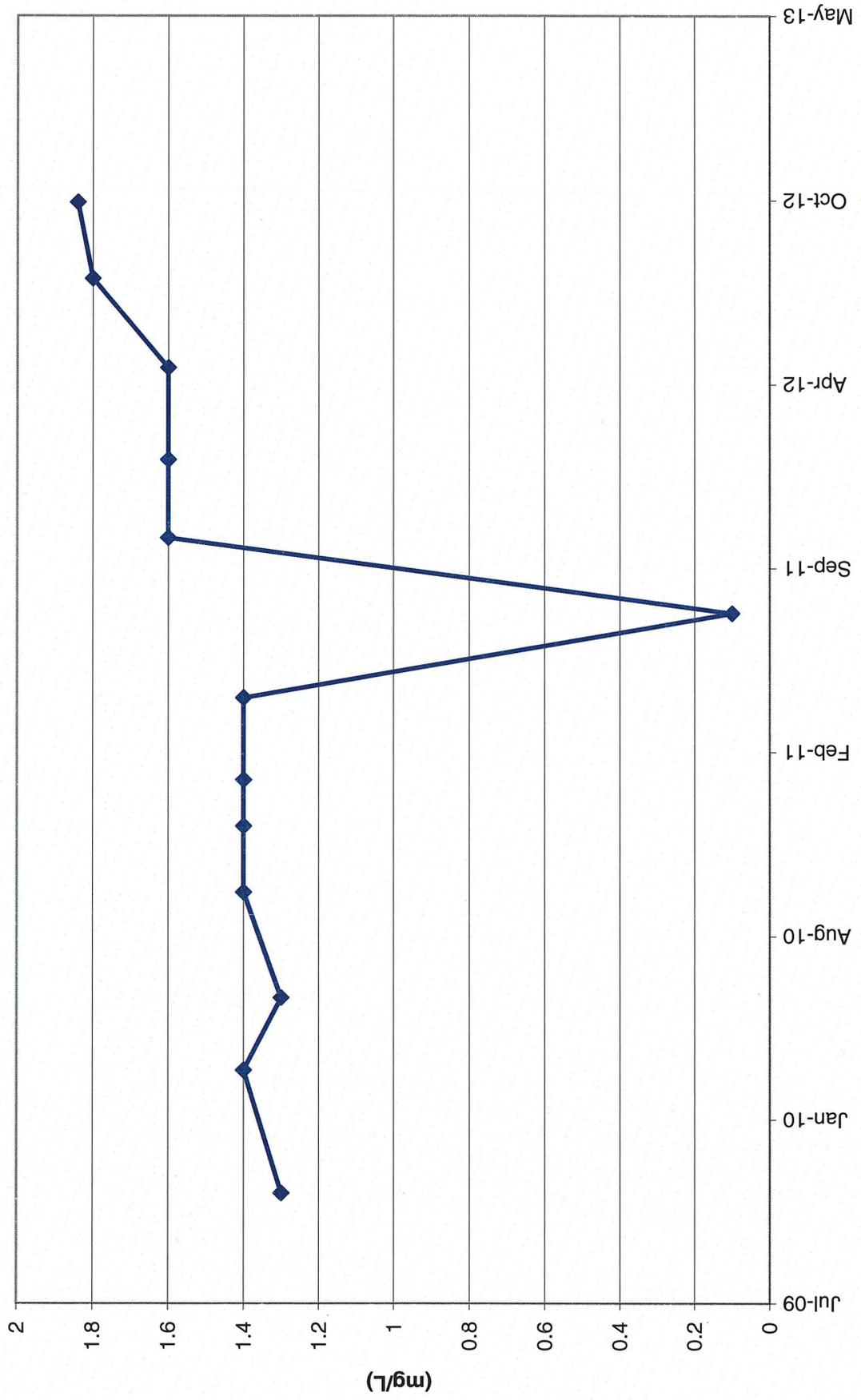
TWN-10 Nitrate Concentrations



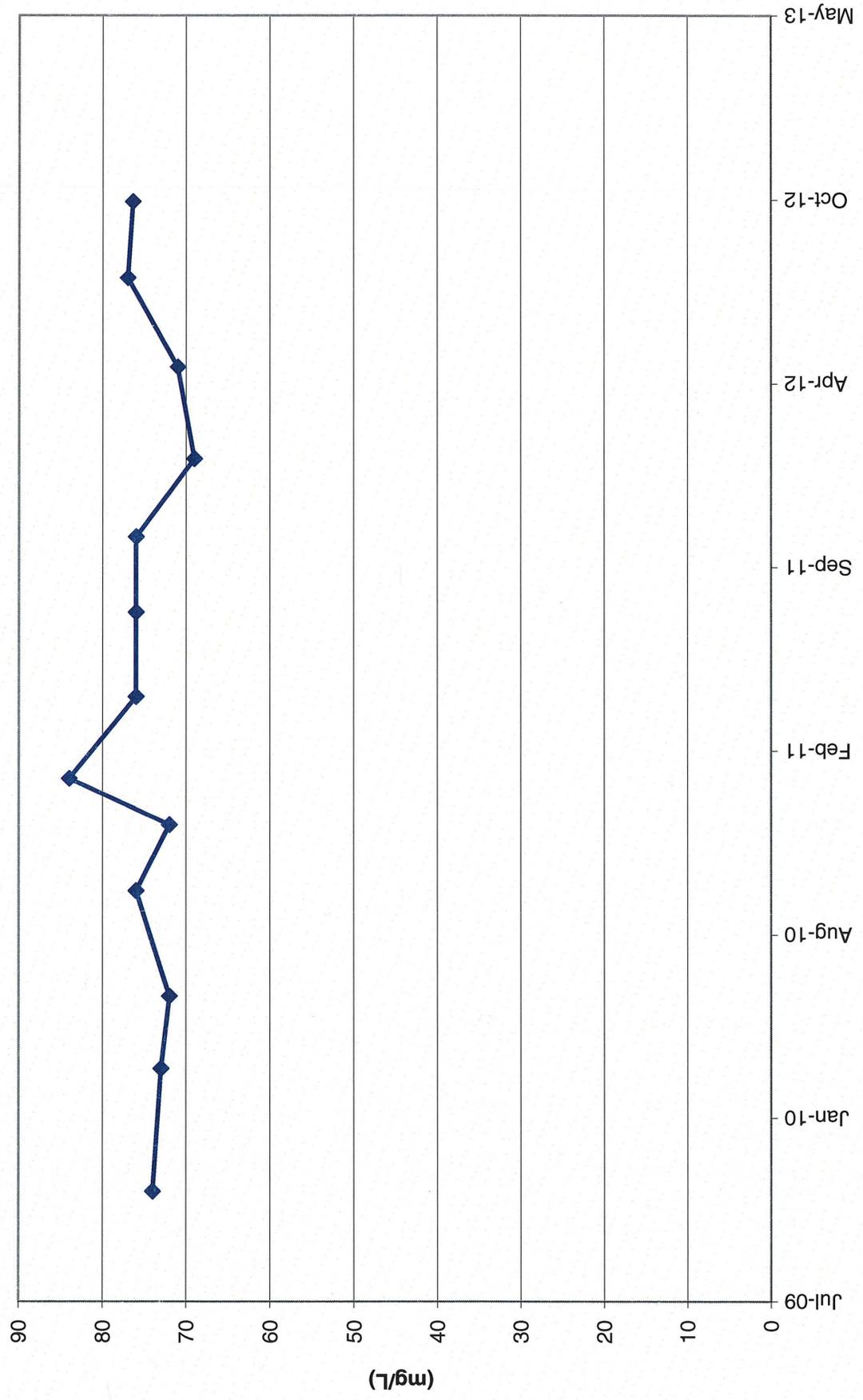
TWN-10 Chloride Concentrations



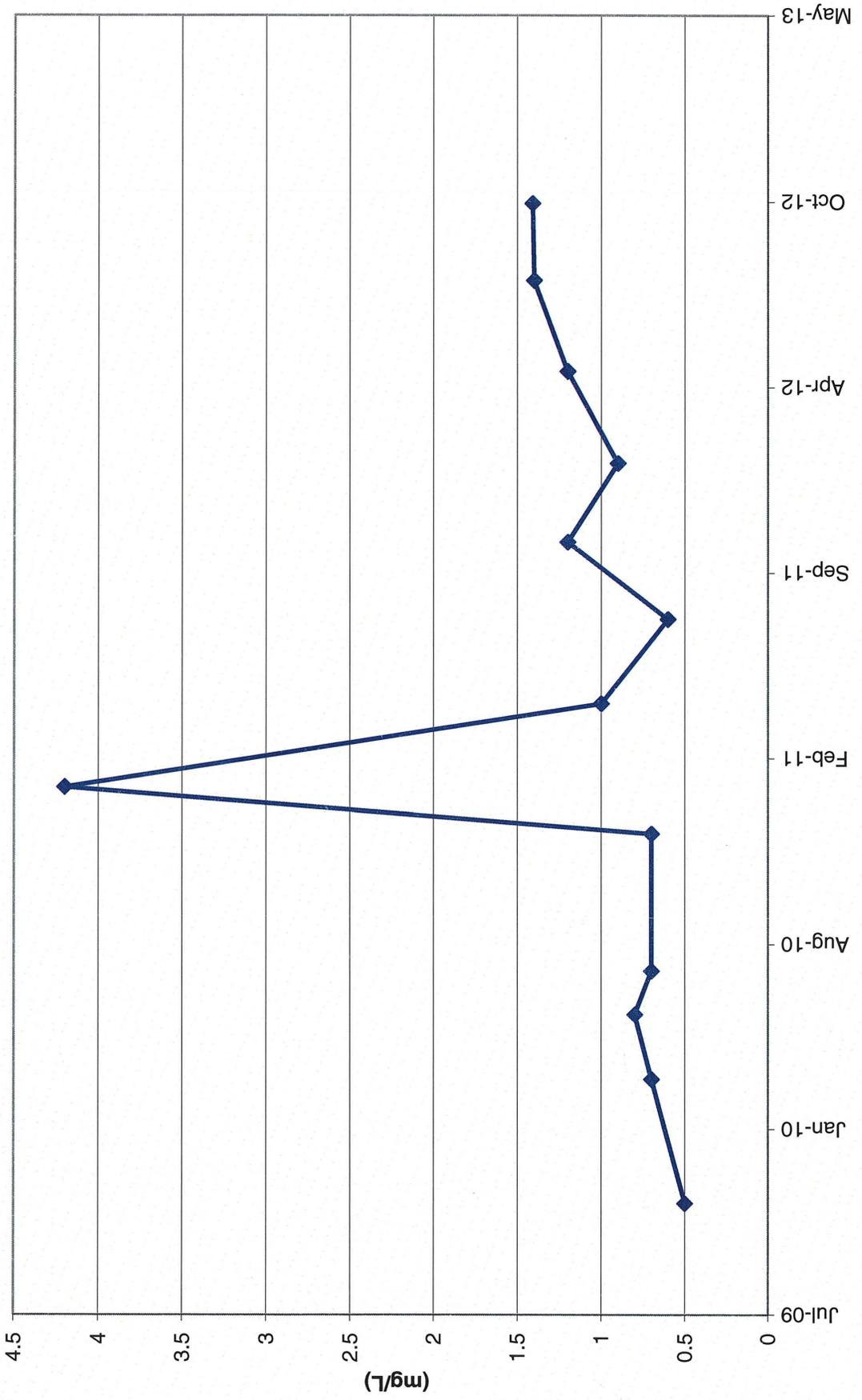
TWN-11 Nitrate Concentrations



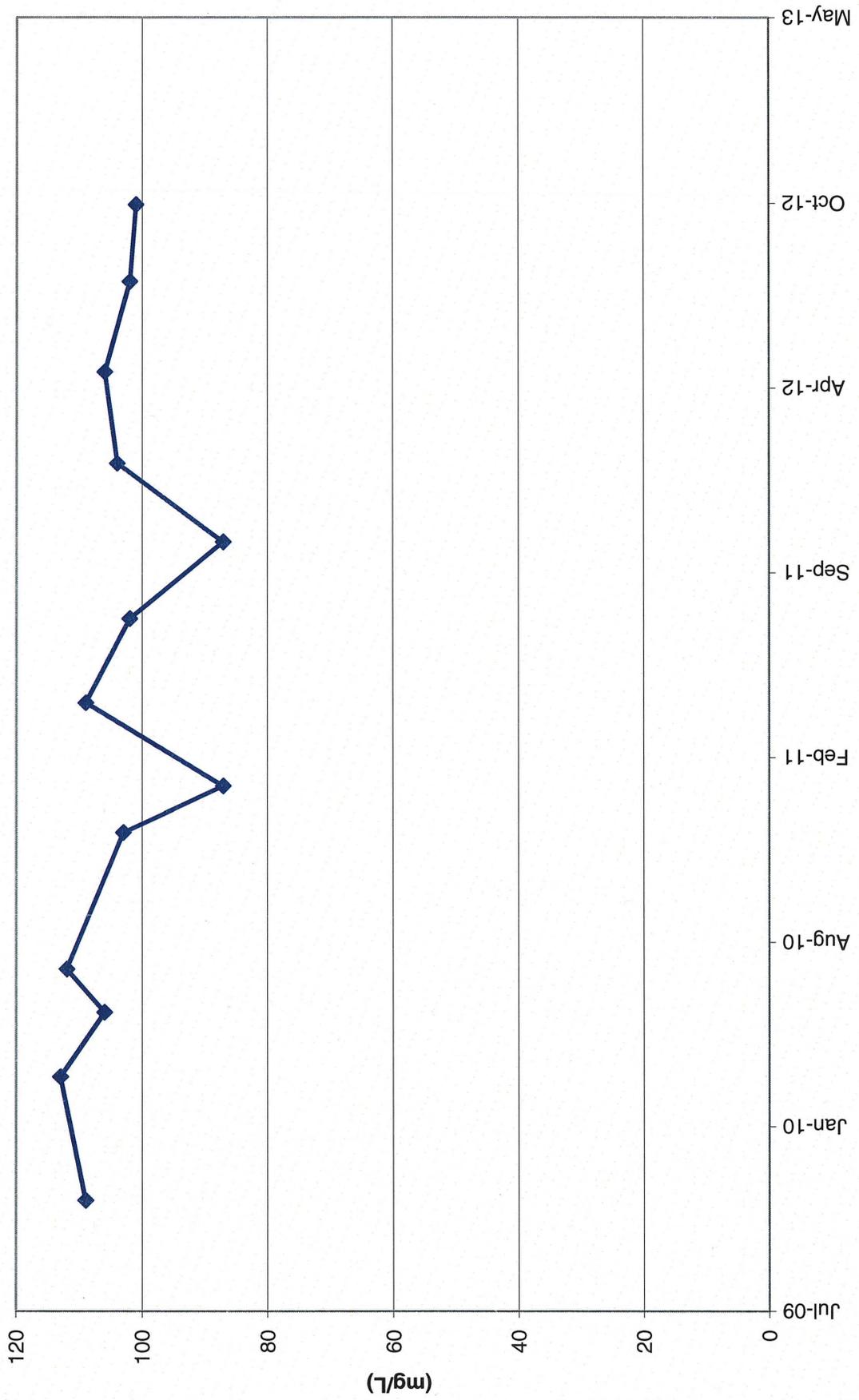
TWN-11 Chloride Concentrations



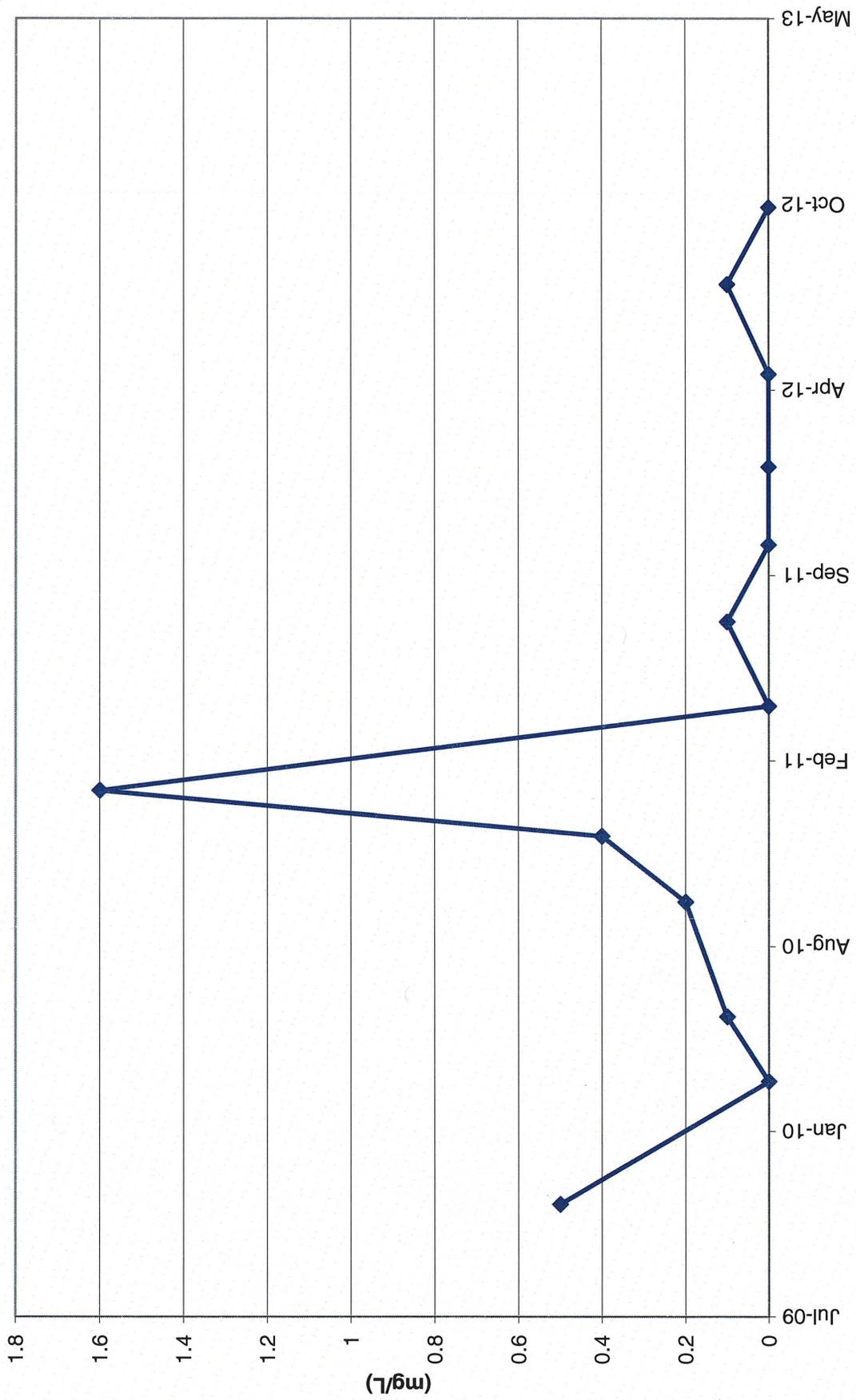
TWN-12 Nitrate Concentrations



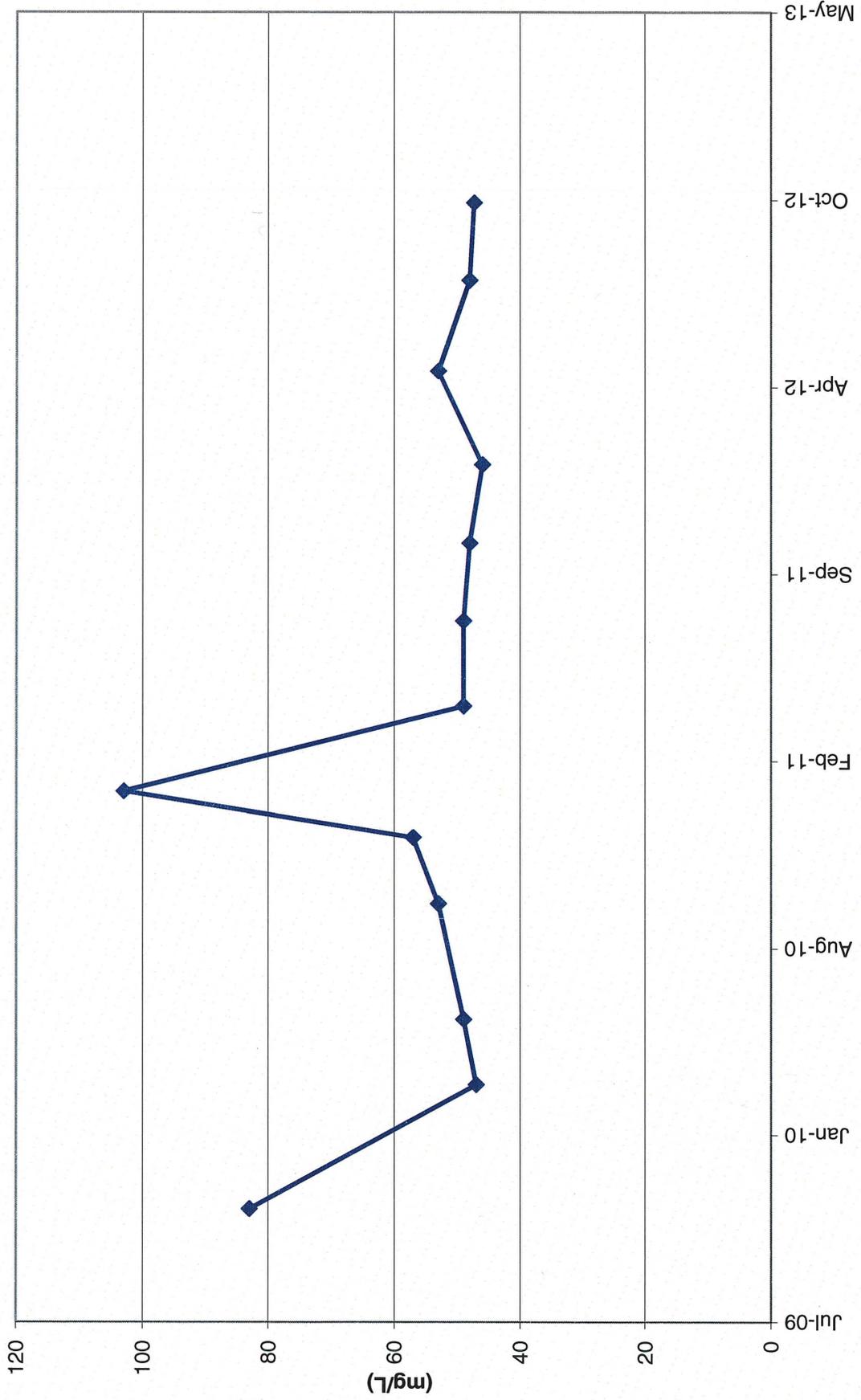
TWN-12 Chloride Concentrations



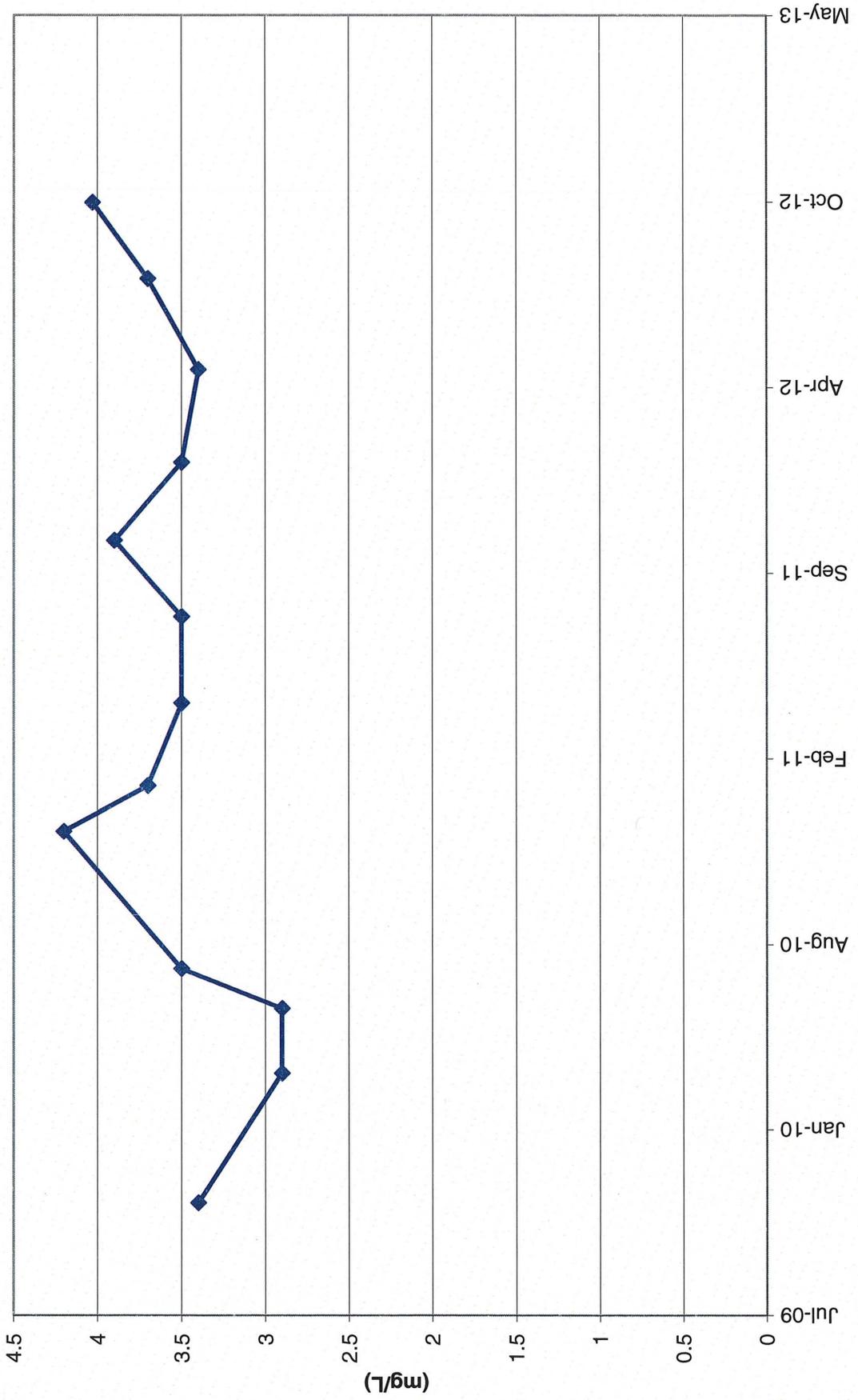
TWN-13 Nitrate Concentrations



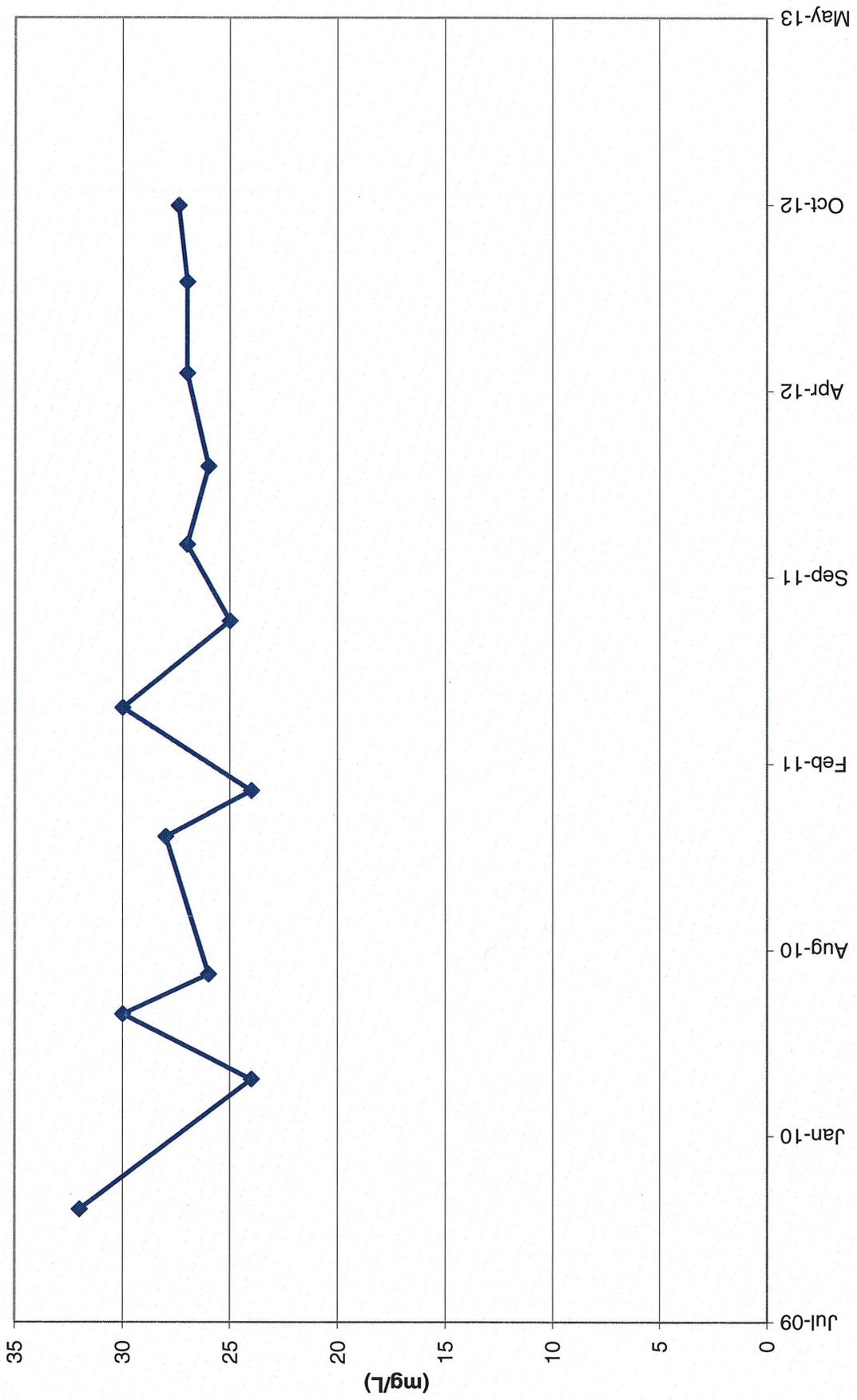
TWN-13 Chloride Concentrations



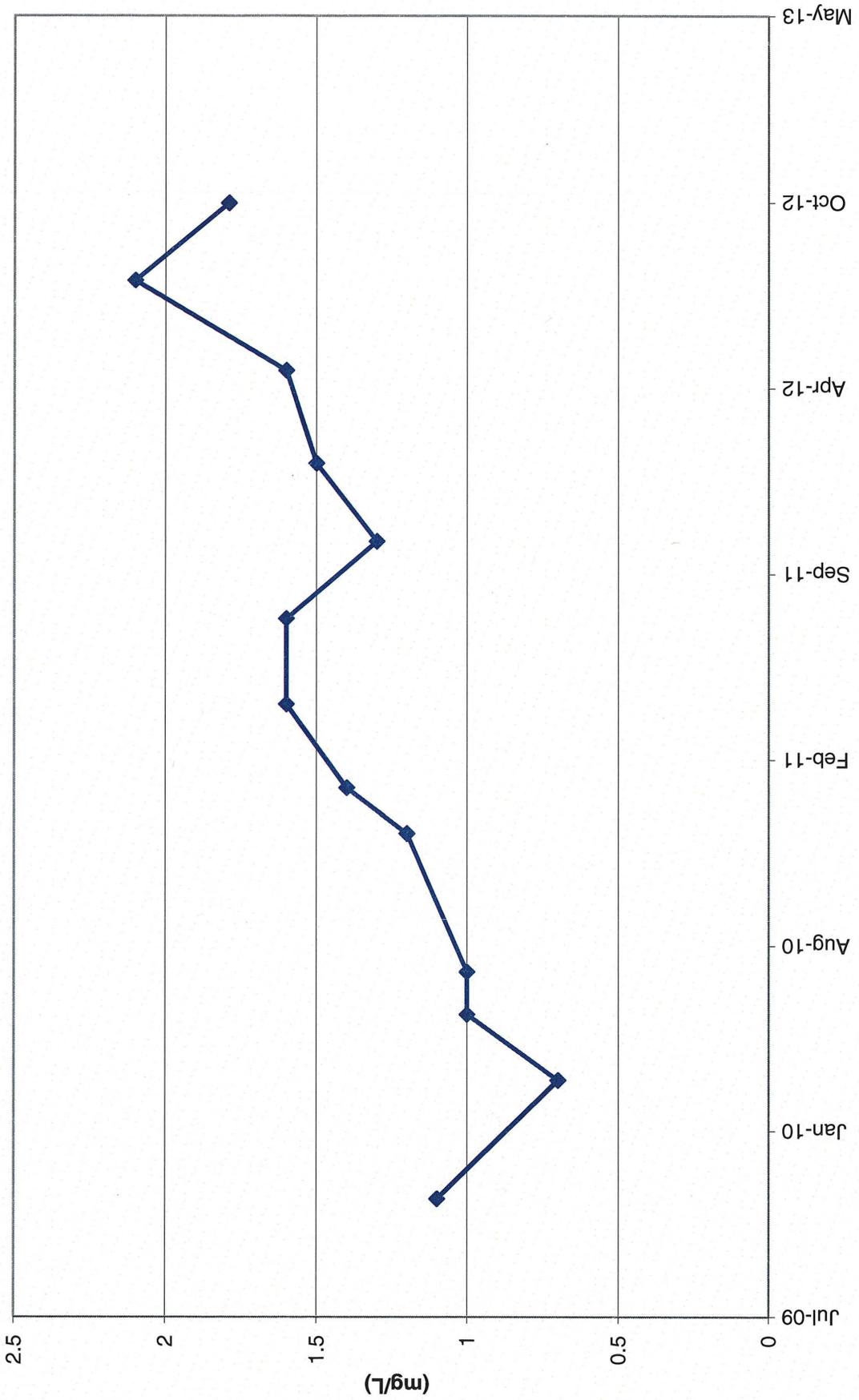
TWN-14 Nitrate Concentrations



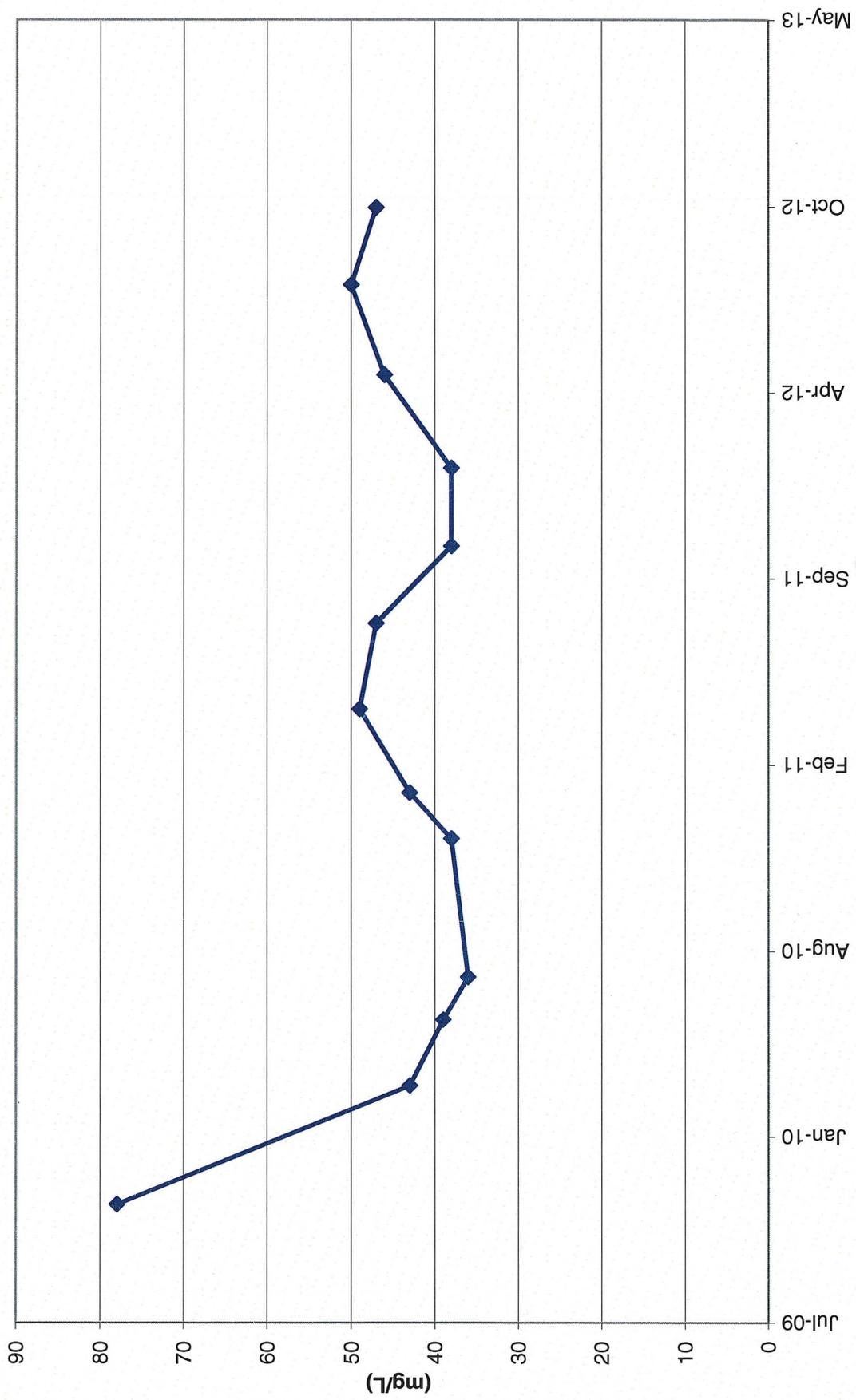
TWN-14 Chloride Concentrations



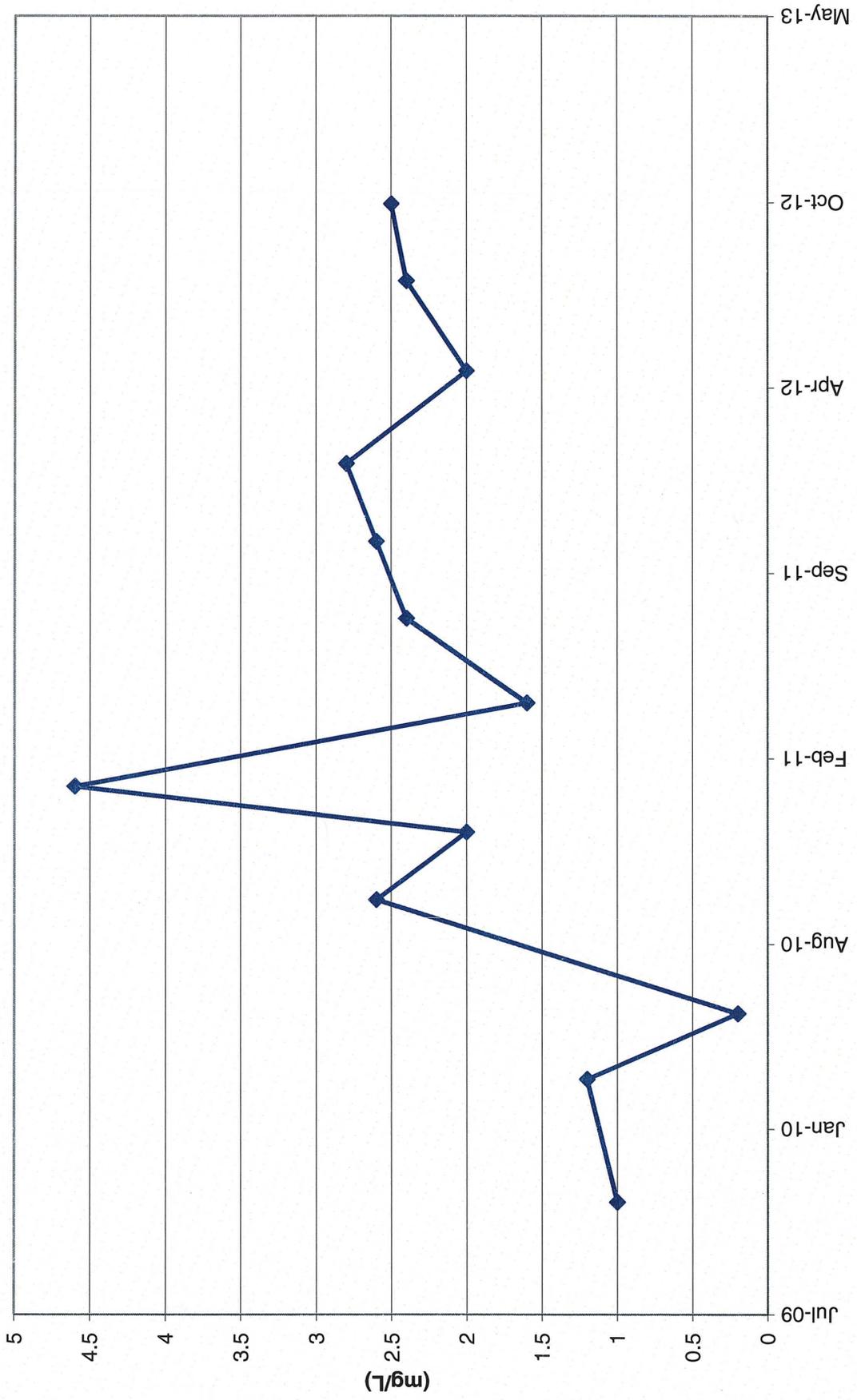
TWN-15 Nitrate Concentrations



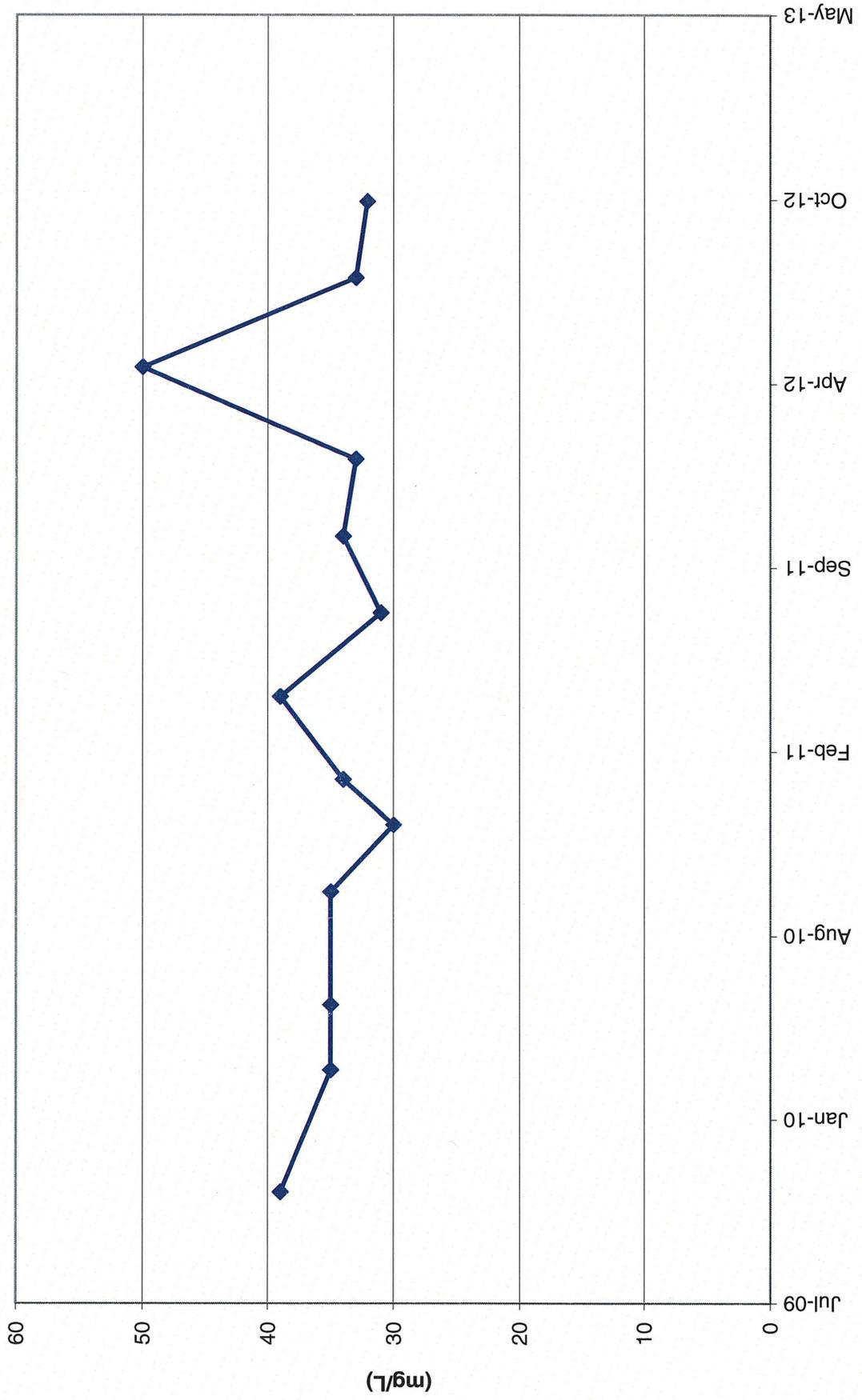
TWN-15 Chloride Concentrations



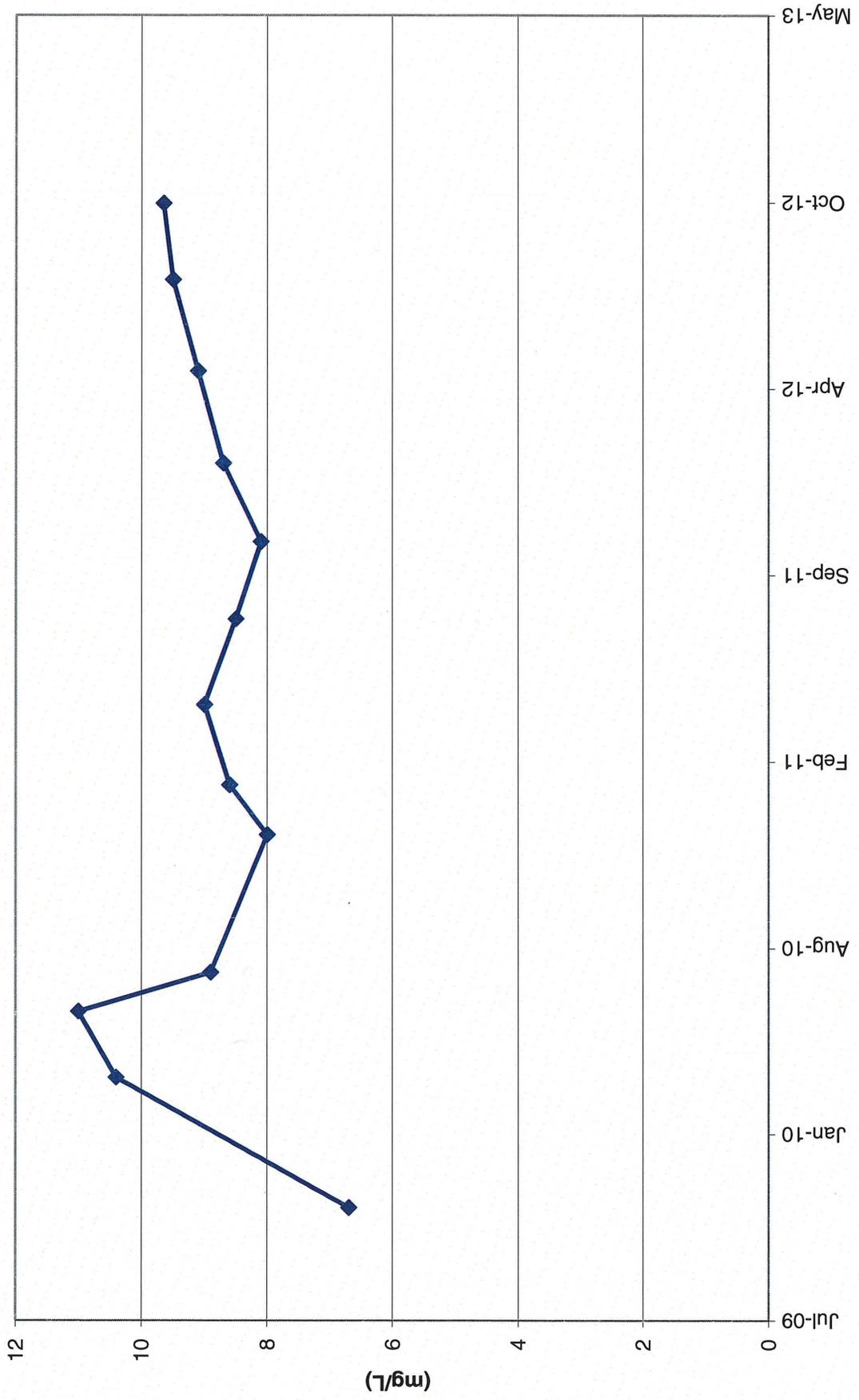
TWN-16 Nitrate Concentrations



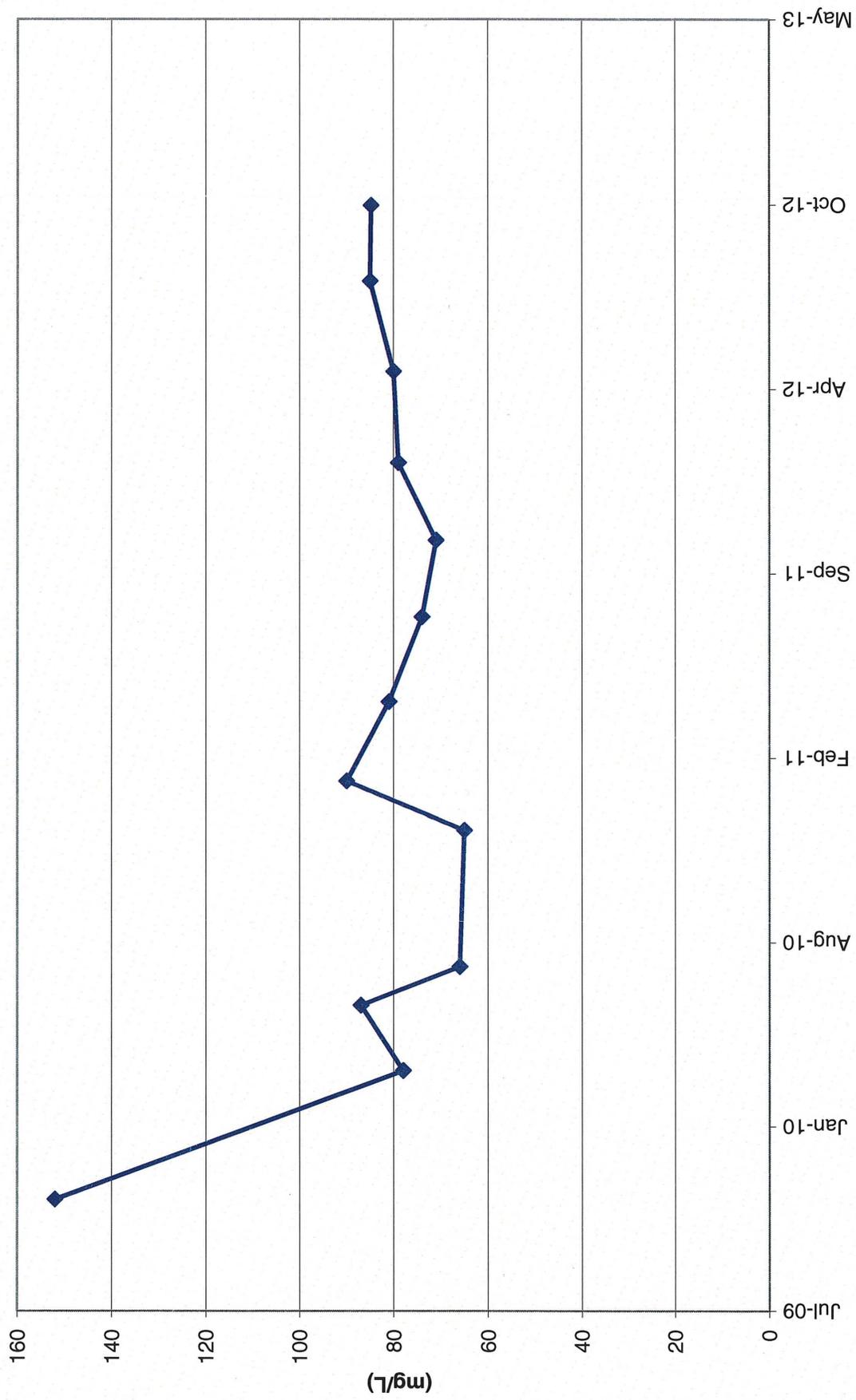
TWN-16 Chloride Concentrations



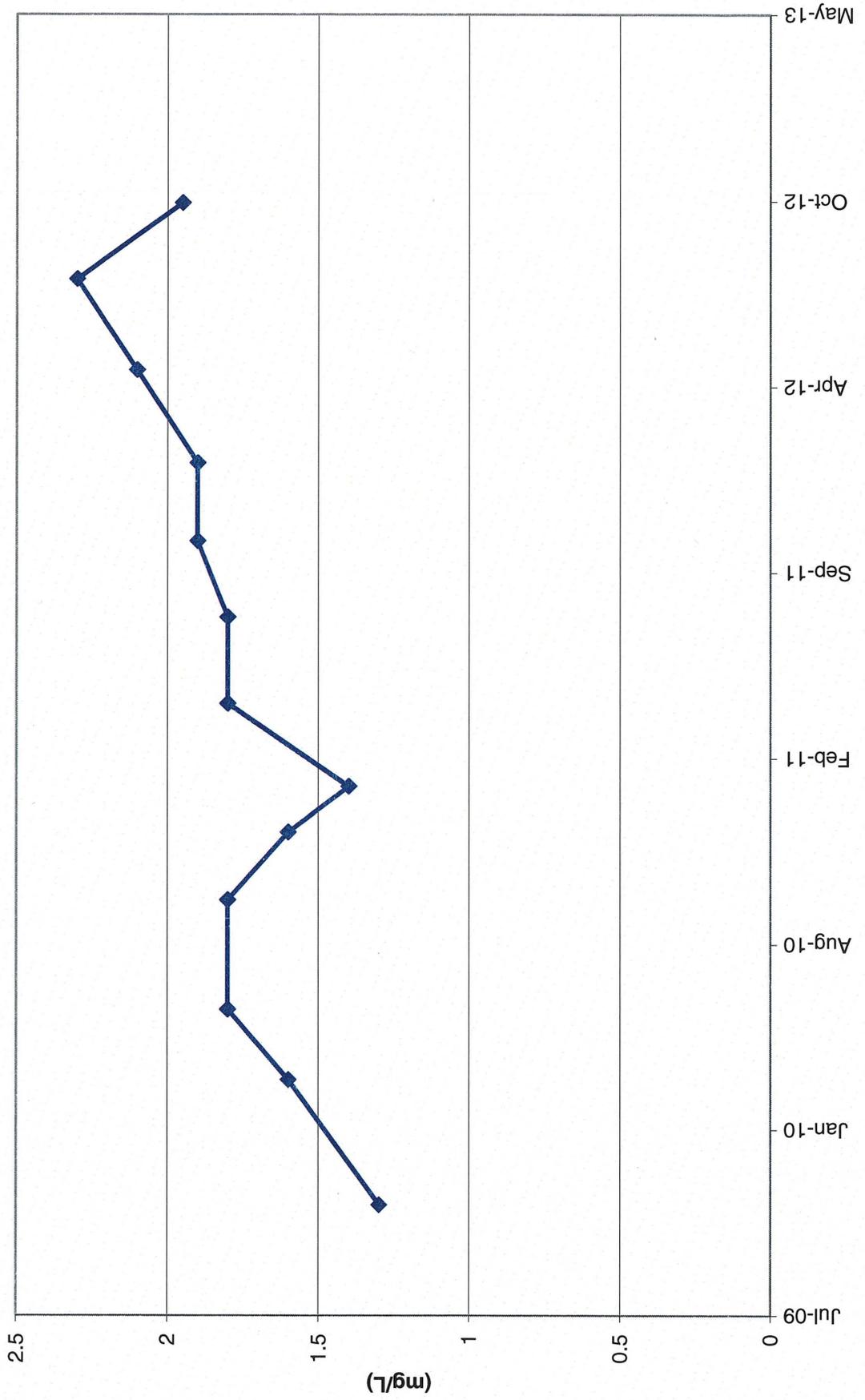
TWN-17 Nitrate Concentrations



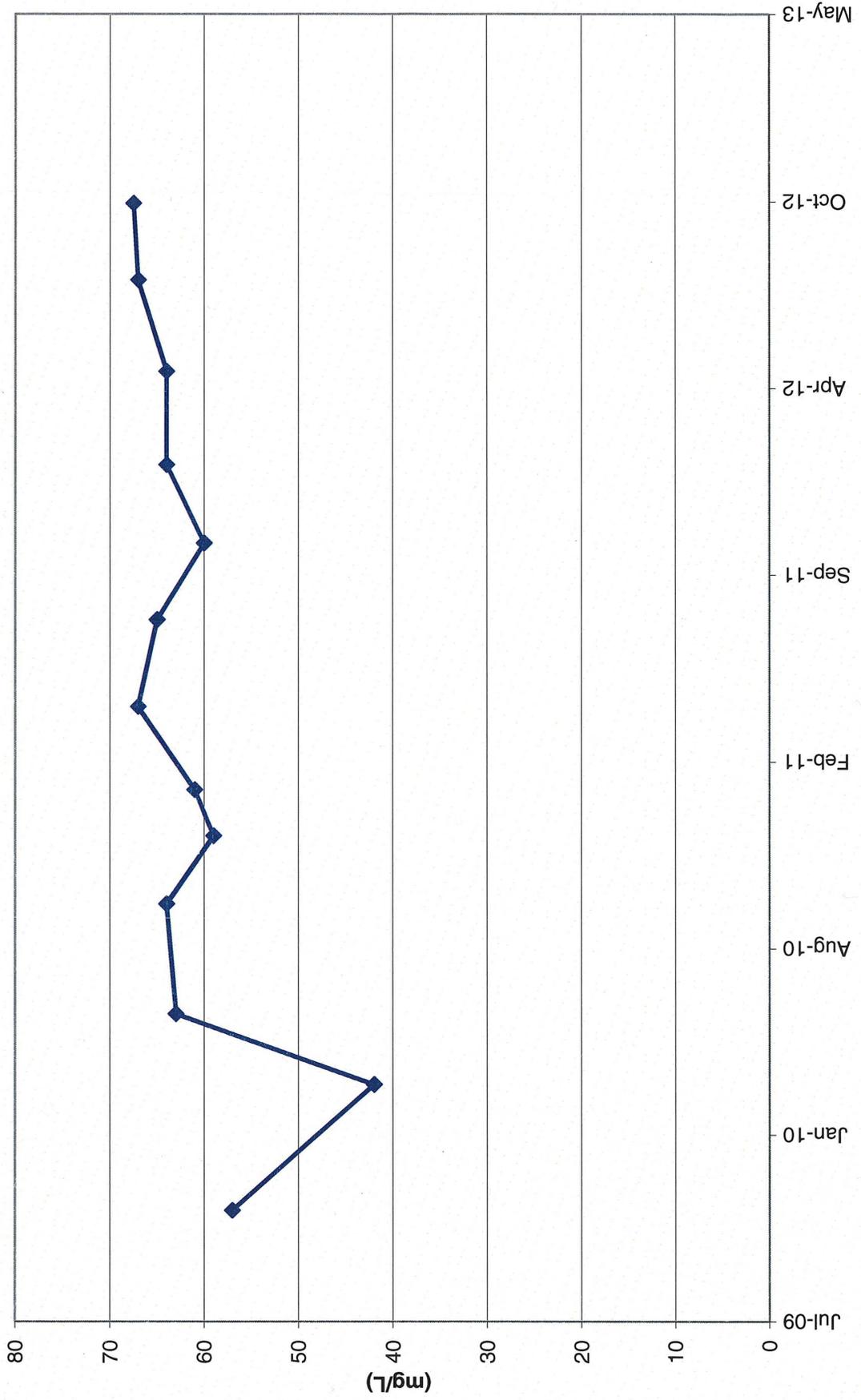
TWN-17 Chloride Concentrations



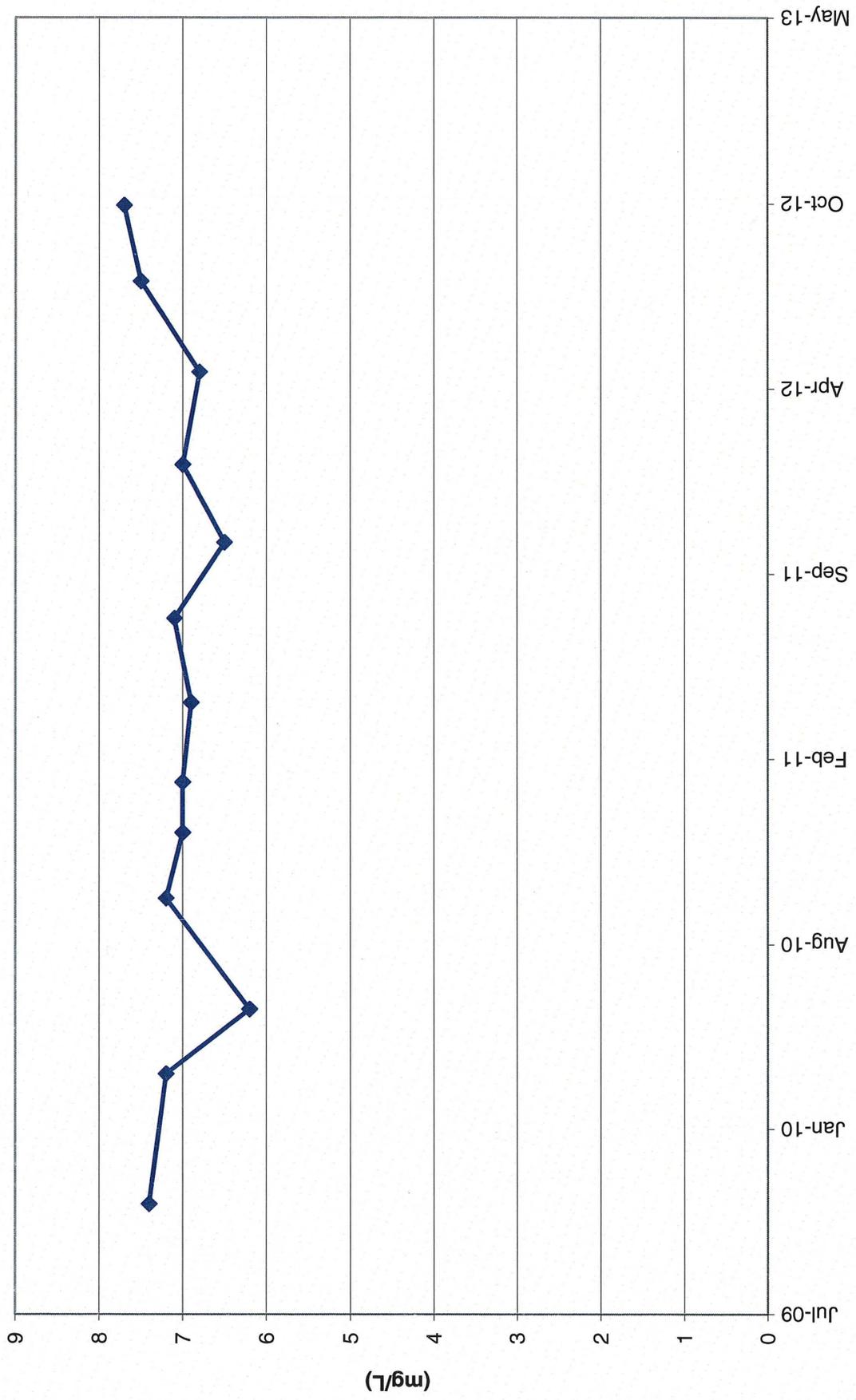
TWN-18 Nitrate Concentrations



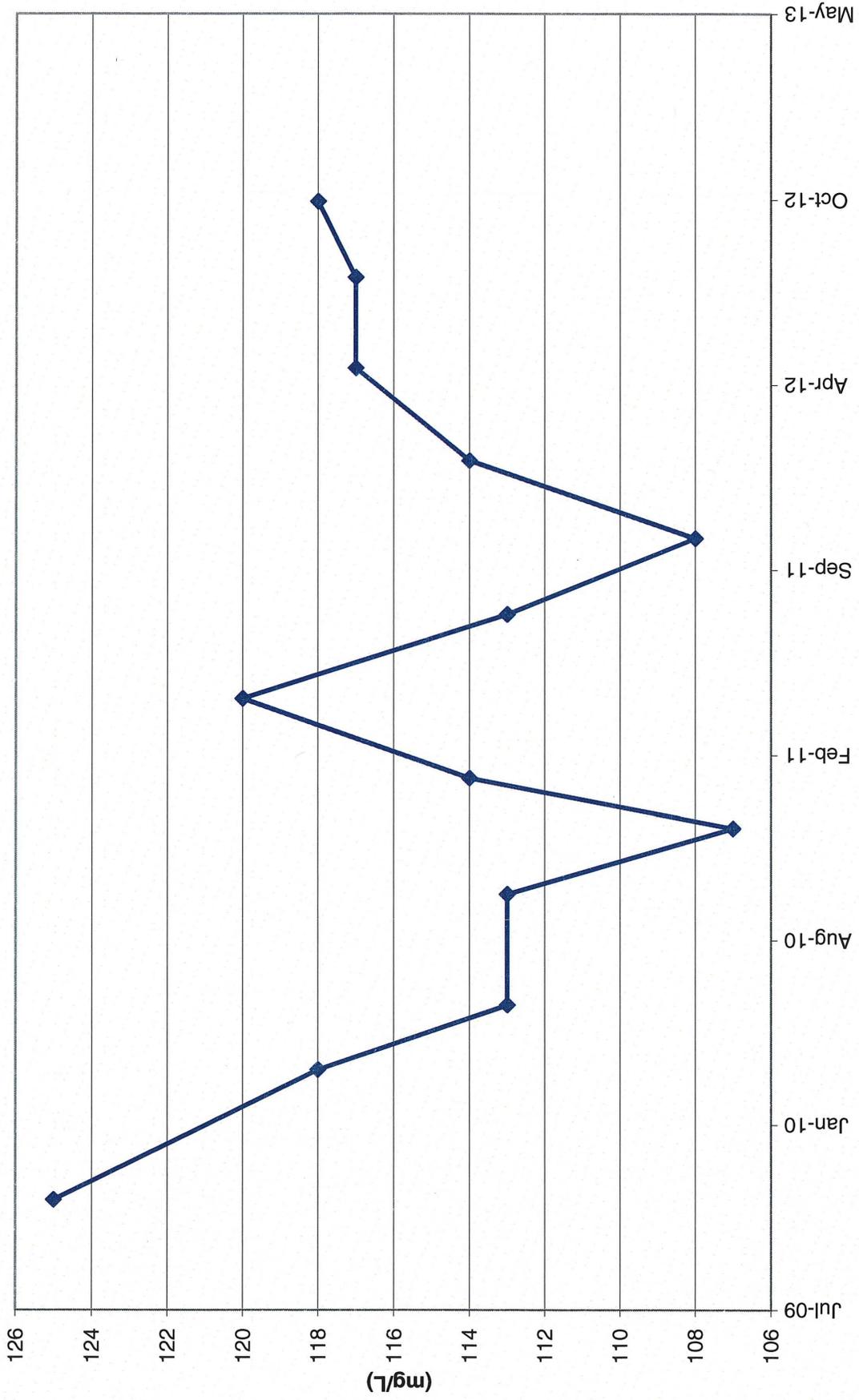
TWN-18 Chloride Concentrations



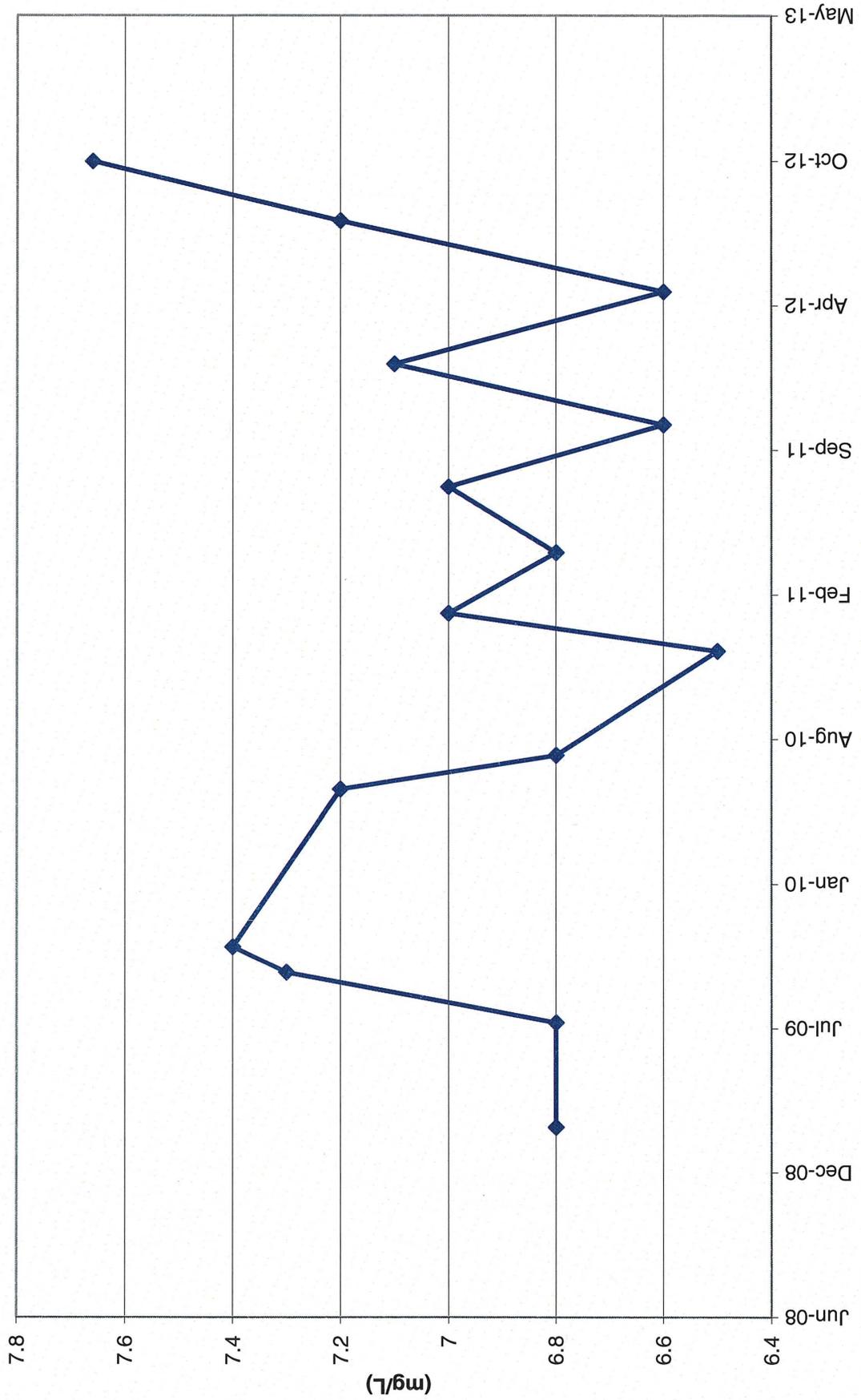
TWN-19 Nitrate Concentrations



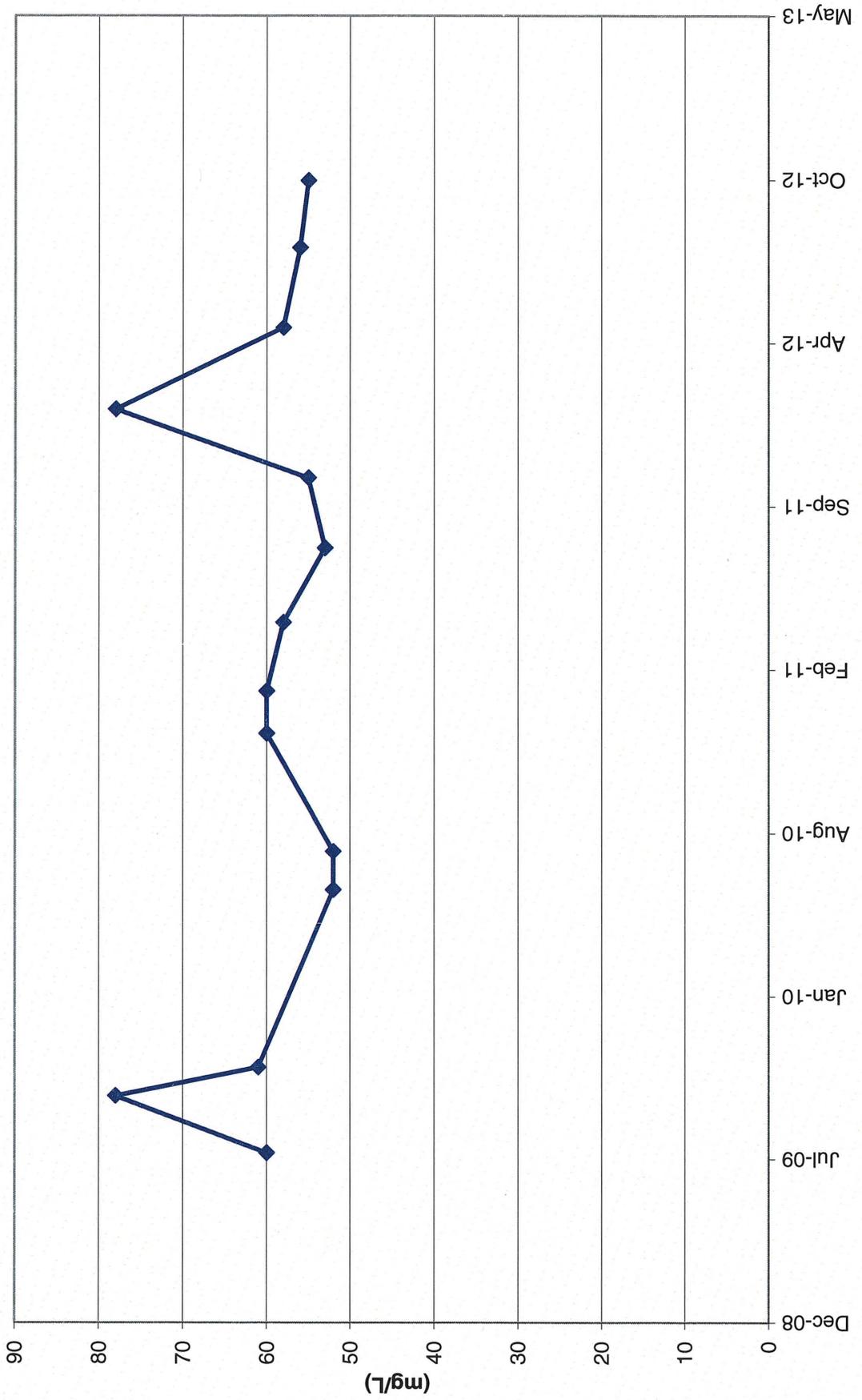
TWN-19 Chloride Concentrations



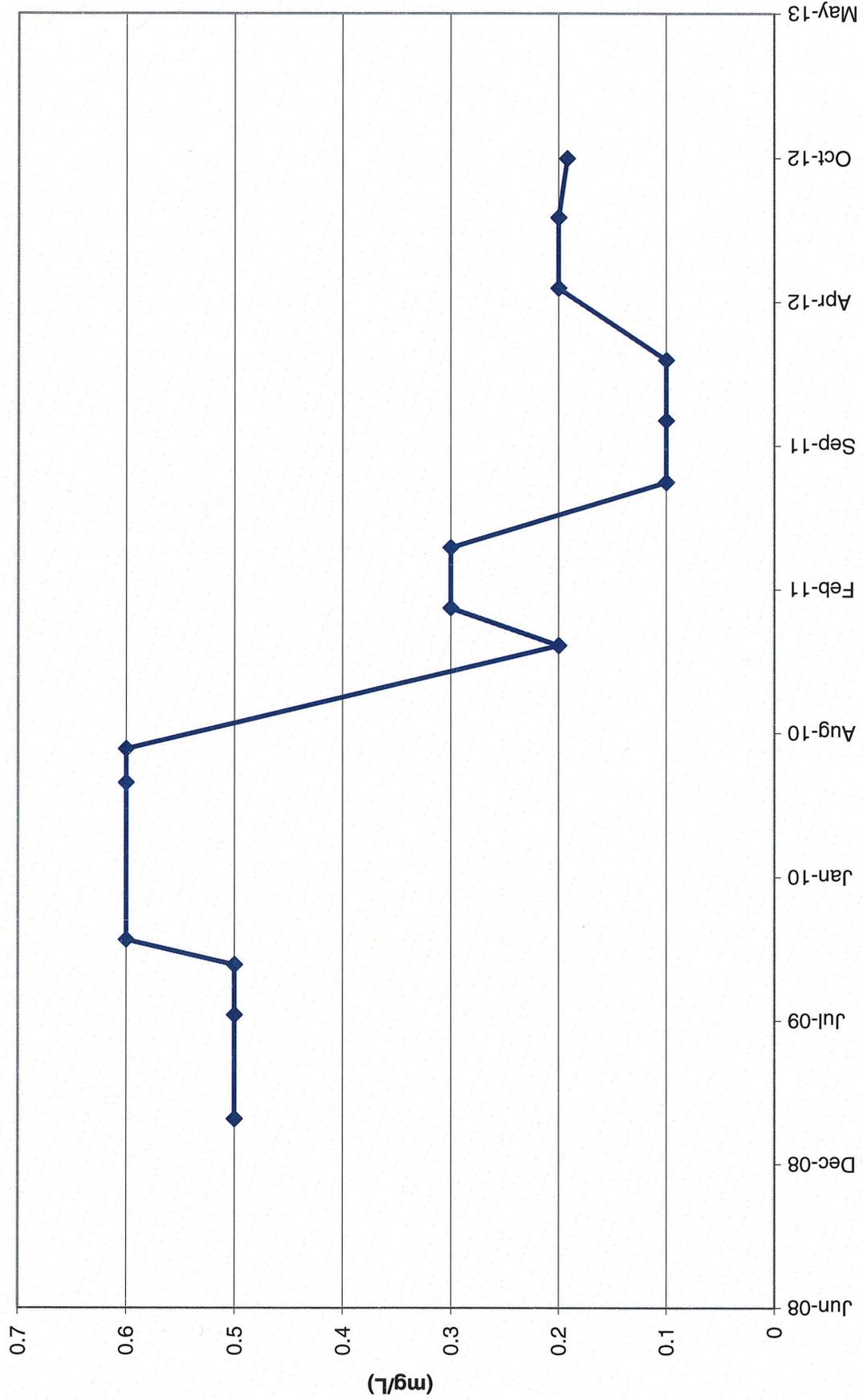
Piezometer 1 Nitrate Concentrations



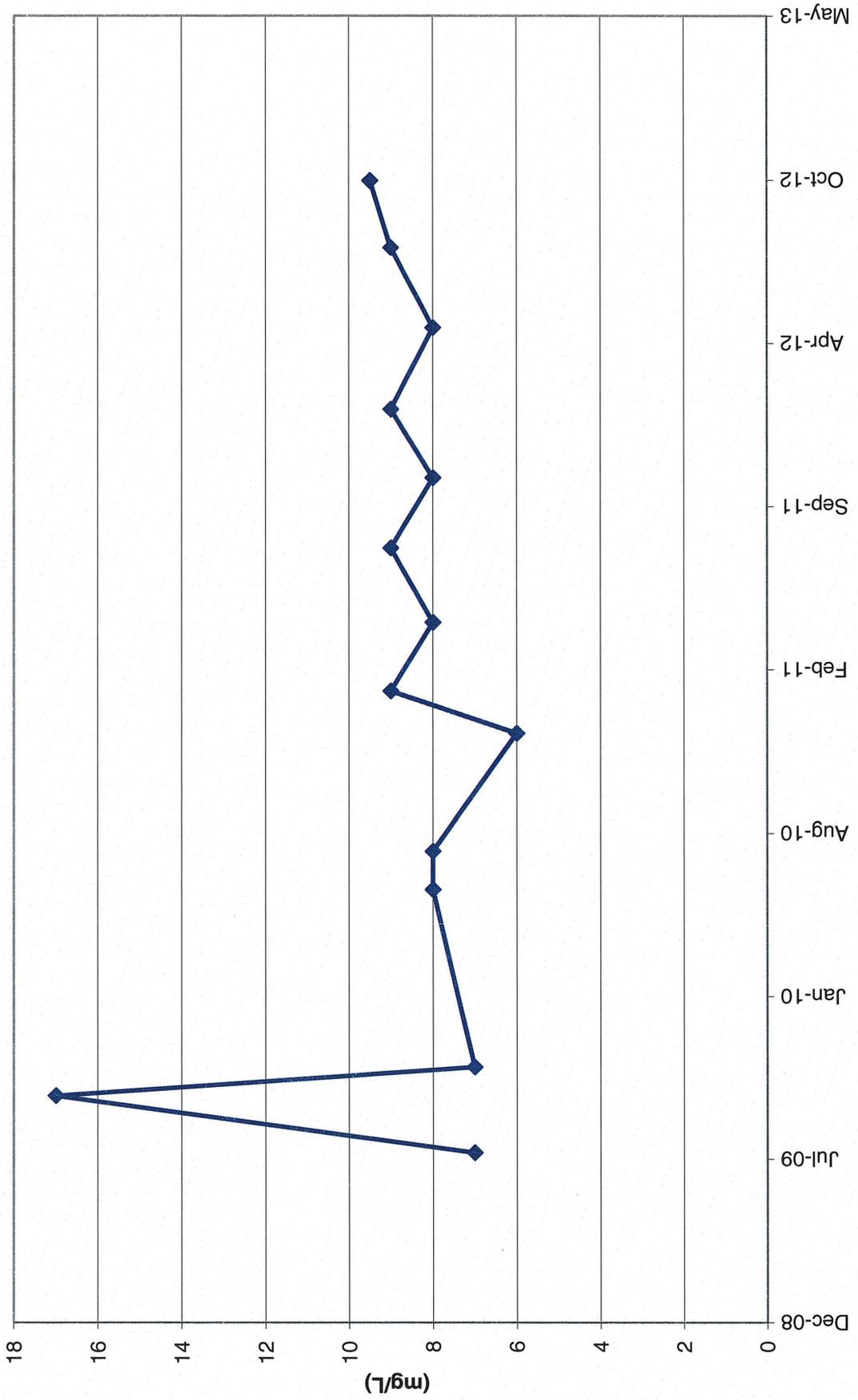
Piezometer 1 Chloride Concentrations



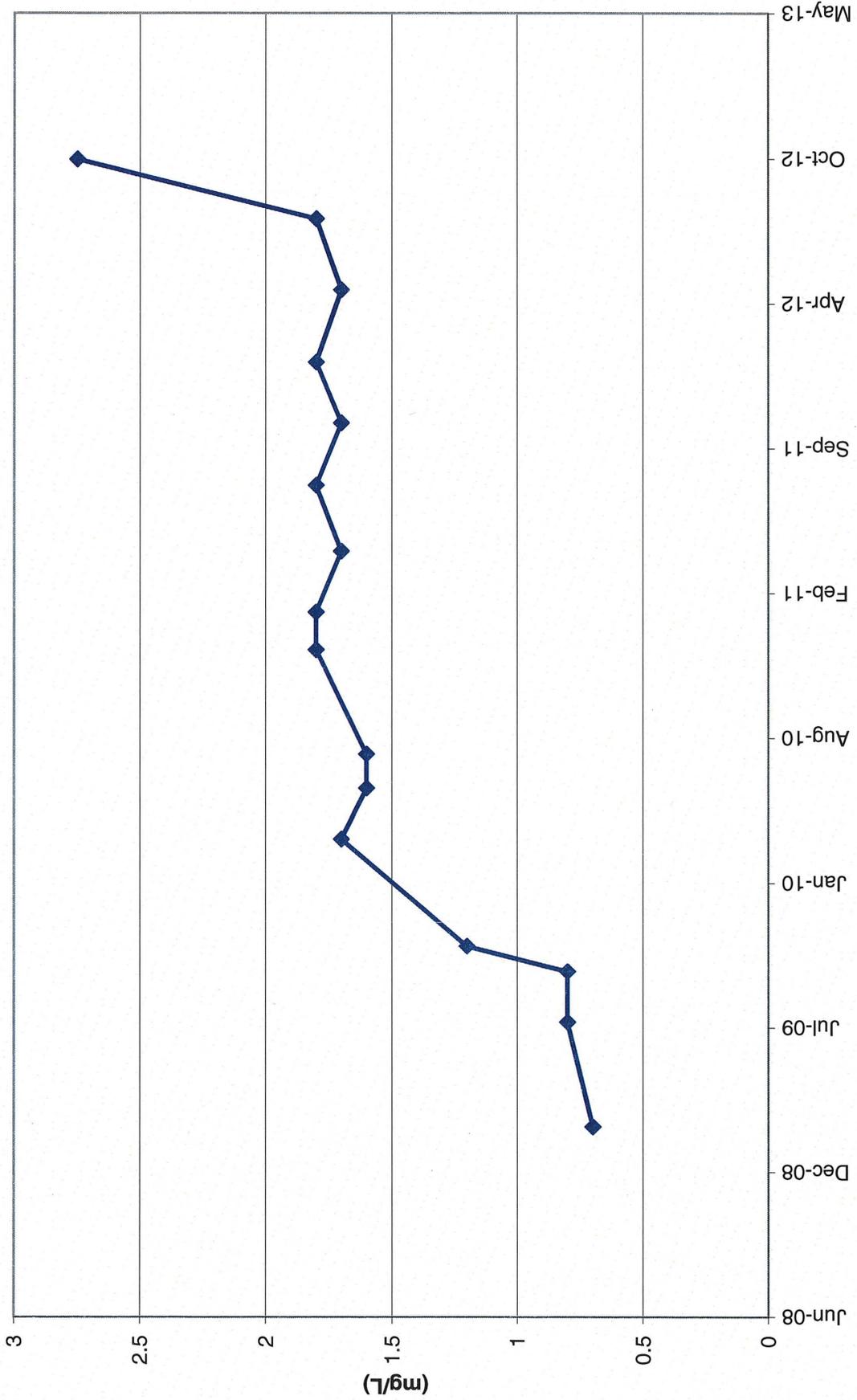
Piezometer 2 Nitrate Concentrations



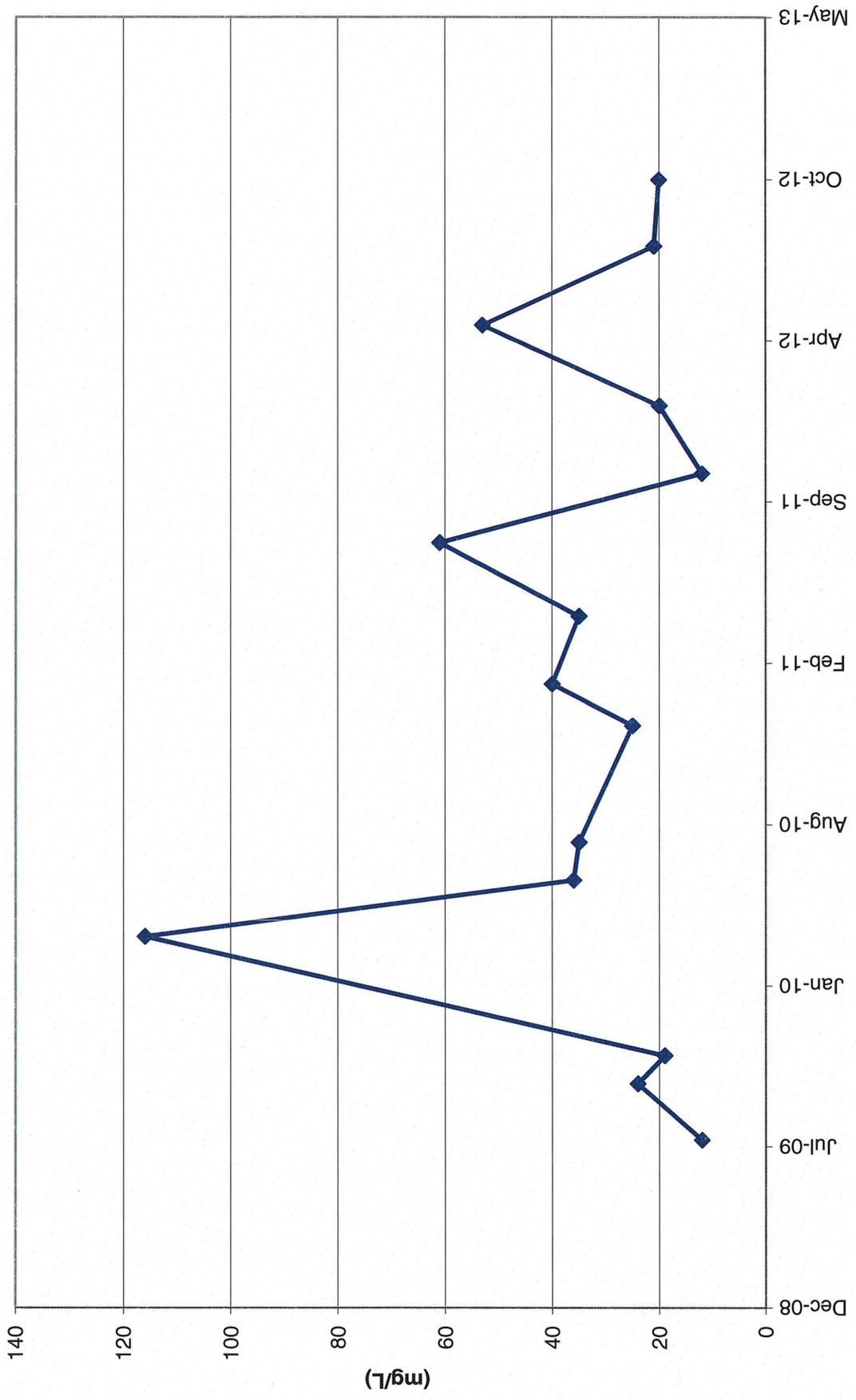
Piezometer 2 Chloride Concentrations



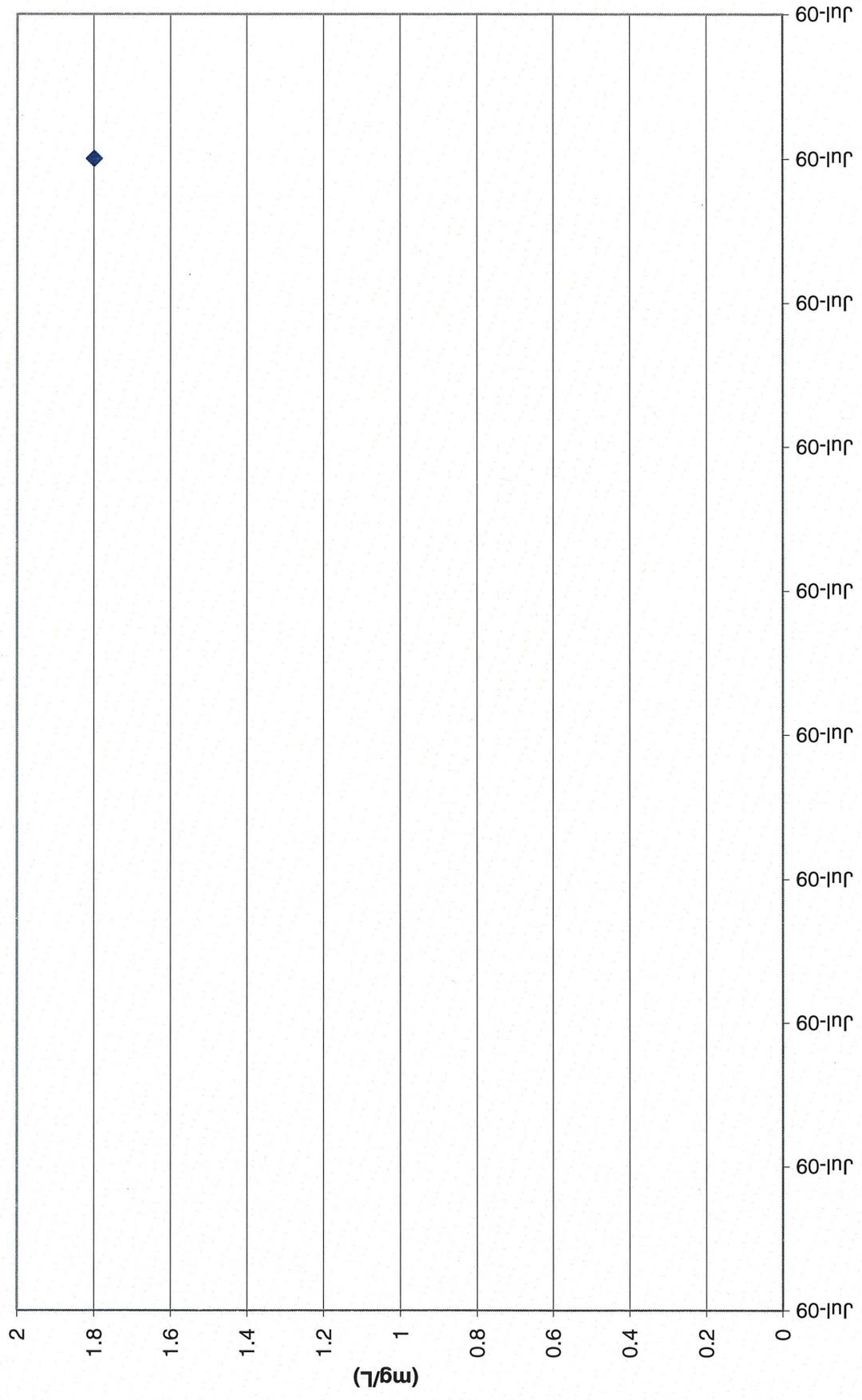
Piezometer 3 Nitrate Concentrations



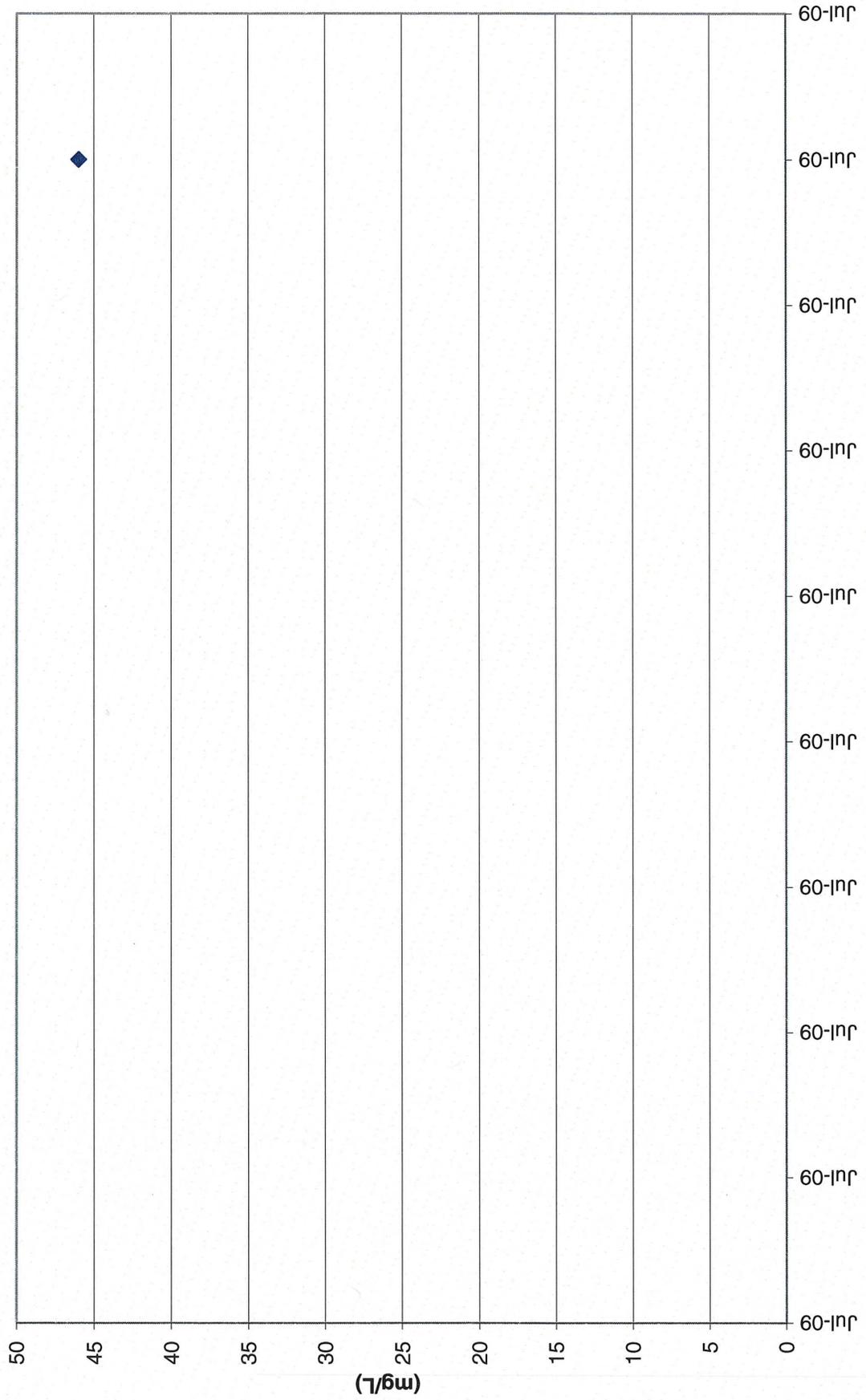
Piezometer 3 Chloride Concentrations



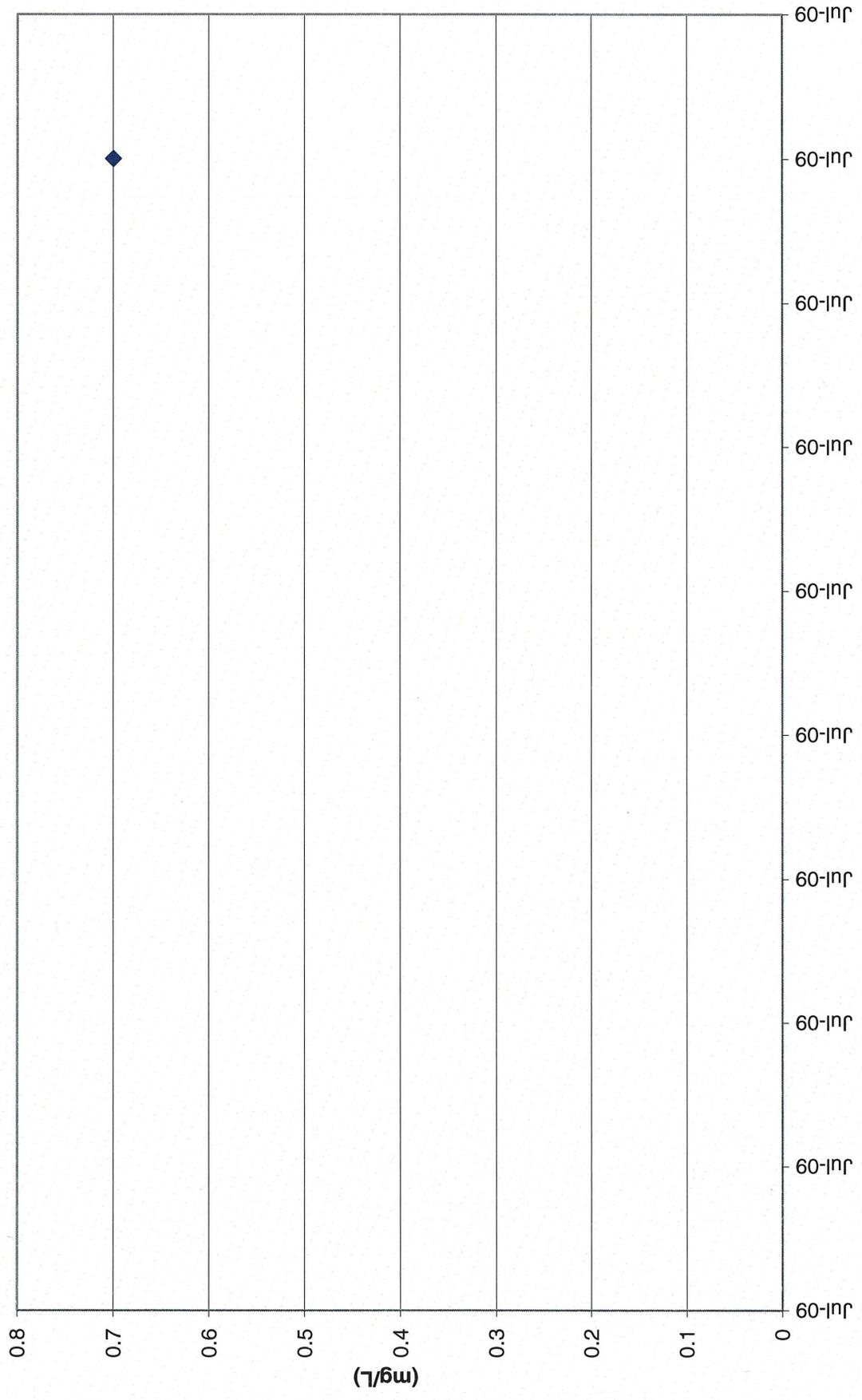
Piezometer 4 Nitrate Concentrations



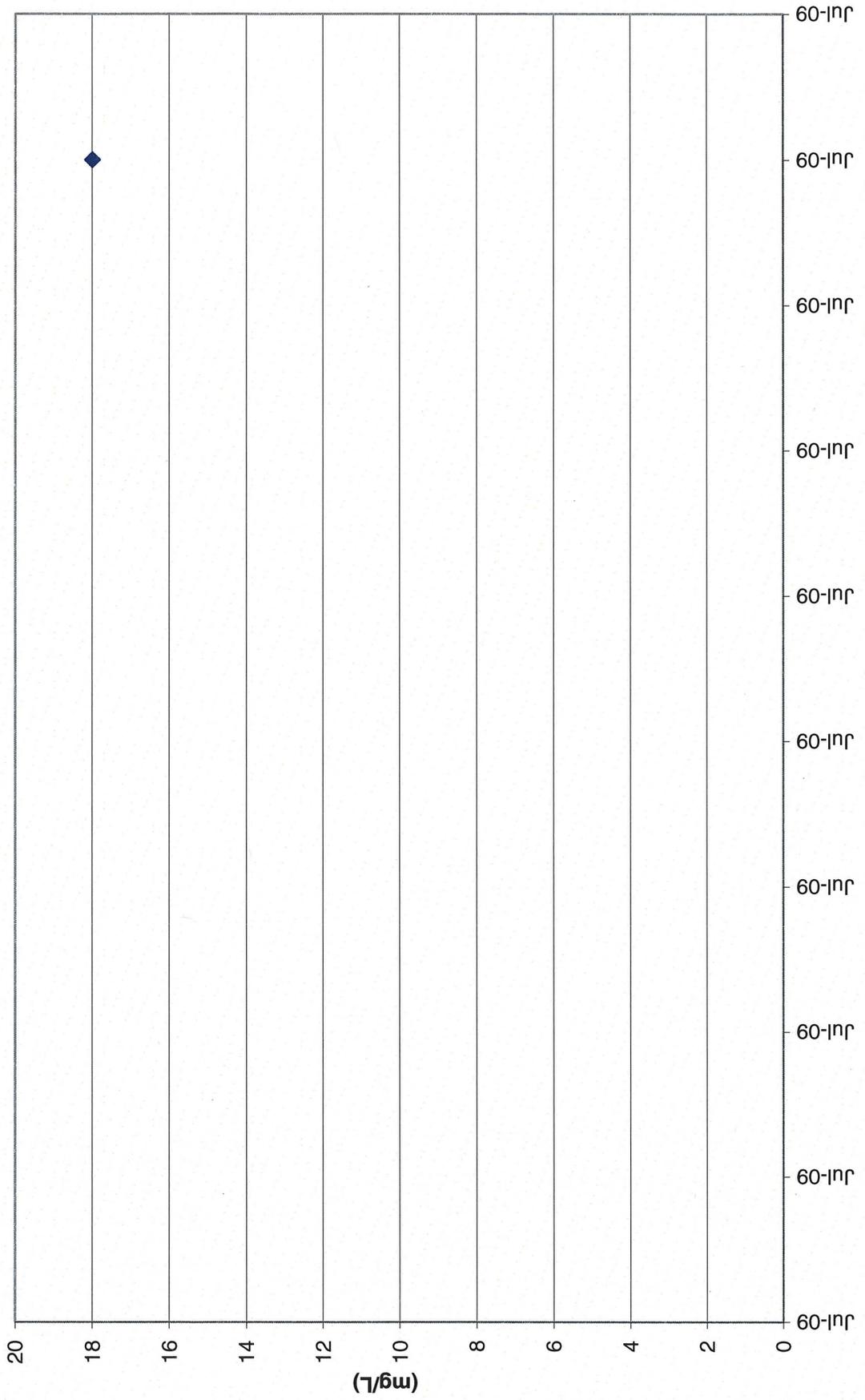
Piezometer 4 Chloride Concentrations



Piezometer 5 Nitrate Concentrations



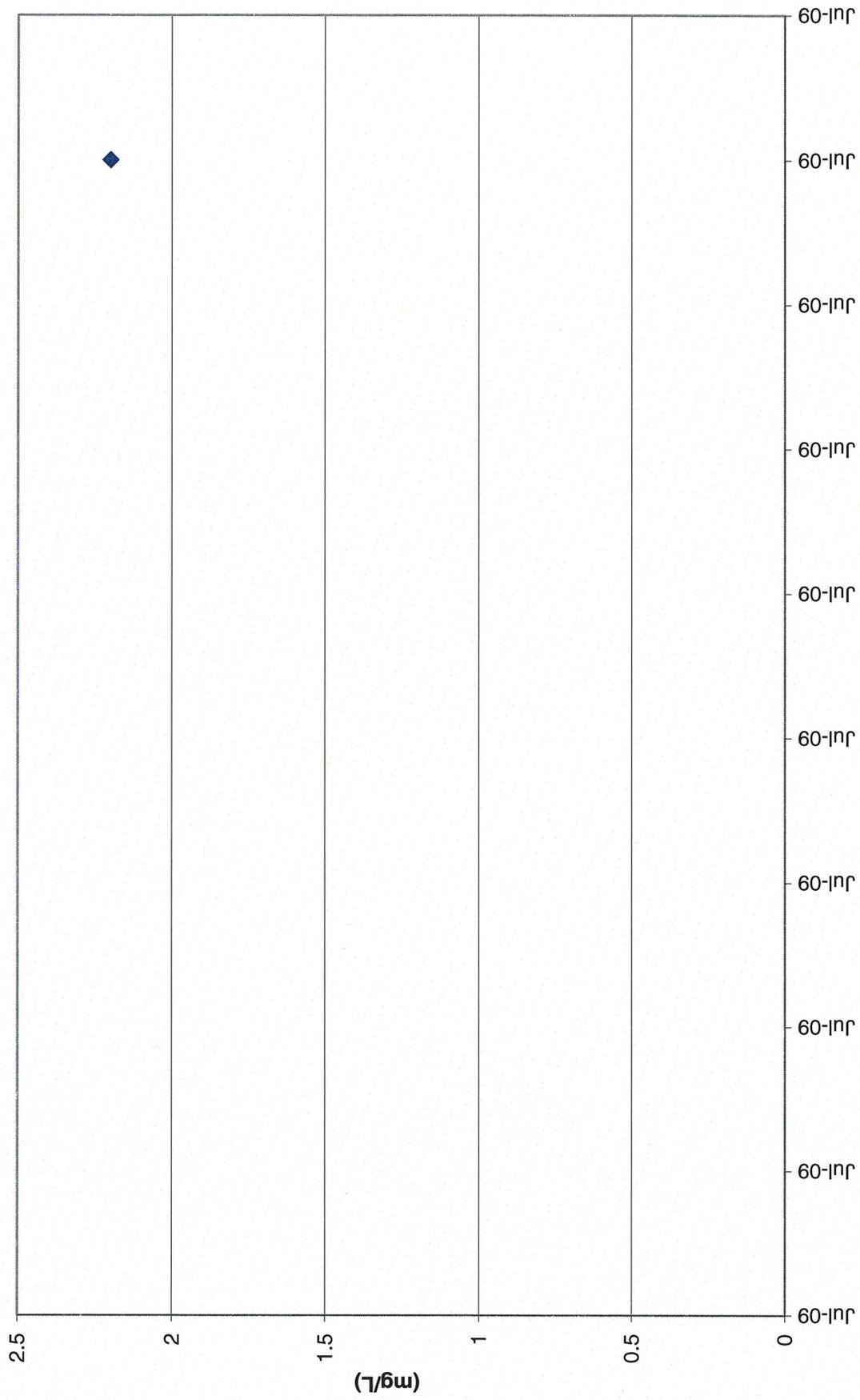
Piezometer 5 Chloride Concentrations



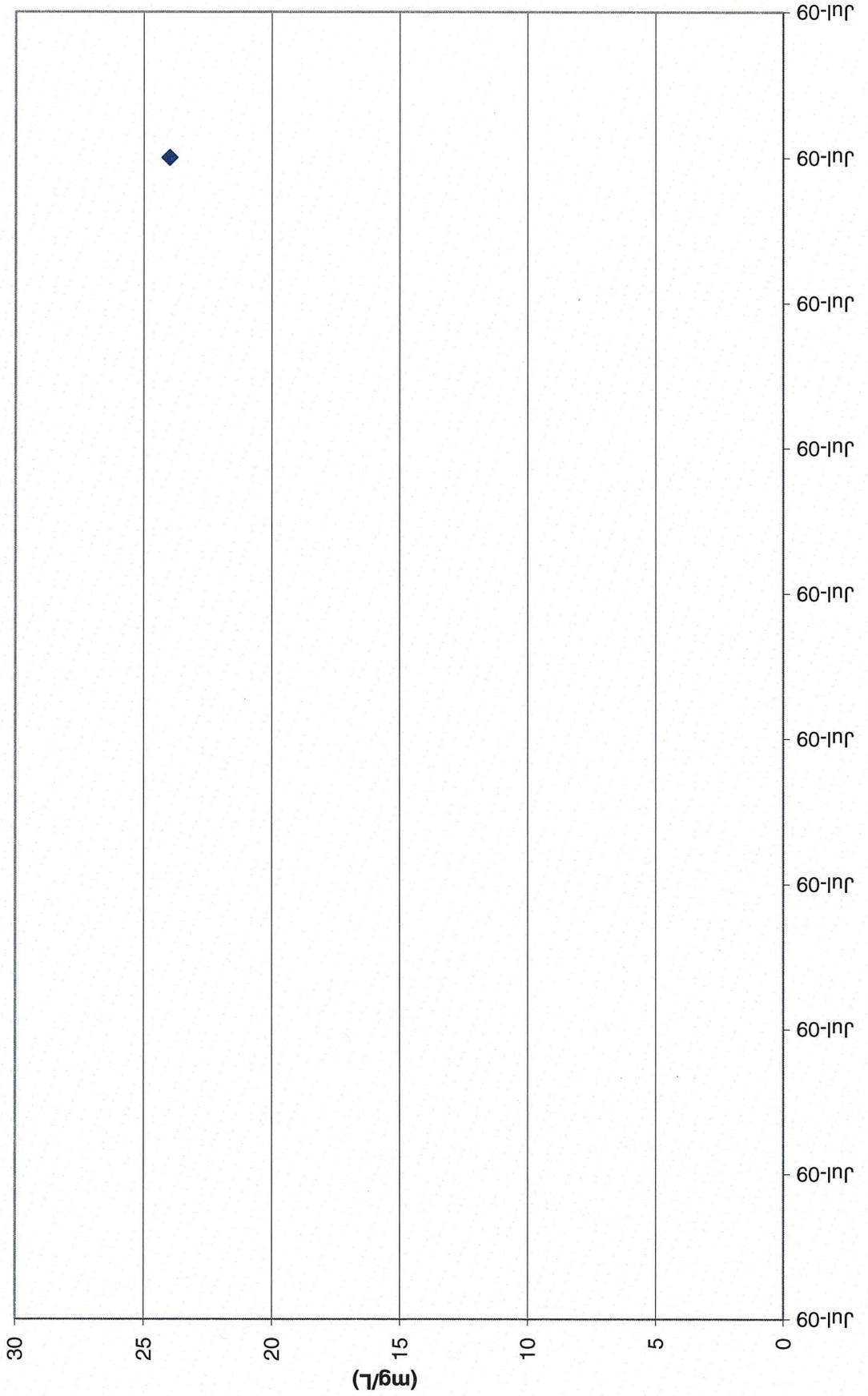
MW-18 Chloride Concentrations



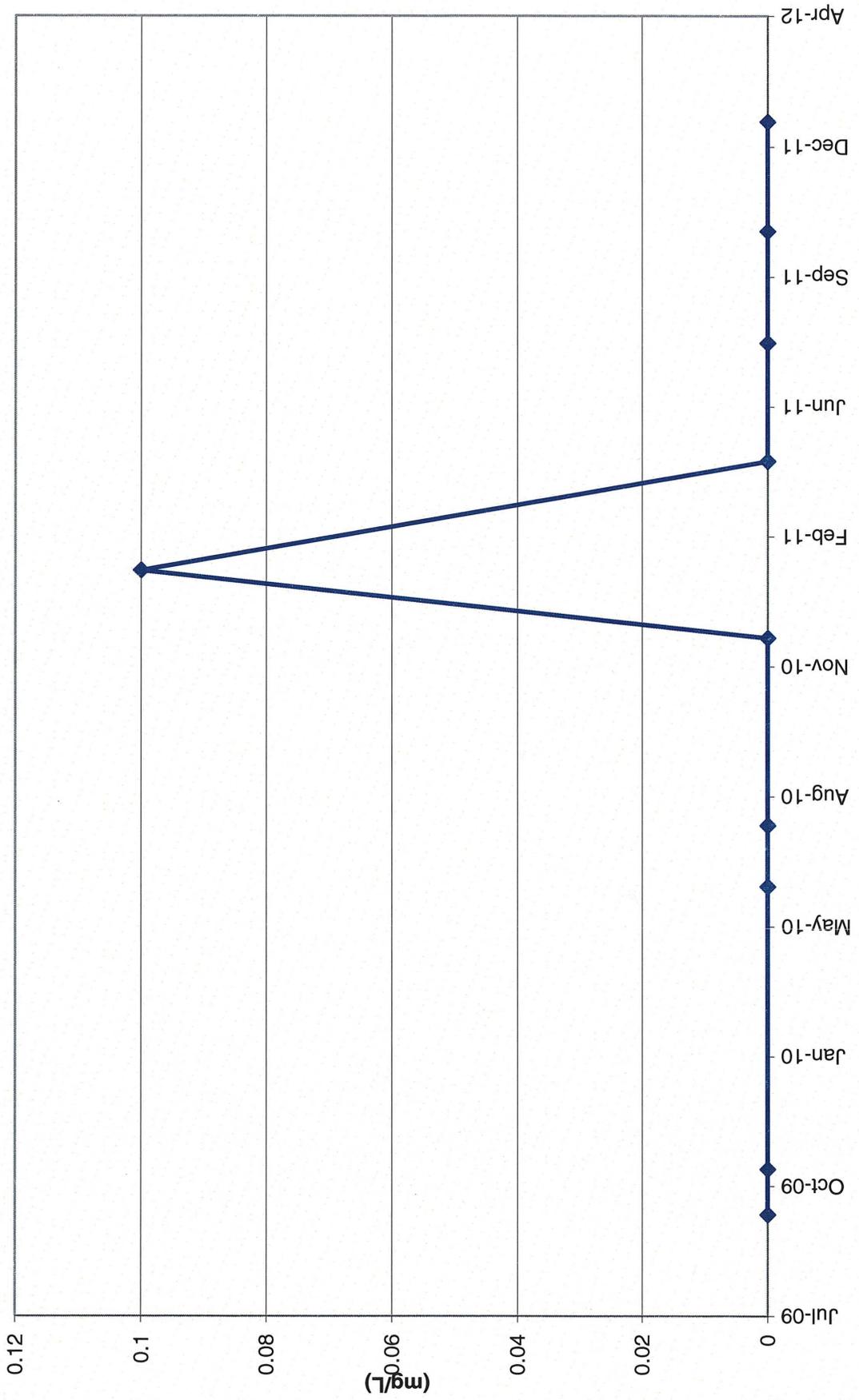
MW-19 Nitrate Concentrations



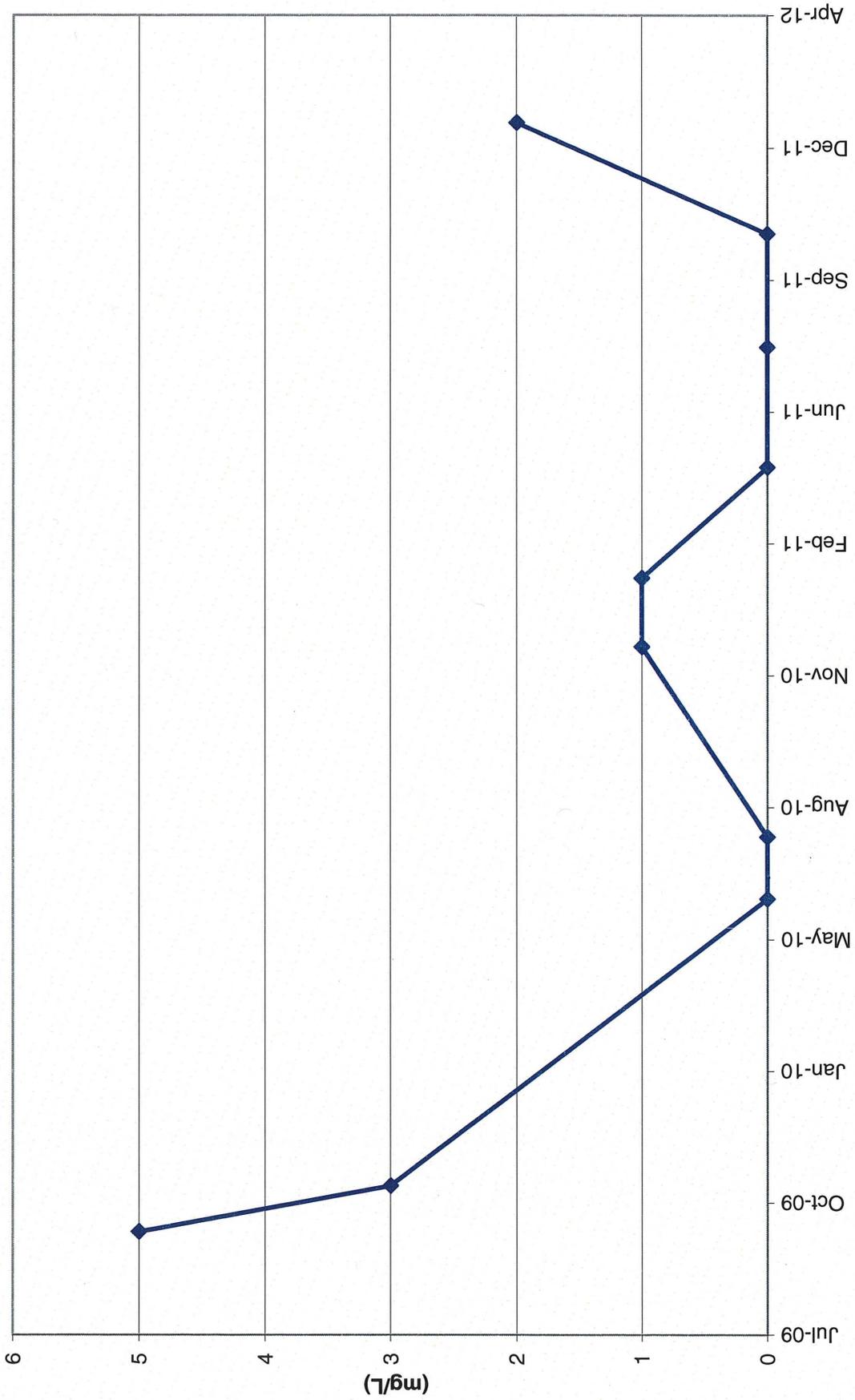
MW-19 Chloride Concentrations



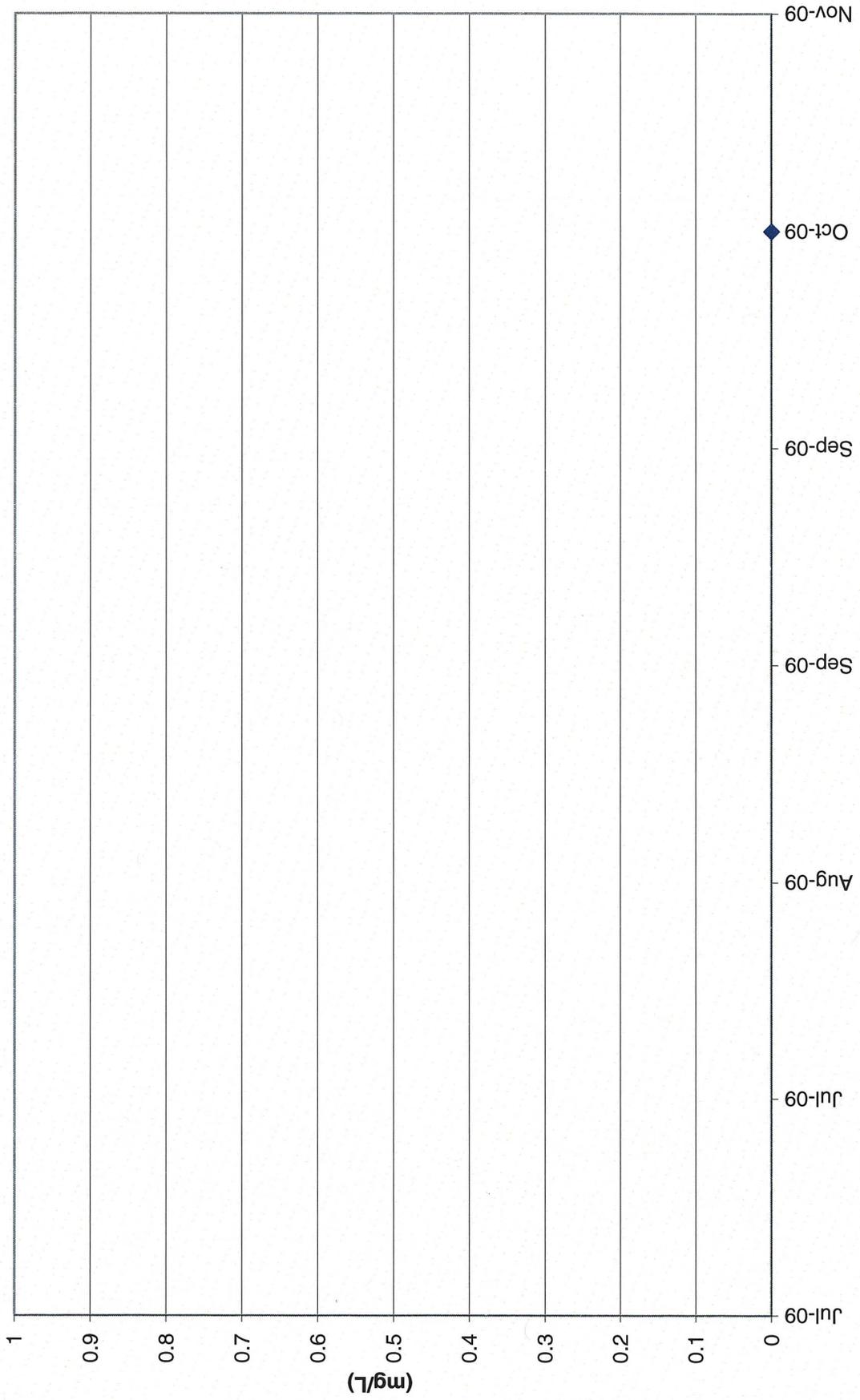
Upper Wildlife Pond Nitrate Concentrations



Upper Wildlife Pond Chloride Concentrations



Frog Pond Nitrate Concentrations



Frog Pond Chloride Concentrations



Tab L
CSV Transmittal Letter

Kathy Weinel

From: Kathy Weinel
Sent: Monday, February 25, 2013 7:38 AM
To: 'rlundberg@utah.gov'
Cc: 'Phillip Goble'; 'Thomas Rushing'; Harold Roberts; David Frydenlund; Jo Ann Tischler; Jaime Massey; David Turk; Garrin Palmer; N. Tanner Holliday
Subject: Transmittal of CSV Files White Mesa Mill 2012 Q4 Nitrate Monitoring
Attachments: 1210325-EDD-rev1.csv

Dear Mr. Lundberg,

Attached to this e-mail are electronic copies of laboratory results for nitrate monitoring conducted at the White Mesa Mill during the fourth quarter of 2012, 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