



August 29, 2012

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 2nd 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 2nd 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 black ink, appearing to read 'Jo Ann Tischler', is written over a horizontal line.

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

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

White Mesa Uranium Mill

Nitrate Monitoring Report

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

**2nd Quarter
(April through June)
2012**

Prepared by:

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August 29, 2012

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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. (“EFR”) (formerly Denison Mines (USA) Corp.) 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 EFR also address elevated chloride concentration in the Nitrate Monitoring Reports. The Consent Agreement (“CA”) was amended in August 2011. Under the amended Consent Agreement, EFR 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.

This is the Quarterly Nitrate Monitoring Report, as required under the Consent Agreement, State of UDEQ Docket No. UGW-09-03 for the second quarter of 2012.

1.1 Quality Assurance Plan Modifications during the Quarter

During the first and second quarter of 2012, Revision 6 of the approved Quality Assurance Plan (“QAP”), dated March 22, 2010, was revised on March 26, 2012 (Revision 7.0), May 25, 2012 (Revision 7.1) and June 6, 2012 (Revision 7.2). Revision 7.0, dated March 26, 2012, incorporated changes requested by Division of Radiation Control (“DRC”) in correspondence dated February 7, 2012. The changes were requested to address field sampling procedures for low yield wells consistent with U.S. Environmental Protection Agency (“EPA”) guidance documents. EFR submitted Revision 7.0 of the QAP on March 26, 2012. Revision 7.1 was submitted on May 25, 2012 to address minor changes to Revision 7.0 noted by DRC. Revision 7.1 was approved by DRC in correspondence dated May 30, 2012. EFR noted on June 6, 2012 that there were typographical errors in Revision 7.1 that interfered with field operations and submitted Revision 7.2 on June 6, 2012 to correct these typographical errors. DRC approved Revision 7.2 on June 7, 2012.

Samples were collected during the second quarter 2012 from April 18, 2012 through April 20, 2012 using the procedures contained in the approved QAP, Revision 6.0. Samples collected in the third quarter of 2012 will be purged and sampled in accordance with Revision 7.2 of the QAP.

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 (April through June 2012), 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.

Pursuant to EFR's agreements with DRC during the December 2011 conference calls regarding the pH investigation, EFR immediately stopped filling the Upper Wildlife Pond ("UWLP") at the Mill. In the past, EFR has sampled the UWLP during the quarterly nitrate sampling program. As a result of not filling the UWLP, there was insufficient water in the pond to allow collection of a representative sample. Additionally, the cows that graze in the area wallowed in and defecated in the remaining water. These two factors would most likely have caused some analytical difficulties and erroneous data. Due to current conditions at the time of the nitrate sampling program, that is, the minimal volume of water and the likelihood that the water is contaminated, EFR ceased sampling of the UWLP. EFR notified DRC of this sampling change via e-mail on April 18, 2012 and received a written e-mail response and agreement from DRC on that same day.

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 6 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 July 14, 2011):

- 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 provides a detailed presentation of procedures utilized for groundwater sampling activities under the GWDP (July 14, 2011).

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 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 Section 6.2.5 of the QAP. A rinsate blank is collected after the first pump decontamination of each day as described below. Mill personnel then 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 two casing volumes are calculated (measurements are made using the same instrument used for the monitoring wells under the Mill's GWDP). The Grundfos pump (a 6 to 10 gallon per minute [gpm] pump) is then lowered to the bottom of the well and purging is begun. 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 as described below. All wells are capped and secured prior to leaving the sampling location.

Decontamination of non-dedicated equipment, using the reagents in Section 6.2.5 of the QAP, is performed between each sample location, and at the beginning of each sampling day, in addition to the pre-event decontamination described above.

2.2.2 Sample Collection

Wells

Following the purging of a nitrate investigation well, the sampling takes place once stabilization has been achieved in accordance with Section 6.2.7 of the QAP. Prior to leaving the Mill office for sampling, Mill Personnel prepare a cooler with ice. A trip blank is not required as the sampling event does not include analyses for Volatile Organic Compounds ("VOCs"). Once Mill Personnel arrive at the well sites, labels are filled out for the various samples to be collected. All personnel involved with the collection of water and samples are then outfitted with rubber gloves to avoid sample contamination.

Each sample collection event begins at the locations which are non-detect for nitrate (based on the previous quarter's data) and proceeds by concentration to the location with the highest concentration (based on the previous quarter's data). The dedicated portable pump is appropriately decontaminated prior to each sampling event, each sampling day, and between well samples. It is important to note that the rinsate blank sample frequency was modified during the fourth quarter 2010 as recommended by UDEQ personnel present on site for split sampling during the chloroform sampling program. Previously, a rinsate blank sample was collected after each decontamination of the nondedicated pump and prior to the next use of the pump.

Per an e-mail from Mr. Phil Goble, dated November 15, 2010, the decreased rinsate blank frequency implemented during the chloroform sampling program was acceptable for

implementation on the nitrate sampling program. Based on the revised procedure, rinsate blank samples are only required at the beginning of the sampling event and at the beginning of each day of purging. The frequency change was implemented during fourth quarter 2010. The rinsate blank sample frequency will be modified again during the third quarter 2012 sampling event pursuant to UDEQ approval of the Groundwater QAP, Revision 7.2 on June 7, 2012. The frequency for rinsate blank samples will be one rinsate blank sample for every 20 field samples.

Samples are taken from the portable pump after stabilization has been achieved, unless the well is pumped dry. If the well is pumped dry, Mill personnel use a disposable bailer to sample the well after it has recovered in accordance with Section 6.2.7 of the QAP. The bailer is attached to a reel of approximately 150 feet of nylon rope and then lowered into the well. After coming into contact with the water, the bailer is allowed to sink into the water in order to fill. Once full, the bailer is reeled up out of the well.

Sample bottles are filled as follows:

- First, a 250 ml sample is collected for nitrate/nitrite. This sample is not filtered, but is preserved with H₂SO₄.
- Second, a 500 ml sample is collected for chloride. This sample is not filtered and is not chemically preserved.

After the samples have been collected for a particular well, the samples are placed into the 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.

Piezometers

Samples are collected from Piezometers 1, 2 and 3, if possible. Samples are collected from piezometers using a disposable bailer following the procedures described for wells that have been pumped dry, above. However, 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, EL.

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. It is important to note that the field data sheet appearance was changed in the fourth quarter 2010 as a result of the implementation of an electronic data capture system. The field data sheets contain the same information as the approved field data sheet attached to the approved QAP in approximately the same location. The new data sheets allow the electronic capture of

data while still maintaining the real-time recording of information manually in ink as required by UDEQ. The changes were made to accommodate the data recording and validation system. Revised field forms will be used during the third quarter 2012 sampling event. The revised field forms are based on the changes approved in the Groundwater QAP, Revision 7.2. Approval of the QAP, Revision 7.2 was received June 7, 2012.

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 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 EL. 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 EFR'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 on May 7, 2012. The CAP describes future activities associated with the nitrate in groundwater. The CAP is currently undergoing public review and comment prior to final approval by the Director. 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 further notice and completion of the CAP.

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.

Rinsate samples were also collected at the beginning of the sampling period and at the beginning of each day of purging from the decontaminated pump used for purging and sampling. Rinsate samples were labeled with the name of the subsequently sampled well with a terminal letter “R” added (e.g. TWN-7R). During the quarter three rinsate samples were collected and were sent to the analytical laboratory and analyzed for the same parameters as the nitrate wells. 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 (July 14, 2011) 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 this review, all well locations conformed to the QAP (Revision 6) requirement to evacuate two well casing volumes before sampling except TWN-2, TWN-3, TWN-7, TWN-9, TWN-14, TWN-15, and TWN-17. These seven wells were all pumped to dryness before two casing volumes were evacuated and more than one set of field parameters could be collected. In each case, representative samples of formation water were collected after the wells were allowed to recover. Piezometers 1, 2, and 3 were not pumped, and were sampled directly after measurement of one set of parameters. Two casing volumes were pumped from TWN-10 before it was purged to dryness; however, only one set of field parameters were collected prior to TWN-10 being pumped dry.

During review of the field data sheets, it was observed that sampling personnel consistently recorded depth to water for the quarterly sampling programs to the nearest

0.01 foot.

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

The review of the field sheets for compliance with QAP requirements resulted in the observations noted below. The QAP requirements in Section 6.2.7 specifically state that field parameters must have stabilized to within 10% over at least 2 consecutive measurements. 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 must 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.

- Fifteen well measurements and the measurement from Piezometers 3 exceeded the QAP’s 5 NTU turbidity goal as noted in Tab H. All turbidity RPD’s met the QAP Requirement to stabilize within 10%.

EFR’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, EFR has completed a monitoring well redevelopment program. The redevelopment report was submitted to DRC on September 30, 2011. Redevelopment results will be discussed with DRC in an effort to come to a consensus regarding turbidity considerations for the nitrate wells at the Mill site.

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 7 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.

Chloride

A review of the analytical results reported for rinsate blank samples indicated that one of the rinsate blank samples contained chloride. A DIFB was analyzed and the results indicated that it also contained chloride. 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 the rinsate blank sample with a detection of chloride did not meet this criterion.

This criterion however, is irrelevant and inappropriate for the rinsate blank sample data collected during the nitrate sampling because rinsate blank samples are collected from the decontaminated portable pump used for well purging, and the pump is not used for sample collection. As stated in Section 2.2.1, wells that do not have a dedicated pump are purged using a portable pump. In wells where the portable pump is used for purging, a disposable bailer is used to collect the samples the day following purging activities.

Based on the investigation into the source of chloride, EFR believes that the potential source for the chloride present in the rinsate blanks has been identified. Chloride is frequently a byproduct of the chlorination process in potable water supplies.

EFR believes the chloride contamination in the DI water is most likely the result of chlorination of the intake water used for the DI system. The chloride is most likely the result of the chlorination of the potable water at the Mill which is subsequently fed to the DI system. The chlorine added reacts with the naturally occurring organic and inorganic materials in the water.

Corrective actions for this issue are described in Section 5.1.

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, EFR'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 an MS/MSD (referred to as Duplicate Spike [Matrix spike] in the QAP) 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 EFR 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 as indicated in Tab H. 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 (second) quarter of 2012 to the water table contour maps for the previous quarter (first 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. As discussed in Section 4.1.1, 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 low water level at adjacent well TW4-14.

A reported decrease in water level of approximately 4 feet occurred in well MW-20. The water level changes at other wells, including pumping wells MW-4, MW-26, TW4-4, TW4-19, and TW4-20 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. Water levels reported at pumping wells this quarter were, however, within 1 foot of their reported water levels last quarter.

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 eleven 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 remained essentially unchanged (current concentration within one standard deviation of the average of the previous ten quarters and within laboratory variation) and the 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). Notable exceptions include nitrate concentrations in samples from PIEZ-3, TWN-2, and TWN-5 where values exceed the values from last quarter by 50% or more but all are less than values that have been previously measured from those sampling locations. For example, the nitrate concentration measured in PIEZ-3 of 0.2 mg/L is 100% higher than the 0.1 mg/L measured last quarter but lower than the 0.6 mg/L concentration that has previously been measured in samples from this

piezometer. Some chloride concentrations are up slightly from last quarter but, with two exceptions, are within the range of previously measured concentrations. The measured chloride concentration in TWN-16 of 50 mg/L is higher than the previous high of 39 mg/L (Table 3). However, the measured chloride concentration in PIEZ-3 of 53 mg/L is lower than the previous high of 116 mg/L.

Note that samples from recently installed chloroform monitoring wells TW4-26 and TW4-27 had 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, TW4-23, MW-32 and TW4-16. Thus, nitrate in TW4-26 and TW4-27 appears to be isolated from the plume at the Mill site, in the same way that the relatively small nitrate plumes at TWN-09 and TWN-17 are isolated from the plume at the Mill site.

5.0 CORRECTIVE ACTION REPORT

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

5.1 Identification and Definition of the Problem

Rinsate and DIFB Chloride Levels

Chloride is present in one rinsate blank and in the DIFB for this quarter. To address previous nitrate contamination in the nitrate and chloroform sampling programs, an additional rinse with 55-gallons of DI water has previously been added to the decontamination process. EFR believes that the source for the chloride present in the rinsate blanks this quarter appears to be related to the increasing volume of DI water used in the rinsate process due to the second 55-gallon rinse of the portable pump with DI water. The chloride present in the rinsate blanks is present in the DI water and is not the result of inadequate decontamination of the purging pump. The contamination in the DI water is most likely the result of chlorination of the intake water (from the potable water supply source) used for the DI system. At high volume use rates, the DI system appears to be unable to remove all of the chloride introduced with the DI intake (supply) water.

5.2 Assignment of Responsibility for Investigation of the Problem

The problem has been investigated by the QA Manager.

5.3 Investigation and Determination of Cause of the Problem

Rinsate and DIFB Chloride Levels

As discussed above, chloride is entering the rinsate blanks from the chlorination of the potable water supply used as a feed to the DI system. The DI system is showing signs of breakthrough at times of high usage. To address the issue, the QA manager is working

with Mill staff evaluating the best approach to implement upgrades to the DI system to ensure its ability to support the high volume of DI water needed for the rinsate process

5.4 Determination of a Corrective Action to Eliminate the Problem

Rinsate and DIFB Chloride Levels

The contamination in the DI water is most likely the result of chlorination of the intake water used for the DI system. Based on low level detections this quarter, the additional of a second DI rinse in the process is “stressing” the system and causing chloroform contamination. By upgrading the system, it will be able to support the high volume of DI water being pumped through the system.

5.5 Assigning and Accepting Responsibility for Implementing the Corrective Action

Rinsate and DIFB Chloride Levels

It will be the joint responsibility of the Director, Compliance and Permitting, and the Mill’s sampling staff to implement the changes and to assess the data to determine if it has corrected the problems.

5.6 Implementing the Corrective Action and Evaluating Effectiveness

Rinsate and DIFB Chloride Levels

It is expected that chloride sources will be eliminated from the DIFBs after the DI system is upgraded to support the high volume of DI water in the system during the rinsate process. An appropriate DI system has been identified. Installation is scheduled to follow construction of other capital improvements in the Mill in late 2012 or early 2013. Data collected after the completion of the system upgrades will determine if any further action is necessary to eliminate rinsate contamination.

5.7 Verifying That the Corrective Action Has Eliminated the Problem

Verification that chloride contamination has been eliminated will occur upon completion of the system upgrades and receipt of at least the two quarters of data. If chloride contamination persists then additional sources will be researched and the investigation will continue.

5.8 Assessment of Previous Quarter’s Corrective Actions

Nitrate was present in the rinsate blanks during the first quarter 2012. To address previous nitrate contamination in the nitrate and chloroform sampling programs, an additional rinse with 55-gallons of DI water has been added to the decontamination process. The nitrate contamination has been eliminated from rinsate blanks, however, the addition of 55-gallons of DI water has resulted in chloride contamination in rinsates and DIFBs. EFR is currently working to upgrade the DI system. An appropriate DI system has been identified. Installation is scheduled to follow construction of other capital improvements in the Mill in late 2012 or early 2013.

Verification that rinsate and DIFB contamination has been eliminated will occur upon completion of the system upgrades and receipt of at least the two quarters of data. If chloride contamination persists then additional sources will be researched and the investigation will continue.

6.0 CONCLUSIONS AND RECOMMENDATIONS

Generally, the shapes of the nitrate and chloride plumes appear to be stable and unchanged for the last eleven 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 remained essentially unchanged (current concentration within one standard deviation of the average of the previous ten quarters and within laboratory variation) and the plume does not appear to be migrating in the downgradient direction.

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.

7.0 ELECTRONIC DATA FILES AND FORMAT

EFR 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 August 29, 2012.

Energy Fuels Resources (USA) Inc.

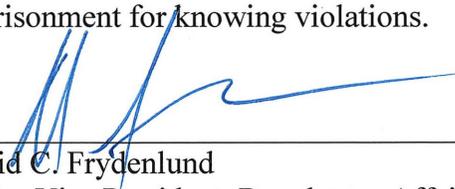
By:



David C. Frydenlund
Senior Vice President, Regulatory Affairs and General Counsel

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.



David C. Frydenlund
Senior Vice President, Regulatory Affairs and General Counsel
Energy Fuels Resources (USA) Inc.

Tables

Table 1
Summary of Well Sampling and Constituents for the Period

Well	Sample CollectionDate	Date of Lab Report
Piezometer 01	4/20/2012	5/1/2012
Piezometer 02	4/20/2012	5/1/2012
Piezometer 03	4/20/2012	5/1/2012
TWN-01	4/18/2012	5/1/2012
TWN-02	4/20/2012	5/1/2012
TWN-03	4/20/2012	5/1/2012
TWN-04	4/18/2012	5/1/2012
TWN-05	4/18/2012	5/1/2012
TWN-06	4/18/2012	5/1/2012
TWN-07	4/20/2012	5/1/2012
TWN-08	4/18/2012	5/1/2012
TWN-09	4/20/2012	5/1/2012
TWN-10	4/19/2012	5/1/2012
TWN-11	4/19/2012	5/1/2012
TWN-12	4/18/2012	5/1/2012
TWN-13	4/18/2012	5/1/2012
TWN-13R	4/18/2012	5/1/2012
TWN-14	4/20/2012	5/1/2012
TWN-15	4/20/2012	5/1/2012
TWN-15R	4/19/2012	5/1/2012
TWN-16	4/19/2012	5/1/2012
TWN-17	4/20/2012	5/1/2012
TWN-18	4/19/2012	5/1/2012
TWN-19	4/19/2012	5/1/2012
TWN-65	4/18/2012	5/1/2012
TWN-60	4/20/2012	5/1/2012
TWN-70	4/20/2012	5/1/2012

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.

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	% Difference 1st Q 2012 and 2nd Q 2012
Piez 1	NA	NA	7.2	6.8	6.5	7	6.8	7	6.6	7.1	6.6	-7
Piez 2	NA	NA	0.6	0.6	0.2	0.3	0.3	0.1	0.1	0.1	0.2	100
Piez 3	NA	1.7	1.6	1.8	1.8	1.8	1.7	1.8	1.7	1.8	1.7	-6
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
TWN 2	20.8	62.1	69	69	48	43	40	33	33	31	48.0	55
TWN 3	29	25.3	26	27	24	24	26	25	25	25	24.0	-4
TWN 4	0.4	0.9	1	0.9	1.0	0.9	0.9	1.1	0.9	0.9	1.1	22
TWN 5	0.2	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.2	0.3	50
TWN 6	1.4	1.5	1.4	1.4	1.2	1.1	1.5	1.1	1.4	1.2	1.1	-8
TWN 7	0.1	0.8	1.2	1.6	1.0	1.3	1.7	0.7	2.2	2.3	1.2	-48
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
TWN 9	12	7.6	7.7	10.7	8	9.5	10	11	10.9	12.2	10.6	-13
TWN 10	1.4	1.5	1	0.2	1.3	0.3	1.2	0.1	0.2	0.8	0.9	13
TWN 11	1.3	1.4	1.3	1.4	1.4	1.4	1.4	0.1	1.6	1.6	1.6	0
TWN 12	0.5	0.7	0.8	0.7	0.7	4.2	1	0.6	1.2	0.9	1.2	33
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
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
TWN 15	1.1	0.7	1	1	1.2	1.4	1.6	1.6	1.3	1.5	1.6	7
TWN 16	1	1.2	1.3	2.6	2	4.6	1.6	2.4	2.6	2.8	2.0	-29
TWN 17	6.7	10.4	11	8.9	8	8.6	9	8.5	8.1	8.7	9.1	5
TWN 18	1.3	1.6	1.8	1.8	1.6	1.4	1.8	1.8	1.9	1.9	2.1	11
TWN 19	7.4	7.2	6.2	7.2	7	7	6.9	7.1	6.5	7	6.8	-3

Red value indicates nondetect

Table 3
Chloride (mg/L)

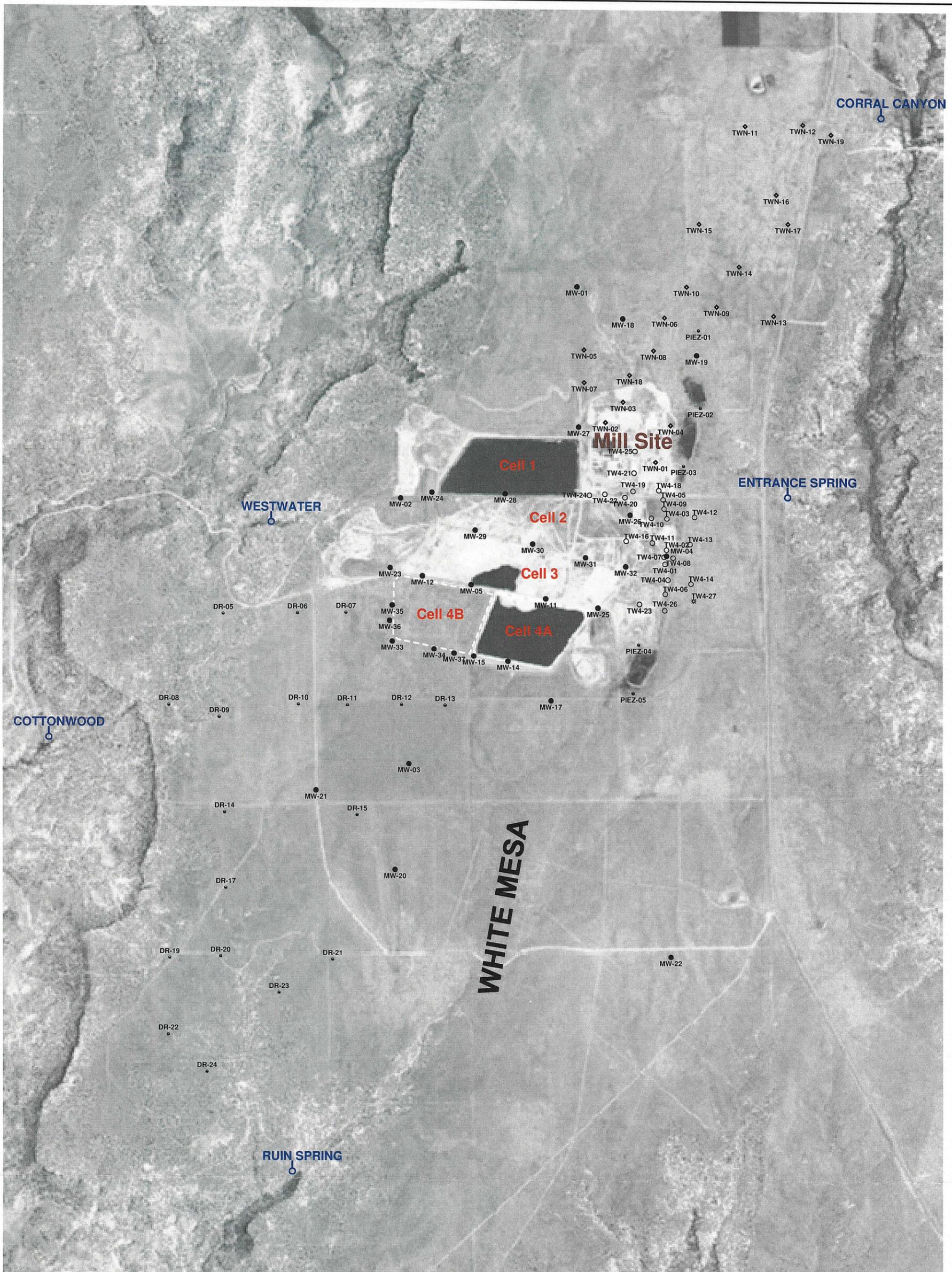
Location	4th Q 2009	1st Q 2010	2nd Q 2010	3rd Q 2010	4th Q 2010	1st Q 2011	2nd Q 2011	3rd Q 2011	4th Q 2011	1st Q 2012	2nd Q 2012	% Difference 1st Q 2012 and 2nd Q 2012
Piez 1	NA	NA	52	52	60	60	58	53	55	78	58	-26
Piez 2	NA	NA	8	8	6	9	8	9	8	9	8	-11
Piez 3	NA	116	36	35	25	40	35	61	12	20	53	165
TWN 1	18	17	20	19	14	17	19	14	10	15	17	13
TWN 2	55	85	97	104	93	93	85	74	76	86	103	20
TWN 3	106	111	118	106	117	138	128	134	129	143	152	6
TWN 4	11	22	22	19	21	21	21	35	20	20	24	20
TWN 5	48	43	44	43	45	47	44	44	45	45	39	-13
TWN 6	21	19	22	73	21	18	22	17	21	20	22	10
TWN 7	7	6	6	7	4	6	6	5	6	5	6	20
TWN 8	12	11	11	11	9	13	10	18	10	11	15	36
TWN 9	205	183	175	210	172	217	192	208	134	202	209	3
TWN 10	26	54	30	21	28	40	28	28	33	44	28	-36
TWN 11	74	73	72	76	72	84	76	76	76	69	71	3
TWN 12	109	113	106	112	103	87	109	102	87	104	106	2
TWN 13	83	47	49	53	57	103	49	49	48	46	53	15
TWN 14	32	24	30	26	28	24	30	25	27	26	27	4
TWN 15	78	43	39	36	38	43	49	47	38	38	46	21
TWN 16	39	35	35	35	30	34	39	31	34	33	50	52
TWN 17	152	78	87	66	65	90	81	74	71	79	80	1
TWN 18	57	42	63	64	59	61	67	65	60	64	64	0
TWN 19	125	118	113	113	107	114	120	113	108	114	117	3

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- Tab B Order of Sampling and Field Data Worksheets
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- Tab D Kriged Previous Quarter Groundwater Contour Map
- Tab E Hydrographs of Groundwater Elevations Over Time for Nitrate Monitoring Wells
- Tab F Depths to Groundwater and Elevations Over Time for Nitrate Monitoring Wells
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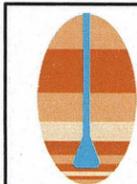
Tab A

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 2nd Quarter 2012

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

Rinsate Samples		
Name	Date	Sample

TWN-13	ND		4-18-12	0718	46.05	120
TWN-8	ND		4-18-12	0809	61.67	145.5
TWN-5	0.2		4-18-12	0945	69.56	150
TWN-1	0.6		4-18-12	1032	1032.51 70	112.5
TWN-10	0.8		4-19-12	1338	81.00	105
TWN-4	0.9		4-18-12	1255	40.70	125.7
TWN-12	0.9		4-18-12	1344	28.50	110
TWN-6	1.2		4-18-12	1431	75.25	130
TWN-15	1.5		4-20-12	0627	92.15	155
TWN-11	1.6		4-19-12	0755	69.43	142
TWN-18	1.9		4-19-12	0845	57.70	145
TWN-7	2.3		4-20-12	0640	96.60	105
TWN-16	2.8		4-19-12	1001	47.80	100
TWN-14	3.5		4-20-12	0650	62.95	135
TWN-19	7		4-19-12	1262	52.46	110
TWN-17	8.7		4-20-12	0656	34.85	110
TWN-9	12.2		4-20-12	0703	63.05	97
TWN-3	25.0		4-20-12	0715	33.65	96
TWN-2	31.0		4-20-12	0725	21.70	96

TWN-13R	4-18-12	0640
TWN-8R		
TWN-5R		
TWN-1R		
TWN-10R		
TWN-4R		
TWN-12R		
TWN-6R		
TWN-15R	4/19/12	0635
TWN-11R		
TWN-18R		
TWN-7R		
TWN-16R		
TWN-14R		
TWN-19R		
TWN-17R		
TWN-9R		
TWN-3R		
TWN-2R		

Piez 1	7.1		4-20-12	1305	61.85	
Piez 2	0.1		4-20-12	1235	22.30	
Piez 3	1.8		4-20-12	1250	40.10	
Well	ND					

Samplers: Tanner Holliday
Garrin Palmer

TWN 65 4/18/12 1255
TWN 70 4/20/12 0627
TWN 60 4/20/12 1330

81.42 156
31.56



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



See instruction

Attachment 1

Description of Sampling Event: 2nd Quarter Nitrate 2012

Location (well name): Piez-01

Sampler Name and initials: Tanner Holliday/TH

Date and Time for Purging: 4/20/2012

and Sampling (if different): N/A

Well Purging Equip Used: pump or bailer

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

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: 61.85

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

Conductance (avg): 2195

pH of Water (avg): 8.30

Well Water Temp. (avg): 15.57

Redox Potential (Eh): 209

Turbidity: 4.0

Weather Cond.: Sunny

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

Time	<u>1303</u>	Gal. Purged	<u>0</u>
Conductance	<u>2195</u>	pH	<u>8.30</u>
Temp. °C	<u>15.57</u>		
Redox Potential Eh (mV)	<u>209</u>		
Turbidity (NTU)	<u>4.0</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 Lab

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified)	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:

 See instruction

Comment

Arrived on site at 1257. Tanner and Garrin present to collect samples.
 Samples bailed and collected at 1305. water was clear.
 Left site at 1308

Piez-01 04-20-2012 Do not touch this cell (SheetName)



ATTACHMENT 1
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUND WATER



See instruction

Attachment 1

Description of Sampling Event: 2nd Quarter Nitrate 2012

Location (well name): Piez-02

Sampler Name and initials: Tanner Holliday/TH

Date and Time for Purging: 4/20/2012

and Sampling (if different): N/A

Well Purging Equip Used: pump or bailer

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

Sampling Event: Quarterly Nitrate

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: 22.30

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

Conductance (avg): 676.3

pH of Water (avg): 6.89

Well Water Temp. (avg): 15.54

Redox Potential (Eh): 474

Turbidity: 1.6

Weather Cond.: Sunny

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

Time	<u>1233</u>	Gal. Purged	<u>0</u>
Conductance	<u>676.3</u>	pH	<u>6.89</u>
Temp. °C	<u>15.54</u>		
Redox Potential Eh (mV)	<u>474</u>		
Turbidity (NTU)	<u>1.6</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 Lab

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:

 See instruction

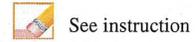
Comment

Arrived on site at 1228. Tanner and Garrin present to collect samples. Samples were bailed at 1235. Water was clear. Left site at 1238

Piez-02 04-20-2012 Do not touch this cell (SheetName)



**ATTACHMENT 1
 WHITE MESA URANIUM MILL
 FIELD DATA WORKSHEET FOR GROUND WATER**



Attachment 1

Description of Sampling Event: 2nd Quarter Nitrate 2012

Location (well name): Piez-03

Sampler Name and initials: Tanner Holliday/TH

Date and Time for Purging: 4/20/2012

and Sampling (if different): N/A

Well Purging Equip Used: pump or bailer

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

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 μMHOS/ cm

Well Depth(0.01ft): 0

Depth to Water Before Purging: 40.10

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

Conductance (avg): 3080

pH of Water (avg): 12.19

Well Water Temp. (avg): 15.41

Redox Potential (Eh): 177

Turbidity: 5.2

Weather Cond.: Sunny

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

Time	<u>1248</u>	Gal. Purged	<u>0</u>
Conductance	<u>3080</u>	pH	<u>12.19</u>
Temp. °C	<u>15.41</u>		
Redox Potential Eh (mV)	<u>177</u>		
Turbidity (NTU)	<u>5.2</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 Lab

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified)	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:

 See instruction

Comment

Arrived on site at 1241. Tanner and Garrin present to collect samples. Samples collected and bailed at 1250. water was clear. Left site at 1253

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**ATTACHMENT 1
 WHITE MESA URANIUM MILL
 FIELD DATA WORKSHEET FOR GROUND WATER**



See instruction

Attachment 1

Description of Sampling Event: Nitrate 2nd Quarter 2012

Location (well name): TWN-01

Sampler Name and initials: Tanner Holliday/TH

Date and Time for Purging: 4/18/2012

and Sampling (if different): N/A

Well Purging Equip Used: pump or bailer

Well Pump (if other than Bennet): Grundfos

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: 51.70

Casing Volume (V) 4" Well: 39.70 (.653h)
 3" Well: 6 (.367h)

Conductance (avg): 803

pH of Water (avg): 7.55

Well Water Temp. (avg): 15.01

Redox Potential (Eh): 218

Turbidity: 27

Weather Cond.: Partly Cloudy

Ext'l Amb. Temp. °C (prior sampling event): 10°

Time	<u>1029</u>	Gal. Purged	<u>52</u>
Conductance	<u>803</u>	pH	<u>7.55</u>
Temp. °C	<u>15.02</u>		
Redox Potential Eh (mV)	<u>222</u>		
Turbidity (NTU)	<u>27.6</u>		

Time	<u>1030</u>	Gal. Purged	<u>65</u>
Conductance	<u>803</u>	pH	<u>7.56</u>
Temp. °C	<u>15.00</u>		
Redox Potential Eh (mV)	<u>220</u>		
Turbidity (NTU)	<u>28.0</u>		

Time	<u>1031</u>	Gal. Purged	<u>78</u>
Conductance	<u>803</u>	pH	<u>7.56</u>
Temp. °C	<u>15.01</u>		
Redox Potential Eh (mV)	<u>217</u>		
Turbidity (NTU)	<u>27.3</u>		

Time	<u>1032</u>	Gal. Purged	<u>91</u>
Conductance	<u>804</u>	pH	<u>7.56</u>
Temp. °C	<u>15.01</u>		
Redox Potential Eh (mV)	<u>216</u>		
Turbidity (NTU)	<u>27.4</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 Lab

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:

 See instruction

Comment

Arrived on site at 1020. Tanner and Garrin present for purge and sampling event. Purge began at 1025. Purged well for a total of 7 minutes water was mostly clear. Purge ended and samples collected at 1032. Left site at 1036
 Depth to water was 69.59

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ATTACHMENT 1
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUND WATER



See instruction

Attachment 1

Description of Sampling Event: 2nd Quarter Nitrate 2012

Location (well name): TWN-02

Sampler Name and initials: Tanner Holiday/TH

Date and Time for Purging: 4/19/2012

and Sampling (if different): 4/20/2012

Well Purging Equip Used: pump or bailer

Well Pump (if other than Bennet): Grundfos

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: 21.30

Casing Volume (V) 4" Well: 48.77 (.653h)
 3" Well: 0 (.367h)

Conductance (avg): 3006

pH of Water (avg): 6.78

Well Water Temp. (avg): 13.51

Redox Potential (Eh): 454

Turbidity: 24.3

Weather Cond.: Cloudy

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

Time	<u>1447</u>	Gal. Purged	<u>72</u>
Conductance	<u>3006</u>	pH	<u>6.78</u>
Temp. °C	<u>13.51</u>		
Redox Potential Eh (mV)	<u>454</u>		
Turbidity (NTU)	<u>24.3</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 Lab

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified)	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:

 See instruction

Comment

Arrived on site at 1437. Tanner and Garrin present for purge. Purge began at 1441. Purged well for a total of 6 minutes. Purged well dry! Purge ended at 1447. water was clear. Left site at 1450

Arrived on site at 0720, Tanner and Garrin present to collect samples. Depth to water was 21.70. Samples bailed at 0725. Left site at 0727

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**ATTACHMENT 1
 WHITE MESA URANIUM MILL
 FIELD DATA WORKSHEET FOR GROUND WATER**



See instruction

Attachment 1

Description of Sampling Event: 2nd Quarter Gh Nitrate 2012

Location (well name): TWN-03

Sampler Name and initials: Tanner Holliday/TH

Date and Time for Purging: 4/19/2012

and Sampling (if different): 4/20/2012

Well Purging Equip Used: pump or bailer

Well Pump (if other than Bennet): Grundfos

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: 32.85

Casing Volume (V) 4" Well: 41.23 (.653h)
 3" Well: 0 (.367h)

Conductance (avg): 2434

pH of Water (avg): 7.31

Well Water Temp. (avg): 14.83

Redox Potential (Eh): 395

Turbidity: 100

Weather Cond.: cloudy

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

Time	<u>1413</u>	Gal. Purged	<u>57</u>
Conductance	<u>2434</u>	pH	<u>7.31</u>
Temp. °C	<u>14.83</u>		
Redox Potential Eh (mV)	<u>395</u>		
Turbidity (NTU)	<u>100</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 Lab

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:

 See instruction

Comment

Arrived on site at 1405 Tanner and Garrin present for purge. Purge began at 1409 Purged well for a total of 4 minutes and 45 seconds. Purged well dry! Purge ended at 1413. water had a little discolor. Left site at 1416 Arrived on site at 0710. Tanner and Garrin present to collect samples. Depth to water was 33.65 samples were collected at 0715. Left site at 0717

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ATTACHMENT 1
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUND WATER



Attachment 1
 See instruction

Description of Sampling Event: 2nd Quarter Nitrate 2012

Location (well name): JWN-04 Sampler Name and initials: Tanner Holliday/TH

Date and Time for Purging 4/18/2012 and Sampling (if different) N/A

Well Purging Equip Used: pump or bailer Well Pump (if other than Bennet) Grundfos

Sampling Event Quarterly Nitrate Prev. Well Sampled in Sampling Event JWN-10

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 40.70 Casing Volume (V) 4" Well: 55.50 (.653h)
 3" Well: 0 (.367h)

Conductance (avg) 1033 pH of Water (avg) 7.33

Well Water Temp. (avg) 14.92 Redox Potential (Eh) 233 Turbidity 118

Weather Cond. Partly Cloudy Ext'l Amb. Temp. °C (prior sampling event) 17°

Time	<u>1252</u>	Gal. Purged	<u>104</u>
Conductance	<u>1034</u>	pH	<u>7.34</u>
Temp. °C	<u>14.91</u>		
Redox Potential Eh (mV)	<u>236</u>		
Turbidity (NTU)	<u>118</u>		

Time	<u>1253</u>	Gal. Purged	<u>117</u>
Conductance	<u>1033</u>	pH	<u>7.33</u>
Temp. °C	<u>14.93</u>		
Redox Potential Eh (mV)	<u>234</u>		
Turbidity (NTU)	<u>116</u>		

Time	<u>1254</u>	Gal. Purged	<u>130</u>
Conductance	<u>1034</u>	pH	<u>7.34</u>
Temp. °C	<u>14.94</u>		
Redox Potential Eh (mV)	<u>233</u>		
Turbidity (NTU)	<u>120</u>		

Time	<u>1255</u>	Gal. Purged	<u>143</u>
Conductance	<u>1034</u>	pH	<u>7.34</u>
Temp. °C	<u>14.93</u>		
Redox Potential Eh (mV)	<u>232</u>		
Turbidity (NTU)	<u>118</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 Lab

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:

 See instruction

Comment

Arrived on site at 1240. Tanner and Garrin present for purge and sampling event. Purge began at 1244. Purged well for a total of 11 minutes. Water had a slight discolor to it. Purge ended and samples collected at 1255. Left site at 1300

Depth to water was 42.10

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ATTACHMENT 1
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUND WATER



Attachment 1
 See instruction

Description of Sampling Event: 2nd Quarter Nitrate 2012

Location (well name): TWN-05 Sampler Name and initials: Tanner Holliday/TH

Date and Time for Purging 4/18/2012 and Sampling (if different) N/A

Well Purging Equip Used: pump or bailer Well Pump (if other than Bennet) Grundfos

Sampling Event Quarterly Nitrate Prev. Well Sampled in Sampling Event TWN-08

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 999 μMHOS/ cm Well Depth(0.01ft): 150.00

Depth to Water Before Purging 69.56 Casing Volume (V) 4" Well: 52.52 (.653h)
 3" Well: 0 (.367h)

Conductance (avg) 3061 pH of Water (avg) 7.04

Well Water Temp. (avg) 14.91 Redox Potential (Eh) 322 Turbidity 3.0

Weather Cond. Partly Cloudy Ext'l Amb. Temp. °C (prior sampling event) 9^o

Time	<u>0942</u>	Gal. Purged	<u>78</u>
Conductance	<u>3061</u>	pH	<u>7.04</u>
Temp. °C	<u>14.92</u>		
Redox Potential Eh (mV)	<u>331</u>		
Turbidity (NTU)	<u>2.8</u>		

Time	<u>0943</u>	Gal. Purged	<u>91</u>
Conductance	<u>3062</u>	pH	<u>7.05</u>
Temp. °C	<u>14.91</u>		
Redox Potential Eh (mV)	<u>325</u>		
Turbidity (NTU)	<u>3.0</u>		

Time	<u>0944</u>	Gal. Purged	<u>104</u>
Conductance	<u>3061</u>	pH	<u>7.05</u>
Temp. °C	<u>14.91</u>		
Redox Potential Eh (mV)	<u>319</u>		
Turbidity (NTU)	<u>3.0</u>		

Time	<u>0945</u>	Gal. Purged	<u>117</u>
Conductance	<u>3061</u>	pH	<u>7.05</u>
Temp. °C	<u>14.91</u>		
Redox Potential Eh (mV)	<u>315</u>		
Turbidity (NTU)	<u>3.0</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 Lab

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:

 See instruction

Comment

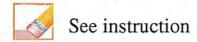
Arrived on site at 0930. Tanner and Garrin present for purge and sampling event. Purge began at 0936. Purged well for a total of 9 minutes water was clear. Purge ended and samples collected at 0945. Left site at 0950

Depth to water was 80.45

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**ATTACHMENT 1
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUND WATER**



Attachment 1

Description of Sampling Event: 2nd Quarter Nitrate 2012

Location (well name): TWN-06

Sampler Name and initials: Tanner Holliday/TH

Date and Time for Purging 4/18/2012

and Sampling (if different) N/A

Well Purging Equip Used: pump or bailer

Well Pump (if other than Bennet) Grundfos

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): 130.00

Depth to Water Before Purging 75.25

Casing Volume (V) 4" Well: 35.75 (.653h)

3" Well: 0 (.367h)

Conductance (avg) 1540

pH of Water (avg) 7.13

Well Water Temp. (avg) 14.92

Redox Potential (Eh) 252

Turbidity 10.1

Weather Cond. Partly Cloudy

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

Time	<u>1428</u>	Gal. Purged	<u>52</u>
Conductance	<u>1540</u>	pH	<u>7.13</u>
Temp. °C	<u>14.92</u>		
Redox Potential Eh (mV)	<u>257</u>		
Turbidity (NTU)	<u>10.3</u>		

Time	<u>1429</u>	Gal. Purged	<u>65</u>
Conductance	<u>1538</u>	pH	<u>7.13</u>
Temp. °C	<u>14.91</u>		
Redox Potential Eh (mV)	<u>254</u>		
Turbidity (NTU)	<u>10.2</u>		

Time	<u>1430</u>	Gal. Purged	<u>78</u>
Conductance	<u>1541</u>	pH	<u>7.14</u>
Temp. °C	<u>14.93</u>		
Redox Potential Eh (mV)	<u>249</u>		
Turbidity (NTU)	<u>10.1</u>		

Time	<u>1431</u>	Gal. Purged	<u>91</u>
Conductance	<u>1543</u>	pH	<u>7.14</u>
Temp. °C	<u>14.94</u>		
Redox Potential Eh (mV)	<u>248</u>		
Turbidity (NTU)	<u>10.0</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 Lab

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:

 See instruction

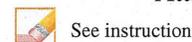
Comment

Arrived on site at 1420. Tanner and Garrin present for purge and sampling event. Purge began at 1424. Purged well for a total of 7 minutes, water was clear. Purge ended and samples collected at 1431. Depth to water was 83.51 left site at 1436

TWN-06 04-18-2012 Do not touch this cell (SheetName)



**ATTACHMENT 1
 WHITE MESA URANIUM MILL
 FIELD DATA WORKSHEET FOR GROUND WATER**



Attachment 1

Description of Sampling Event: 2nd Quarter Nitrate 2012

Location (well name): JWN-07 Sampler Name and initials: Tanner Holliday/TH

Date and Time for Purging 4/19/2012 and Sampling (if different) 4/20/2012

Well Purging Equip Used: pump or bailer Well Pump (if other than Bennet) Grundfos

Sampling Event Quarterly Nitrate Prev. Well Sampled in Sampling Event JWN-18

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 88.12 Casing Volume (V) 4" Well: 11.02 (.653h)
 3" Well: 0 (.367h)

Conductance (avg) 1153 pH of Water (avg) 7.73

Well Water Temp. (avg) 14.76 Redox Potential (Eh) 309 Turbidity 8.0

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

Time	<u>0919</u>	Gal. Purged	<u>19</u>
Conductance	<u>1153</u>	pH	<u>7.73</u>
Temp. °C	<u>14.76</u>		
Redox Potential Eh (mV)	<u>309</u>		
Turbidity (NTU)	<u>8.0</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 Lab

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:

 See instruction

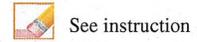
Comment

Arrived on site at 0914 Tanner and Garrin present for purge. Purge began at 0918. Purged well for 1 minute and 40 seconds. Purged well dry! Purge ended at 0919. water was a little milky white but cleared. Left site at 0923
 Arrived on site at 0635, Tanner and Garrin Present to collect samples. Depth to water was 96.60 samples were bailed at 0640
 Left site at 0642

TWN-07 04-19-2012 Do not touch this cell (SheetName)



**ATTACHMENT 1
 WHITE MESA URANIUM MILL
 FIELD DATA WORKSHEET FOR GROUND WATER**



Attachment 1

Description of Sampling Event: 2nd Quarter Nitrate 2012

Location (well name): TWN-08 Sampler Name and initials: Tanner Holiday/TH

Date and Time for Purging: 4/18/2012 and Sampling (if different): N/A

Well Purging Equip Used: pump or bailer Well Pump (if other than Bennet): Grundfos

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): 120.00 145.50

Depth to Water Before Purging: 61.67 Casing Volume (V) 4" Well: 54.74 (.653h)
 3" Well: 0 (.367h)

Conductance (avg): 2362 pH of Water (avg): 7.60

Well Water Temp. (avg): 14.58 Redox Potential (Eh): 113 Turbidity: 3.0

Weather Cond.: Partly Cloudy Ext'l Amb. Temp. °C (prior sampling event): 7°

Time	<u>0806</u>	Gal. Purged	<u>78</u>
Conductance	<u>2348</u>	pH	<u>7.66</u>
Temp. °C	<u>14.62</u>		
Redox Potential Eh (mV)	<u>119</u>		
Turbidity (NTU)	<u>3.2</u>		

Time	<u>0807</u>	Gal. Purged	<u>91</u>
Conductance	<u>2358</u>	pH	<u>7.60</u>
Temp. °C	<u>14.58</u>		
Redox Potential Eh (mV)	<u>110</u>		
Turbidity (NTU)	<u>3.0</u>		

Time	<u>0808</u>	Gal. Purged	<u>104</u>
Conductance	<u>2369</u>	pH	<u>7.60</u>
Temp. °C	<u>14.57</u>		
Redox Potential Eh (mV)	<u>113</u>		
Turbidity (NTU)	<u>3.0</u>		

Time	<u>0809</u>	Gal. Purged	<u>117</u>
Conductance	<u>2374</u>	pH	<u>7.56</u>
Temp. °C	<u>14.57</u>		
Redox Potential Eh (mV)	<u>115</u>		
Turbidity (NTU)	<u>3.0</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 Lab

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:

 See instruction

Comment

Arrived on site at 0753 Tanner and Garrin present for purge and sampling event.
 Purge began at 0800. Purged well for a total of 9 minutes. water was clear.
 Purge ended and samples were collected at 0809. Left site at 0813

Depth to water was 73.98

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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 Lab

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:

 See instruction

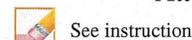
Comment

Arrived on site at 1324. Tanner and Garrin present for purge. Purge began at 1327 Purged well for a total of 3 minutes. Purged well dry! water was mostly clear. Purge ended at 1330. Left site at 1332
 Arrived on site at 0659. Tanner and Garrin present to collect samples. Depth to water was 63.05 Samples were bailed at 0703. Left site at 0705

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**ATTACHMENT 1
 WHITE MESA URANIUM MILL
 FIELD DATA WORKSHEET FOR GROUND WATER**



Attachment 1

Description of Sampling Event: 2nd Quarter Nitrate 2012

Location (well name): TWN-10 Sampler Name and initials: Tanner Holiday/JH

Date and Time for Purging 4/18/2012 and Sampling (if different) 4/19/2012

Well Purging Equip Used: pump or bailer Well Pump (if other than Bennet) Grundfos

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 μMHOS/ cm Well Depth(0.01ft): 105.00

Depth to Water Before Purging 80.82 Casing Volume (V) 4" Well: 15.78 (.653h)
 3" Well: 0 (.367h)

Conductance (avg) 3609 pH of Water (avg) 4.60

Well Water Temp. (avg) 15.66 Redox Potential (Eh) 498 Turbidity 75.7

Weather Cond. Partly Cloudy Ext'l Amb. Temp. °C (prior sampling event) 15°

Time	<u>1208</u>	Gal. Purged	<u>32</u>
Conductance	<u>3609</u>	pH	<u>4.60</u>
Temp. °C	<u>15.66</u>		
Redox Potential Eh (mV)	<u>498</u>		
Turbidity (NTU)	<u>75.7</u>		

Time	<u>1338</u>	Gal. Purged	
Conductance	<u>3731</u>	pH	<u>3.88</u>
Temp. °C	<u>16.01</u>		
Redox Potential Eh (mV)	<u>583</u>		
Turbidity (NTU)	<u>7.7</u>		

4/19/12
Before

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

Time	<u>1339</u>	Gal. Purged	
Conductance	<u>3745</u>	pH	<u>3.88</u>
Temp. °C	<u>16.09</u>		
Redox Potential Eh (mV)	<u>609</u>		
Turbidity (NTU)	<u>7.9</u>		

4/19/12
After

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 Lab

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:

 See instruction

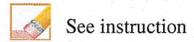
Comment

Arrived on site at 1202. Tanner and Garrin present for purge. Purge began at 1206. Purged well for a total of 2 minutes and 25 seconds. Purged well dry! water was a light milky white color but slowly cleared. Purge ended at 1208. Left site at 1212. Arrived on site at 1334. Depth to water was 81.00. Tanner and Garrin Present to collect samples. Samples taken at 1338. Left site at 1340

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**ATTACHMENT 1
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUND WATER**



Attachment 1

Description of Sampling Event: 2nd Quarter Nitrate 2012

Location (well name): TWN-11 Sampler Name and initials: Tanner Holliday/TH

Date and Time for Purging 4/19/2012 and Sampling (if different) N/A

Well Purging Equip Used: pump or bailer Well Pump (if other than Bennet) Grundfos

Sampling Event Quarterly Nitrate Prev. Well Sampled in Sampling Event TWN-15

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 999 μMHOS/ cm Well Depth(0.01ft): 142.00

Depth to Water Before Purging 69.43 Casing Volume (V) 4" Well: 47.38 (.653h)
3" Well: 0 (.367h)

Conductance (avg) 2780 pH of Water (avg) 7.04

Well Water Temp. (avg) 14.57 Redox Potential (Eh) 343 Turbidity 2.9

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

Time	<u>0752</u>	Gal. Purged	<u>84</u>
Conductance	<u>2780</u>	pH	<u>7.04</u>
Temp. °C	<u>14.59</u>		
Redox Potential Eh (mV)	<u>347</u>		
Turbidity (NTU)	<u>3.0</u>		

Time	<u>0753</u>	Gal. Purged	<u>96</u>
Conductance	<u>2780</u>	pH	<u>7.05</u>
Temp. °C	<u>14.57</u>		
Redox Potential Eh (mV)	<u>344</u>		
Turbidity (NTU)	<u>2.9</u>		

Time	<u>0754</u>	Gal. Purged	<u>108</u>
Conductance	<u>2780</u>	pH	<u>7.04</u>
Temp. °C	<u>14.56</u>		
Redox Potential Eh (mV)	<u>343</u>		
Turbidity (NTU)	<u>2.9</u>		

Time	<u>0755</u>	Gal. Purged	<u>120</u>
Conductance	<u>2780</u>	pH	<u>7.04</u>
Temp. °C	<u>14.57</u>		
Redox Potential Eh (mV)	<u>340</u>		
Turbidity (NTU)	<u>2.9</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 Lab

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:

 See instruction

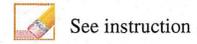
Comment

Arrived on site at 0739 Tanner and Garrin present for purge and sampling event, Purge began at 0745. Purged well for a total of 10 minutes. water was clear. Purge ended and samples collected at 0755. Depth to water was 95.46
 Left site at 0759

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**ATTACHMENT 1
 WHITE MESA URANIUM MILL
 FIELD DATA WORKSHEET FOR GROUND WATER**



Attachment 1

Description of Sampling Event: 2nd Quarter 2012 Nitrate

Location (well name): TWN-12

Sampler Name and initials: Tanner Holliday/TH

Date and Time for Purging: 4/18/2012

and Sampling (if different): N/A

Well Purging Equip Used: pump or bailer

Well Pump (if other than Bennet): Grundfos

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: 28.50

Casing Volume (V) 4" Well: 53.21 (.653h)
 3" Well: 0 (.367h)

Conductance (avg): 2472

pH of Water (avg): 7.31

Well Water Temp. (avg): 14.89

Redox Potential (Eh): 190

Turbidity: 157

Weather Cond.: Partly Cloudy

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

Time	<u>1341</u>	Gal. Purged	<u>91</u>
Conductance	<u>2484</u>	pH	<u>7.31</u>
Temp. °C	<u>14.88</u>		
Redox Potential Eh (mV)	<u>188</u>		
Turbidity (NTU)	<u>150</u>		

Time	<u>1342</u>	Gal. Purged	<u>104</u>
Conductance	<u>2475</u>	pH	<u>7.32</u>
Temp. °C	<u>14.90</u>		
Redox Potential Eh (mV)	<u>189</u>		
Turbidity (NTU)	<u>155</u>		

Time	<u>1343</u>	Gal. Purged	<u>117</u>
Conductance	<u>2465</u>	pH	<u>7.32</u>
Temp. °C	<u>14.90</u>		
Redox Potential Eh (mV)	<u>191</u>		
Turbidity (NTU)	<u>161</u>		

Time	<u>1344</u>	Gal. Purged	<u>130</u>
Conductance	<u>2464</u>	pH	<u>7.32</u>
Temp. °C	<u>14.91</u>		
Redox Potential Eh (mV)	<u>195</u>		
Turbidity (NTU)	<u>165</u>		

Volume of Water Purged gallon(s)

Pumping Rate Calculation

130

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 Lab

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:

 See instruction

Comment

Arrived on site at 1330. Tanner and Garrin present for purge and sampling event. Purge began at 1334. Purged well for a total of 10 minutes. when purge started water was orange but slowly cleared throughout the purge. Purge ended and samples collected at 1344. Left site at 1348.
 Depth to water was 83.91

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**ATTACHMENT 1
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUND WATER**



See instruction

Attachment 1

Description of Sampling Event: 2nd Quarter Nitrate 2012

Location (well name): TWN-13

Sampler Name and initials: Tanner Holliday/TH

Date and Time for Purging: 4/18/2012

and Sampling (if different): N/A

Well Purging Equip Used: pump or bailer

Well Pump (if other than Bennet): Grundfos

Sampling Event: Quarterly Nitrate

Prev. Well Sampled in Sampling Event: TWN-13R

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 999 μ MHOS/ cm

Well Depth(0.01ft): 145.50

Depth to Water Before Purging: 46.05

Casing Volume (V) 4" Well: 64.94 (.653h)

3" Well: 0 (.367h)

Conductance (avg): 867

pH of Water (avg): 8.00

Well Water Temp. (avg): 14.96

Redox Potential (Eh): 153

Turbidity: 10.3

Weather Cond.: Partly Cloudy

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

Time	<u>0715</u>	Gal. Purged	<u>104</u>
Conductance	<u>877.1</u>	pH	<u>7.98</u>
Temp. °C	<u>14.96</u>		
Redox Potential Eh (mV)	<u>160</u>		
Turbidity (NTU)	<u>10.2</u>		

Time	<u>0716</u>	Gal. Purged	<u>117</u>
Conductance	<u>873.2</u>	pH	<u>8.01</u>
Temp. °C	<u>14.97</u>		
Redox Potential Eh (mV)	<u>155</u>		
Turbidity (NTU)	<u>10.3</u>		

Time	<u>0717</u>	Gal. Purged	<u>130</u>
Conductance	<u>860</u>	pH	<u>8.01</u>
Temp. °C	<u>14.96</u>		
Redox Potential Eh (mV)	<u>151</u>		
Turbidity (NTU)	<u>10.4</u>		

Time	<u>0718</u>	Gal. Purged	<u>143</u>
Conductance	<u>858.1</u>	pH	<u>8.01</u>
Temp. °C	<u>14.95</u>		
Redox Potential Eh (mV)	<u>149</u>		
Turbidity (NTU)	<u>10.4</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 Lab

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:

 See instruction

Comment

Chloride Arrived on site at 0657. Tanner and Garrin present for purge and sampling event. Purge began at 0707. Purged well for a total of 11 min. water was clear. Purge ended and samples were collected at 0718. Depth to water was 93.45. Left site at 0722

TWN-13 04-18-2013 Do not touch this cell (SheetName)



**ATTACHMENT 1
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUND WATER**



Attachment 1
See instruction

Description of Sampling Event: 2nd Quarter Nitrate 2012

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

Date and Time for Purging 4/18/2012 and Sampling (if different) N/A

Well Purging Equip Used: pump or bailer Well Pump (if other than Bennet) Grundfos

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 μMHOS/ 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) 0.2 pH of Water (avg) 6.40

Well Water Temp. (avg) 15.43 Redox Potential (Eh) 421 Turbidity 0

Weather Cond. Partly cloudy Ext'l Amb. Temp. °C (prior sampling event) 5°

Time	<u>0638</u>	Gal. Purged	<u>180</u>
Conductance	<u>0.2</u>	pH	<u>6.40</u>
Temp. °C	<u>15.43</u>		
Redox Potential Eh (mV)	<u>421</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 Lab

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:

 See instruction

Comment

Arrived on site at 0610. Rinsate began at 0615. Pumped 50 Gallons Acid water 50 Gallons Soap water and 100 Gallons of DI water. Rinsate ended and samples were collected at 0640. Left site at 0645.

TWN-13R 04-18-2012 Do not touch this cell (SheetName)



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



Attachment 1
 See instruction

Description of Sampling Event: 2nd Quarter Nitrate 2012

Location (well name): TWN-14

Sampler Name and initials: Tanner Holliday/TH

Date and Time for Purging: 4/19/2012

and Sampling (if different): 4/20/2012

Well Purging Equip Used: pump or bailer

Well Pump (if other than Bennet): Grundfos

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: 62.55

Casing Volume (V) 4" Well: 47.30 (.653h)
 3" Well: 0 (.367h)

Conductance (avg): 1021

pH of Water (avg): 7.91

Well Water Temp. (avg): 15.13

Redox Potential (Eh): 188

Turbidity: 42.3

Weather Cond.: Cloudy

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

Time	<u>1042</u>	Gal. Purged	<u>57</u>
Conductance	<u>1021</u>	pH	<u>7.91</u>
Temp. °C	<u>15.13</u>		
Redox Potential Eh (mV)	<u>188</u>		
Turbidity (NTU)	<u>42.3</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 Lab

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:

 See instruction

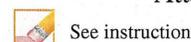
Comment

Arrived on site at 1034 Tanner and Garrin present for purge. Purge began at 103- Purge well for a total of 4 minutes and 45 seconds.. Purged well dry! water had a slight discolor. Purge ended at 1043. Left site at 1047
 Arrived on site at 0645. Tanner and Garrin present to collect samples. Depth to water was 62.95. samples were bailed at 0650 Left site at 0652

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**ATTACHMENT 1
 WHITE MESA URANIUM MILL
 FIELD DATA WORKSHEET FOR GROUND WATER**



Attachment 1

Description of Sampling Event: 2nd Quarter Nitrate 2012

Location (well name): TWN-15 Sampler Name and initials: Tanner Holliday

Date and Time for Purging 4/19/2012 and Sampling (if different) 4/20/2012

Well Purging Equip Used: pump or bailer Well Pump (if other than Bennet) Grundfos

Sampling Event Quarterly Nitrate Prev. Well Sampled in Sampling Event TWN-15R

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 999 μ MHOS/ cm Well Depth(0.01ft): 155

Depth to Water Before Purging 92.65 Casing Volume (V) 4" Well: 40.71 (.653h)
 3" Well: 0 (.367h)

Conductance (avg) 1568 pH of Water (avg) 7.27

Well Water Temp. (avg) 14.52 Redox Potential (Eh) 369 Turbidity 22.6

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

Time	<u>0659</u>	Gal. Purged	<u>72</u>
Conductance	<u>1568</u>	pH	<u>7.27</u>
Temp. °C	<u>14.52</u>		
Redox Potential Eh (mV)	<u>369</u>		
Turbidity (NTU)	<u>22.6</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 Lab

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:

 See instruction

Comment

Arrived on site at 0648. Tanner and Garrin present for purge. Purge began at 0653. Purged well for a total of 6 minutes. Purged well dry! Purge ended at 0659. Water was mostly clear. Left site at 0704.

Arrived on site at 0623. Tanner and Garrin present to collect samples. Depth to water was 92.15. Samples were bailed at 0627. Left site at 0630.

TWN-15 04-19-2012 Do not touch this cell (SheetName)



**ATTACHMENT 1
 WHITE MESA URANIUM MILL
 FIELD DATA WORKSHEET FOR GROUND WATER**



Attachment 1
 See instruction

Description of Sampling Event: 2nd Quarter Nitrate 2012

Location (well name): TWN-15R

Sampler Name and initials: Tanner Holliday/TH

Date and Time for Purging 4/19/2012

and Sampling (if different) N/A

Well Purging Equip Used: pump or bailer

Well Pump (if other than Bennet) Grundfos

Sampling Event Quarterly Nitrate

Prev. Well Sampled in Sampling Event TWN-06

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) 0.5

pH of Water (avg) 6.53

Well Water Temp. (avg) 17.54

Redox Potential (Eh) 366

Turbidity 0

Weather Cond. Cloudy

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

Time	<u>0633</u>	Gal. Purged	<u>180</u>
Conductance	<u>0.5</u>	pH	<u>6.53</u>
Temp. °C	<u>17.54</u>		
Redox Potential Eh (mV)	<u>366</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 Lab

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:

 See instruction

Comment

Arrived on site at 0612. Rinsate began at 0615. Pumped 50 Gallons of Acid water, 50 Gallons Soap water and 100 Gallons of D.I. water. Rinsate ended and samples collected at 0635. Left site at 0637

TWN-15R 04-19-2012 Do not touch this cell (SheetName)



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



Attachment 1
 See instruction

Description of Sampling Event: 2nd Quarter Nitrate 2012

Location (well name): TWN-16

Sampler Name and initials: Tanner Holliday/TH

Date and Time for Purging: 4/19/2012

and Sampling (if different): N/A

Well Purging Equip Used: pump or bailer

Well Pump (if other than Bennet): Grundfos

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): 100.00

Depth to Water Before Purging: 47.80

Casing Volume (V) 4" Well: 34.08 (.653h)
 3" Well: 0 (.367h)

Conductance (avg): 1854

pH of Water (avg): 7.21

Well Water Temp. (avg): 14.90

Redox Potential (Eh): 304

Turbidity: 2.4

Weather Cond.: Cloudy

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

Time	<u>0958</u>	Gal. Purged	<u>48</u>
Conductance	<u>1860</u>	pH	<u>7.21</u>
Temp. °C	<u>14.90</u>		
Redox Potential Eh (mV)	<u>318</u>		
Turbidity (NTU)	<u>2.4</u>		

Time	<u>0959</u>	Gal. Purged	<u>60</u>
Conductance	<u>1858</u>	pH	<u>7.21</u>
Temp. °C	<u>14.90</u>		
Redox Potential Eh (mV)	<u>303</u>		
Turbidity (NTU)	<u>2.5</u>		

Time	<u>1000</u>	Gal. Purged	<u>72</u>
Conductance	<u>1853</u>	pH	<u>7.21</u>
Temp. °C	<u>14.90</u>		
Redox Potential Eh (mV)	<u>299</u>		
Turbidity (NTU)	<u>2.5</u>		

Time	<u>1001</u>	Gal. Purged	<u>84</u>
Conductance	<u>1848</u>	pH	<u>7.21</u>
Temp. °C	<u>14.90</u>		
Redox Potential Eh (mV)	<u>296</u>		
Turbidity (NTU)	<u>2.5</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 Lab

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:

 See instruction

Comment

Arrived on site at 0950 Tanner and Garrin present for purge and sampling event. Purge began at 0954. Purged well for a total of 7 minutes. water was clear. Purge ended and samples collected at 1001. Depth to water was 49.34. Left site at 1004.

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



Attachment 1
 See instruction

Description of Sampling Event: 2nd Quarter Nitrate 2012

Location (well name): TWN-17 Sampler Name and initials: Tanner Holliday/TH

Date and Time for Purging: 4/19/2012 and Sampling (if different): 4/20/2012

Well Purging Equip Used: pump or bailer Well Pump (if other than Bennet): Grundfos

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: 33.90 Casing Volume (V) 4" Well: 49.69 (.653h)
 3" Well: 0 (.367h)

Conductance (avg): 1135 pH of Water (avg): 7.47

Well Water Temp. (avg): 15.09 Redox Potential (Eh): 360 Turbidity: 77.1

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

Time	<u>1254</u>	Gal. Purged	<u>78</u>
Conductance	<u>1135</u>	pH	<u>7.47</u>
Temp. °C	<u>15.09</u>		
Redox Potential Eh (mV)	<u>360</u>		
Turbidity (NTU)	<u>77.1</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 Lab

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:

 See instruction

Comment

Arrived on site at 1244 Tanner and Garrin present for purge. purge began at 1248. Purged well for a total of 6 minutes and 30 seconds. Purged well dry! Purge ended at 1254. water had a slight discolor. Left site at 1258
Arrived on site at 0653, Tanner and Garrin present to collect samples. Depth to water was 34.85. samples were bailed at 0656. Left site at 0658

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



Attachment 1
See instruction

Description of Sampling Event: 2nd Quarter Nitrate 2012

Location (well name): TWN-18 Sampler Name and initials: Tanner Holliday/TH

Date and Time for Purging: 4/19/2012 and Sampling (if different): N/A

Well Purging Equip Used: pump or bailer Well Pump (if other than Bennet): Grundfos

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): 145.00

Depth to Water Before Purging: 57.70 Casing Volume (V) 4" Well: 57.00 (.653h)
3" Well: 0 (.367h)

Conductance (avg): 2163 pH of Water (avg): 7.17

Well Water Temp. (avg): 14.34 Redox Potential (Eh): 339 Turbidity: 44

Weather Cond.: Cloudy Ext'l Amb. Temp. °C (prior sampling event): 5°

Time	<u>0842</u>	Gal. Purged	<u>96</u>
Conductance	<u>2159</u>	pH	<u>7.17</u>
Temp. °C	<u>14.33</u>		
Redox Potential Eh (mV)	<u>345</u>		
Turbidity (NTU)	<u>44.2</u>		

Time	<u>0843</u>	Gal. Purged	<u>108</u>
Conductance	<u>2162</u>	pH	<u>7.18</u>
Temp. °C	<u>14.35</u>		
Redox Potential Eh (mV)	<u>345</u>		
Turbidity (NTU)	<u>45.1</u>		

Time	<u>0844</u>	Gal. Purged	<u>120</u>
Conductance	<u>2165</u>	pH	<u>7.18</u>
Temp. °C	<u>14.35</u>		
Redox Potential Eh (mV)	<u>336</u>		
Turbidity (NTU)	<u>44.6</u>		

Time	<u>0845</u>	Gal. Purged	<u>132</u>
Conductance	<u>2167</u>	pH	<u>7.18</u>
Temp. °C	<u>14.35</u>		
Redox Potential Eh (mV)	<u>335</u>		
Turbidity (NTU)	<u>44.7</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 Lab

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified)	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:

 See instruction

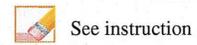
Comment

Arrived on site at 0830 Tanner and Garrin present for purge and sampling event. Purge began at 0834. Purged well for a total of 11 minutes. Water was mostly clear. Purge ended and samples collected at 0845. Left site at 0849
Depth to water was 59.73

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**ATTACHMENT 1
 WHITE MESA URANIUM MILL
 FIELD DATA WORKSHEET FOR GROUND WATER**



Attachment 1

Description of Sampling Event: 2nd Quarter Nitrate 2012

Location (well name): TWN-19 Sampler Name and initials: Tanner Holliday / TH

Date and Time for Purging: 4/19/2012 and Sampling (if different): N/A

Well Purging Equip Used: pump or bailer Well Pump (if other than Bennet): Grundfos

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 μMHOS/ cm Well Depth(0.01ft): 110.00

Depth to Water Before Purging: 52.46 Casing Volume (V) 4" Well: 37.57 (.653h)
 3" Well: 0 (.367h)

Conductance (avg): 1973 pH of Water (avg): 7.39

Well Water Temp. (avg): 15.43 Redox Potential (Eh): 211 Turbidity: 10.6

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

Time	<u>1159</u>	Gal. Purged	<u>48</u>
Conductance	<u>1967</u>	pH	<u>7.40</u>
Temp. °C	<u>15.36</u>		
Redox Potential Eh (mV)	<u>212</u>		
Turbidity (NTU)	<u>10.5</u>		

Time	<u>1200</u>	Gal. Purged	<u>60</u>
Conductance	<u>1973</u>	pH	<u>7.39</u>
Temp. °C	<u>15.38</u>		
Redox Potential Eh (mV)	<u>211</u>		
Turbidity (NTU)	<u>10.6</u>		

Time	<u>1201</u>	Gal. Purged	<u>72</u>
Conductance	<u>1980</u>	pH	<u>7.39</u>
Temp. °C	<u>15.39</u>		
Redox Potential Eh (mV)	<u>212</u>		
Turbidity (NTU)	<u>10.6</u>		

Time	<u>1202</u>	Gal. Purged	<u>89</u>
Conductance	<u>1972</u>	pH	<u>7.40</u>
Temp. °C	<u>15.60</u>		
Redox Potential Eh (mV)	<u>212</u>		
Turbidity (NTU)	<u>10.7</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 Lab

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:

 See instruction

Comment

Arrived on site at 1150 Tanner and Garrin present for purge and sampling event. Purge began at 1155. Purged well for a total of 7 minutes. water was mostly clear. Purge ended and samples were collected at 1202. Depth to water was 106.17 Left site at 1206.

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ATTACHMENT 1
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUND WATER



See instruction

Attachment 1

Description of Sampling Event: 2nd Quarter Nitrate 2012

Location (well name): TWN-60

Sampler Name and initials: Tanner Holliday/TH

Date and Time for Purging: 4/20/2012

and Sampling (if different): N/A

Well Purging Equip Used: pump or bailer

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

Sampling Event: Quarterly Nitrate

Prev. Well Sampled in Sampling Event: TW*

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Piez-01

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): 0.2

pH of Water (avg): 7.55

Well Water Temp. (avg): 18.23

Redox Potential (Eh): 247

Turbidity: 0.5

Weather Cond.: Sunny

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

Time	<u>1329</u>	Gal. Purged	<u>0</u>
Conductance	<u>0.2</u>	pH	<u>7.55</u>
Temp. °C	<u>18.23</u>		
Redox Potential Eh (mV)	<u>247</u>		
Turbidity (NTU)	<u>0.5</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 Lab

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified)	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:

 See instruction

Comment

Arrived in lab at 1319. Samples were taken at 1330
 Left site at 1332

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ATTACHMENT 1
WHITE MESA URANIUM MILL
FIELD DATA WORKSHEET FOR GROUND WATER



Attachment 1
See instruction

Description of Sampling Event: 2nd Quarter Nitrate 2012

Location (well name): TWN-65

Sampler Name and initials: Tanner Holiday/TH

Date and Time for Purging: 4/18/2012

and Sampling (if different): N/A

Well Purging Equip Used: pump or bailer

Well Pump (if other than Bennet): Grundfos

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): 125.70

Depth to Water Before Purging: 40.70

Casing Volume (V) 4" Well: 55.50 (.653h)
3" Well: 0 (.367h)

Conductance (avg): 1033

pH of Water (avg): 7.33

Well Water Temp. (avg): 14.92

Redox Potential (Eh): 233

Turbidity: 118

Weather Cond.: Partly Cloudy

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

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

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

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

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

Volume of Water Purged 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 Lab

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:

 See instruction

Comment

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**ATTACHMENT 1
 WHITE MESA URANIUM MILL
 FIELD DATA WORKSHEET FOR GROUND WATER**



Attachment 1
 See instruction

Description of Sampling Event: 2nd Quarter Nitrate 2012

Location (well name): TWN-70 Sampler Name and initials: Garrin Palmer

Date and Time for Purging 4/19/2012 and Sampling (if different) 4/20/2012

Well Purging Equip Used: pump or bailer Well Pump (if other than Bennet) Grundfos

Sampling Event Quarterly Nitrate Prev. Well Sampled in Sampling Event TWN-16R

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 999 μ MHOS/ cm Well Depth(0.01ft): 155

Depth to Water Before Purging 92.65 Casing Volume (V) 4" Well: 40.71 (.653h)
 3" Well: 0 (.367h)

Conductance (avg) 1568 pH of Water (avg) 7.27

Well Water Temp. (avg) 14.52 Redox Potential (Eh) 369 Turbidity 22.6

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

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 Lab

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified)	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:

 See instruction

Comment

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Tab C

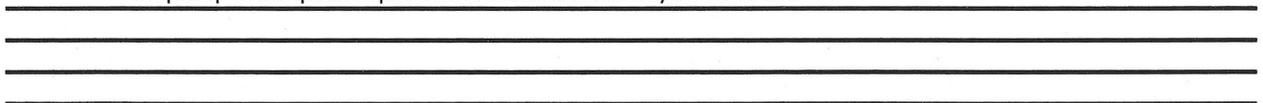
Kriged Current Quarter Groundwater Contour Map and Depth to Water Summary

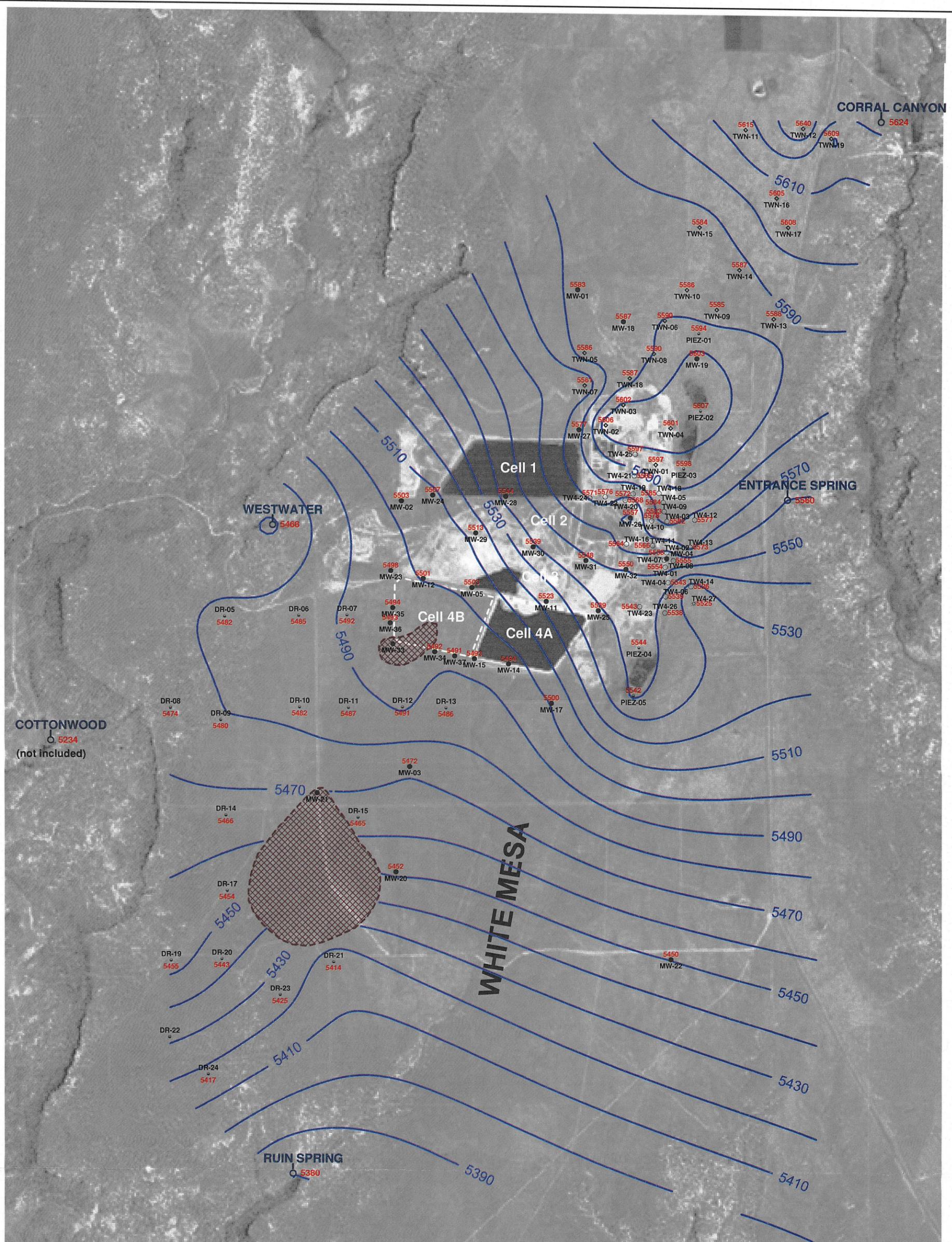
NAME: Tanner Holliday, Garrin Palmer

DATE: 6/28/2012

TIME	WELL	Static level	TIME	WELL	Static Level	TIME	WELL	Static Level	TIME	WELL	Static Level
1019	MW-1	64.66	757	MW-4	71.04	1418	PIEZ-1	61.52	NA	DR-1	ABANDON
1024	MW-2	109.70	800	TW4-1	64.92	1409	PIEZ-2	21.28	NA	DR-2	ABANDON
1359	MW-3	83.20	812	TW4-2	66.85	1411	PIEZ-3	40.29			
1400	MW-3A	85.26	823	TW4-3	50.20	1416	PIEZ-4	47.80			
1101	MW-5	106.45	841	TW4-4	70.00	1413	PIEZ-5	42.80	1234	DR-5	83.2
1104	MW-11	88.15	826	TW4-5	56.78				1241	DR-6	94.37
1058	MW-12	108.63	814	TW4-6	69.98	1430	TWN-1	51.57	1425	DR-7	92.18
1031	MW-14	103.88	849	TW4-7	67.86	1442	TWN-2	21.02	1249	DR-8	51.05
1035	MW-15	106.60	817	TW4-8	66.50	1433	TWN-3	32.83	1246	DR-9	86.69
1408	MW-17	74.66	823	TW4-9	54.75	1457	TWN-4	41.03	1244	DR-10	78.05
915	MW-18	70.28	803	TW4-10	56.34	1444	TWN-5	69.55	1353	DR-11	98.35
924	MW-19	52.08	839	TW4-11	57.80	1437	TWN-6	74.62	1356	DR-12	88.55
1339	MW-20	88.93	814	TW4-12	47.18	1450	TWN-7	88.39	1405	DR-13	70
1345	MW-22	67.10	852	TW4-13	47.17	1454	TWN-8	61.64	1302	DR-14	76.55
1053	MW-23	114.27	820	TW4-14	86.80	1500	TWN-9	62.90	1332	DR-15	93.05
1050	MW-24	114.34	831	TW4-15	68.07	1459	TWN-10	80.82	NA	DR-16	ABANDON
1048	MW-25	73.78	844	TW4-16	60.12	1516	TWN-11	69.41	1305	DR-17	64.9
1035	MW-26	68.16	805	TW4-17	74.92	1515	TWN-12	28.50	NA	DR-18	ABANDON
1040	MW-27	51.00	851	TW4-18	56.61	1503	TWN-13	46.02	1309	DR-19	63.3
1050	MW-28	76.59	808	TW4-19	59.00	1514	TWN-14	62.43	1319.00	DR-20	55.3
1036	MW-29	102.01	853	TW4-20	61.76	1519	TWN-15	92.00	1326	DR-21	107.38
1038	MW-30	75.90	847	TW4-21	54.09	1504	TWN-16	47.85	1329	DR-22	Dry
1036	MW-31	68.00	819	TW4-22	53.38	1507	TWN-17	33.87	1323	DR-23	70.77
1042	MW-32	74.80	809	TW4-23	64.76	1512	TWN-18	58.40	1313	DR-24	43.95
1104	MW-33	DRY	821	TW4-24	54.81	1509	TWN-19	52.50	NA	DR-25	ABANDON
1044	MW-34	108.40	850	TW4-25	47.50						
1055	MW-35	112.50	827	TW4-26	63.45						
1047	MW-36	110.60	830	TW4-27	83.01						
1039	MW-37	108.45									

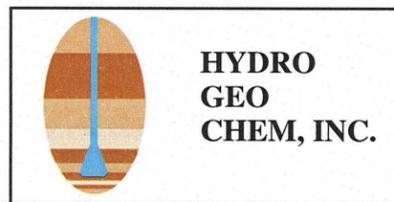
We split up to complete depth checks so some times may be the same.





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



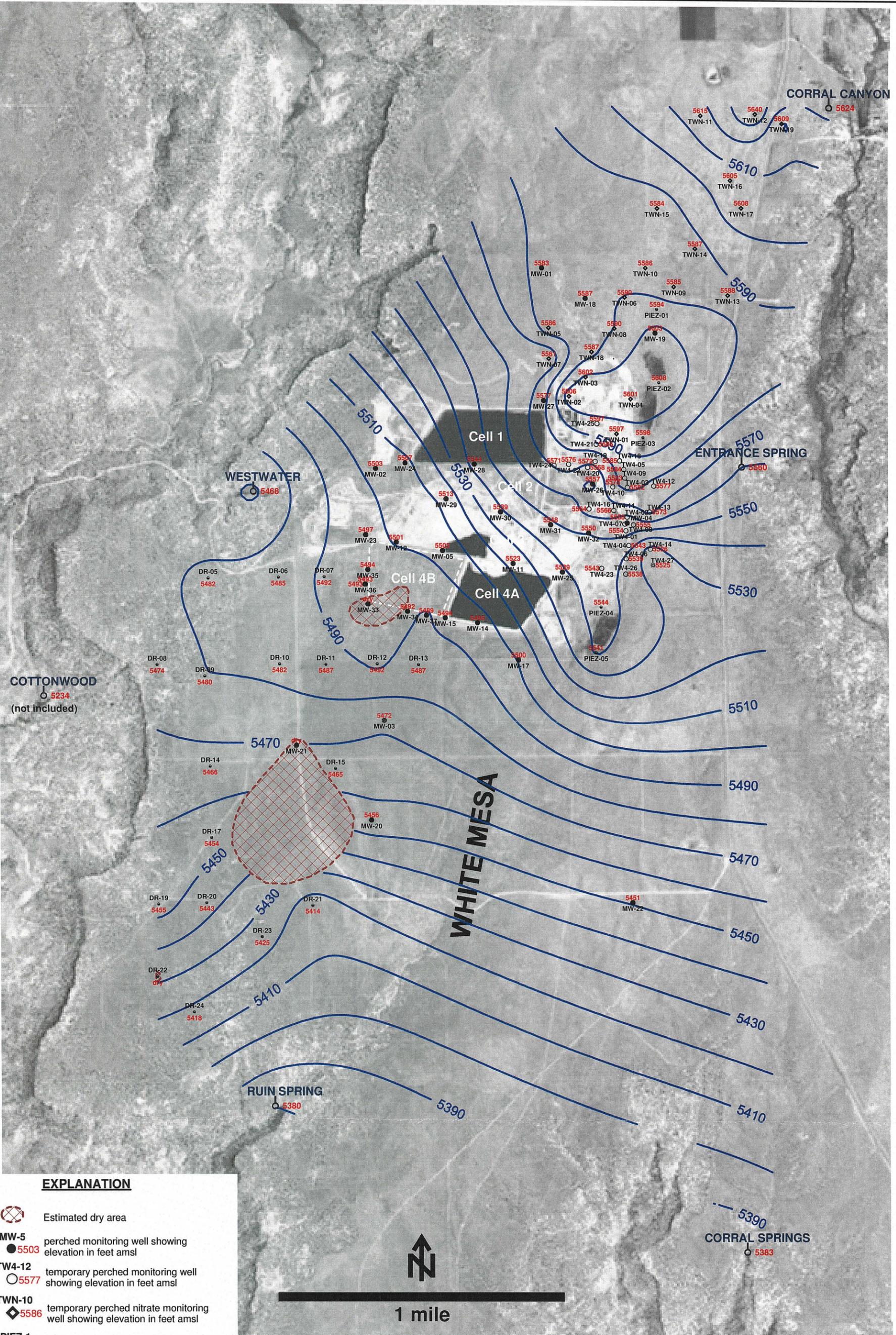
**KRIGED 2nd QUARTER, 2012 WATER LEVELS
WHITE MESA SITE**

APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/aug12/Uw0612_rev.srf	C-1

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

Tab D

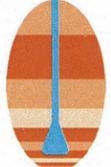
Kriged Previous Quarter Groundwater Contour Map



EXPLANATION

-  Estimated dry area
- MW-5**
 5503 perched monitoring well showing elevation in feet amsl
- TW4-12**
 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
- RUIIN 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



**HYDRO
GEO
CHEM, INC.**

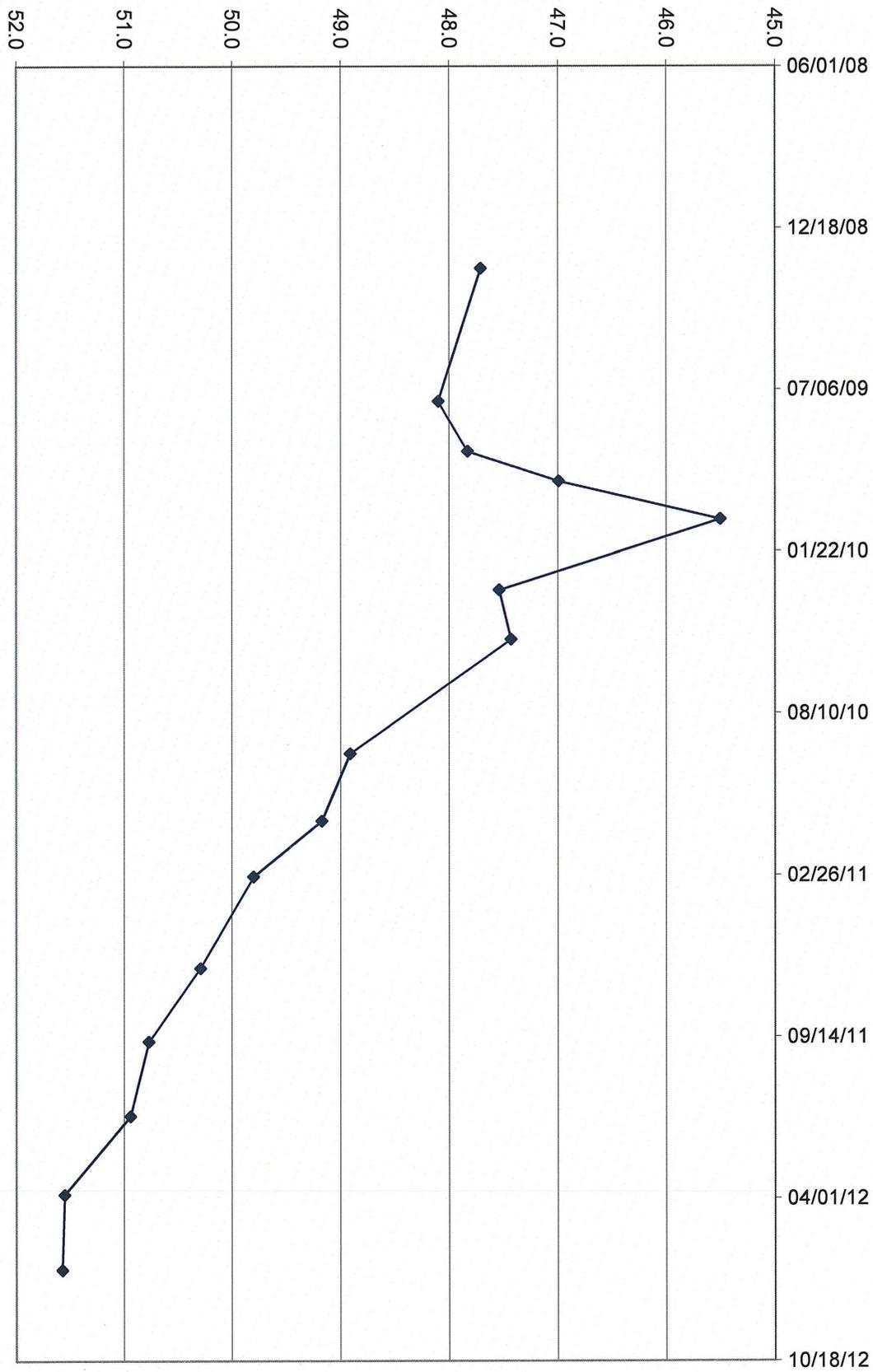
**KRIGED 1st QUARTER, 2012 WATER LEVELS
WHITE MESA SITE**

APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/may12/Uw0312.srf	D-1

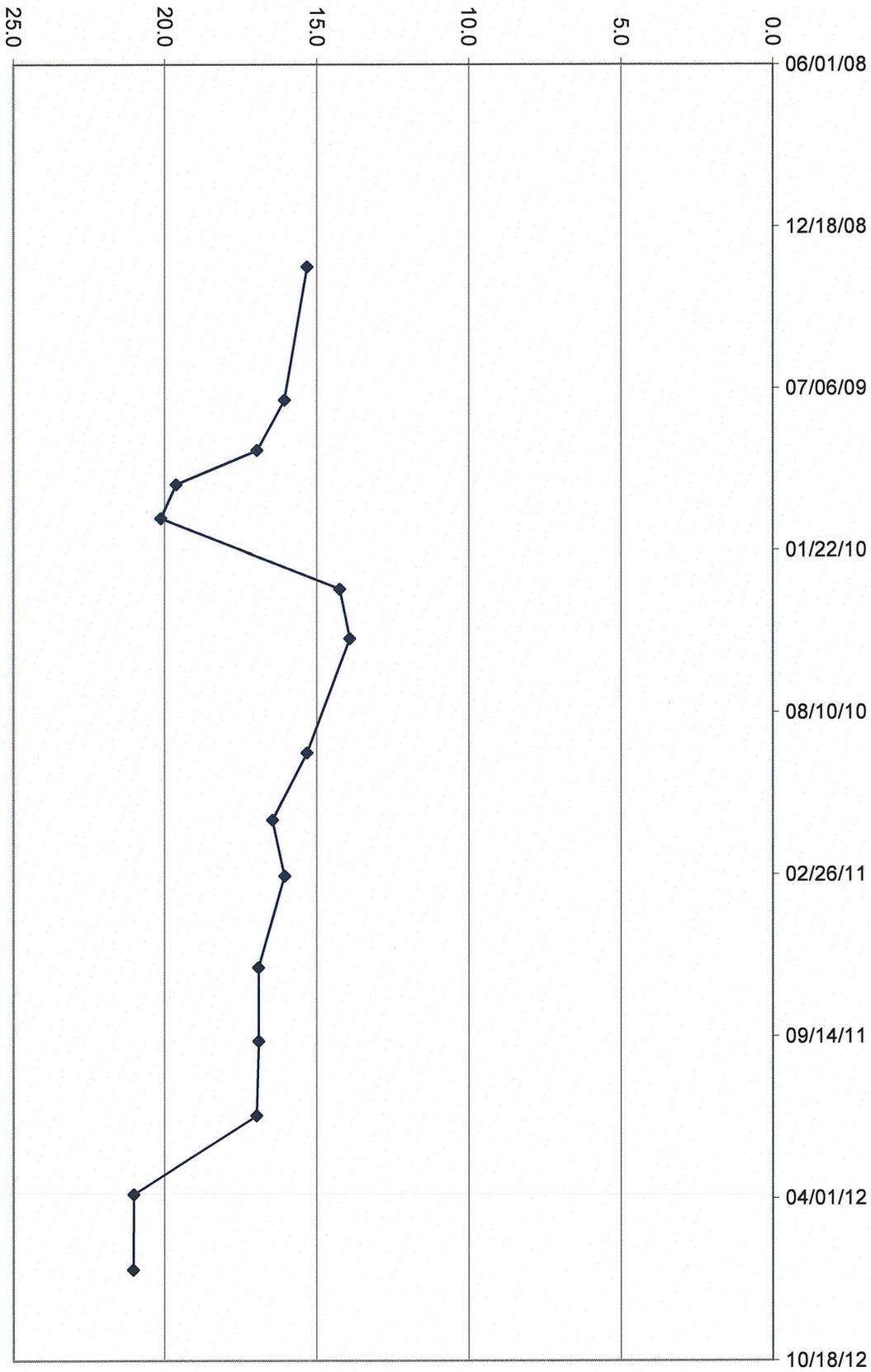
Tab E

Hydrographs of Groundwater Elevations Over Time for Nitrate Monitoring Wells

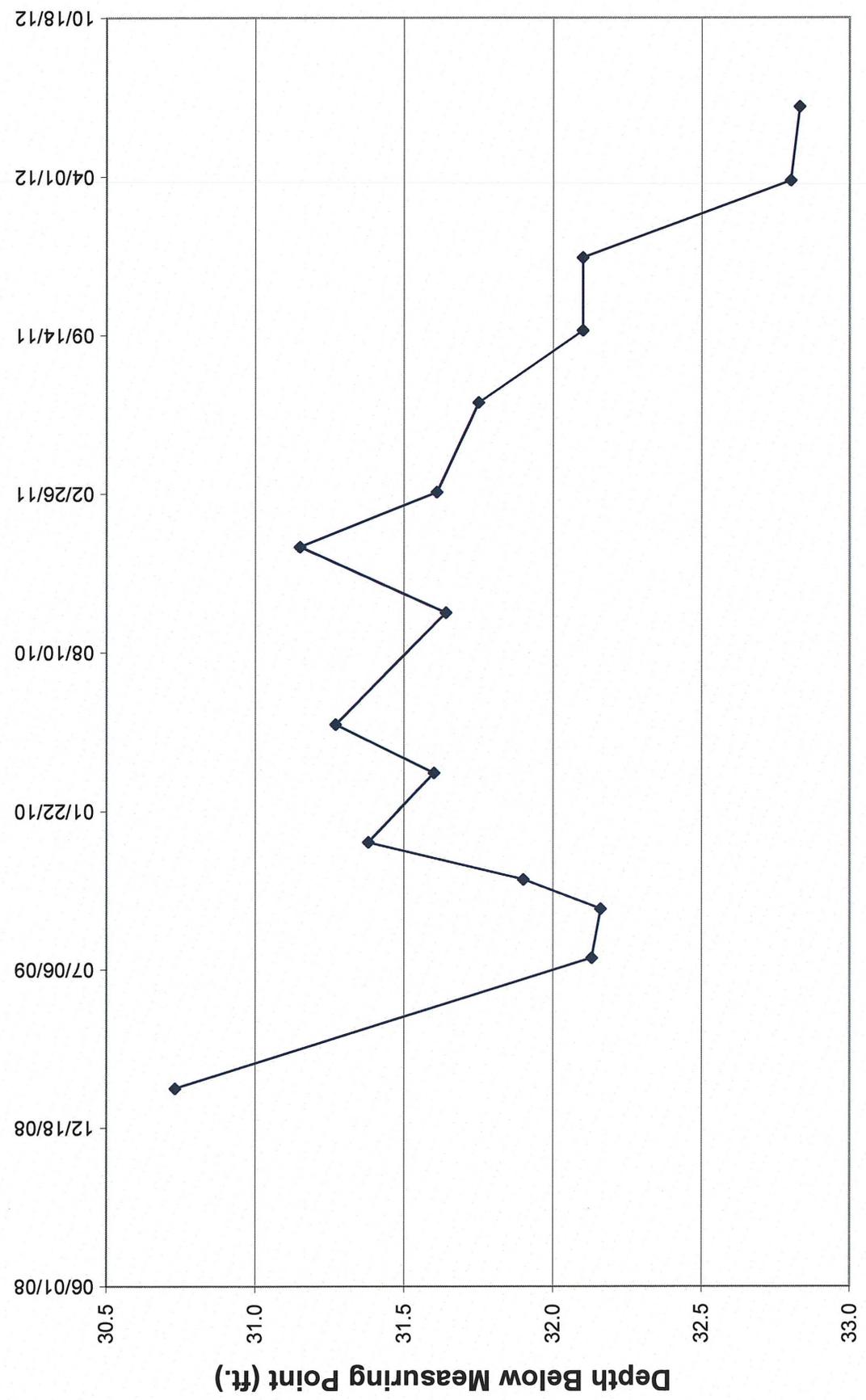
Depth Below Measuring Point (ft.)



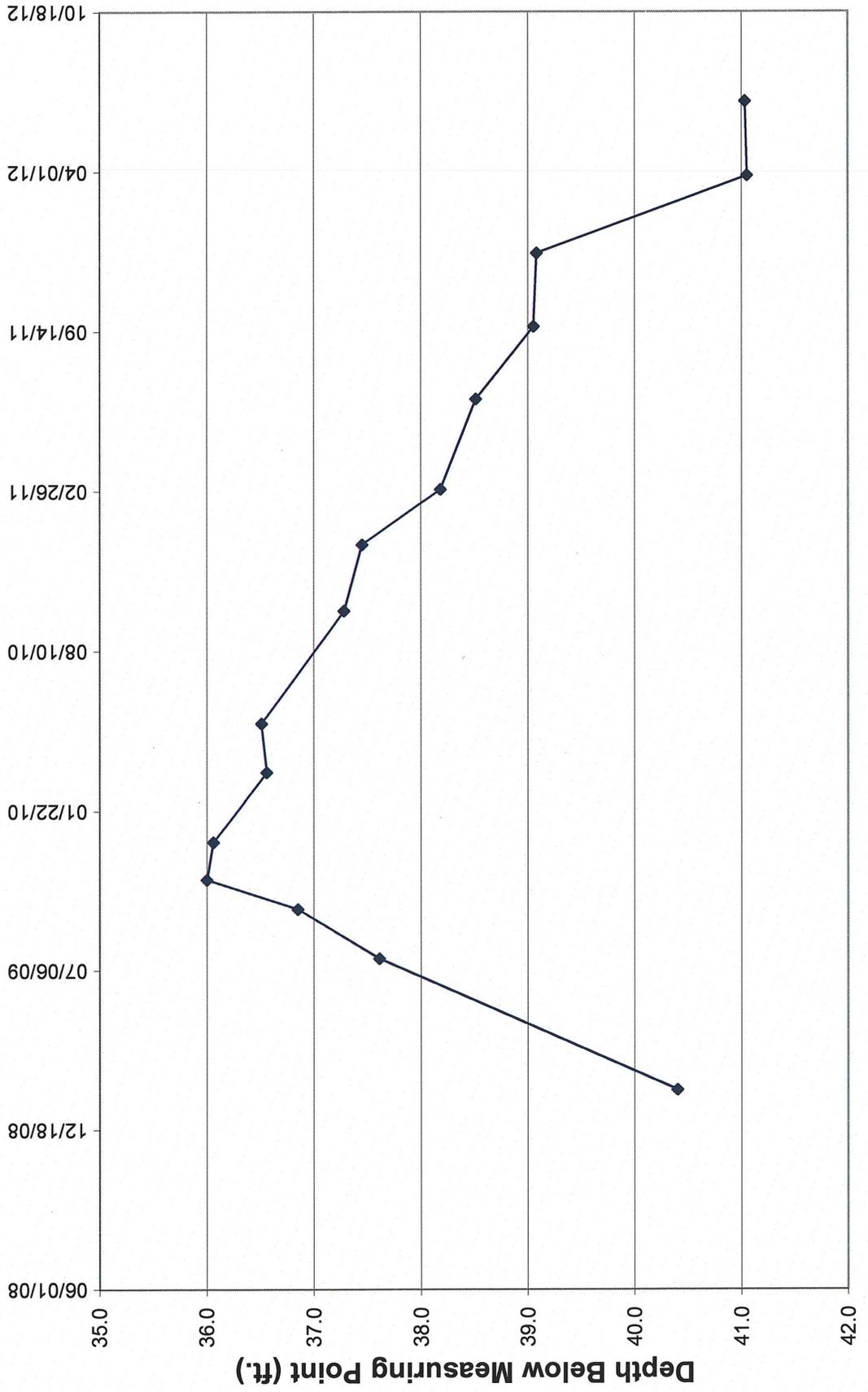
Depth Below Measuring Point (ft.)



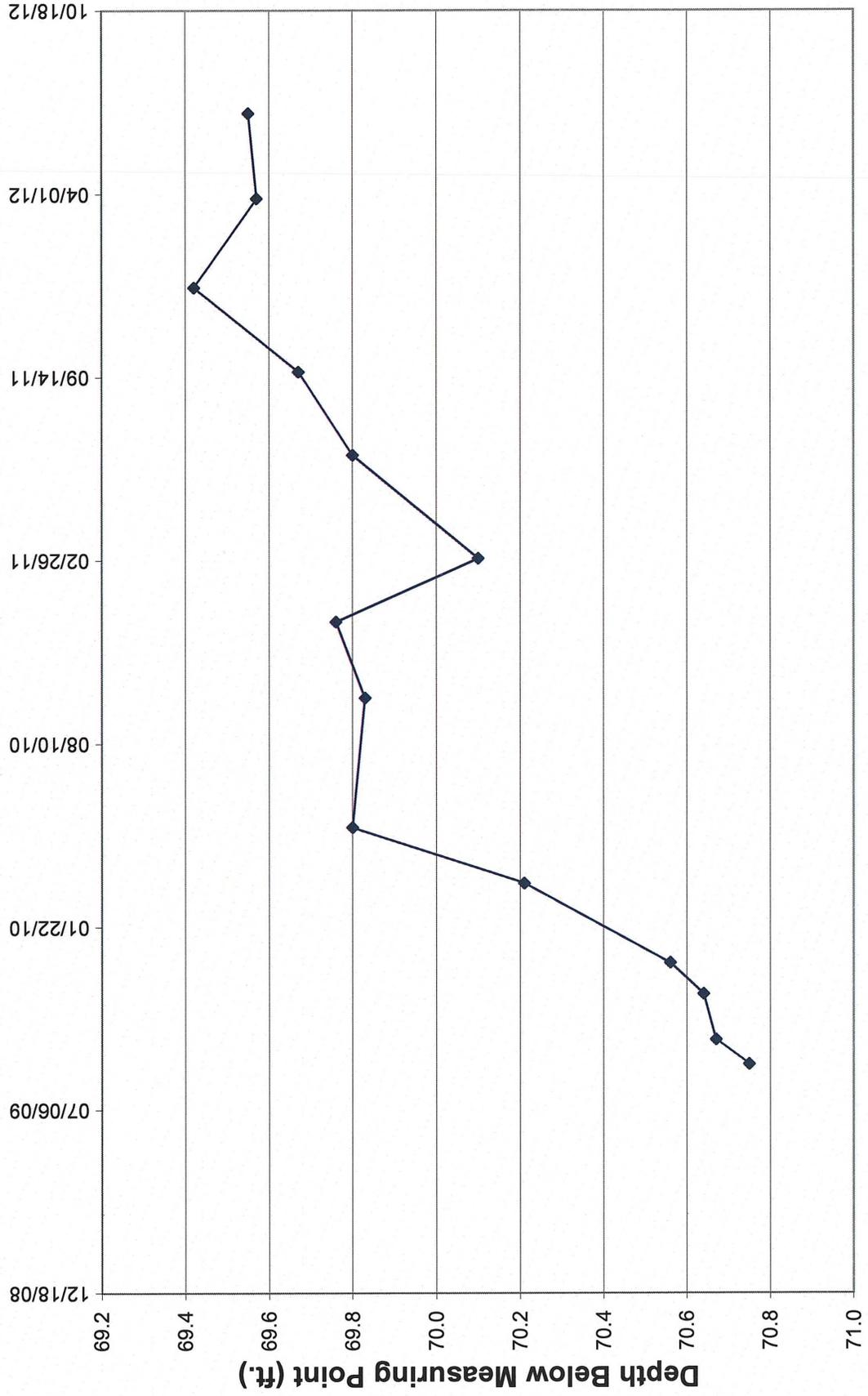
TWN-3 Water Level Over Time (ft. blmp)



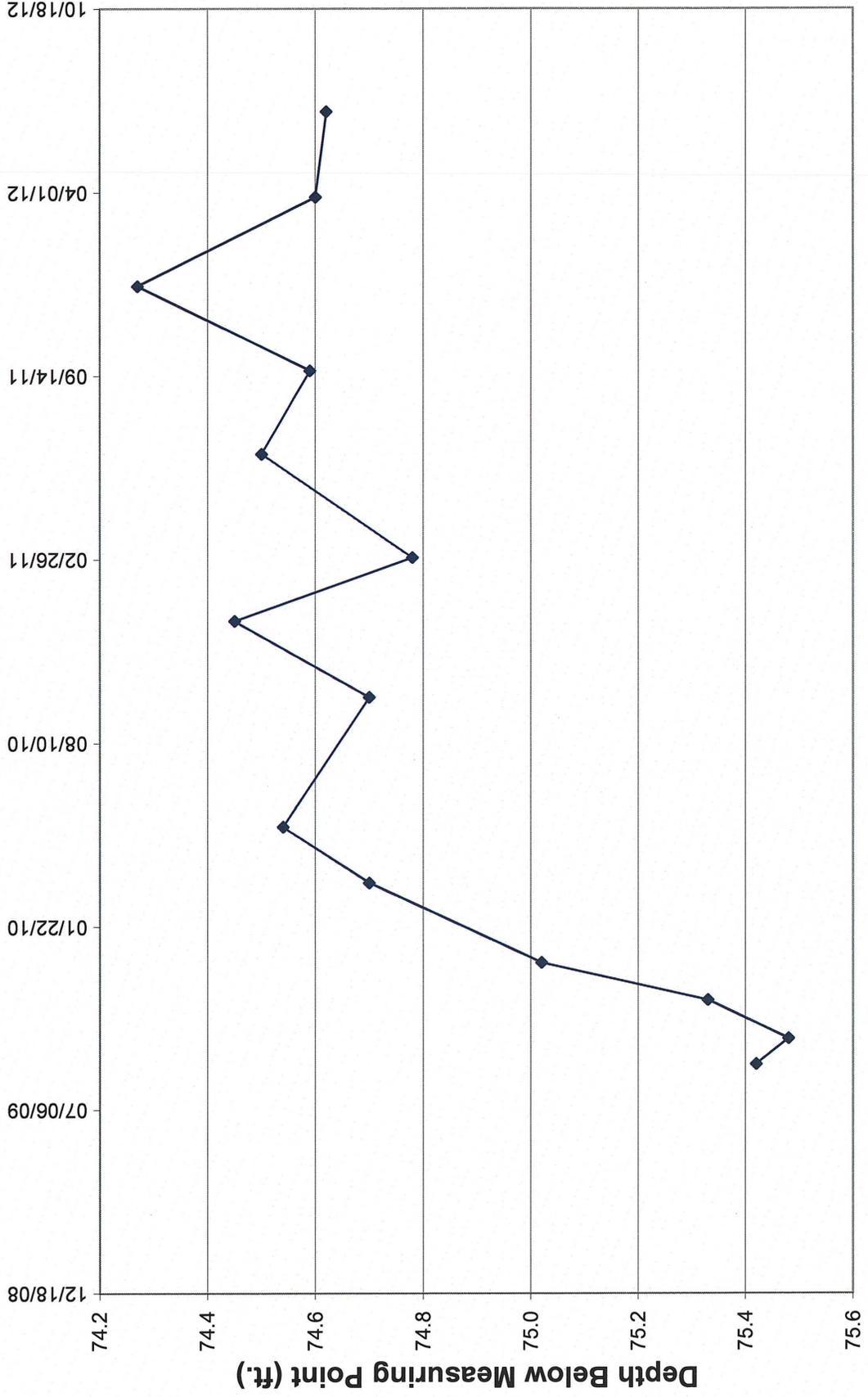
TWN-4 Water Level Over Time (ft. blimp)



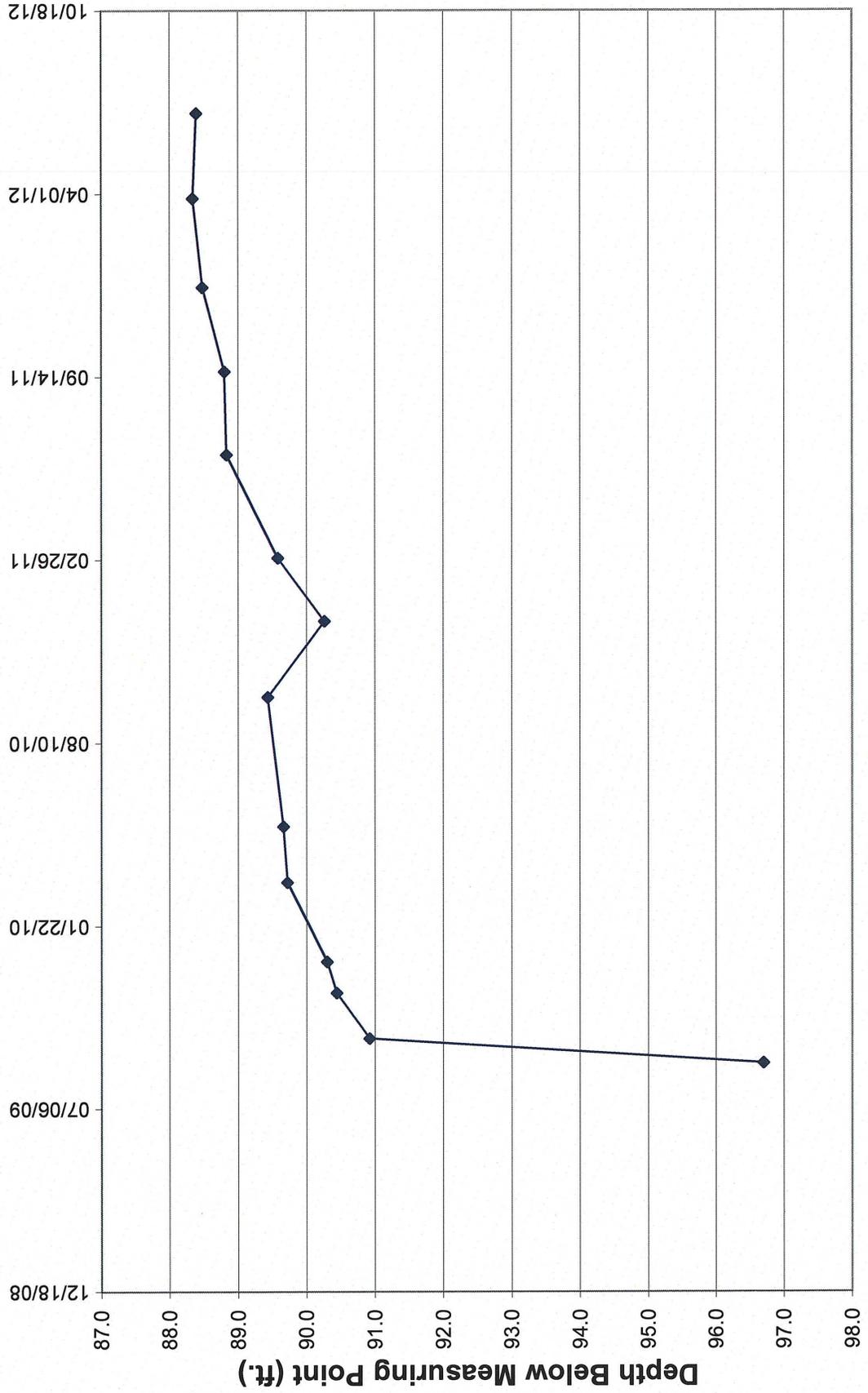
TWN-5 Water Level Over Time (ft. blmp)

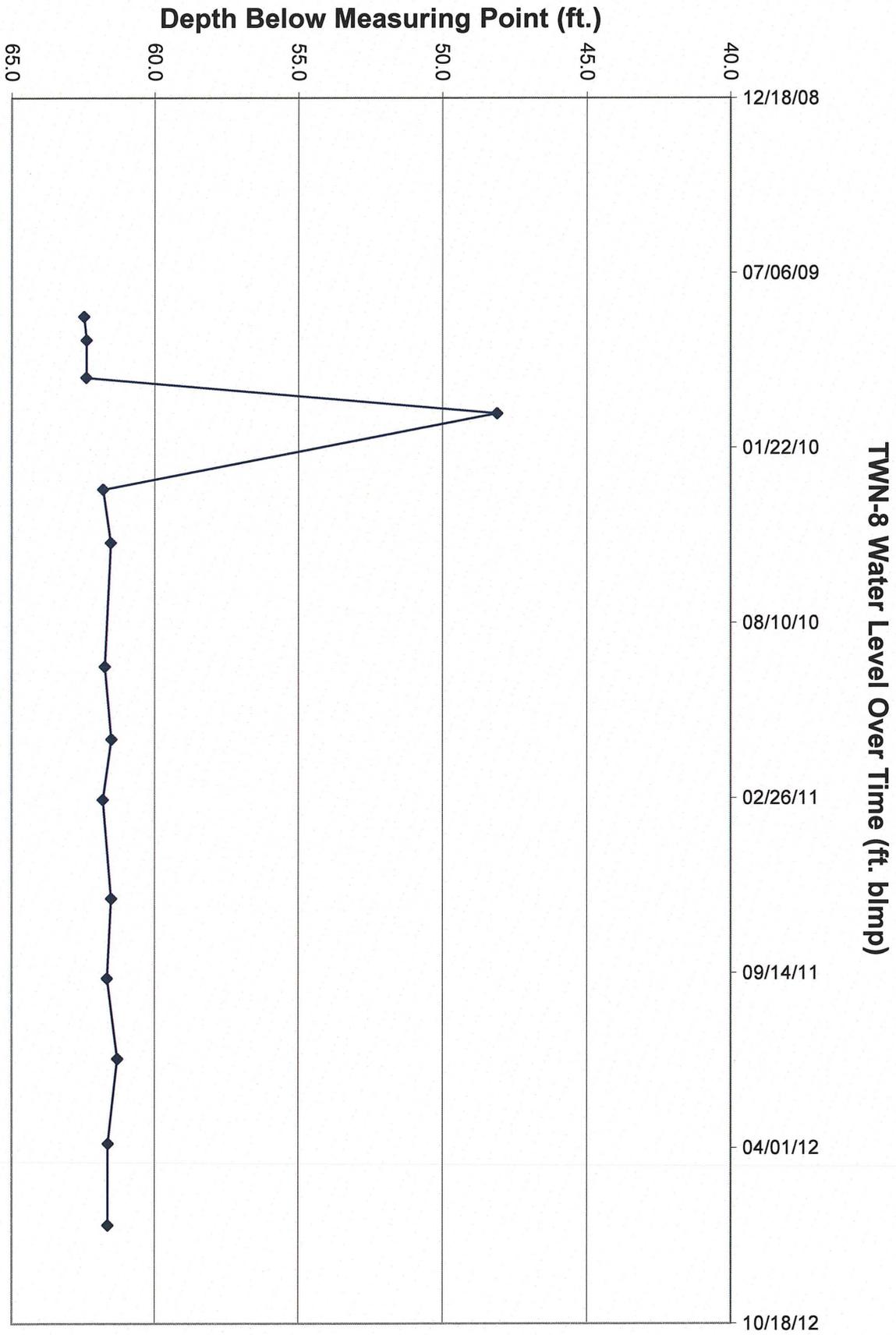


TWN-6 Water Level Over Time (ft. blmp)

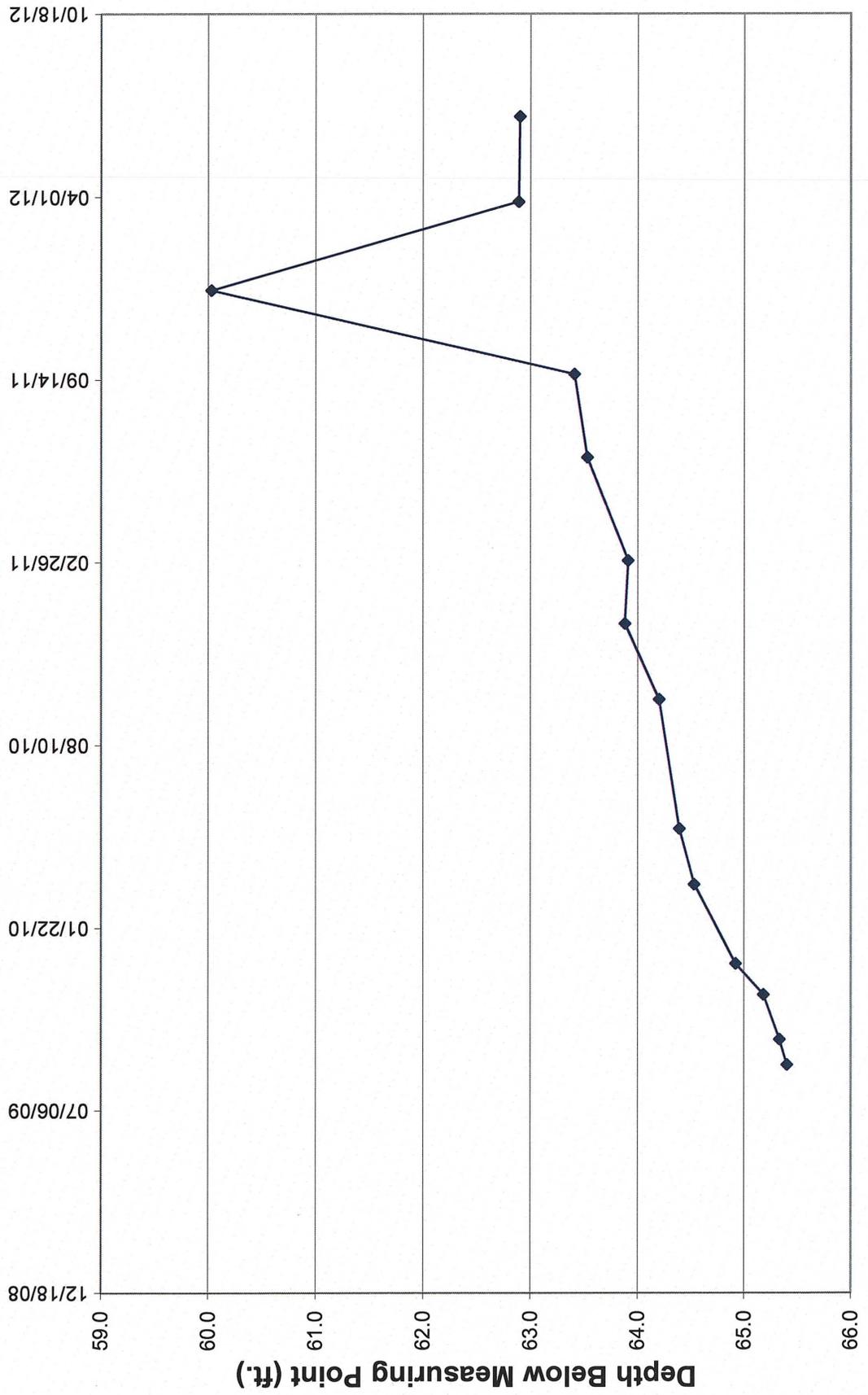


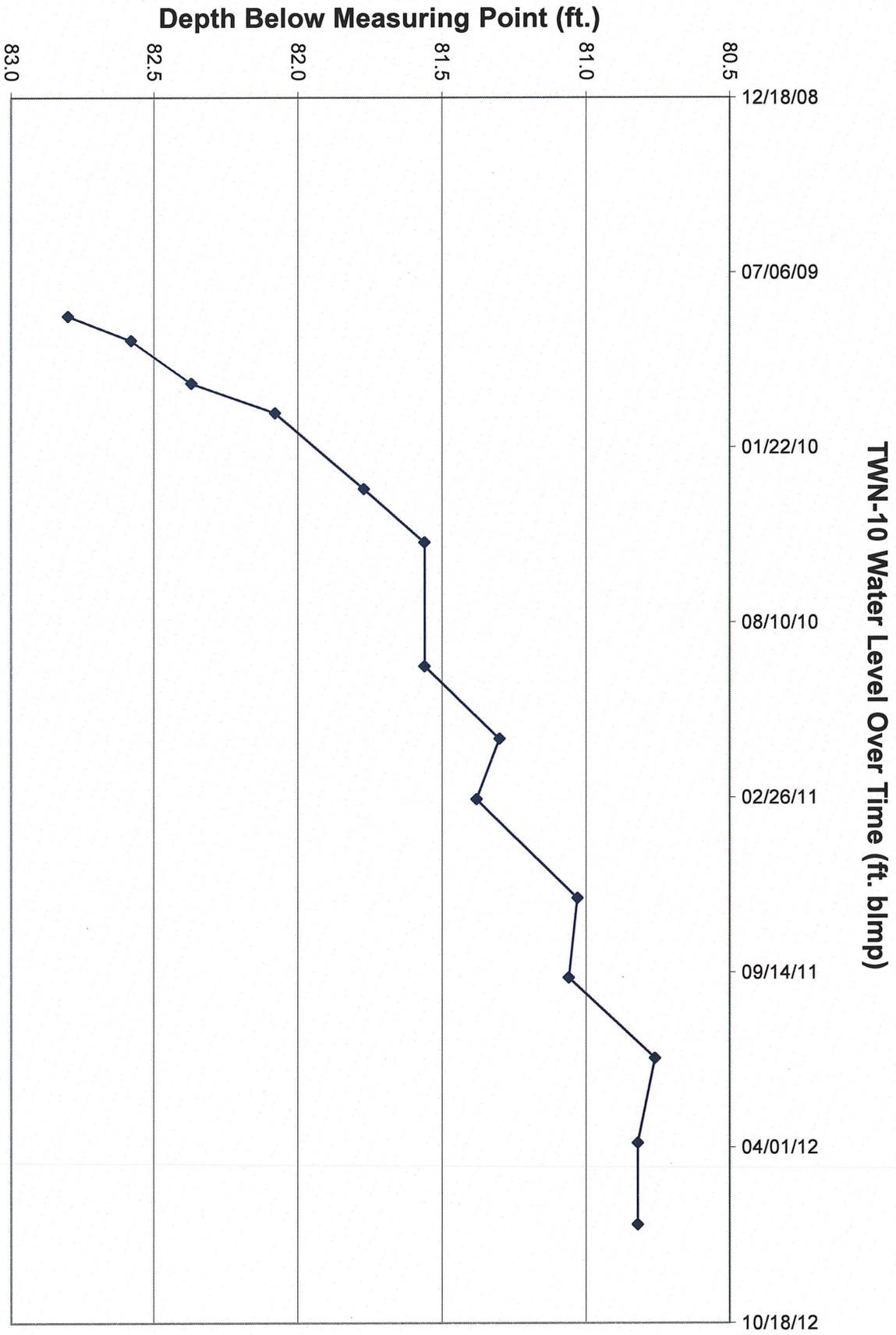
TWN-7 Water Level Over Time (ft. blmp)



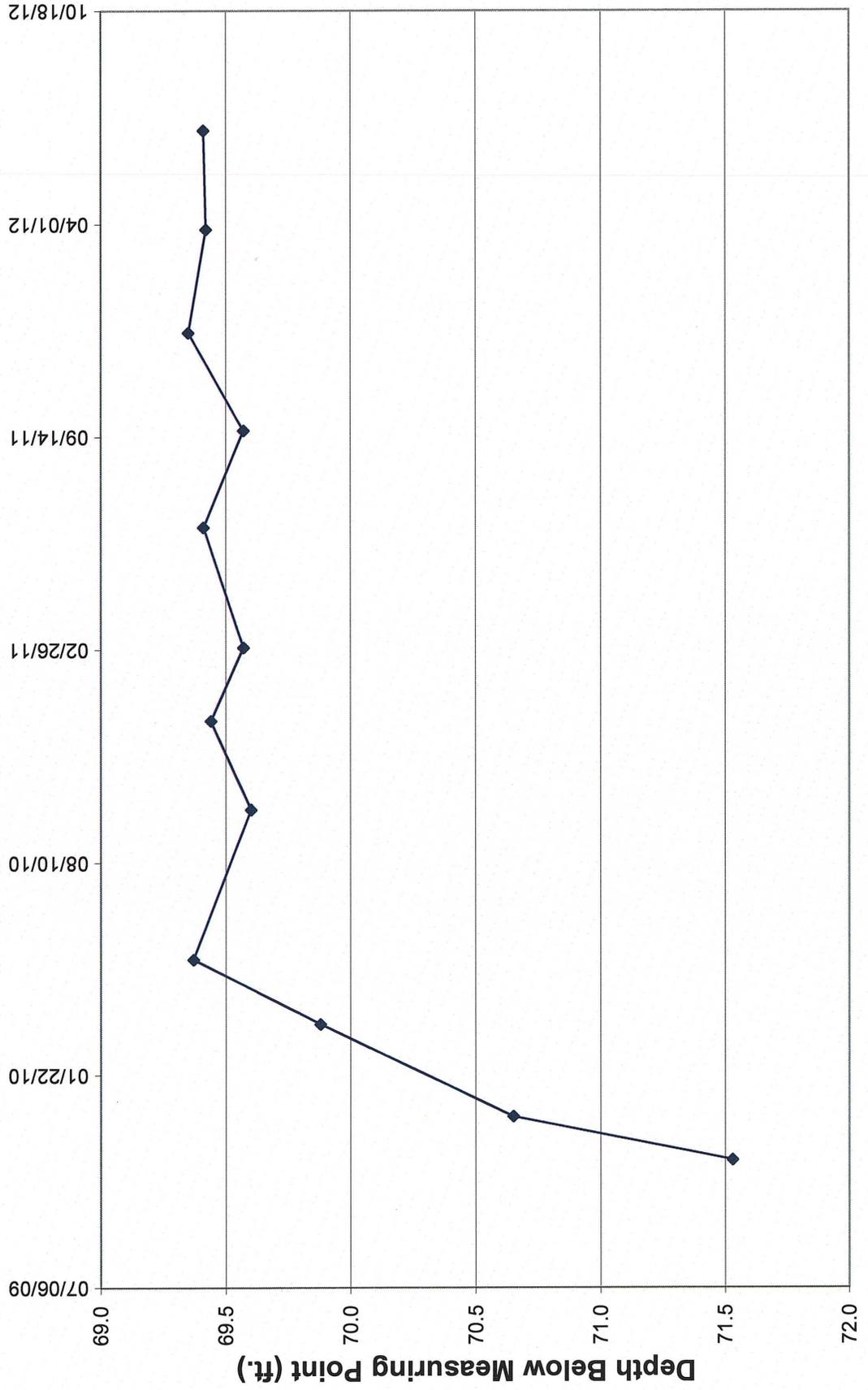


TWN-9 Water Level Over Time (ft. blmp)

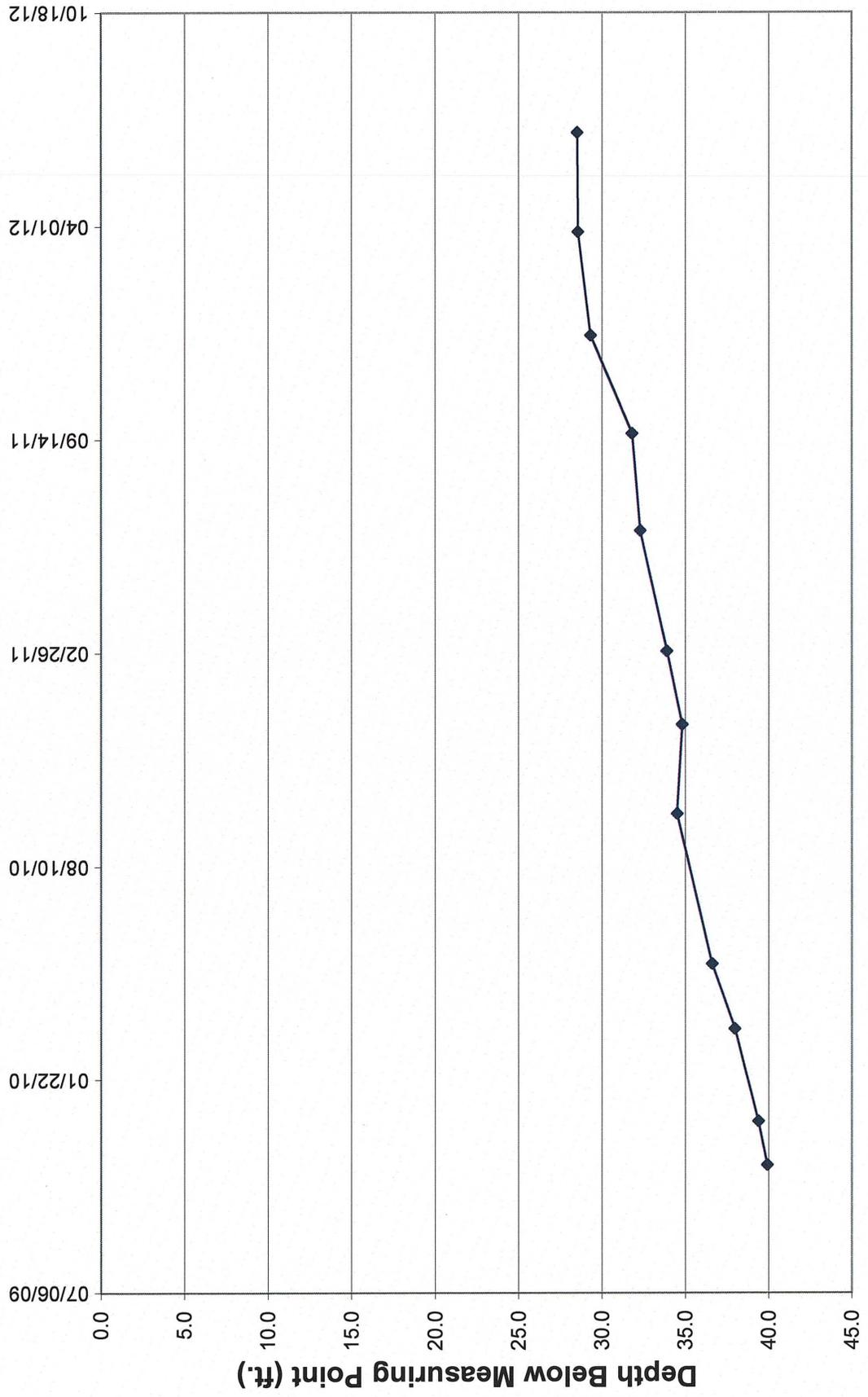




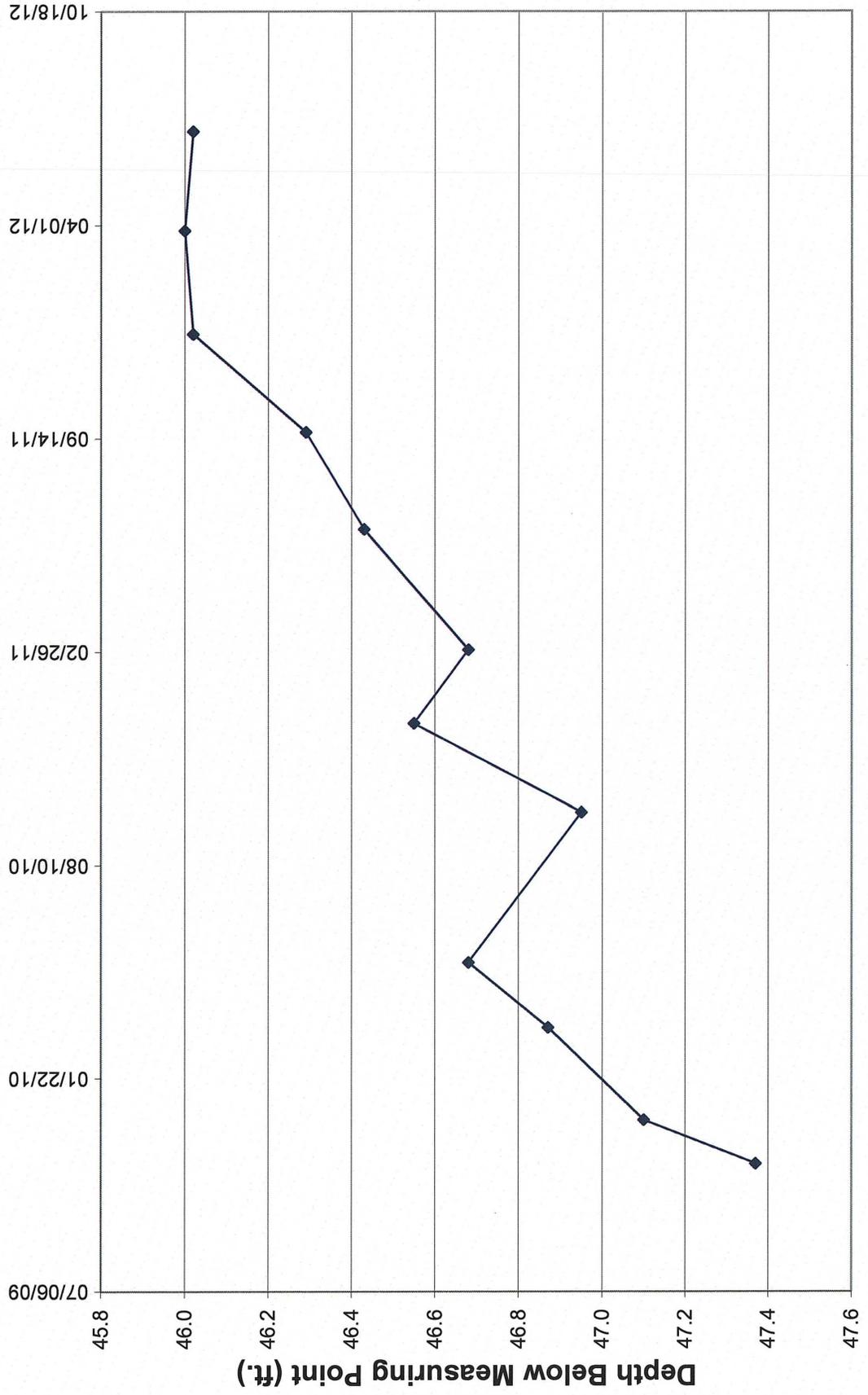
TWN-11 Water Level Over Time (ft. blmp)



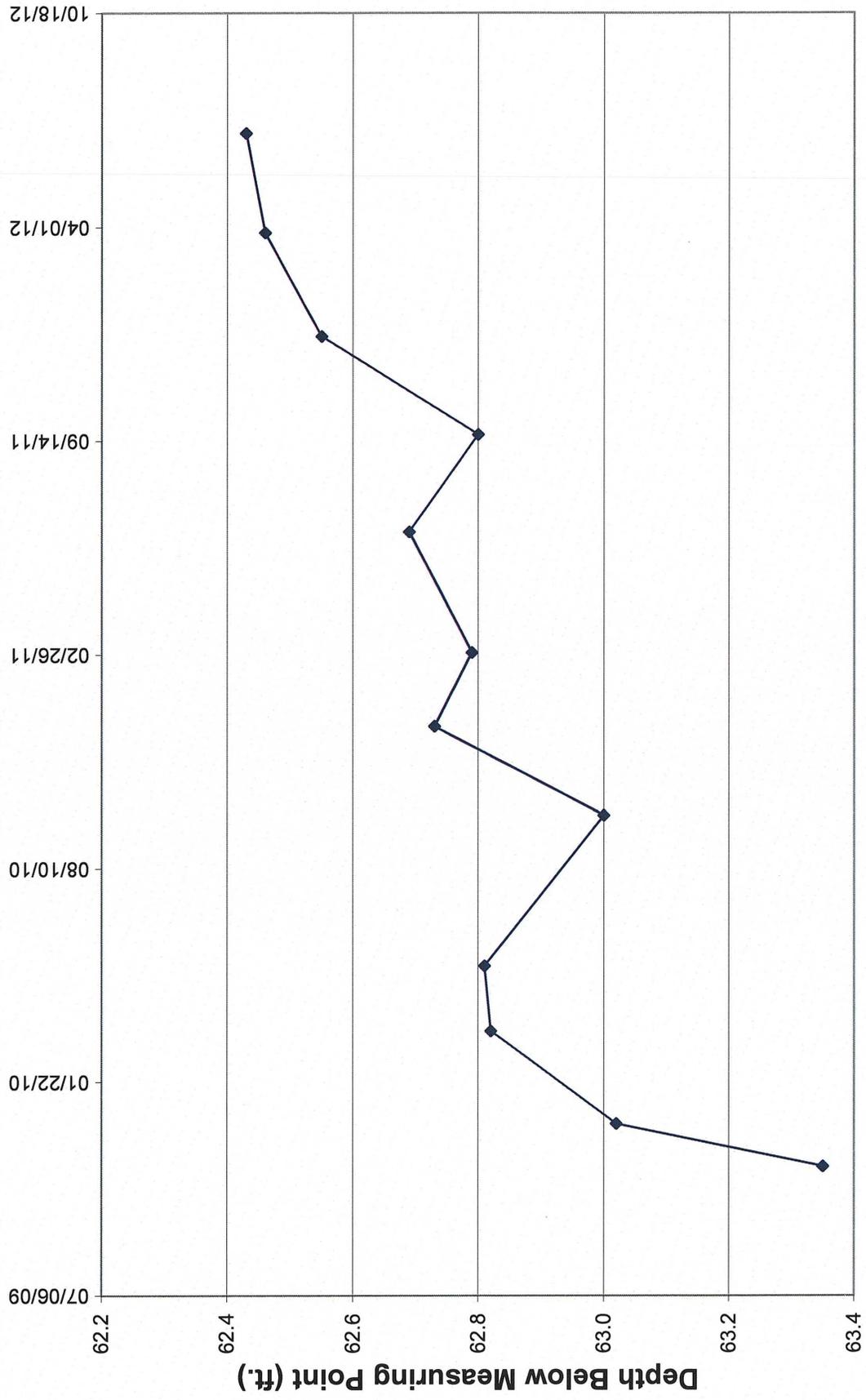
TWN-12 Water Level Over Time (ft. blmp)



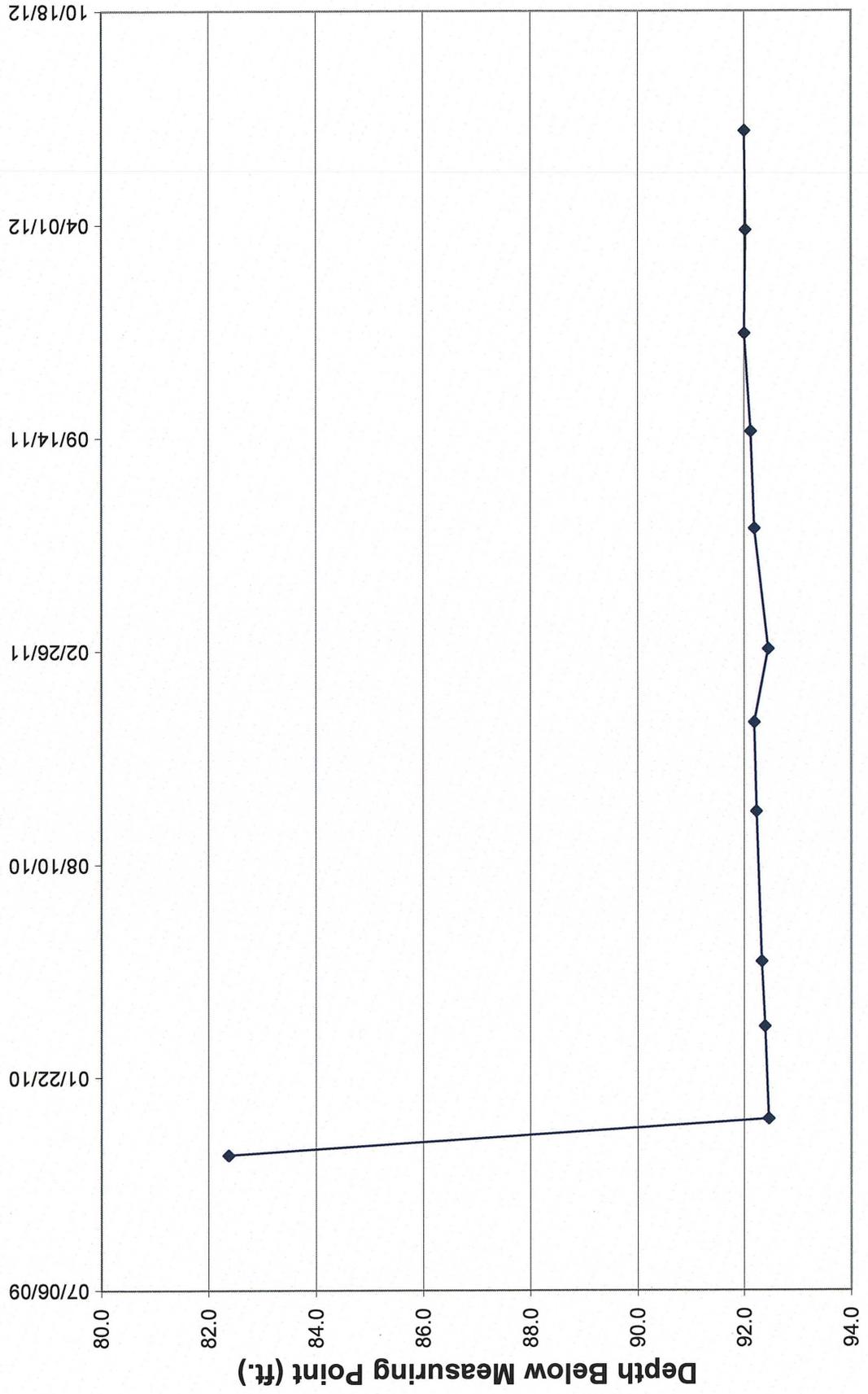
TWN-13 Water Level Over Time (ft. blmp)



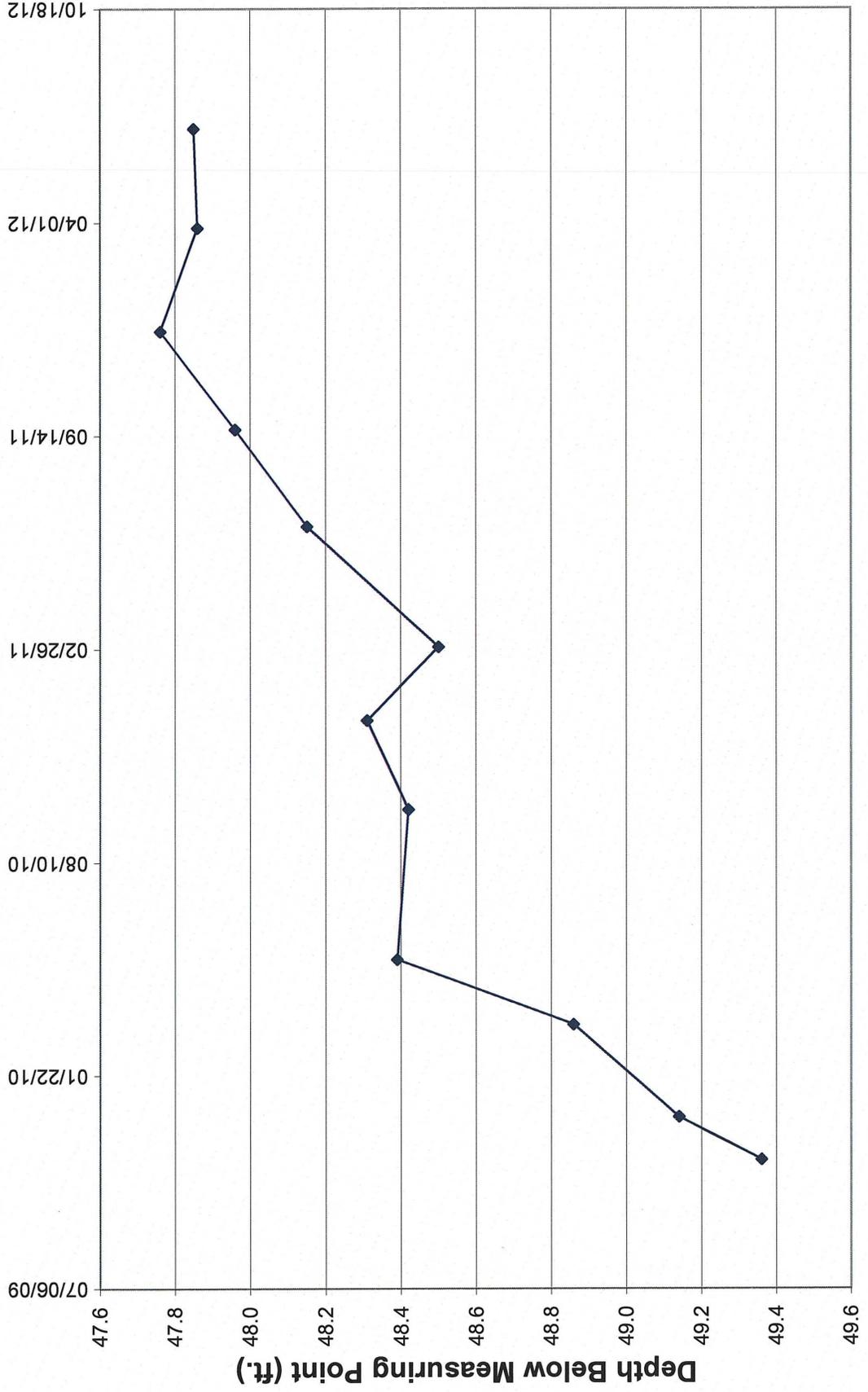
TWN-14 Water Level Over Time (ft. blmp)



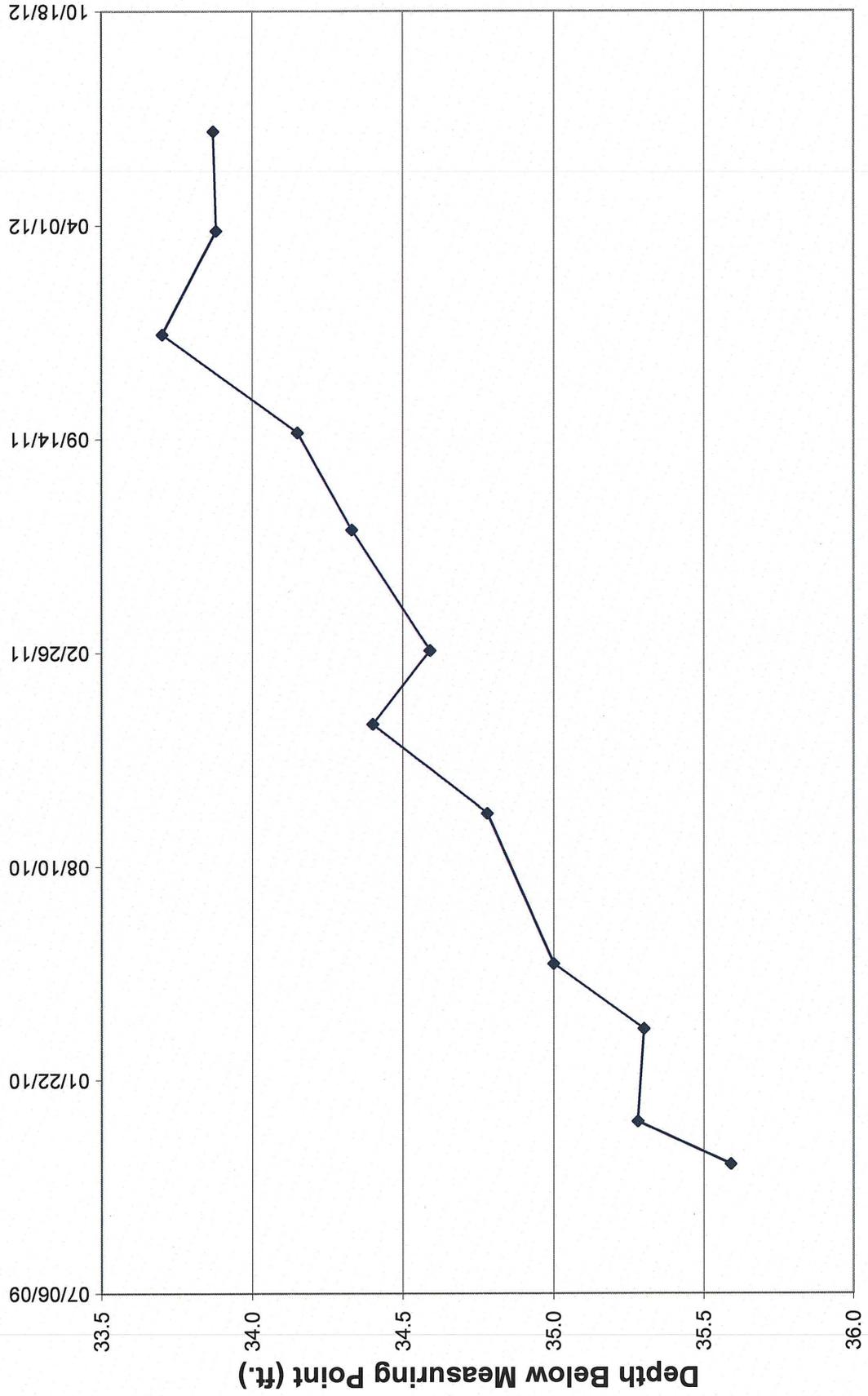
TWN-15 Water Level Over Time (ft. blmp)



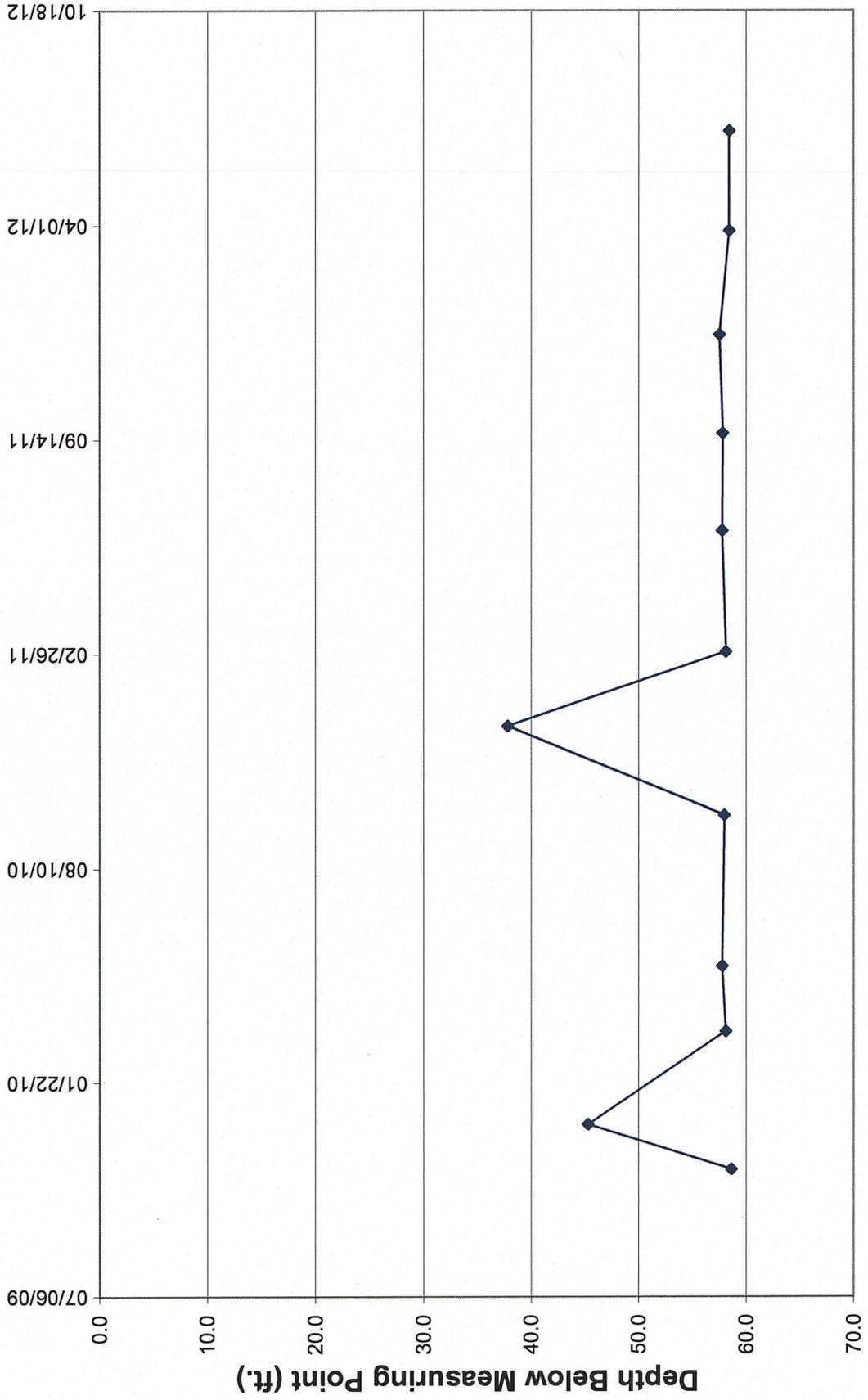
TWN-16 Water Level Over Time (ft. blmp)



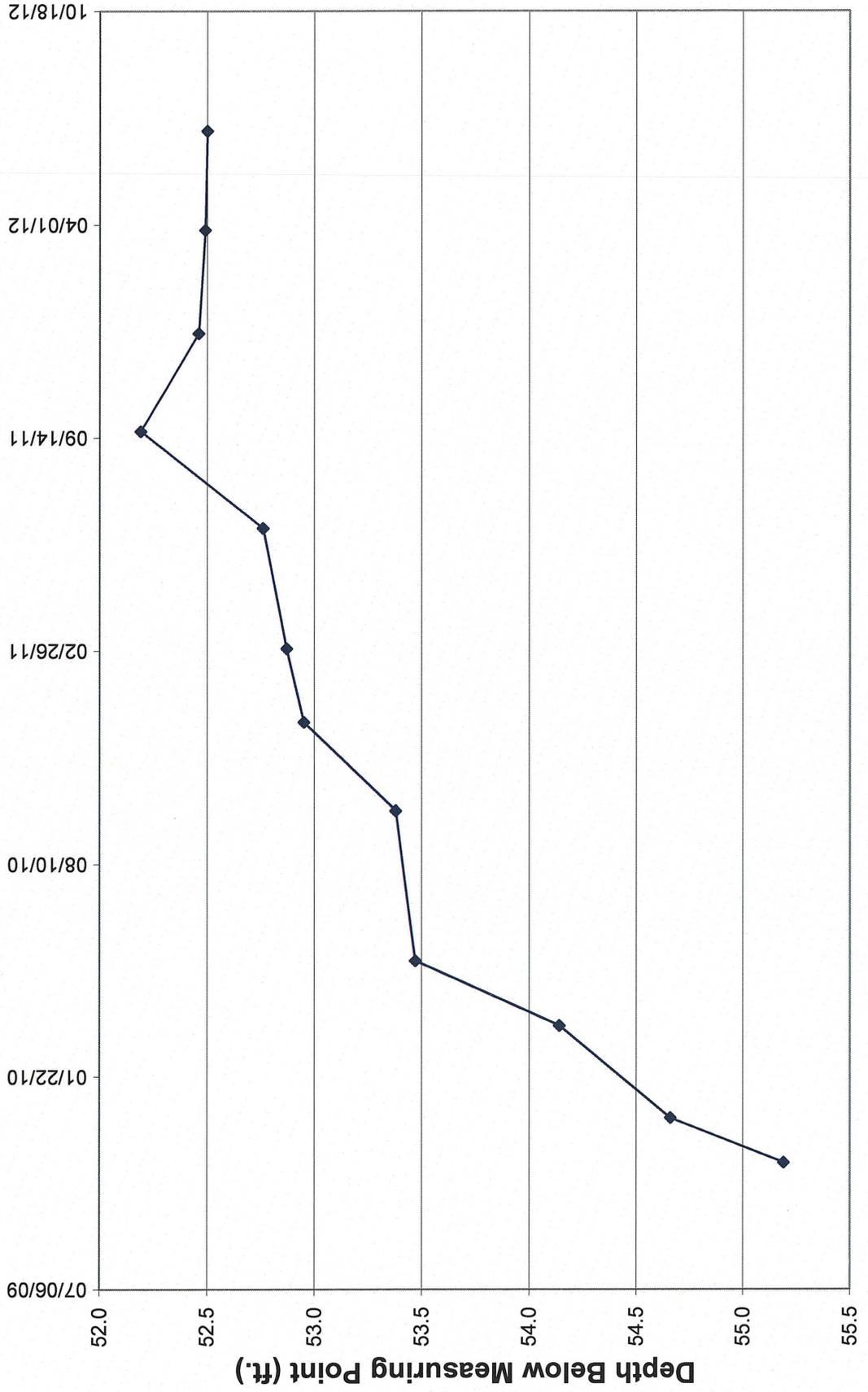
TWN-17 Water Level Over Time (ft. blmp)



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	

**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	

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	

**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	

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	

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	

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	

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	

**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	

**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	

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	

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	

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	

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	

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	

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	

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	

**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	

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	

Tab G

Laboratory Analytical Reports

ANALYTICAL SUMMARY REPORT

May 01, 2012

Denison Mines USA Corp
6425 S Hwy 191
Blanding, UT 84511

Workorder No.: C12041150 Quote ID: C3317 - Nitrate and Chloride Sampling
Project Name: 2nd Quarter Nitrate 2012

Energy Laboratories, Inc. Casper WY received the following 28 samples for Denison Mines USA Corp on 4/24/2012 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C12041150-001	TWN-13_04182012	04/18/12 7:18	04/24/12	Aqueous	Chloride Nitrogen, Nitrate + Nitrite
C12041150-002	TWN-13R_04182012	04/18/12 6:40	04/24/12	Aqueous	Same As Above
C12041150-003	TWN-08_04182012	04/18/12 8:09	04/24/12	Aqueous	Same As Above
C12041150-004	TWN-05_04182012	04/18/12 9:45	04/24/12	Aqueous	Same As Above
C12041150-005	TWN-01_04182012	04/18/12 10:32	04/24/12	Aqueous	Same As Above
C12041150-006	TWN-10_04192012	04/19/12 13:38	04/24/12	Aqueous	Same As Above
C12041150-007	TWN-04_04182012	04/18/12 12:55	04/24/12	Aqueous	Same As Above
C12041150-008	TWN-12_04182012	04/18/12 13:44	04/24/12	Aqueous	Same As Above
C12041150-009	TWN-06_04182012	04/18/12 14:31	04/24/12	Aqueous	Same As Above
C12041150-010	TWN-15_04202012	04/20/12 6:27	04/24/12	Aqueous	Same As Above
C12041150-011	TWN-11_04192012	04/19/12 7:55	04/24/12	Aqueous	Same As Above
C12041150-012	TWN-18_04192012	04/19/12 8:45	04/24/12	Aqueous	Same As Above
C12041150-013	TWN-07_04202012	04/20/12 6:40	04/24/12	Aqueous	Same As Above
C12041150-014	TWN-16_04192012	04/19/12 10:01	04/24/12	Aqueous	Same As Above
C12041150-015	TWN-14_04202012	04/20/12 6:50	04/24/12	Aqueous	Same As Above
C12041150-016	TWN-19_04192012	04/19/12 12:02	04/24/12	Aqueous	Same As Above
C12041150-017	TWN-17_04202012	04/20/12 6:56	04/24/12	Aqueous	Same As Above
C12041150-018	TWN-09_04202012	04/20/12 7:03	04/24/12	Aqueous	Same As Above
C12041150-019	TWN-03_04202012	04/20/12 7:15	04/24/12	Aqueous	Same As Above
C12041150-020	TWN-02_04202012	04/20/12 7:25	04/24/12	Aqueous	Same As Above
C12041150-021	TWN-15R_04192012	04/19/12 6:35	04/24/12	Aqueous	Same As Above
C12041150-022	TWN-60_04202012	04/20/12 13:30	04/24/12	Aqueous	Same As Above
C12041150-023	TWN-65_04182012	04/18/12 12:55	04/24/12	Aqueous	Same As Above
C12041150-024	TWN-70_04202012	04/20/12 6:27	04/24/12	Aqueous	Same As Above
C12041150-025	Piez-01_04202012	04/20/12 13:05	04/24/12	Aqueous	Same As Above
C12041150-026	Piez-02_04202012	04/20/12 12:35	04/24/12	Aqueous	Same As Above
C12041150-027	Piez-03_04202012	04/20/12 12:50	04/24/12	Aqueous	Same As Above



ANALYTICAL SUMMARY REPORT

C12041150-028 Temp Blank 04/24/12 Aqueous Temperature

The analyses presented in this report were performed at Energy Laboratories, Inc., 2393 Salt Creek Hwy., Casper, WY 82601, unless otherwise noted. Radiochemistry analyses were performed at Energy Laboratories, Inc., 2325 Kerzell Lane, Casper, WY 82601, unless otherwise noted. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

The results as reported relate only to the item(s) submitted for testing. Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. Data corrected for moisture content are typically noted as - dry on the report. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

If you have any questions regarding these test results, please call.

Report Approved By:

Stephanie D Waldrop
Reporting Supervisor

Digitally signed by
Stephanie Waldrop
Date: 2012.05.01 16:14:58 -06:00

CLIENT: Denison Mines USA Corp
Project: 2nd Quarter Nitrate 2012
Sample Delivery Group: C12041150

Report Date: 05/01/12

CASE NARRATIVE

ORIGINAL SAMPLE SUBMITTAL(S)

All original sample submittals have been returned with the data package.

SAMPLE TEMPERATURE COMPLIANCE: 4°C (±2°C)

Temperature of samples received may not be considered properly preserved by accepted standards. Samples that are hand delivered immediately after collection shall be considered acceptable if there is evidence that the chilling process has begun.

GROSS ALPHA ANALYSIS

Method 900.0 for gross alpha and gross beta is intended as a drinking water method for low TDS waters. Data provided by this method for non potable waters should be viewed as inconsistent.

RADON IN AIR ANALYSIS

The desired exposure time is 48 hours (2 days). The time delay in returning the canister to the laboratory for processing should be as short as possible to avoid excessive decay. Maximum recommended delay between end of exposure to beginning of counting should not exceed 8 days.

SOIL/SOLID SAMPLES

All samples reported on an as received basis unless otherwise indicated.

ATRAZINE, SIMAZINE AND PCB ANALYSIS

Data for PCBs, Atrazine and Simazine are reported from EPA 525.2. PCB data reported by ELI reflects the results for seven individual Aroclors. When the results for all seven are ND (not detected), the sample meets EPA compliance criteria for PCB monitoring.

SUBCONTRACTING ANALYSIS

Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories will be indicated within the Laboratory Analytical Report.

BRANCH LABORATORY LOCATIONS

eli-b - Energy Laboratories, Inc. - Billings, MT
eli-g - Energy Laboratories, Inc. - Gillette, WY
eli-h - Energy Laboratories, Inc. - Helena, MT
eli-r - Energy Laboratories, Inc. - Rapid City, SD
eli-t - Energy Laboratories, Inc. - College Station, TX

CERTIFICATIONS:

USEPA: WY00002, Radiochemical WY00937; FL-DOH NELAC: E87641, Radiochemical E871017; California: 02118CA; Oregon: WY200001, Radiochemical WY200002; Utah: WY00002; Virginia: 00057; Washington: C836

ISO 17025 DISCLAIMER:

The results of this Analytical Report relate only to the items submitted for analysis.

ENERGY LABORATORIES, INC. - CASPER, WY certifies that certain method selections contained in this report meet requirements as set forth by the above accrediting authorities. Some results requested by the client may not be covered under these certifications. All analysis data to be submitted for regulatory enforcement should be certified in the sample state of origin. Please verify ELI's certification coverage by visiting www.energylab.com

ELI appreciates the opportunity to provide you with this analytical service. For additional information and services visit our web page www.energylab.com.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Denison Mines USA Corp
Project: 2nd Quarter Nitrate 2012

Report Date: 05/01/12

Lab ID: C12041150-001
Client Sample ID: TWN-13_04182012

Collection Date: 04/18/12 07:18
Date Received: 04/24/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	53	mg/L		1		A4500-Cl B	04/26/12 14:43 / lr
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	04/26/12 14:15 / dc

Lab ID: C12041150-002
Client Sample ID: TWN-13R_04182012

Collection Date: 04/18/12 06:40
Date Received: 04/24/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	ND	mg/L		1		A4500-Cl B	04/26/12 14:44 / lr
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	04/26/12 14:22 / dc

Lab ID: C12041150-003
Client Sample ID: TWN-08_04182012

Collection Date: 04/18/12 08:09
Date Received: 04/24/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	15	mg/L		1		A4500-Cl B	04/26/12 14:46 / lr
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	04/26/12 14:25 / dc

Lab ID: C12041150-004
Client Sample ID: TWN-05_04182012

Collection Date: 04/18/12 09:45
Date Received: 04/24/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	39	mg/L		1		A4500-Cl B	04/26/12 14:48 / lr
Nitrogen, Nitrate+Nitrite as N	0.3	mg/L		0.1		E353.2	04/26/12 14:27 / dc

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Denison Mines USA Corp
Project: 2nd Quarter Nitrate 2012

Report Date: 05/01/12

Lab ID: C12041150-005
Client Sample ID: TWN-01_04182012

Collection Date: 04/18/12 10:32
Date Received: 04/24/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	17	mg/L		1		A4500-Cl B	04/26/12 14:51 / lr
Nitrogen, Nitrate+Nitrite as N	0.6	mg/L		0.1		E353.2	04/26/12 14:30 / dc

Lab ID: C12041150-006
Client Sample ID: TWN-10_04192012

Collection Date: 04/19/12 13:38
Date Received: 04/24/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	28	mg/L		1		A4500-Cl B	04/26/12 14:52 / lr
Nitrogen, Nitrate+Nitrite as N	0.9	mg/L		0.1		E353.2	04/26/12 14:32 / dc

Lab ID: C12041150-007
Client Sample ID: TWN-04_04182012

Collection Date: 04/18/12 12:55
Date Received: 04/24/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	24	mg/L		1		A4500-Cl B	04/26/12 14:54 / lr
Nitrogen, Nitrate+Nitrite as N	1.1	mg/L		0.1		E353.2	04/26/12 14:35 / dc

Lab ID: C12041150-008
Client Sample ID: TWN-12_04182012

Collection Date: 04/18/12 13:44
Date Received: 04/24/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	106	mg/L		1		A4500-Cl B	04/26/12 14:56 / lr
Nitrogen, Nitrate+Nitrite as N	1.2	mg/L		0.1		E353.2	04/26/12 14:37 / dc

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Denison Mines USA Corp
Project: 2nd Quarter Nitrate 2012

Report Date: 05/01/12

Lab ID: C12041150-009
Client Sample ID: TWN-06_04182012

Collection Date: 04/18/12 14:31
DateReceived: 04/24/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	22	mg/L		1		A4500-Cl B	04/26/12 14:58 / lr
Nitrogen, Nitrate+Nitrite as N	1.1	mg/L		0.1		E353.2	04/26/12 14:40 / dc

Lab ID: C12041150-010
Client Sample ID: TWN-15_04202012

Collection Date: 04/20/12 06:27
DateReceived: 04/24/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	46	mg/L		1		A4500-Cl B	04/26/12 15:09 / lr
Nitrogen, Nitrate+Nitrite as N	1.6	mg/L		0.1		E353.2	04/26/12 14:42 / dc

Lab ID: C12041150-011
Client Sample ID: TWN-11_04192012

Collection Date: 04/19/12 07:55
DateReceived: 04/24/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	71	mg/L		1		A4500-Cl B	04/26/12 15:11 / lr
Nitrogen, Nitrate+Nitrite as N	1.6	mg/L		0.1		E353.2	04/26/12 15:15 / dc

Lab ID: C12041150-012
Client Sample ID: TWN-18_04192012

Collection Date: 04/19/12 08:45
DateReceived: 04/24/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	64	mg/L		1		A4500-Cl B	04/26/12 15:17 / lr
Nitrogen, Nitrate+Nitrite as N	2.1	mg/L		0.1		E353.2	04/26/12 15:22 / dc

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Denison Mines USA Corp
Project: 2nd Quarter Nitrate 2012

Report Date: 05/01/12

Lab ID: C12041150-013
Client Sample ID: TWN-07_04202012

Collection Date: 04/20/12 06:40
Date Received: 04/24/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	6	mg/L		1		A4500-Cl B	04/26/12 15:19 / lr
Nitrogen, Nitrate+Nitrite as N	1.2	mg/L		0.1		E353.2	04/26/12 15:25 / dc

Lab ID: C12041150-014
Client Sample ID: TWN-16_04192012

Collection Date: 04/19/12 10:01
Date Received: 04/24/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	50	mg/L		1		A4500-Cl B	04/26/12 15:22 / lr
Nitrogen, Nitrate+Nitrite as N	2.0	mg/L		0.1		E353.2	04/26/12 15:27 / dc

Lab ID: C12041150-015
Client Sample ID: TWN-14_04202012

Collection Date: 04/20/12 06:50
Date Received: 04/24/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	27	mg/L		1		A4500-Cl B	04/26/12 15:25 / lr
Nitrogen, Nitrate+Nitrite as N	3.4	mg/L	D	0.2		E353.2	04/26/12 15:30 / dc

Lab ID: C12041150-016
Client Sample ID: TWN-19_04192012

Collection Date: 04/19/12 12:02
Date Received: 04/24/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	117	mg/L		1		A4500-Cl B	04/26/12 15:26 / lr
Nitrogen, Nitrate+Nitrite as N	6.8	mg/L	D	0.2		E353.2	04/26/12 15:32 / dc

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Denison Mines USA Corp
Project: 2nd Quarter Nitrate 2012

Report Date: 05/01/12

Lab ID: C12041150-017
Client Sample ID: TWN-17_04202012

Collection Date: 04/20/12 06:56
Date Received: 04/24/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	80	mg/L		1		A4500-Cl B	04/26/12 15:28 / lr
Nitrogen, Nitrate+Nitrite as N	9.1	mg/L	D	0.5		E353.2	04/26/12 15:35 / dc

Lab ID: C12041150-018
Client Sample ID: TWN-09_04202012

Collection Date: 04/20/12 07:03
Date Received: 04/24/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	209	mg/L		1		A4500-Cl B	04/26/12 15:42 / lr
Nitrogen, Nitrate+Nitrite as N	10.6	mg/L	D	0.5		E353.2	04/26/12 15:37 / dc

Lab ID: C12041150-019
Client Sample ID: TWN-03_04202012

Collection Date: 04/20/12 07:15
Date Received: 04/24/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	152	mg/L		1		A4500-Cl B	04/26/12 15:44 / lr
Nitrogen, Nitrate+Nitrite as N	24	mg/L	D	1		E353.2	04/26/12 15:40 / dc

Lab ID: C12041150-020
Client Sample ID: TWN-02_04202012

Collection Date: 04/20/12 07:25
Date Received: 04/24/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	103	mg/L		1		A4500-Cl B	04/26/12 15:52 / lr
Nitrogen, Nitrate+Nitrite as N	48	mg/L	D	1		E353.2	04/26/12 15:42 / dc

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Denison Mines USA Corp
Project: 2nd Quarter Nitrate 2012

Report Date: 05/01/12

Lab ID: C12041150-021
Client Sample ID: TWN-15R_04192012

Collection Date: 04/19/12 06:35
DateReceived: 04/24/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	1	mg/L		1		A4500-Cl B	04/26/12 15:53 / lr
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	04/26/12 15:50 / dc

Lab ID: C12041150-022
Client Sample ID: TWN-60_04202012

Collection Date: 04/20/12 13:30
DateReceived: 04/24/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	1	mg/L		1		A4500-Cl B	04/26/12 15:54 / lr
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	04/26/12 15:57 / dc

Lab ID: C12041150-023
Client Sample ID: TWN-65_04182012

Collection Date: 04/18/12 12:55
DateReceived: 04/24/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	24	mg/L		1		A4500-Cl B	04/26/12 15:56 / lr
Nitrogen, Nitrate+Nitrite as N	1.1	mg/L		0.1		E353.2	04/26/12 16:00 / dc

Lab ID: C12041150-024
Client Sample ID: TWN-70_04202012

Collection Date: 04/20/12 06:27
DateReceived: 04/24/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	46	mg/L		1		A4500-Cl B	04/26/12 15:58 / lr
Nitrogen, Nitrate+Nitrite as N	1.7	mg/L		0.1		E353.2	04/26/12 16:02 / dc

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Denison Mines USA Corp
Project: 2nd Quarter Nitrate 2012

Report Date: 05/01/12

Lab ID: C12041150-025
Client Sample ID: Piez-01_04202012

Collection Date: 04/20/12 13:05
Date Received: 04/24/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	58	mg/L		1		A4500-Cl B	04/26/12 15:59 / lr
Nitrogen, Nitrate+Nitrite as N	6.6	mg/L	D	0.2		E353.2	04/26/12 16:05 / dc

Lab ID: C12041150-026
Client Sample ID: Piez-02_04202012

Collection Date: 04/20/12 12:35
Date Received: 04/24/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	8	mg/L		1		A4500-Cl B	04/26/12 16:00 / lr
Nitrogen, Nitrate+Nitrite as N	0.2	mg/L		0.1		E353.2	04/26/12 16:07 / dc

Lab ID: C12041150-027
Client Sample ID: Piez-03_04202012

Collection Date: 04/20/12 12:50
Date Received: 04/24/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Chloride	53	mg/L		1		A4500-Cl B	04/26/12 16:02 / lr
Nitrogen, Nitrate+Nitrite as N	1.7	mg/L		0.1		E353.2	04/26/12 16:10 / dc

Lab ID: C12041150-028
Client Sample ID: Temp Blank

Collection Date: Not Provided
Date Received: 04/24/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
Temperature	2.6	°C				E170.1	04/24/12 09:30 / kbh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Denison Mines USA Corp

Report Date: 05/01/12

Project: 2nd Quarter Nitrate 2012

Work Order: C12041150

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-CI B								Batch: 120426A-CL-TTR-W		
Sample ID: MBLK9-120426A		Method Blank					Run: TITRATION_120426A			04/26/12 13:22
Chloride		ND	mg/L	1.0						
Sample ID: C12041131-001AMS		Sample Matrix Spike					Run: TITRATION_120426A			04/26/12 14:35
Chloride		36.2	mg/L	1.0	102	90	110			
Sample ID: C12041131-001AMSD		Sample Matrix Spike Duplicate					Run: TITRATION_120426A			04/26/12 14:37
Chloride		36.5	mg/L	1.0	103	90	110	1.0	10	
Sample ID: C12041150-009AMS		Sample Matrix Spike					Run: TITRATION_120426A			04/26/12 14:59
Chloride		57.8	mg/L	1.0	102	90	110			
Sample ID: C12041150-009AMSD		Sample Matrix Spike Duplicate					Run: TITRATION_120426A			04/26/12 15:00
Chloride		57.4	mg/L	1.0	101	90	110	0.6	10	
Sample ID: LCS35-120426A		Laboratory Control Sample					Run: TITRATION_120426A			04/26/12 15:01
Chloride		3580	mg/L	1.0	101	90	110			
Sample ID: C12041150-015AMS		Sample Matrix Spike					Run: TITRATION_120426A			04/26/12 15:47
Chloride		115	mg/L	1.0	99	90	110			
Sample ID: C12041150-015AMSD		Sample Matrix Spike Duplicate					Run: TITRATION_120426A			04/26/12 15:48
Chloride		116	mg/L	1.0	100	90	110	0.8	10	
Sample ID: C12041150-027AMS		Sample Matrix Spike					Run: TITRATION_120426A			04/26/12 16:03
Chloride		144	mg/L	1.0	102	90	110			
Sample ID: C12041150-027AMSD		Sample Matrix Spike Duplicate					Run: TITRATION_120426A			04/26/12 16:05
Chloride		143	mg/L	1.0	101	90	110	0.6	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Denison Mines USA Corp

Report Date: 05/01/12

Project: 2nd Quarter Nitrate 2012

Work Order: C12041150

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E353.2										Batch: R158954
Sample ID: MBLK-1		Method Blank								Run: TECHNICON_120426A 04/26/12 12:42
Nitrogen, Nitrate+Nitrite as N		ND	mg/L	0.10						
Sample ID: LCS-2		Laboratory Control Sample								Run: TECHNICON_120426A 04/26/12 13:35
Nitrogen, Nitrate+Nitrite as N		2.39	mg/L	0.10	96	90	110			
Sample ID: LFB-3		Laboratory Fortified Blank								Run: TECHNICON_120426A 04/26/12 13:37
Nitrogen, Nitrate+Nitrite as N		1.87	mg/L	0.10	95	90	110			
Sample ID: C12041150-001BMS		Sample Matrix Spike								Run: TECHNICON_120426A 04/26/12 14:17
Nitrogen, Nitrate+Nitrite as N		1.85	mg/L	0.10	94	90	110			
Sample ID: C12041150-001BMSD		Sample Matrix Spike Duplicate								Run: TECHNICON_120426A 04/26/12 14:20
Nitrogen, Nitrate+Nitrite as N		1.89	mg/L	0.10	96	90	110	2.1	10	
Sample ID: C12041150-011BMS		Sample Matrix Spike								Run: TECHNICON_120426A 04/26/12 15:17
Nitrogen, Nitrate+Nitrite as N		3.36	mg/L	0.10	91	90	110			
Sample ID: C12041150-011BMSD		Sample Matrix Spike Duplicate								Run: TECHNICON_120426A 04/26/12 15:20
Nitrogen, Nitrate+Nitrite as N		3.35	mg/L	0.10	91	90	110	0.3	10	
Sample ID: C12041150-021BMS		Sample Matrix Spike								Run: TECHNICON_120426A 04/26/12 15:52
Nitrogen, Nitrate+Nitrite as N		1.84	mg/L	0.10	94	90	110			
Sample ID: C12041150-021BMSD		Sample Matrix Spike Duplicate								Run: TECHNICON_120426A 04/26/12 15:55
Nitrogen, Nitrate+Nitrite as N		1.86	mg/L	0.10	95	90	110	1.1	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

Workorder Receipt Checklist



C12041150

Login completed by: Tracy Judge

Date Received: 4/24/2012

Reviewed by: BL2000\tedwards

Received by: tj

Reviewed Date: 4/25/2012

Carrier FedEx
name:

- | | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-----------------------------|------------------------------------------------------------|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on shipping container/cooler? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| All samples received within holding time?
(Exclude analyses that are considered field parameters
such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.) | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Container/Temp Blank temperature: | 2.6°C On Ice | | |
| Water - VOA vials have zero headspace? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | No VOA vials submitted <input checked="" type="checkbox"/> |
| Water - pH acceptable upon receipt? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Applicable <input type="checkbox"/> |

Contact and Corrective Action Comments:

None



Chain of Custody and Analytical Request Record

PLEASE PRINT (Provide as much information as possible.)

Company Name: Denison Mines	Project Name, PWS, Permit, Etc. 2nd Quarter Nitrate 2012	Sample Origin State: UT	EPA/State Compliance: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Report Mail Address: PO Box 809 Blanding UT 84511	Contact Name: Garrin Palmer 435 678 2221	Phone/Fax: 435 678 2221	Email: Tanner Holliday
Invoice Address: Same	Invoice Contact & Phone: David Turk 435 678 2221	Purchase Order:	Quote/Bottle Order:

Special Report/Formats: <input type="checkbox"/> DW <input type="checkbox"/> EDD/EDT (Electronic Data) <input type="checkbox"/> POTW/WWTP Format: _____ <input type="checkbox"/> State: _____ <input type="checkbox"/> LEVEL IV <input type="checkbox"/> Other: _____ <input type="checkbox"/> NELAC	Number of Containers Sample Type: <input type="checkbox"/> AW <input type="checkbox"/> SV <input type="checkbox"/> B <input type="checkbox"/> O <input type="checkbox"/> DW <input type="checkbox"/> Air <input type="checkbox"/> Water <input type="checkbox"/> Soils/Solids <input type="checkbox"/> Vegetation <input type="checkbox"/> Bioassay <input type="checkbox"/> Other <input type="checkbox"/> DW - Drinking Water	ANALYSIS REQUESTED										SEE ATTACHED Standard Turnaround (TAT)	R U S H	Contact ELI prior to RUSH sample submittal for charges and scheduling - See Instruction Page	Shipped by: Jedex Cooler ID(s): Client
		Comments:	Receipt Temp 216 °C On Ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N												

SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX	LABORATORY USE ONLY																
1 TWN-1304182012	4/18/12	0718	2-W	X																
2 TWN- 13 R-04182012	4/18/12	0640	2-W	X																
3 TWN-08_04182012	4/18/12	0809	2-W	X																
4 TWN-05_04182012	4/18/12	0945	2-W	X																
5 TWN-01_04182012	4/18/12	1032	2-W	X																
6 TWN-10_04192012	4/19/12	1338	2-W	X																
7 TWN-04_04182012	4/18/12	1255	2-W	X																
8 TWN-12_04182012	4/18/12	1344	2-W	X																
9 TWN-06_04182012	4/18/12	1431	2-W	X																
10 TWN-15_04202012	4/20/12	0627	2-W	X																

Custody Record MUST be Signed	Relinquished by (print): Tanner Holliday	Date/Time: 4/23/2012 1100	Signature: <i>Tanner Holliday</i>	Received by (print):	Date/Time:	Signature:
	Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
	Sample Disposal:	Return to Client:	Lab Disposal:	Received by Laboratory: 4-24-12	Date/Time: 9:50	Signature: <i>Tracy Jiden</i>

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report.

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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		--		2195.0		NC	8.30		NC	15.57		NC	209		NC	4.0		NC	
Piezometer 2		--		676.3		NC	6.89		NC	15.54		NC	474		NC	1.6		NC	
Piezometer 3		--		3080.0		NC	12.19		NC	15.41		NC	177		NC	5.2		NC	
TWN-1	39.7	79.40	91.00	OK	803.0	804.0	0.12	7.56	7.56	0.00	15.01	15.01	0.00	217	216	0.46	27.3	27.4	0.37
TWN-2	48.77	97.54	72.00	Pumped Dry	3006.0		NC	6.78		NC	13.51		NC	454		NC	24.3		NC
TWN-3	41.23	82.46	57.00	Pumped Dry	2434.0		NC	7.31		NC	14.83		NC	395		NC	100.0		NC
TWN-4	55.5	111.00	143.00	OK	1034.0	1034.0	0.00	7.34	7.34	0.00	14.94	14.93	0.07	233	232	0.43	120.0	118.0	1.68
TWN-5	52.52	105.04	117.00	OK	3061.0	3061.0	0.00	7.05	7.05	0.00	14.91	14.91	0.00	319	315	1.26	3.0	3.0	0.00
TWN-6	35.75	71.50	91.00	OK	1541.0	1543.0	0.13	7.14	7.14	0.00	14.93	14.94	0.07	249	248	0.40	10.1	10.0	1.00
TWN-7	11.02	22.04	19.00	Pumped Dry	1153.0		NC	7.73		NC	14.76		NC	309		NC	8.0		NC
TWN-8	54.74	109.48	117.00	OK	2369.0	2374.0	0.21	7.60	7.56	0.53	14.57	14.57	0.00	113	115	1.75	3.0	3.0	NC
TWN-9	22.29	44.58	36.00	Pumped Dry	2562.0		NC	6.93		NC	15.33		NC	296		NC	11.0		NC
TWN-10	15.78	31.56	32.00	Pumped Dry	3609.0		NC	4.60		NC	15.66		NC	498		NC	75.7		NC
TWN-11	47.38	94.76	120.00	OK	2780.0	2780.0	0.00	7.04	7.04	0.00	14.56	14.57	0.07	343	340	0.88	2.9	2.9	0.00
TWN-12	53.21	106.42	130.00	OK	2465.0	2464.0	0.04	7.32	7.32	0.00	14.90	14.91	0.07	191	195	2.07	161.0	165.0	2.45
TWN-13	64.94	129.88	143.00	OK	860.0	858.1	0.22	8.01	8.01	0.00	14.96	14.95	0.07	151	149	1.33	10.4	10.4	0.00
TWN-14	47.3	94.60	57.00	Pumped Dry	1021.0		NC	7.91		NC	15.13		NC	188		NC	42.3		NC
TWN-15	40.71	81.42	72.00	Pumped Dry	1568.0		NC	7.27		NC	14.52		NC	369		NC	22.6		NC
TWN-16	34.08	68.16	84.00	OK	1853.0	1848.0	0.27	7.21	7.21	0.00	14.90	14.90	0.00	299	296	1.01	2.5	2.5	0.00
TWN-17	49.69	99.38	78.00	Pumped Dry	1135.0		NC	7.47		NC	15.09		NC	360		NC	77.1		NC
TWN-18	57	114.00	132.00	OK	2165.0	2167.0	0.09	7.18	7.18	0.00	14.35	14.35	0.00	336	335	0.30	44.6	44.7	0.22
TWN-19	37.57	75.14	84.00	OK	1980.0	1972.0	0.40	7.39	7.40	0.14	15.39	15.60	1.36	212	212	0.00	10.6	10.7	0.94

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

TWN-2, TWN-3, TWN-7, TWN-9, TWN-14, TWN-15, and TWN-17 were purged to dryness before 2 casing volumes were removed. TWN-10 was purged to dryness after 2 casing volumes were removed.

RPD > than 10%

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.

H-2: Holding Time Evaluation

Location	Constituent	Sample Collection Date	Lab Analysis Data	Holding Time	Allowed Holding Time	Holding Time Check
Piezometer 01	Chloride	4/20/12	4/26/12	6.00 days	28 days	OK
Piezometer 01	Nitrogen	4/20/12	4/26/12	6.00 days	28 days	OK
Piezometer 02	Chloride	4/20/12	4/26/12	6.00 days	28 days	OK
Piezometer 02	Nitrogen	4/20/12	4/26/12	6.00 days	28 days	OK
Piezometer 03	Chloride	4/20/12	4/26/12	6.00 days	28 days	OK
Piezometer 03	Nitrogen	4/20/12	4/26/12	6.00 days	28 days	OK
TWN-01	Chloride	4/18/12	4/26/12	8.00 days	28 days	OK
TWN-01	Nitrogen	4/18/12	4/26/12	8.00 days	28 days	OK
TWN-02	Chloride	4/20/12	4/26/12	6.00 days	28 days	OK
TWN-02	Nitrogen	4/20/12	4/26/12	6.00 days	28 days	OK
TWN-03	Chloride	4/20/12	4/26/12	6.00 days	28 days	OK
TWN-03	Nitrogen	4/20/12	4/26/12	6.00 days	28 days	OK
TWN-04	Chloride	4/18/12	4/26/12	8.00 days	28 days	OK
TWN-04	Nitrogen	4/18/12	4/26/12	8.00 days	28 days	OK
TWN-05	Chloride	4/18/12	4/26/12	8.00 days	28 days	OK
TWN-05	Nitrogen	4/18/12	4/26/12	8.00 days	28 days	OK
TWN-06	Chloride	4/18/12	4/26/12	8.00 days	28 days	OK
TWN-06	Nitrogen	4/18/12	4/26/12	8.00 days	28 days	OK
TWN-07	Chloride	4/20/12	4/26/12	6.00 days	28 days	OK
TWN-07	Nitrogen	4/20/12	4/26/12	6.00 days	28 days	OK
TWN-08	Chloride	4/18/12	4/26/12	8.00 days	28 days	OK
TWN-08	Nitrogen	4/18/12	4/26/12	8.00 days	28 days	OK
TWN-09	Chloride	4/20/12	4/26/12	6.00 days	28 days	OK
TWN-09	Nitrogen	4/20/12	4/26/12	6.00 days	28 days	OK
TWN-10	Chloride	4/19/12	4/26/12	7.00 days	28 days	OK
TWN-10	Nitrogen	4/19/12	4/26/12	7.00 days	28 days	OK
TWN-11	Chloride	4/19/12	4/26/12	7.00 days	28 days	OK
TWN-11	Nitrogen	4/19/12	4/26/12	7.00 days	28 days	OK
TWN-12	Chloride	4/18/12	4/26/12	8.00 days	28 days	OK
TWN-12	Nitrogen	4/18/12	4/26/12	8.00 days	28 days	OK
TWN-13	Chloride	4/18/12	4/26/12	8.00 days	28 days	OK
TWN-13	Nitrogen	4/18/12	4/26/12	8.00 days	28 days	OK
TWN-14	Chloride	4/20/12	4/26/12	6.00 days	28 days	OK
TWN-14	Nitrogen	4/20/12	4/26/12	6.00 days	28 days	OK
TWN-15	Chloride	4/20/12	4/26/12	6.00 days	28 days	OK
TWN-15	Nitrogen	4/20/12	4/26/12	6.00 days	28 days	OK
TWN-16	Chloride	4/19/12	4/26/12	7.00 days	28 days	OK
TWN-16	Nitrogen	4/19/12	4/26/12	7.00 days	28 days	OK
TWN-17	Chloride	4/20/12	4/26/12	6.00 days	28 days	OK
TWN-17	Nitrogen	4/20/12	4/26/12	6.00 days	28 days	OK
TWN-18	Chloride	4/19/12	4/26/12	7.00 days	28 days	OK
TWN-18	Nitrogen	4/19/12	4/26/12	7.00 days	28 days	OK
TWN-19	Chloride	4/19/12	4/26/12	7.00 days	28 days	OK
TWN-19	Nitrogen	4/19/12	4/26/12	7.00 days	28 days	OK
TWN-65	Chloride	4/18/12	4/26/12	8.00 days	28 days	OK
TWN-65	Nitrogen	4/18/12	4/26/12	8.00 days	28 days	OK
TWN-70	Chloride	4/20/12	4/26/12	6.00 days	28 days	OK
TWN-70	Nitrogen	4/20/12	4/26/12	6.00 days	28 days	OK

H-3: Analytical Method Check

Parameter	Method	Method Used by Lab
Nitrate	E353.2	E353.2
Chloride	A4500-Cl B	A4500-Cl B

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

H-4: Reporting Limit Evaluation

Location	Constituent	Sampling Result	Lab Reporting Limit	Rqd' Reporting Limit	Qualifier
Piezometer 01	Chloride	58 mg/L	1 mg/L	1 mg/L	
Piezometer 01	Nitrogen	6.6 mg/L	0.2 mg/L	0.1 mg/L	D
Piezometer 02	Chloride	8 mg/L	1 mg/L	1 mg/L	
Piezometer 02	Nitrogen	0.2 mg/L	0.1 mg/L	0.1 mg/L	
Piezometer 03	Chloride	53 mg/L	1 mg/L	1 mg/L	
Piezometer 03	Nitrogen	1.7 mg/L	0.1 mg/L	0.1 mg/L	
TWN-01	Chloride	17 mg/L	1 mg/L	1 mg/L	
TWN-01	Nitrogen	0.6 mg/L	0.1 mg/L	0.1 mg/L	
TWN-02	Chloride	103 mg/L	1 mg/L	1 mg/L	
TWN-02	Nitrogen	48 mg/L	1 mg/L	0.1 mg/L	D
TWN-03	Chloride	152 mg/L	1 mg/L	1 mg/L	
TWN-03	Nitrogen	24 mg/L	1 mg/L	0.1 mg/L	D
TWN-04	Chloride	24 mg/L	1 mg/L	1 mg/L	
TWN-04	Nitrogen	1.1 mg/L	0.1 mg/L	0.1 mg/L	
TWN-05	Chloride	39 mg/L	1 mg/L	1 mg/L	
TWN-05	Nitrogen	0.3 mg/L	0.1 mg/L	0.1 mg/L	
TWN-06	Chloride	22 mg/L	1 mg/L	1 mg/L	
TWN-06	Nitrogen	1.1 mg/L	0.1 mg/L	0.1 mg/L	
TWN-07	Chloride	6 mg/L	1 mg/L	1 mg/L	
TWN-07	Nitrogen	1.2 mg/L	0.1 mg/L	0.1 mg/L	
TWN-08	Chloride	15 mg/L	1 mg/L	1 mg/L	
TWN-08	Nitrogen	0 mg/L	0.1 mg/L	0.1 mg/L	
TWN-09	Chloride	209 mg/L	1 mg/L	1 mg/L	
TWN-09	Nitrogen	10.6 mg/L	0.5 mg/L	0.1 mg/L	D
TWN-10	Chloride	28 mg/L	1 mg/L	1 mg/L	
TWN-10	Nitrogen	0.9 mg/L	0.1 mg/L	0.1 mg/L	
TWN-11	Chloride	71 mg/L	1 mg/L	1 mg/L	
TWN-11	Nitrogen	1.6 mg/L	0.1 mg/L	0.1 mg/L	
TWN-12	Chloride	106 mg/L	1 mg/L	1 mg/L	
TWN-12	Nitrogen	1.2 mg/L	0.1 mg/L	0.1 mg/L	
TWN-13	Chloride	53 mg/L	1 mg/L	1 mg/L	
TWN-13	Nitrogen	0 mg/L	0.1 mg/L	0.1 mg/L	
TWN-14	Chloride	27 mg/L	1 mg/L	1 mg/L	
TWN-14	Nitrogen	3.4 mg/L	0.2 mg/L	0.1 mg/L	D
TWN-15	Chloride	46 mg/L	1 mg/L	1 mg/L	
TWN-15	Nitrogen	1.6 mg/L	0.1 mg/L	0.1 mg/L	
TWN-16	Chloride	50 mg/L	1 mg/L	1 mg/L	
TWN-16	Nitrogen	2 mg/L	0.1 mg/L	0.1 mg/L	
TWN-17	Chloride	80 mg/L	1 mg/L	1 mg/L	
TWN-17	Nitrogen	9.1 mg/L	0.5 mg/L	0.1 mg/L	D
TWN-18	Chloride	64 mg/L	1 mg/L	1 mg/L	
TWN-18	Nitrogen	2.1 mg/L	0.1 mg/L	0.1 mg/L	
TWN-19	Chloride	117 mg/L	1 mg/L	1 mg/L	
TWN-19	Nitrogen	6.8 mg/L	0.2 mg/L	0.1 mg/L	D
TWN-65	Chloride	24 mg/L	1 mg/L	1 mg/L	
TWN-65	Nitrogen	1.1 mg/L	0.1 mg/L	0.1 mg/L	
TWN-70	Chloride	46 mg/L	1 mg/L	1 mg/L	
TWN-70	Nitrogen	1.7 mg/L	0.1 mg/L	0.1 mg/L	

U = Analyte was not detected at the RL

D = RL was increased due to sample matrix or required dilution due to the sample concentration. In all cases the analytical results were greater than the reporting limit used.

H-7 Receipt Temperature Evaluation

Sample Batch	Wells in Batch	Temperature
C12041150	Piezometer 1, Piezometer 2, Piezometer 3, TWN-1, TWN-2, TWN-3, TWN-4, TWN-5, TWN-6, TWN-7, TWN-8, TWN-9, TWN-10, TWN-11, TWN-12, TWN-13, TWN-13R, TWN-14, TWN-15, TWN-15R, TWN-16, TWN-17, TWN-18, TWN-19, TWN-60, TWN-65, TWN-70	2.6 °C

H-8 Rinsate Evaluation

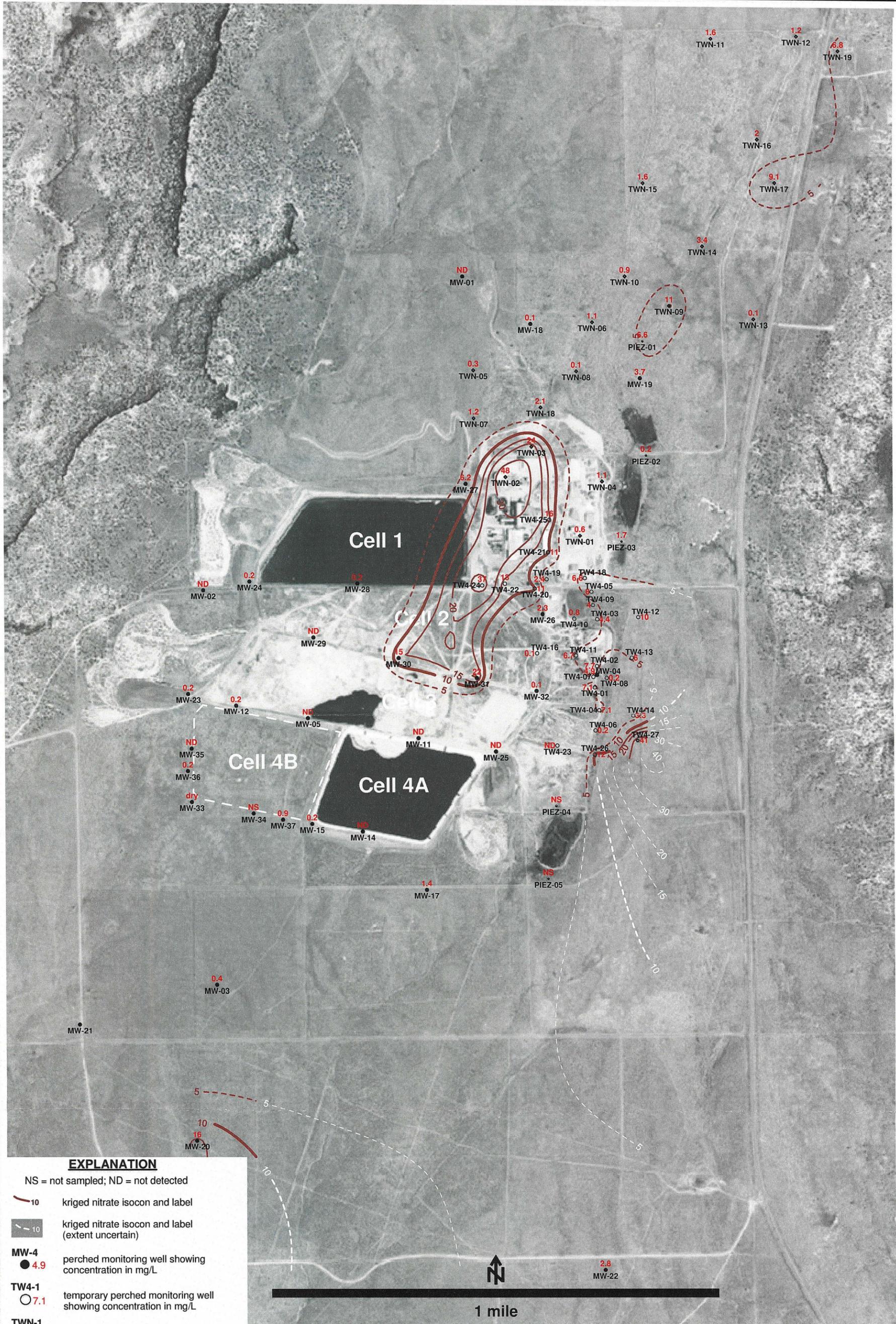
Rinsate Sample	Parameter	Rinsate Result		Previous Well Sample	Result for Well		Qualifier	Reporting Limit
TWN-13R	Nitrogen	ND	mg/L	N/A	NA			0.1 mg/L
TWN-13R	Chloride	ND	mg/L	N/A	NA			1 mg/L
TWN-15R	Nitrogen	ND	mg/L	TWN-06	1.1	mg/L		0.1 mg/L
TWN-15R	Chloride	1	mg/L	TWN-06	22	mg/L		1 mg/L
TWN-60	Nitrogen	ND	mg/L	Piez-01	6.6	mg/L	D	0.1 mg/L
TWN-60	Chloride	1	mg/L	Piez-01	58	mg/L		1 mg/L

The Rinsate sample identified in Column 1 was collected after the pump was used to purge the well identified as "Previous Well Sampled" in Column 4

D = Reporting limit raised due to dilution/sample matrix.

Tab I

Kriged Current Quarter Isoconcentration Maps



EXPLANATION

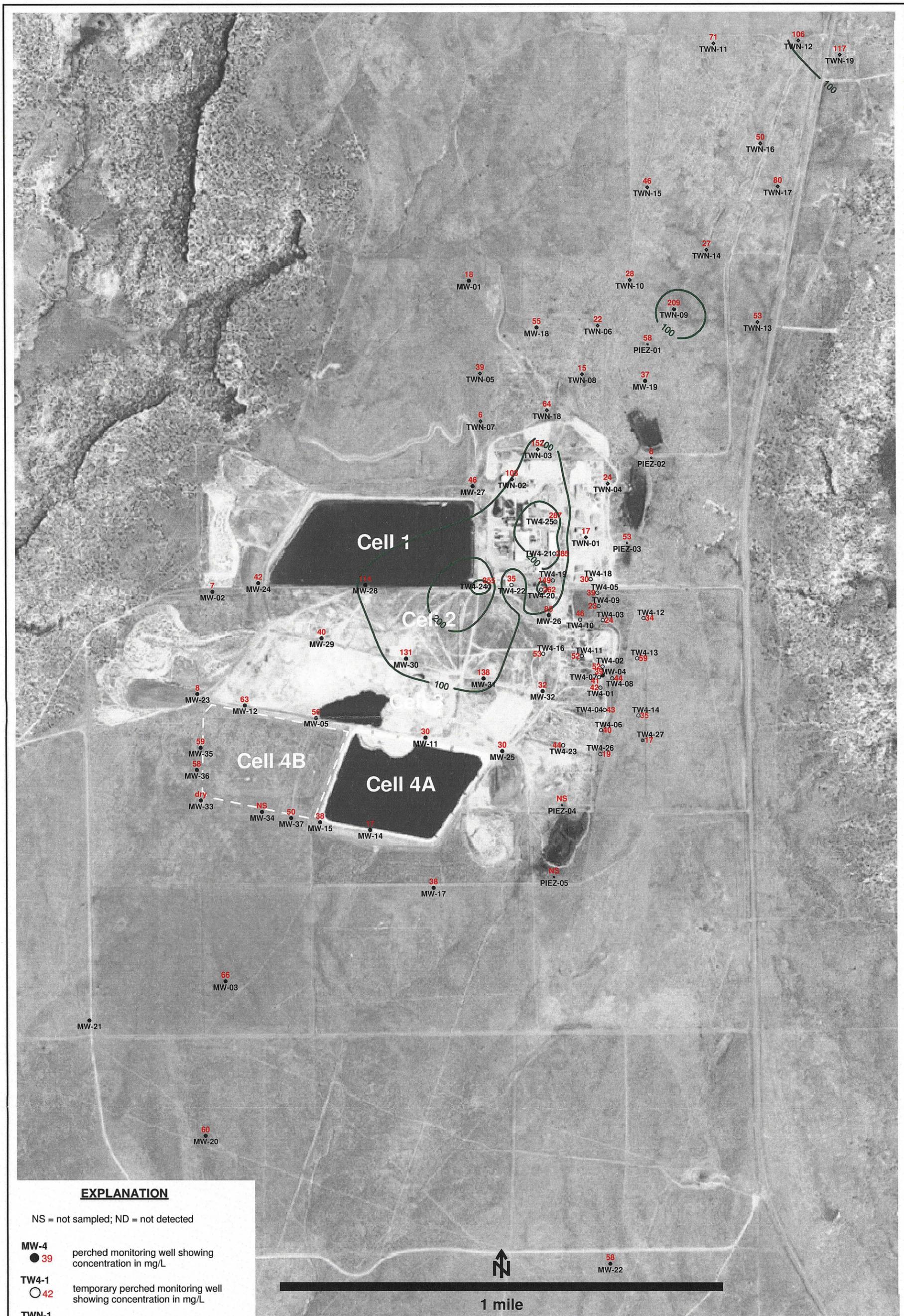
- NS = not sampled; ND = not detected
- kriged nitrate isocon and label
- kriged nitrate isocon and label (extent uncertain)
- MW-4**
 perched monitoring well showing concentration in mg/L
- TW4-1**
 temporary perched monitoring well showing concentration in mg/L
- TWN-1**
 temporary perched nitrate 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 2nd QUARTER, 2012 NITRATE (mg/L)
(NITRATE + NITRITE AS N)
WHITE MESA SITE**

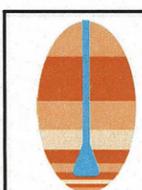
APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/aug12/nitrate/Unt0612.srf	I - 1



EXPLANATION

NS = not sampled; ND = not detected

- MW-4 ● 39 perched monitoring well showing concentration in mg/L
- TW4-1 ○ 42 temporary perched monitoring well showing concentration in mg/L
- TWN-1 ◆ 17 temporary perched nitrate monitoring well showing concentration in mg/L
- PIEZ-1 ● 58 perched piezometer showing concentration in mg/L
- TW4-27 ★ 17 temporary perched monitoring well installed October, 2011 showing concentration in mg/L



**HYDRO
GEO
CHEM, INC.**

**KRIGED 2nd QUARTER, 2012 CHLORIDE (mg/L)
WHITE MESA SITE**

APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/aug12/chloride/Ucl0612.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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

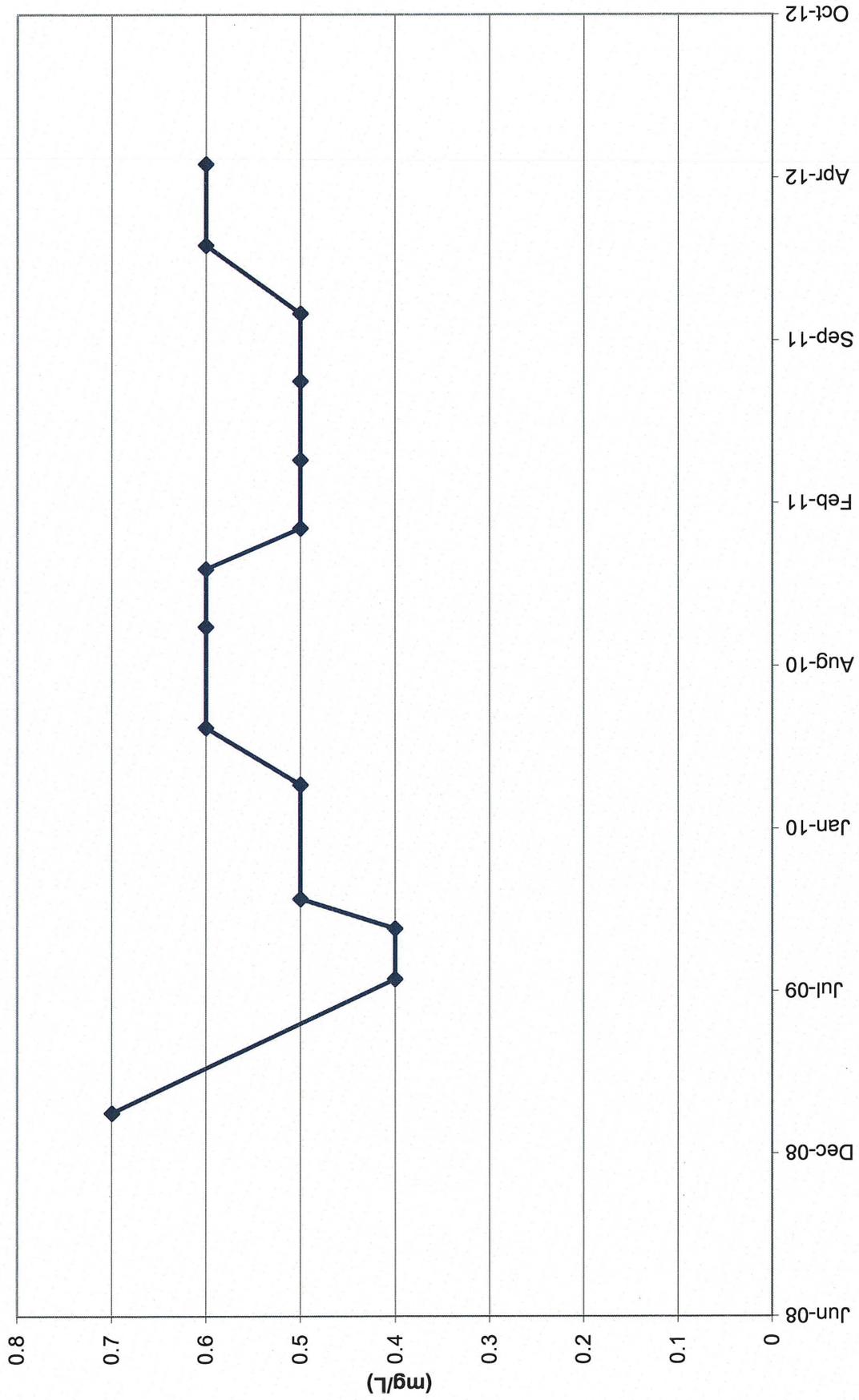
Frog Pond

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

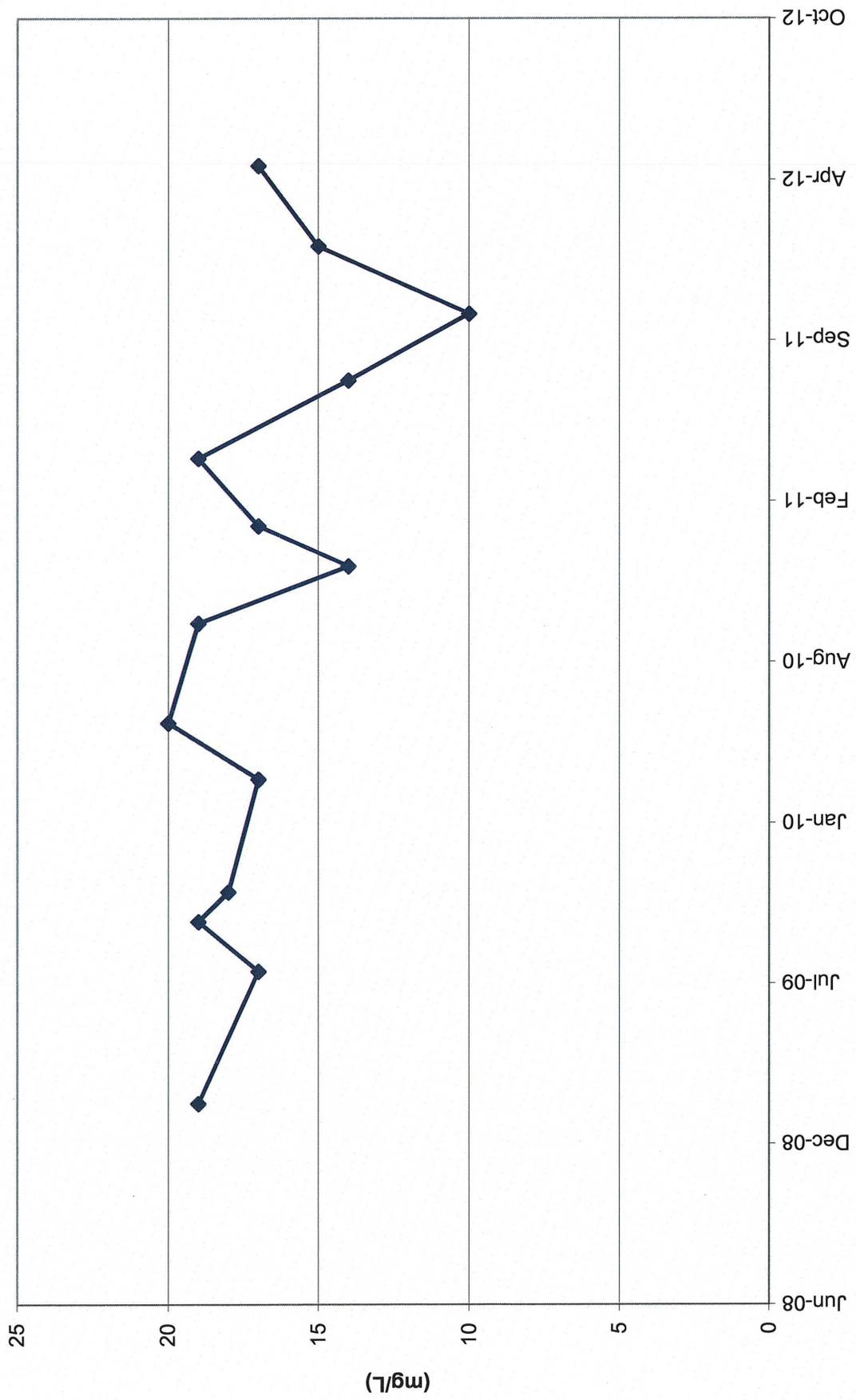
Tab K

Concentration Trend Graphs

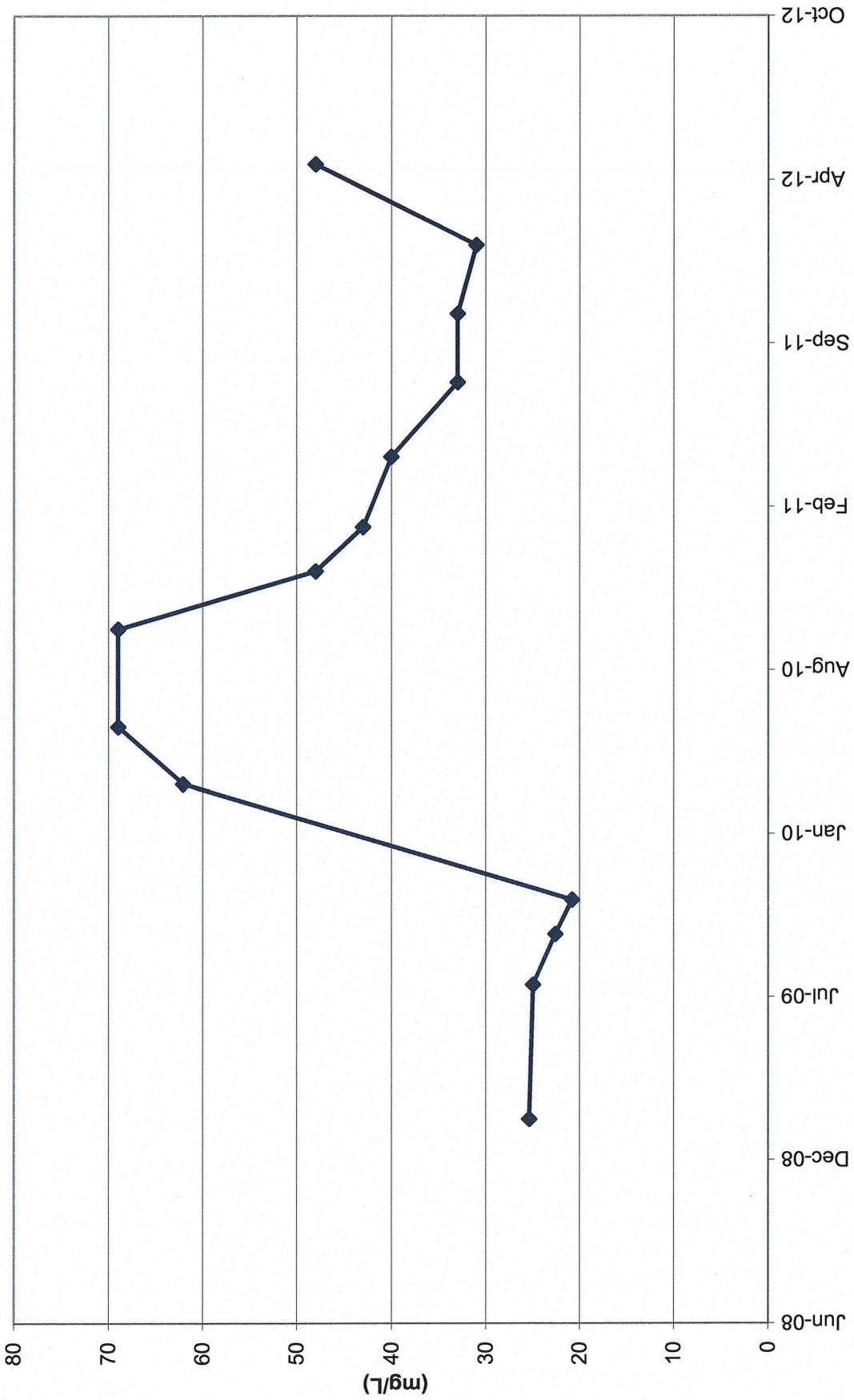
TWN-1 Nitrate Concentrations



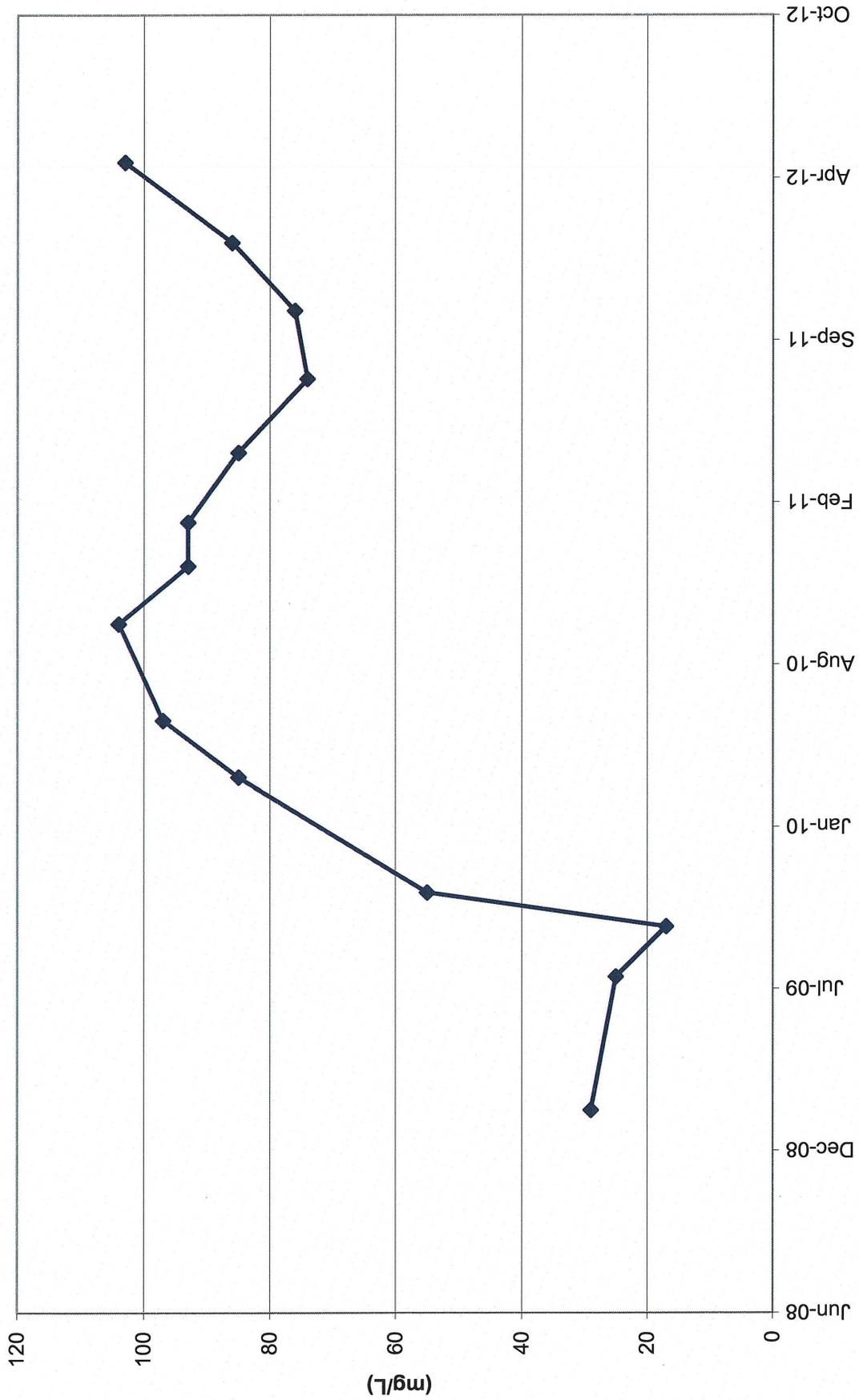
TWN-1 Chloride Concentrations



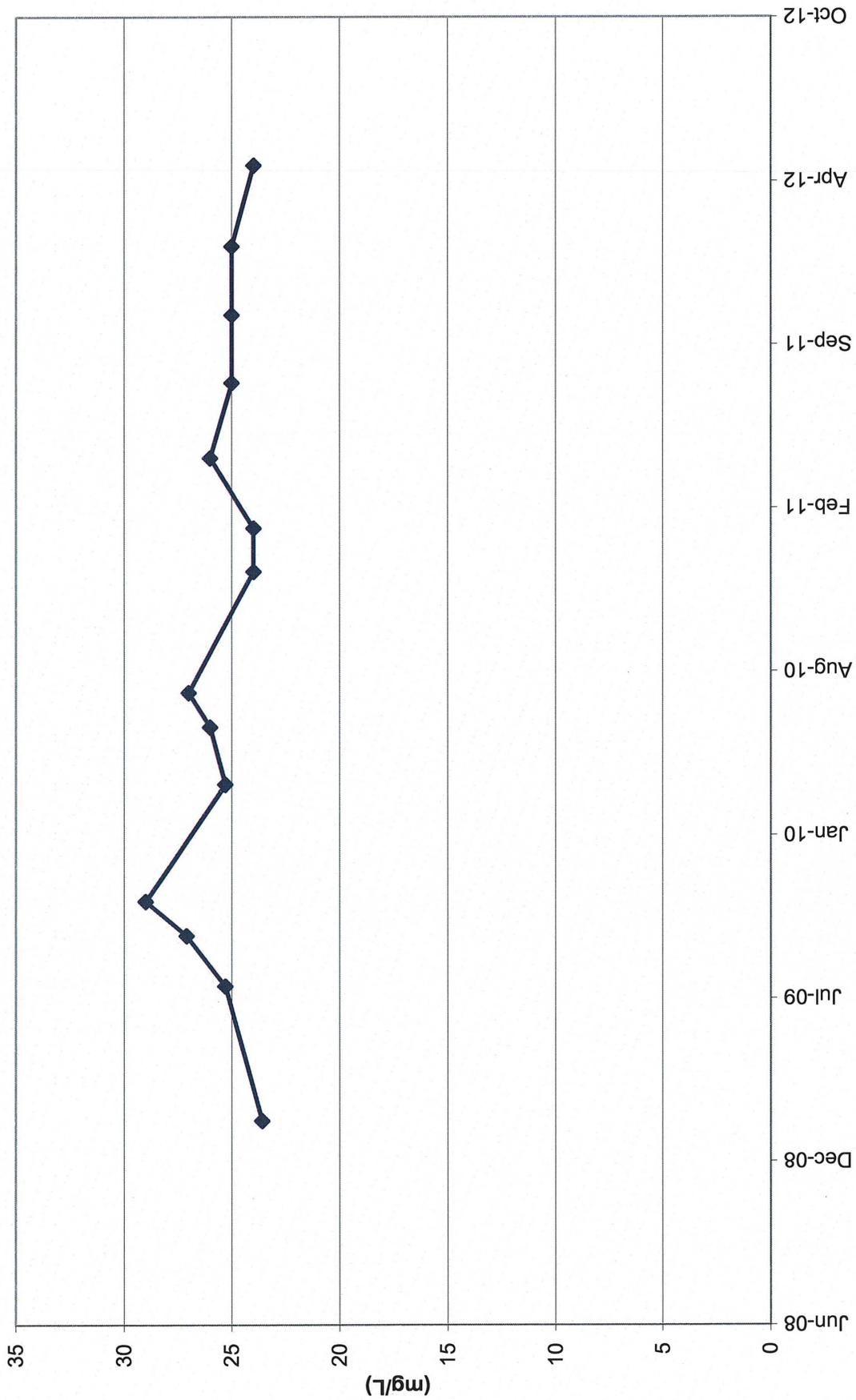
TWN-2 Nitrate Concentrations



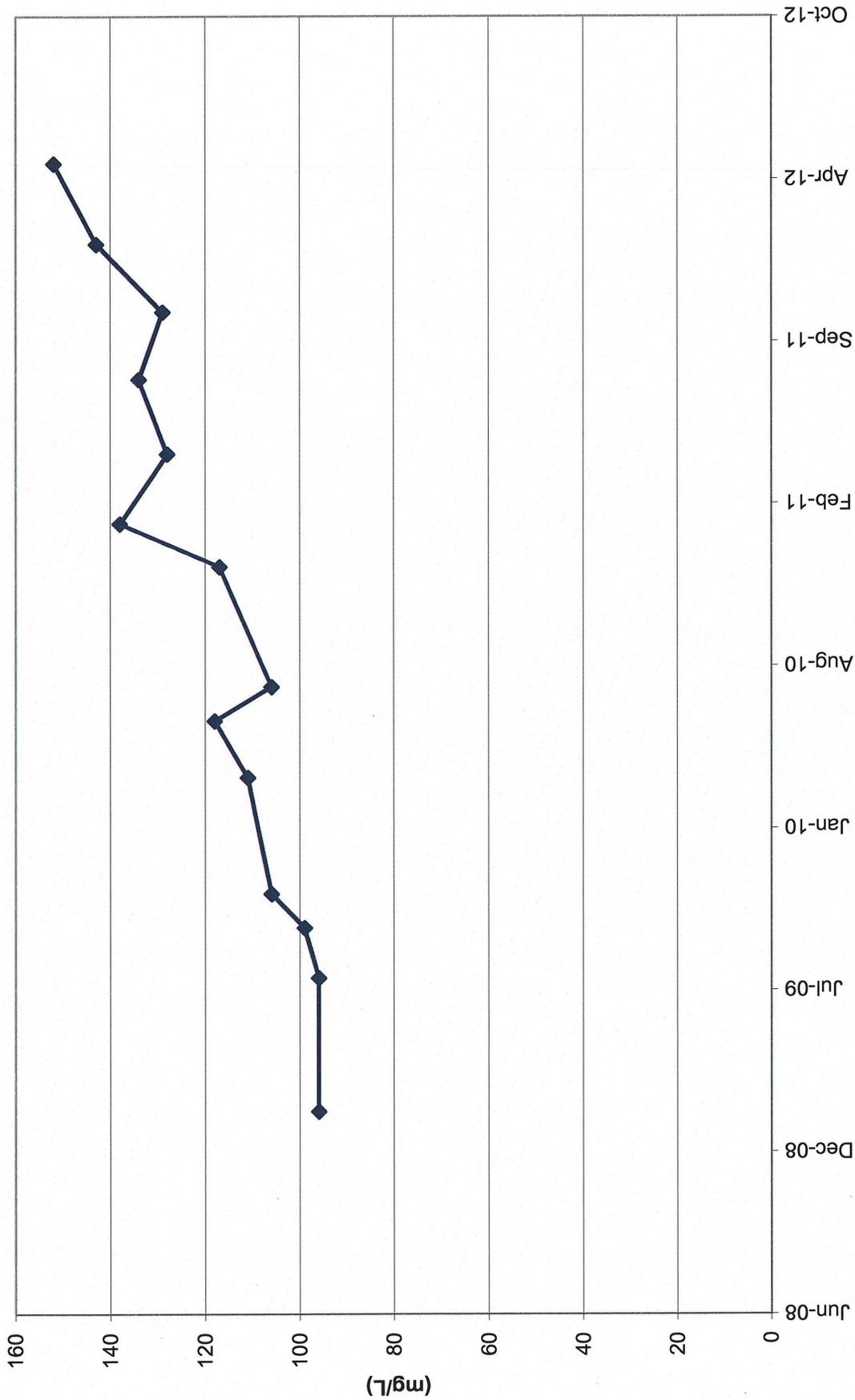
TWN-2 Chloride Concentrations



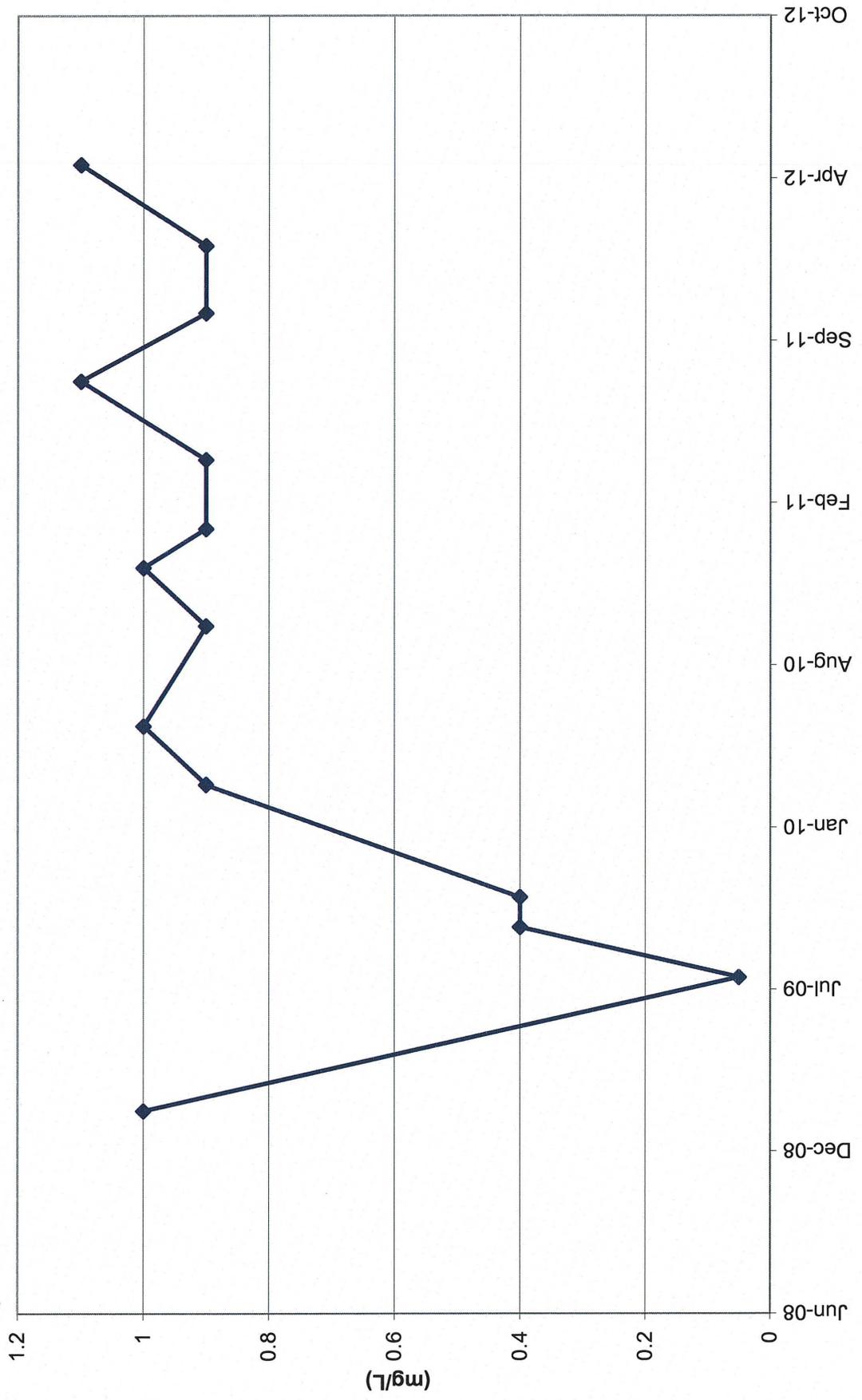
TWN-3 Nitrate Concentrations



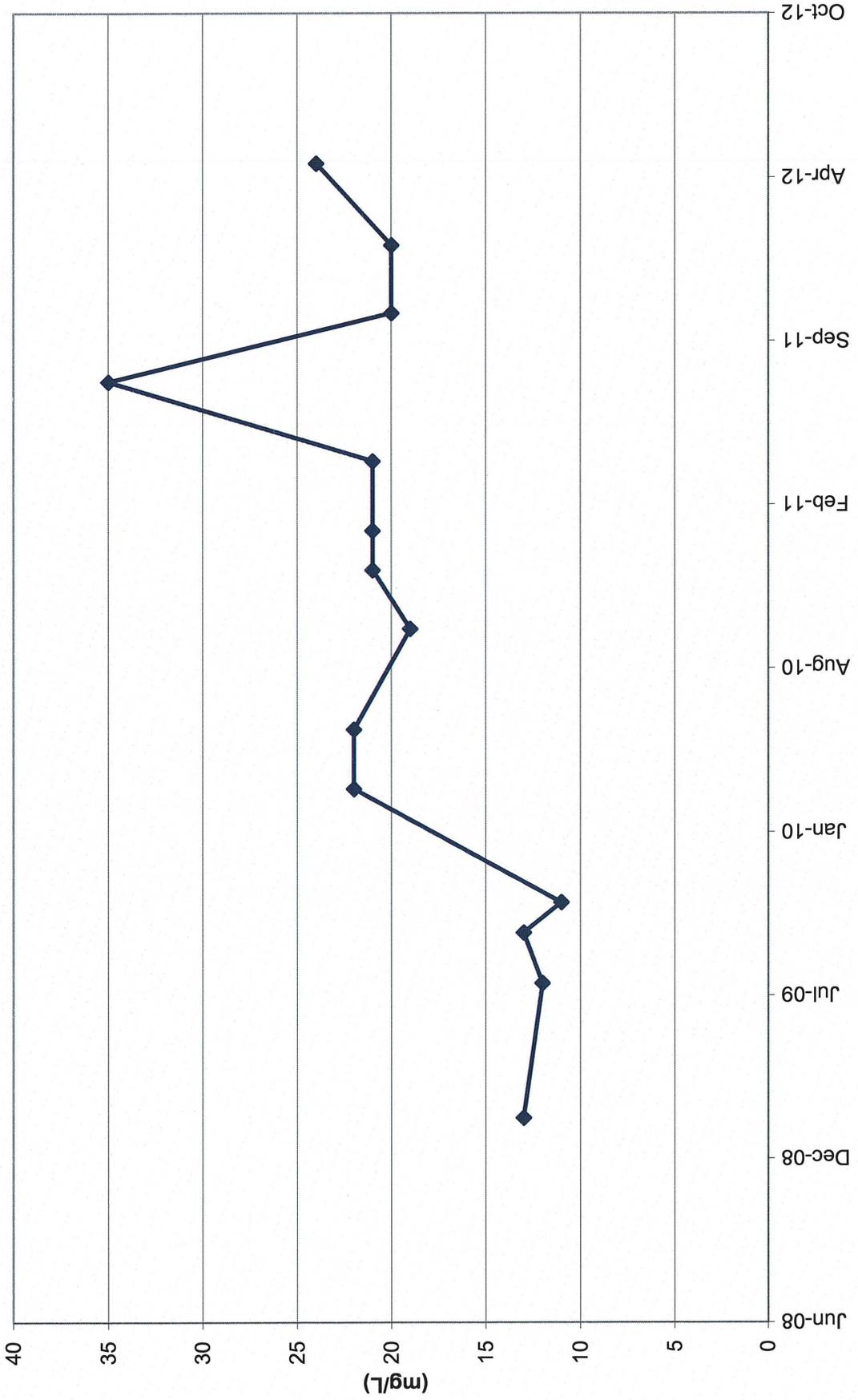
TWN-3 Chloride Concentrations



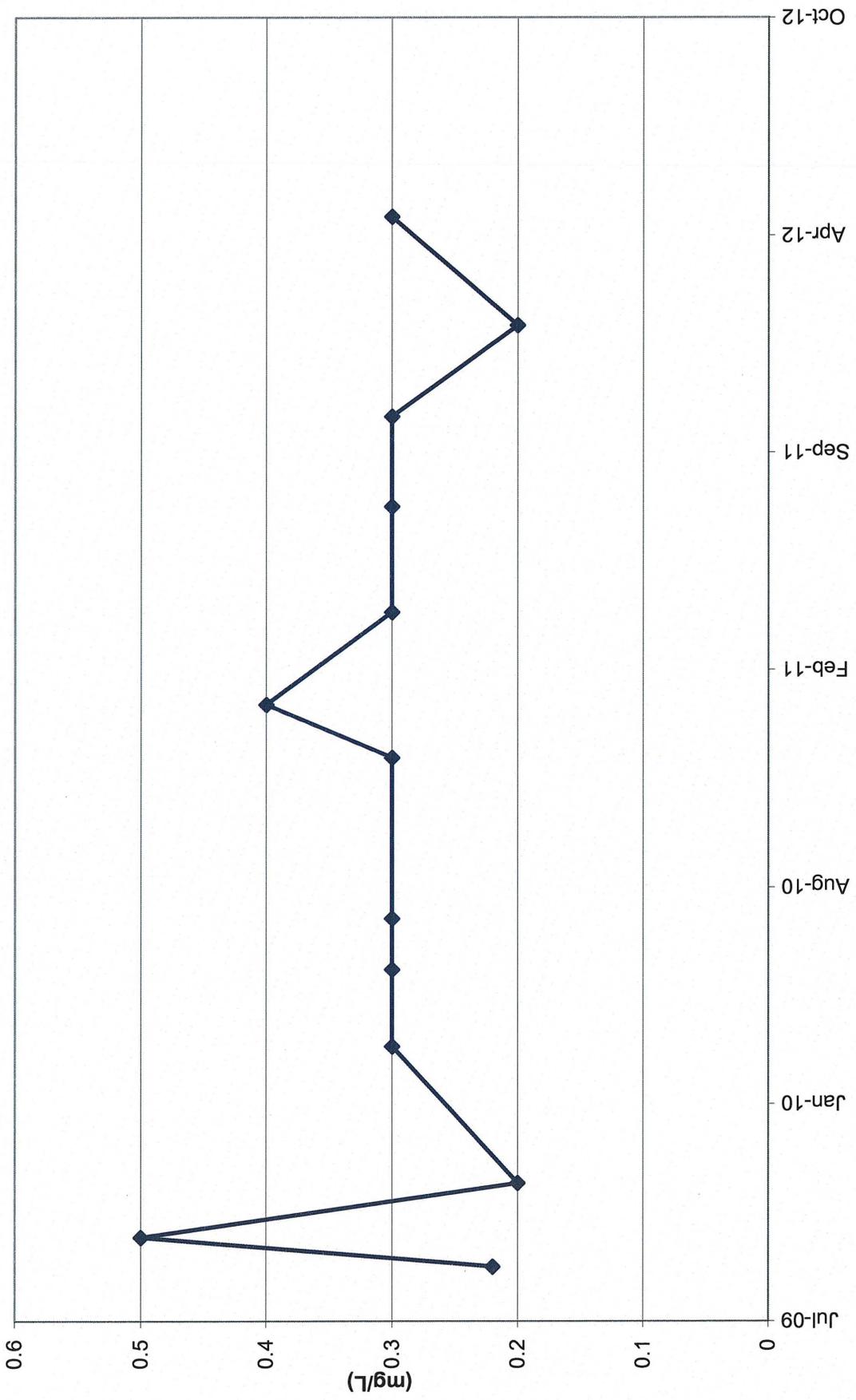
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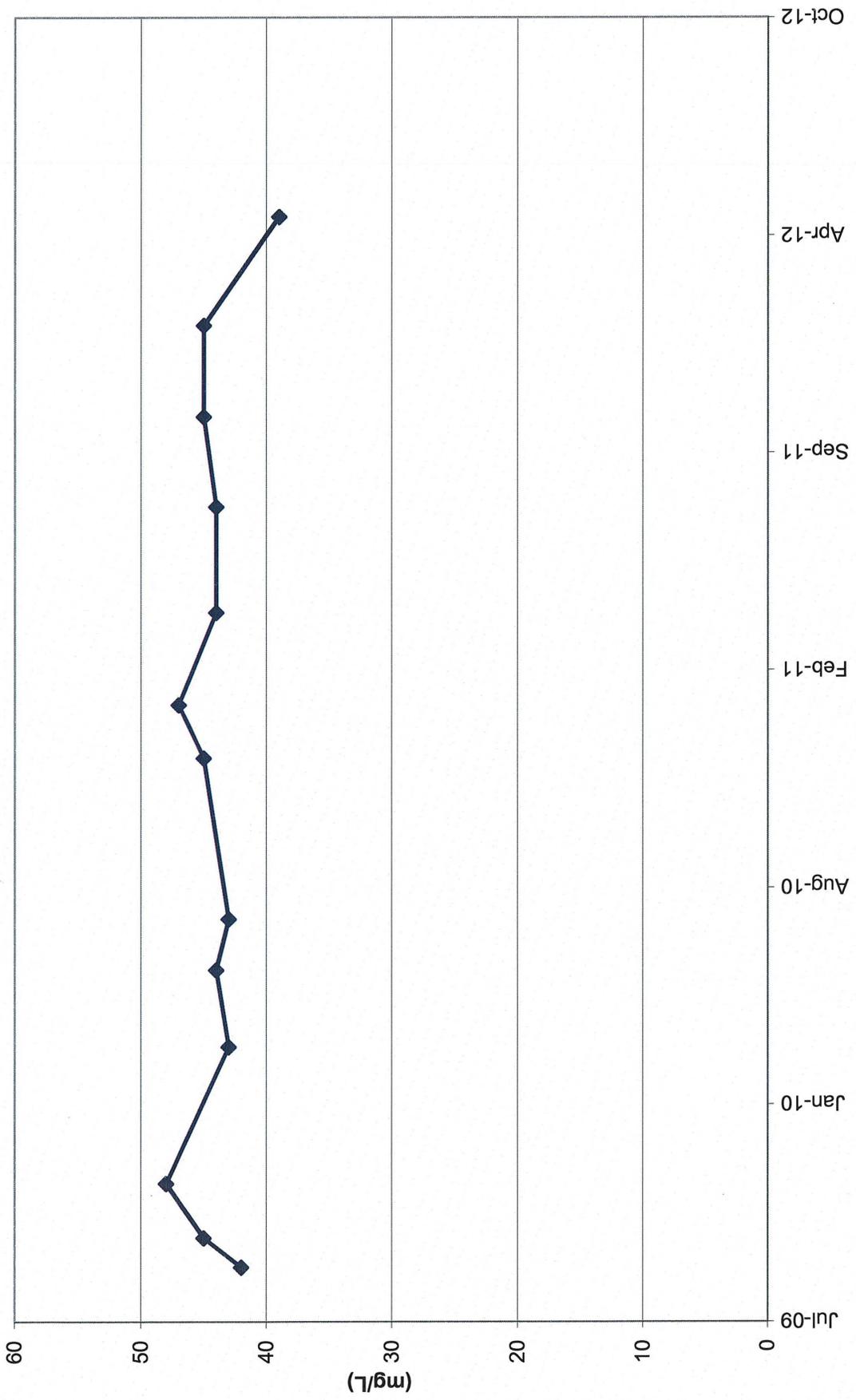
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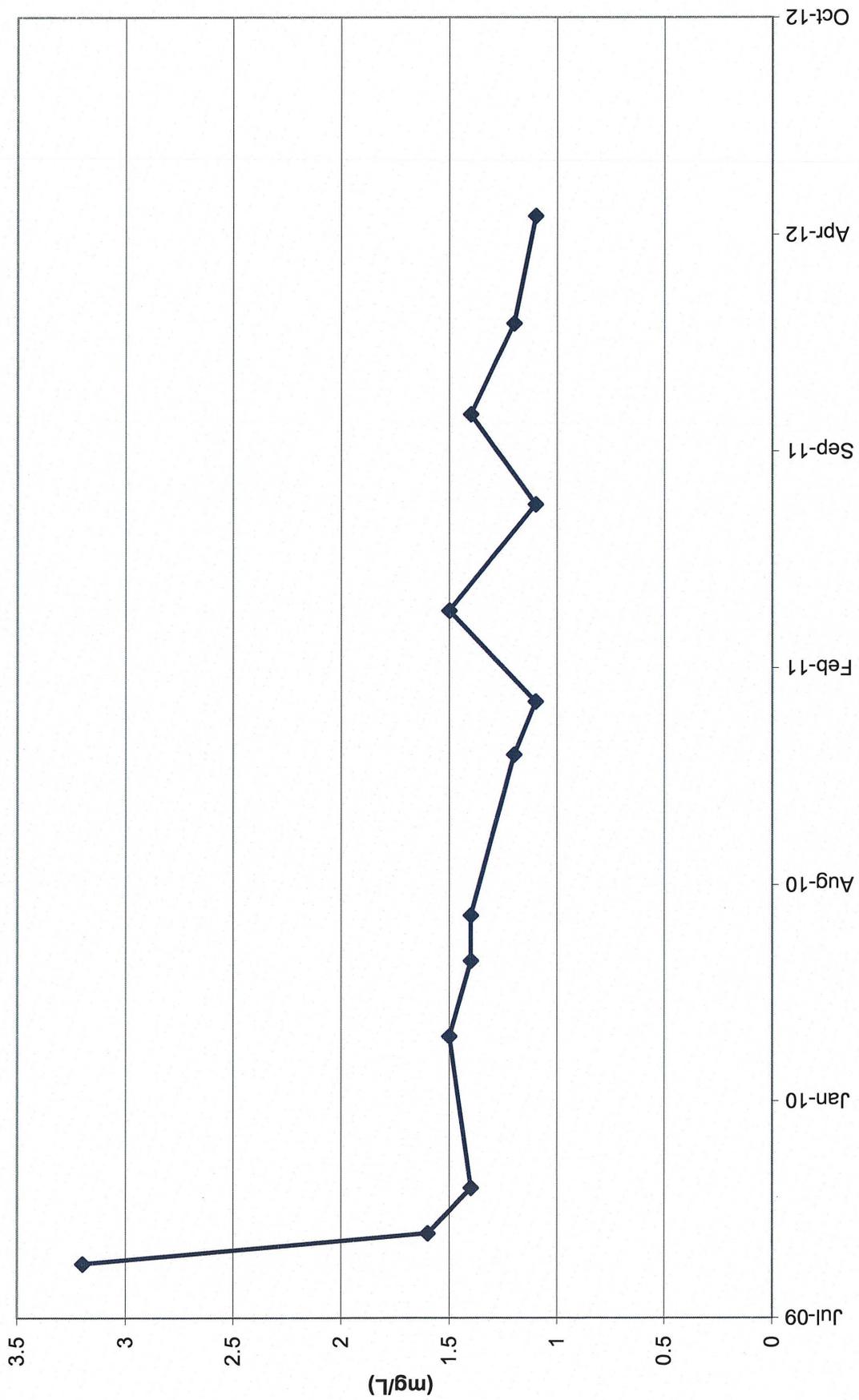
TWN-5 Nitrate Concentrations



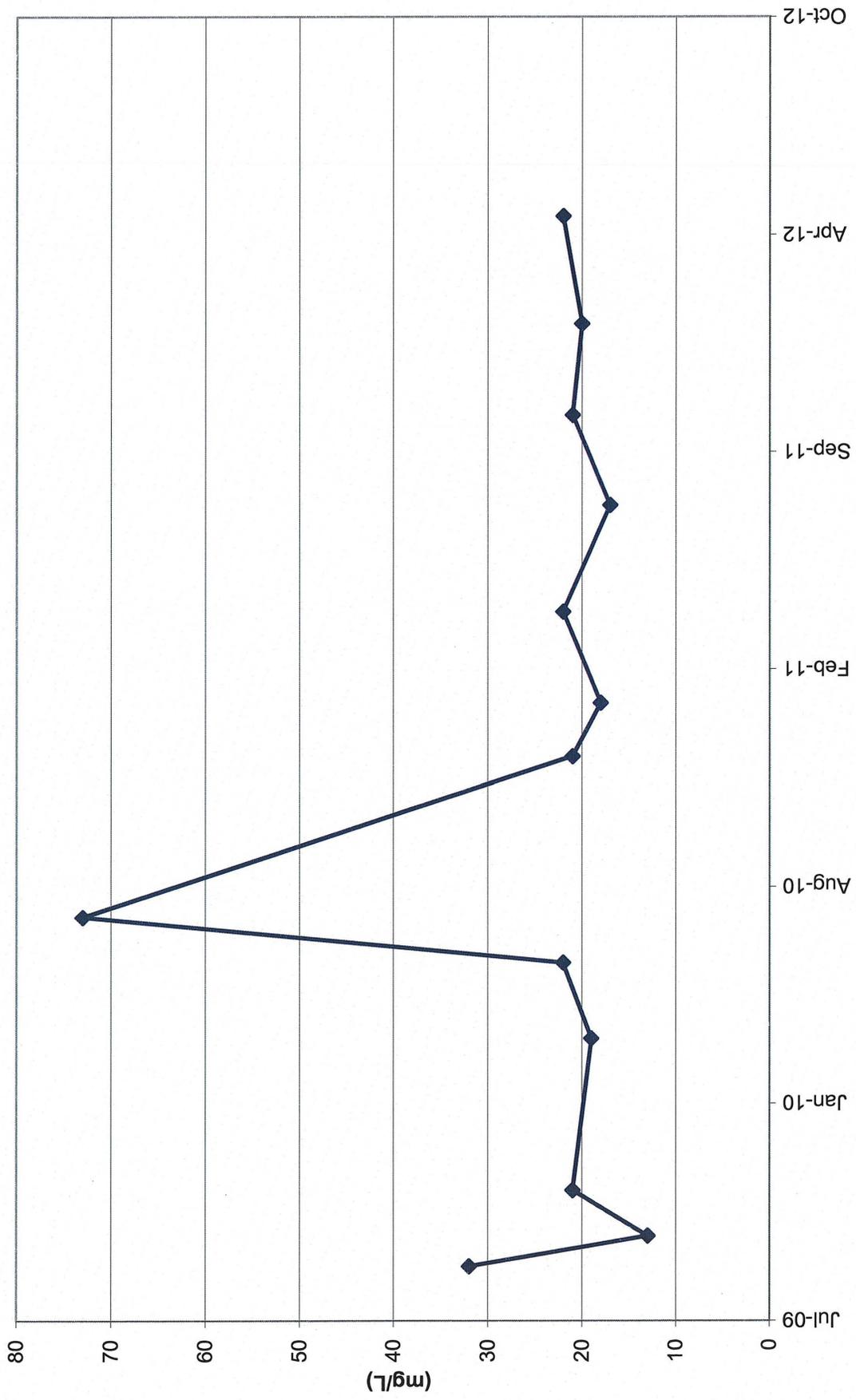
TWN-5 Chloride Concentrations



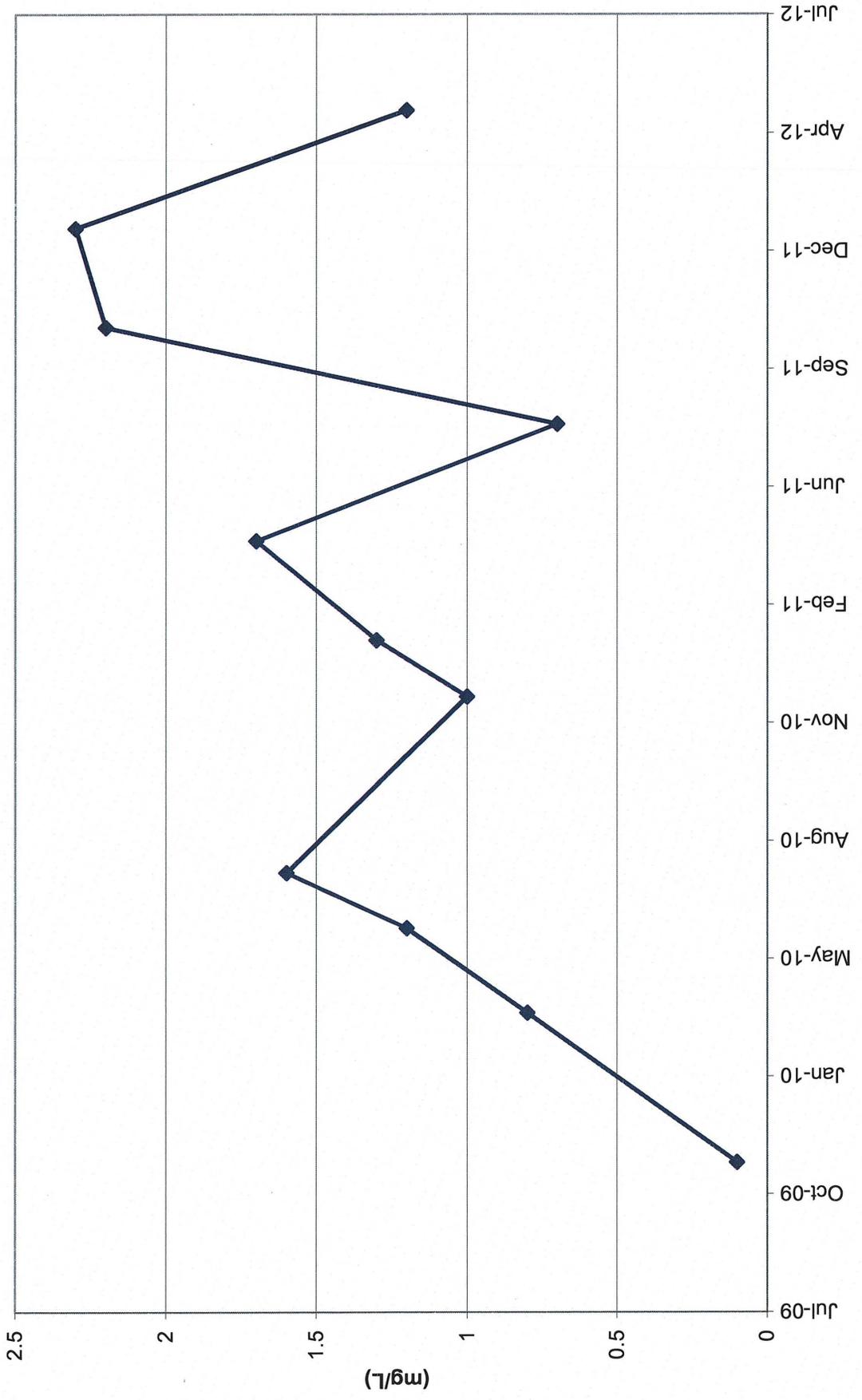
TWN-6 Nitrate Concentrations



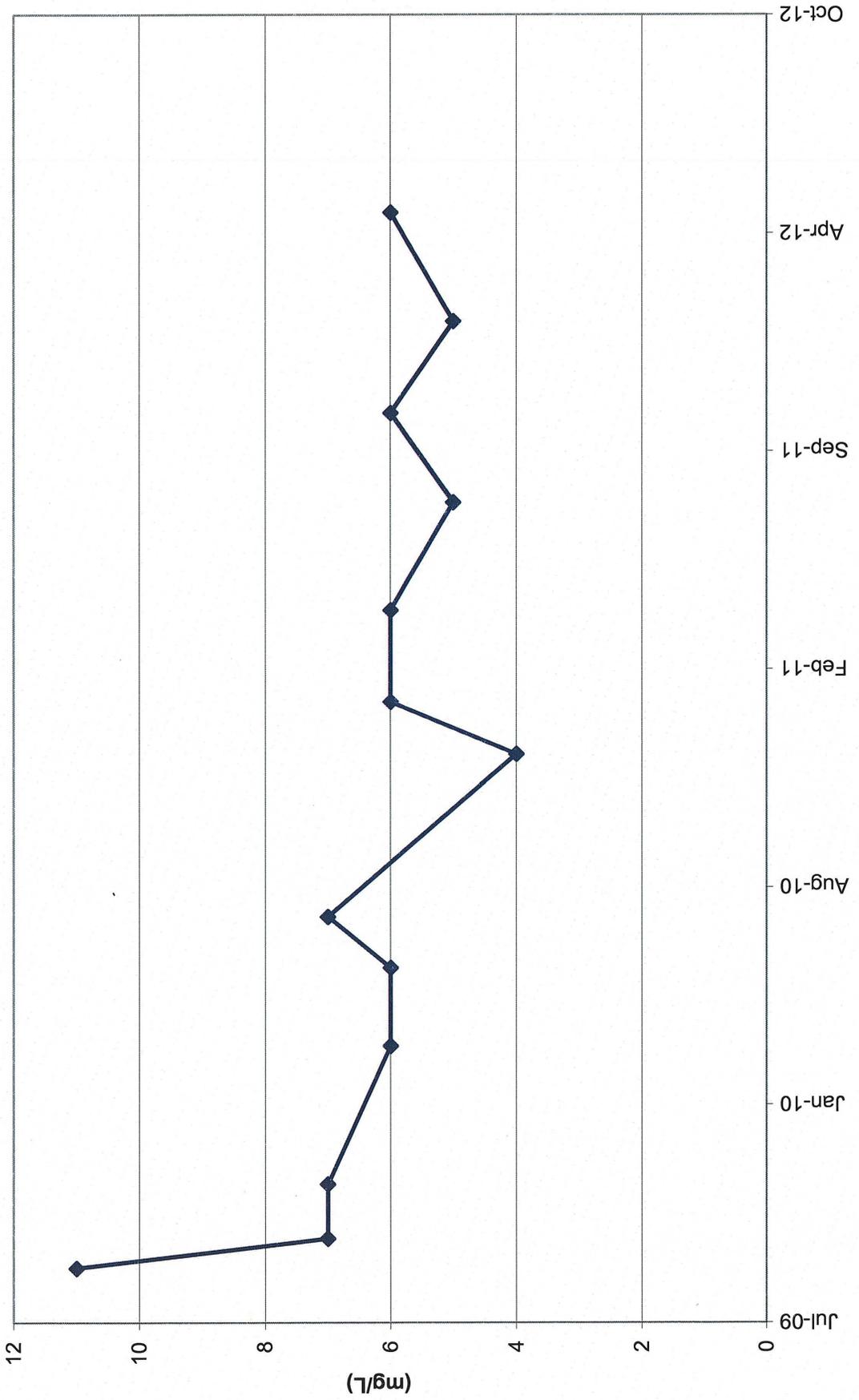
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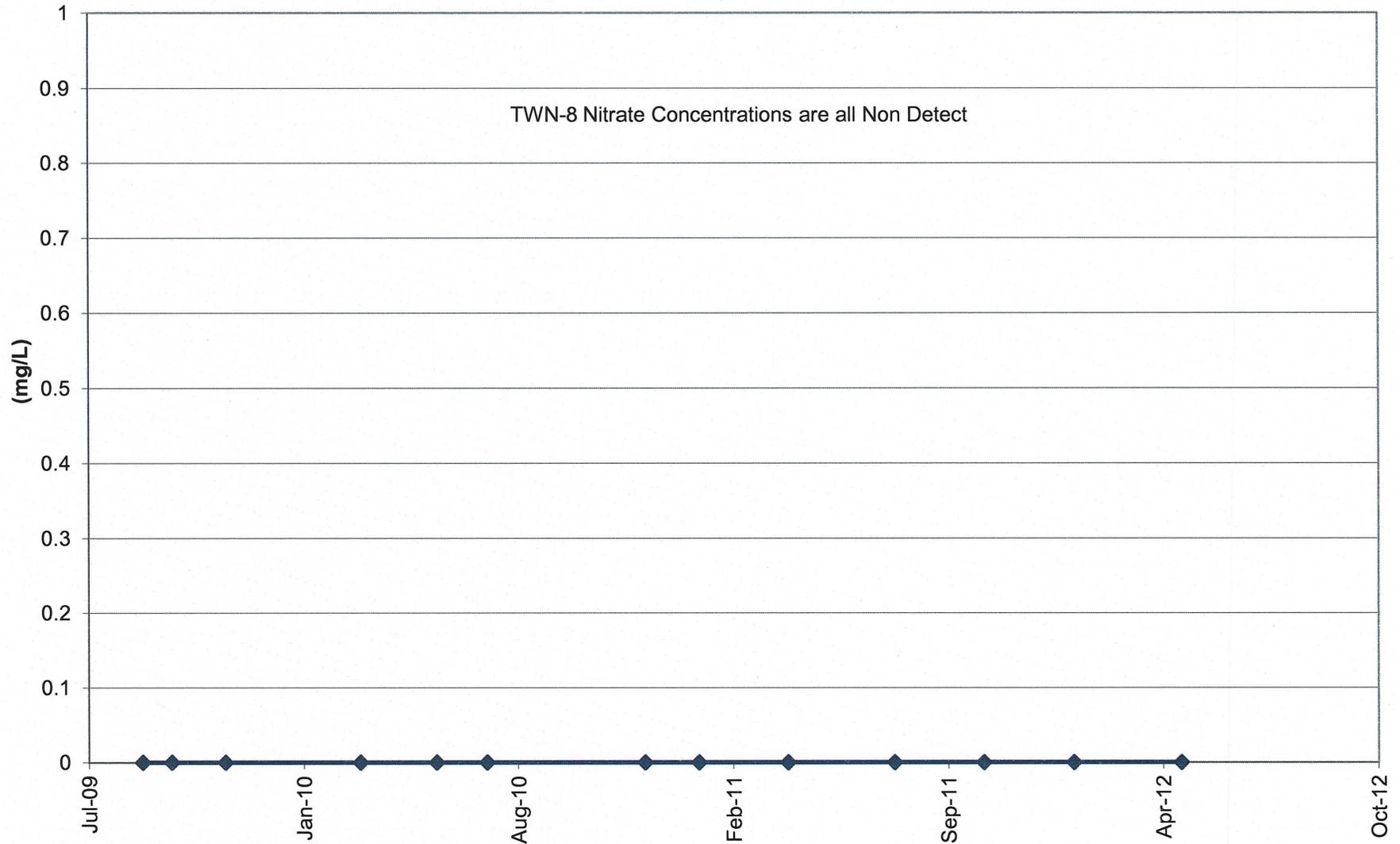
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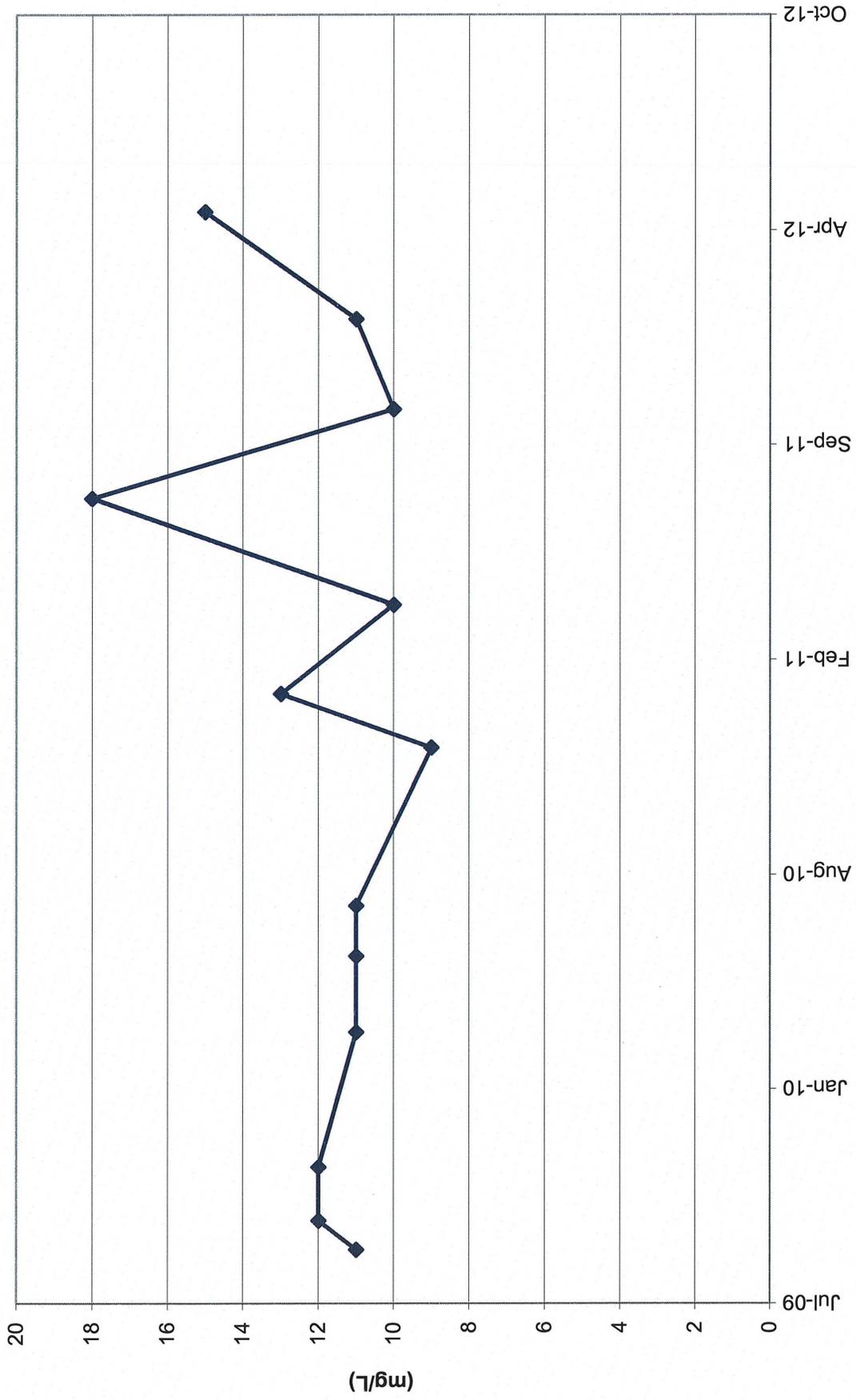
TWN-7 Chloride Concentrations



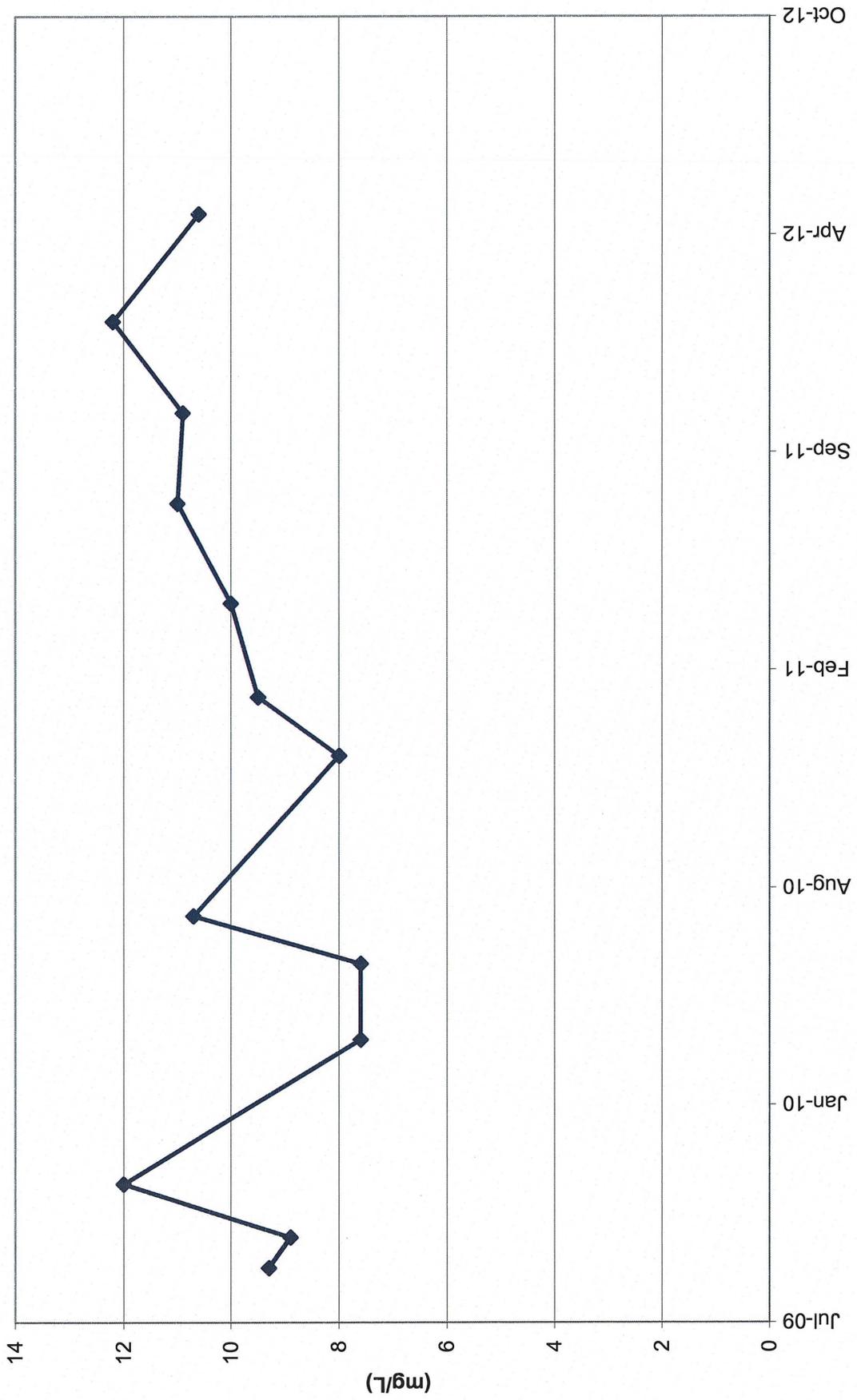
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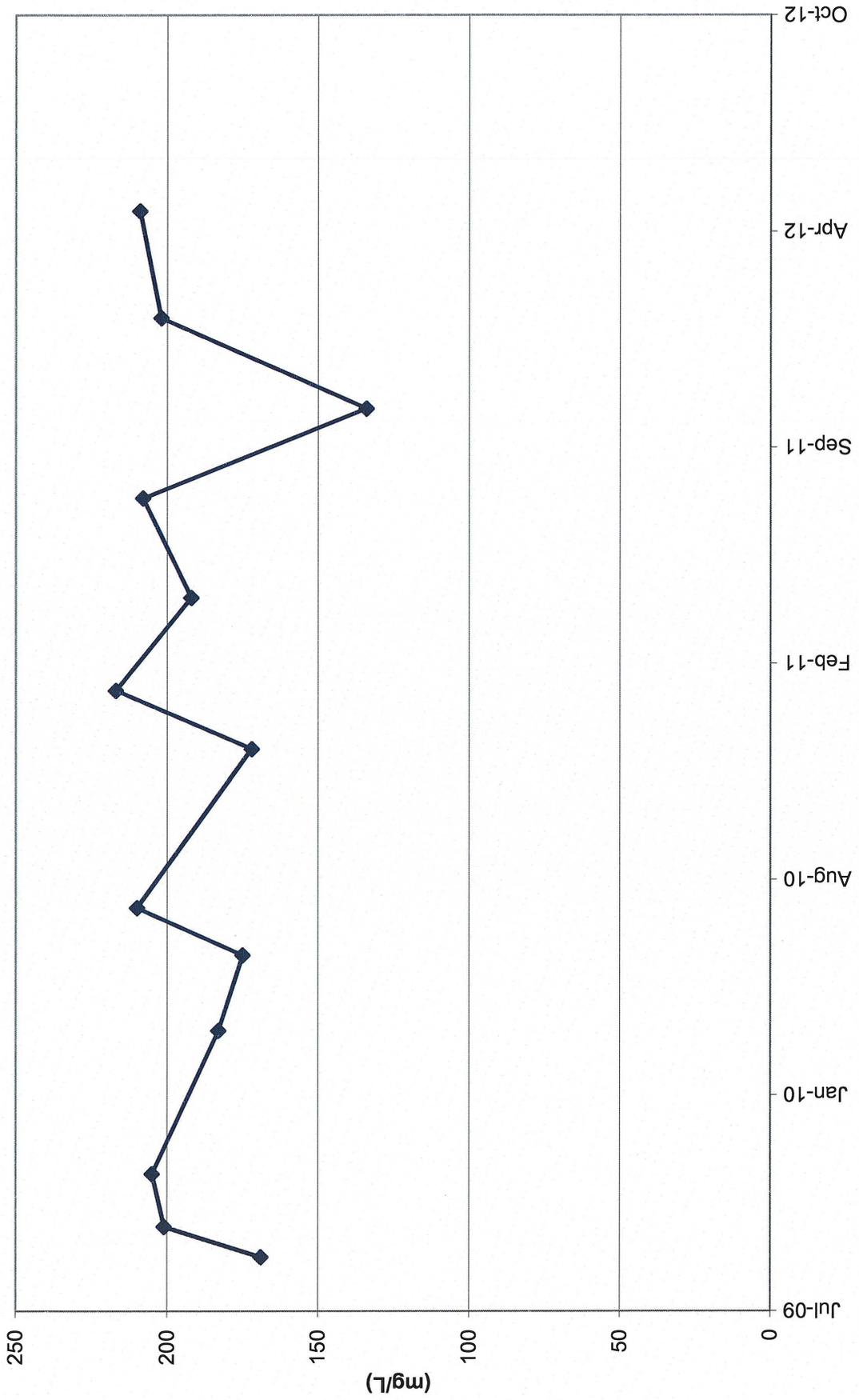
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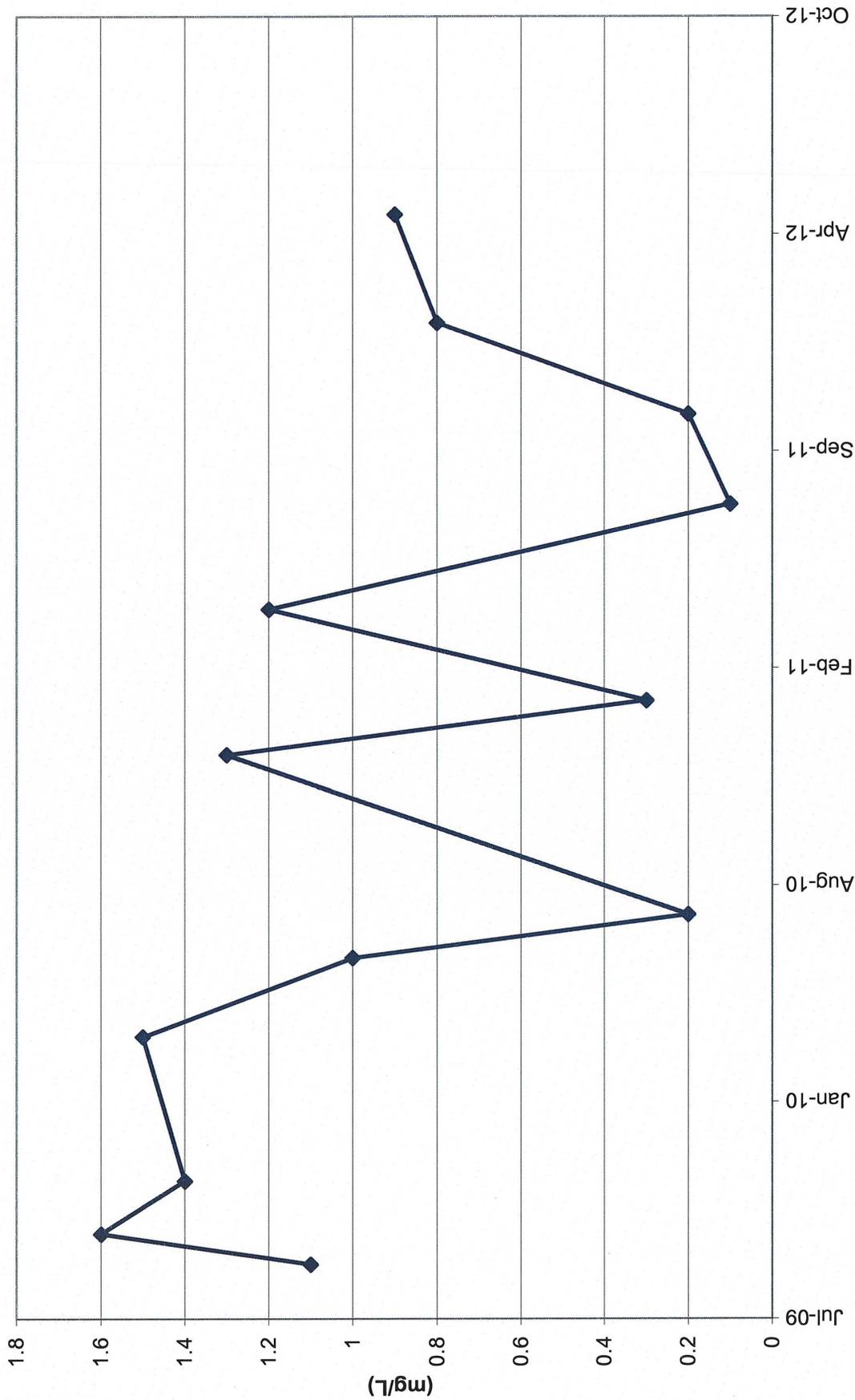
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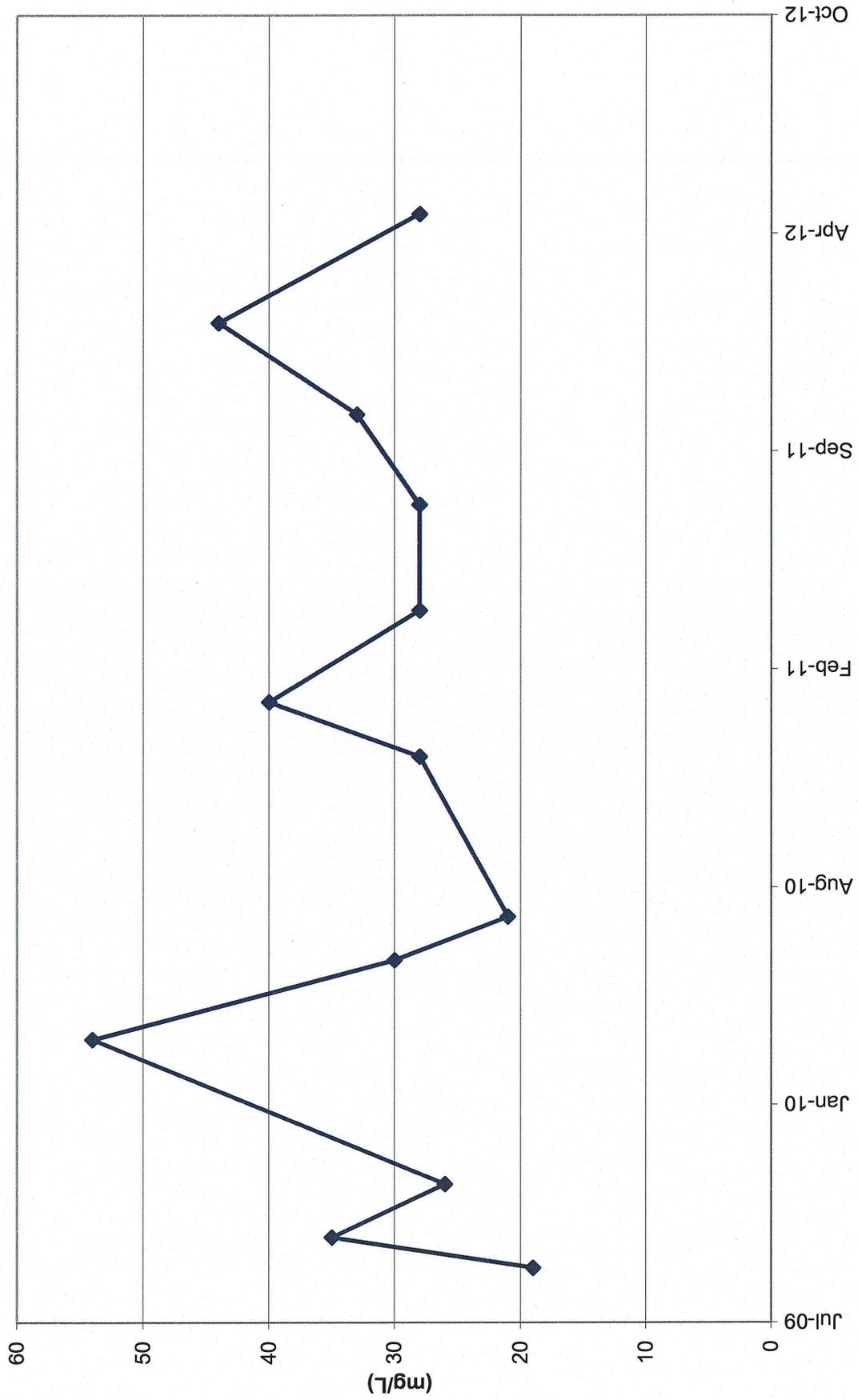
TWN-9 Chloride Concentrations



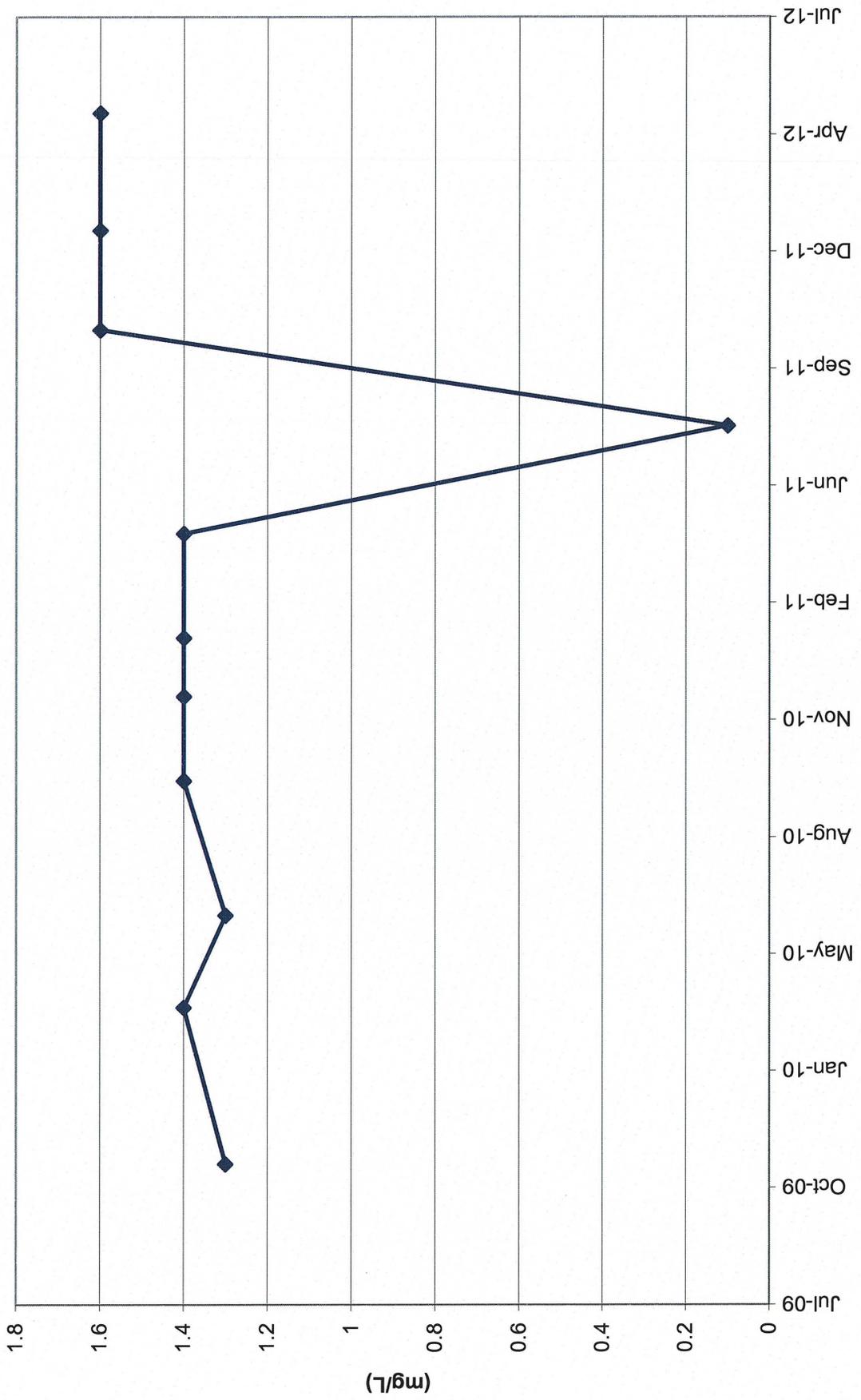
TWN-10 Nitrate Concentrations



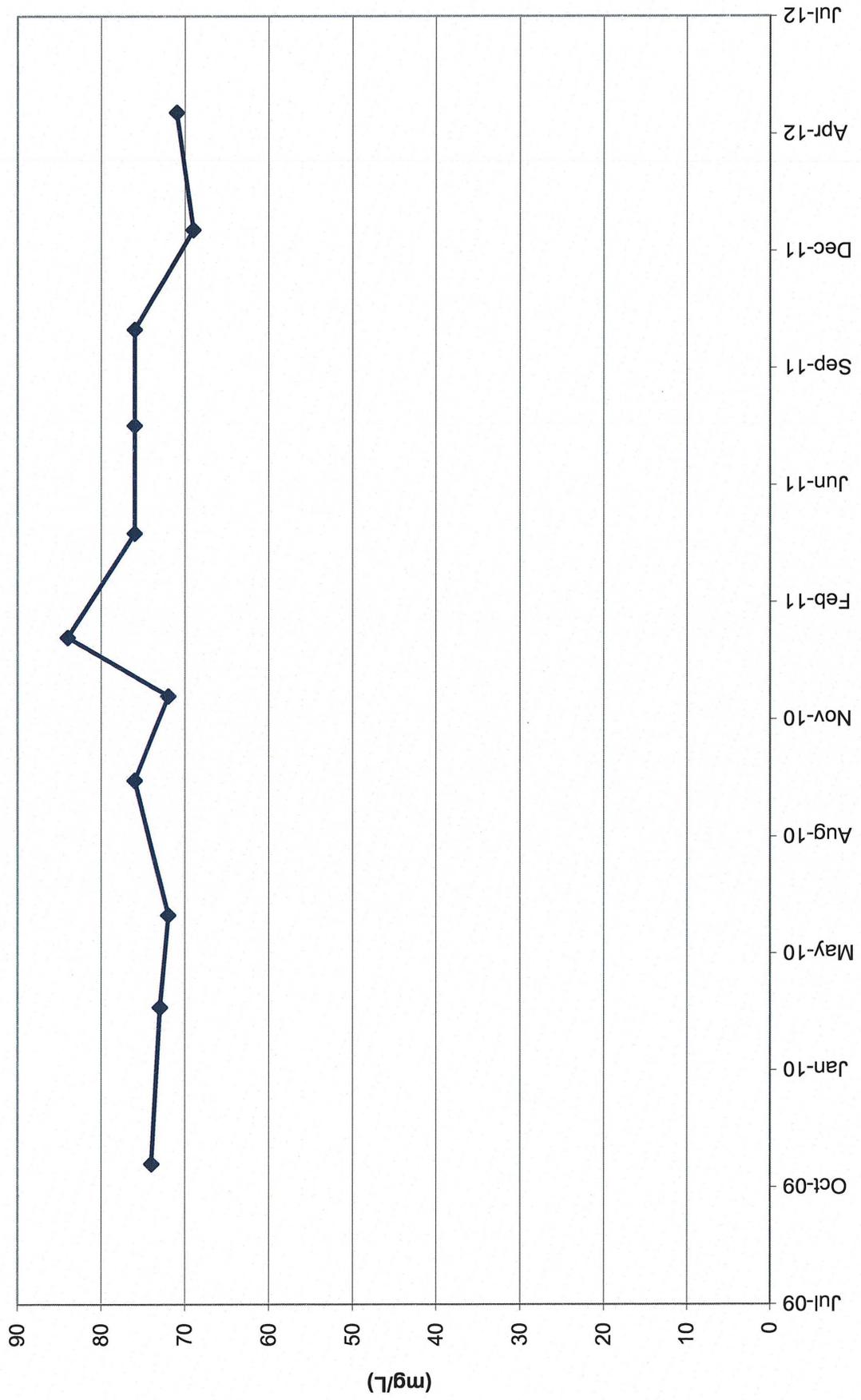
TWN-10 Chloride Concentrations



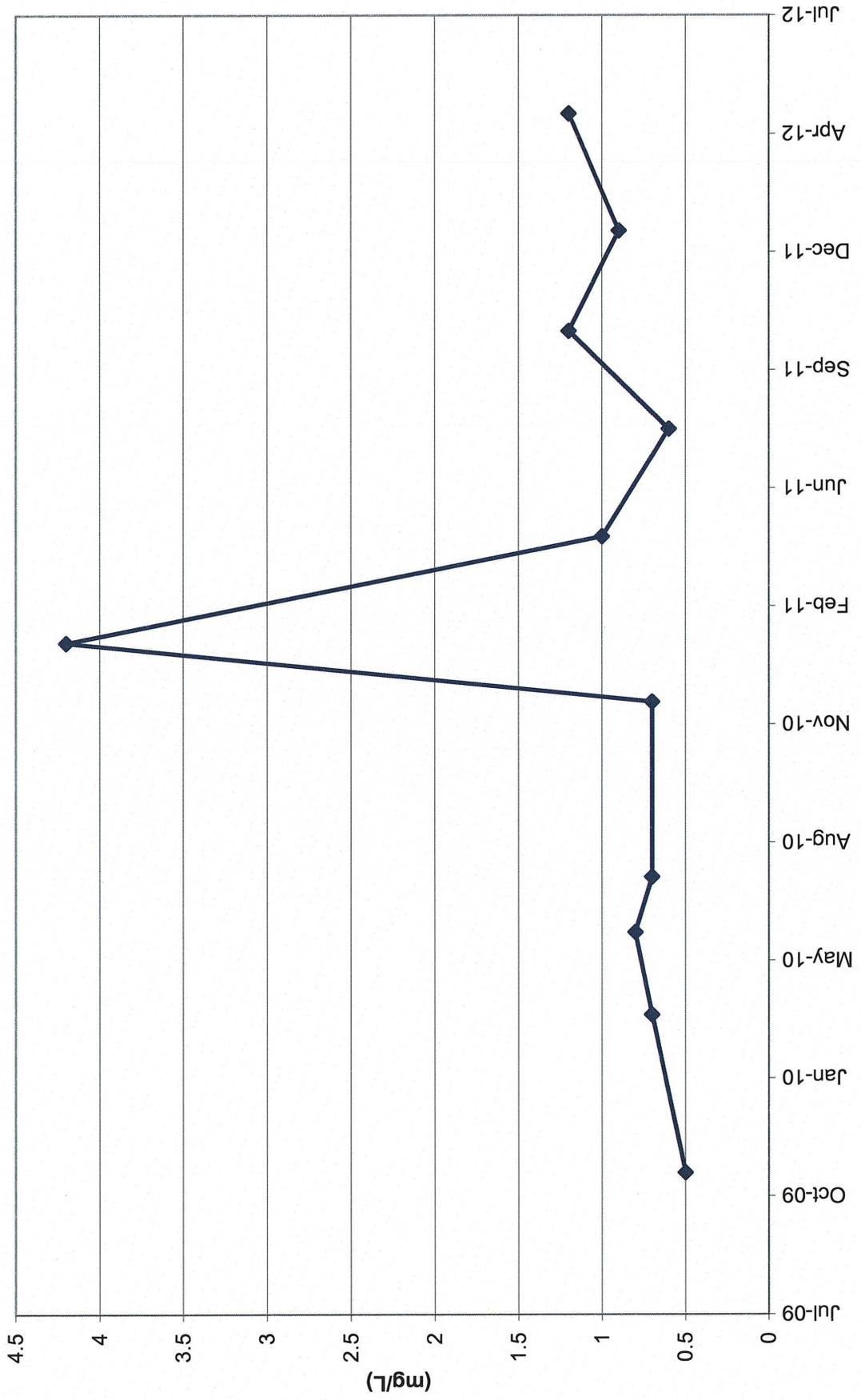
TWN-11 Nitrate Concentrations



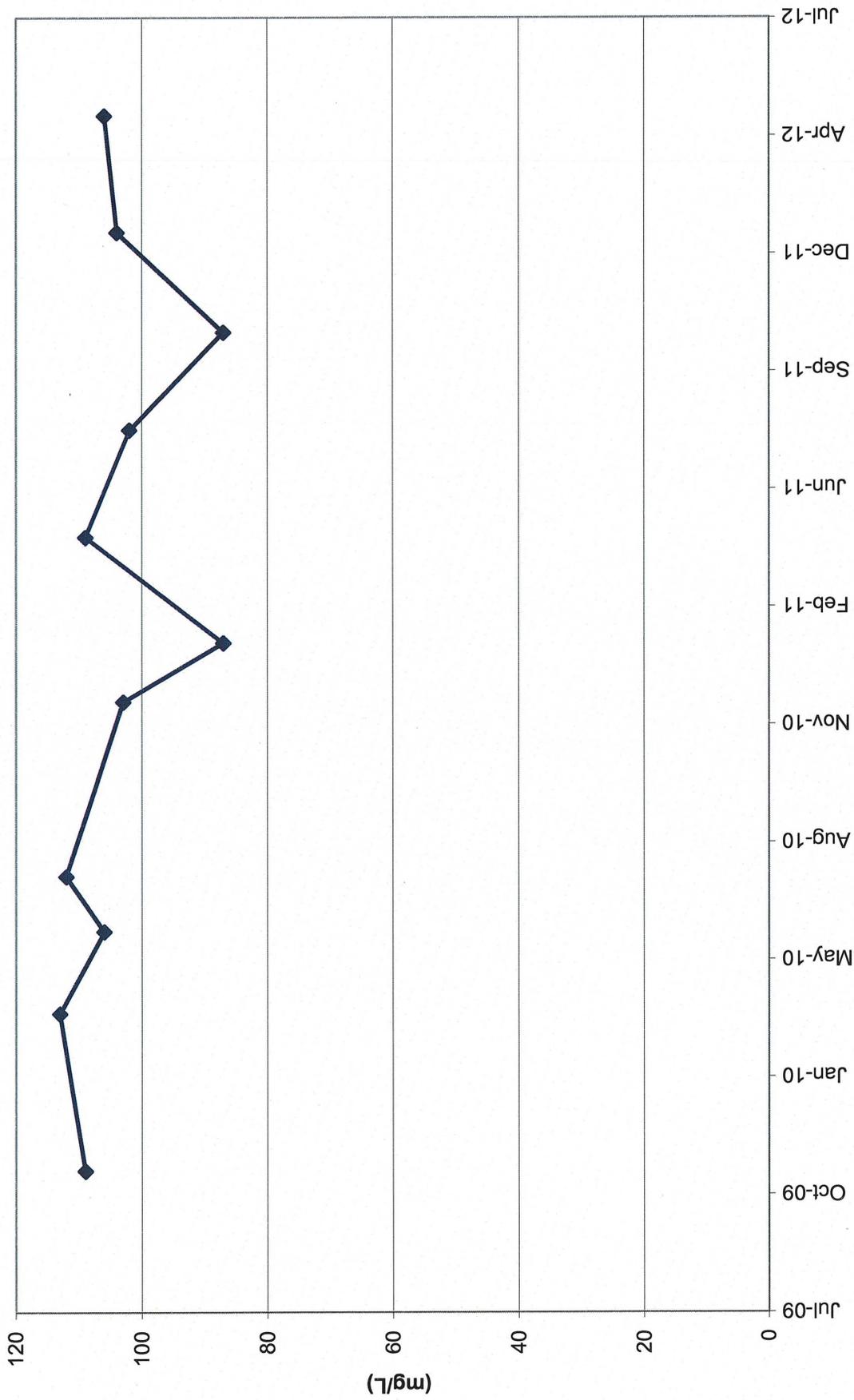
TWN-11 Chloride Concentrations



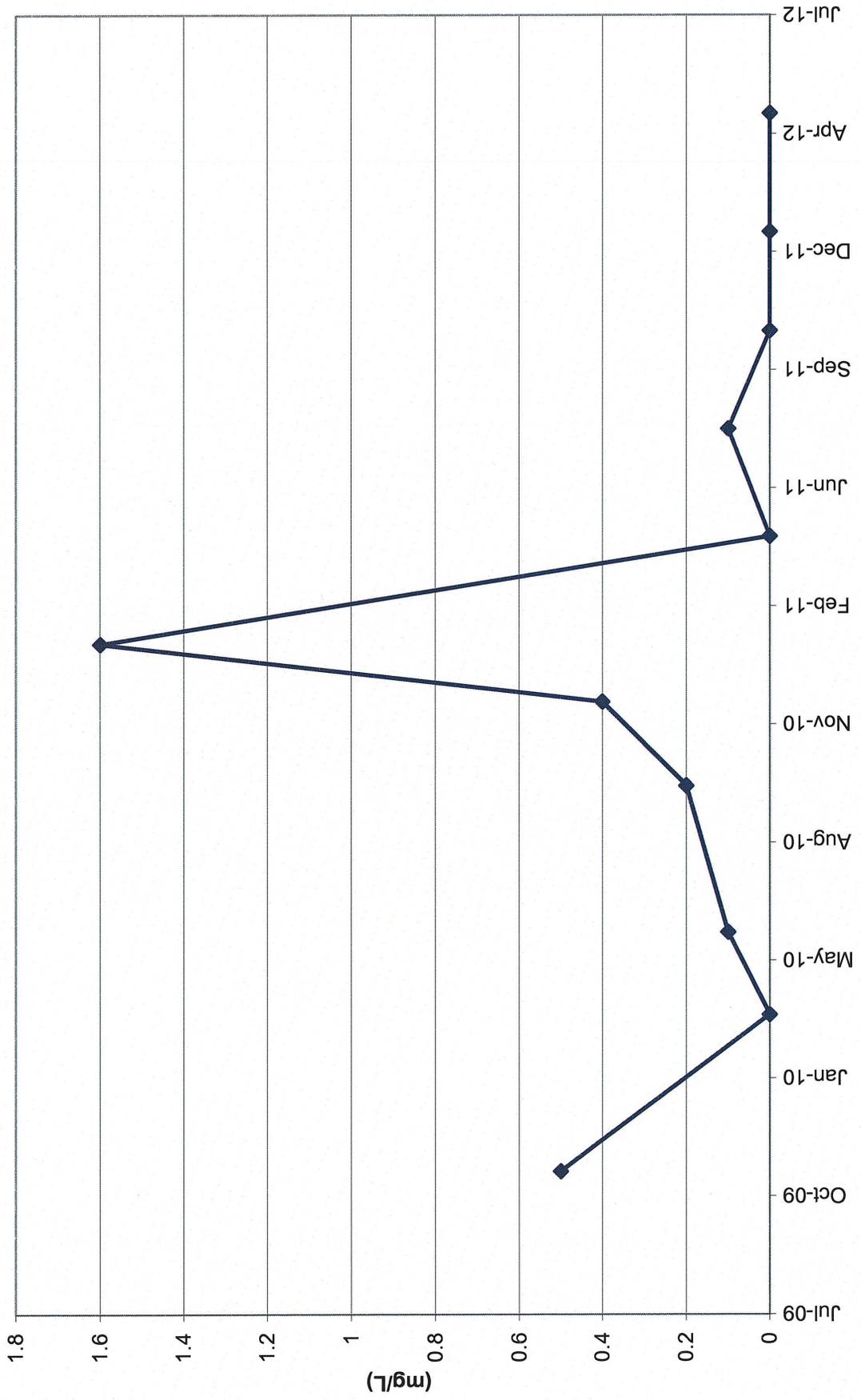
TWN-12 Nitrate Concentrations



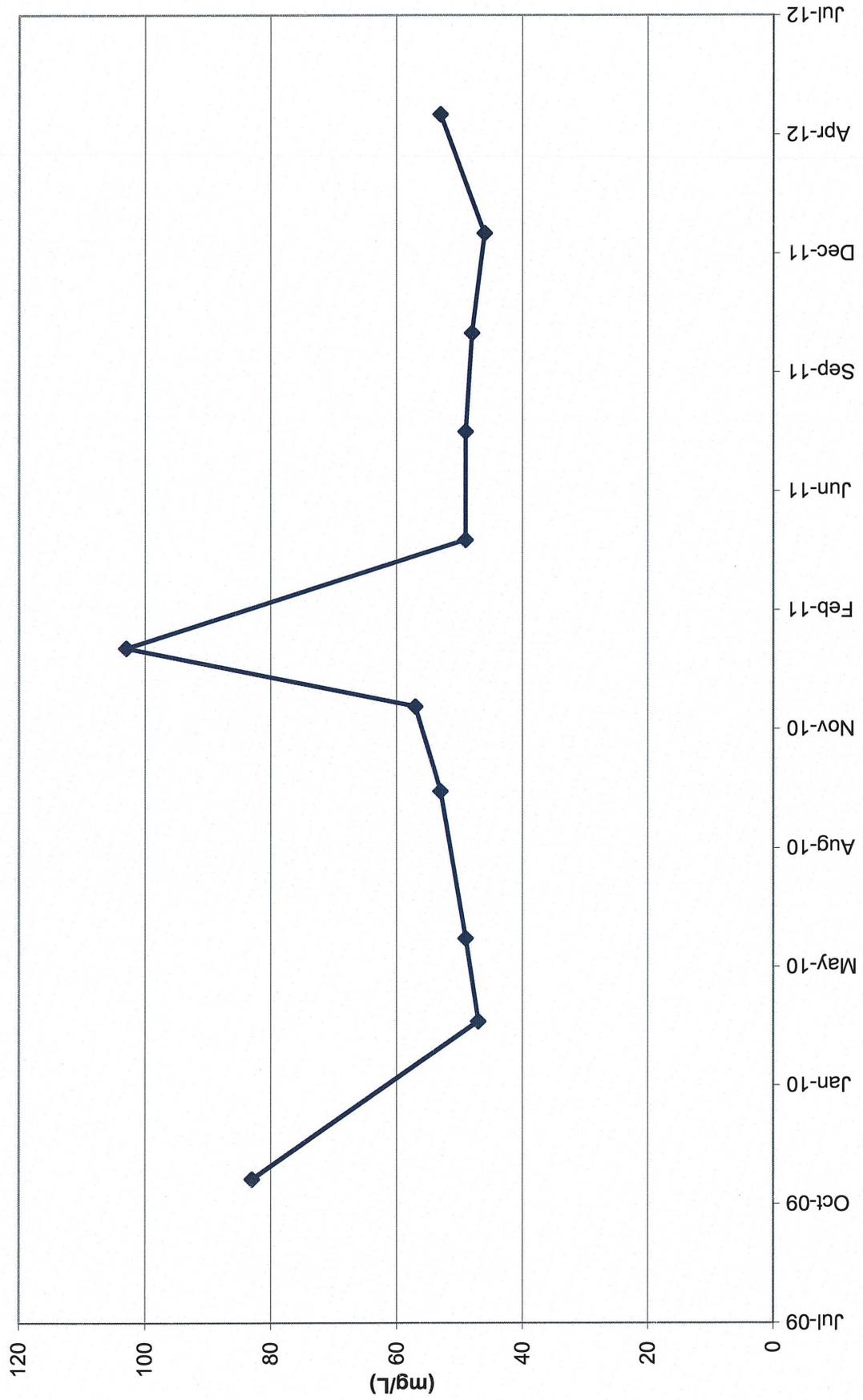
TWN-12 Chloride Concentrations



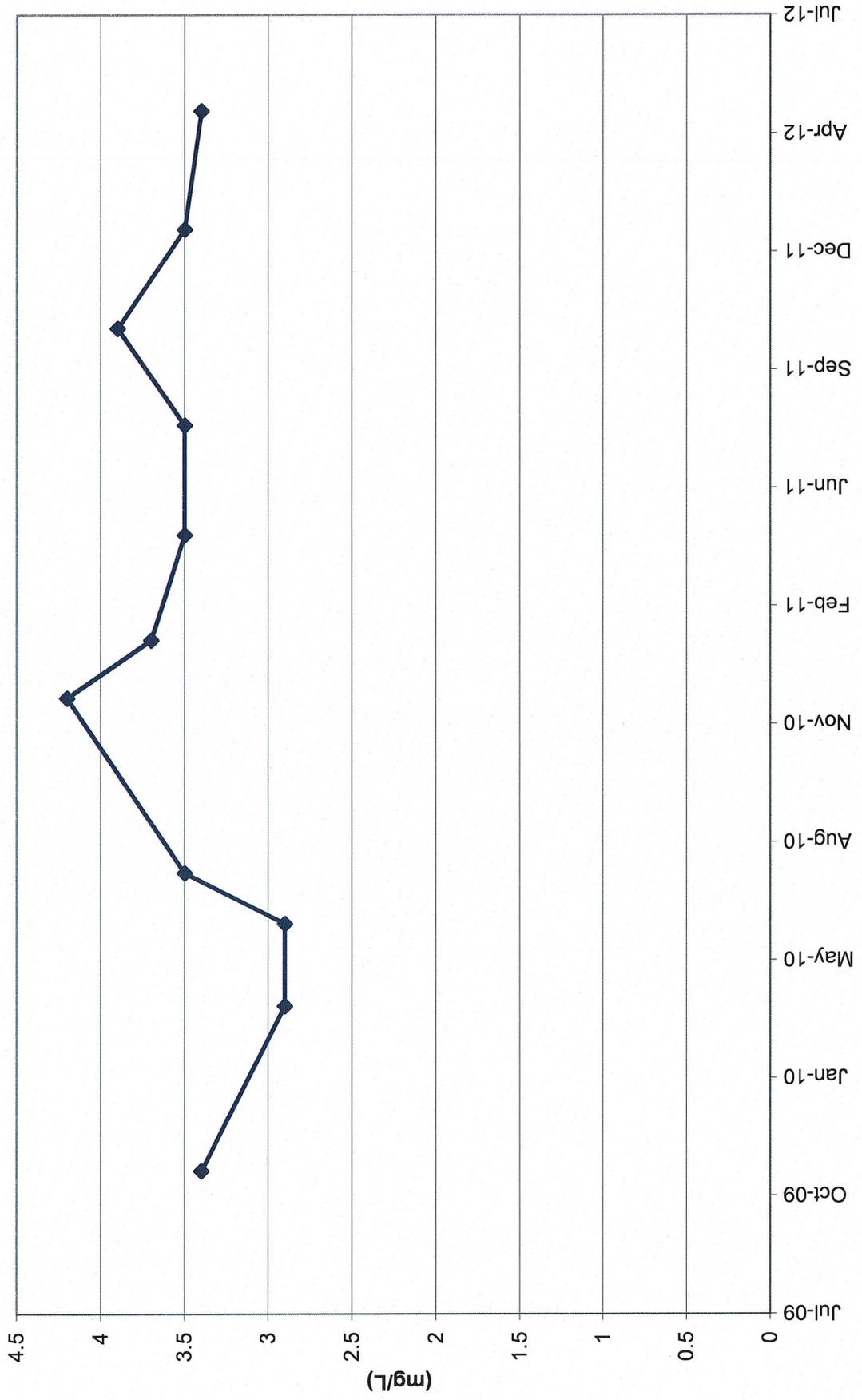
TWN-13 Nitrate Concentrations



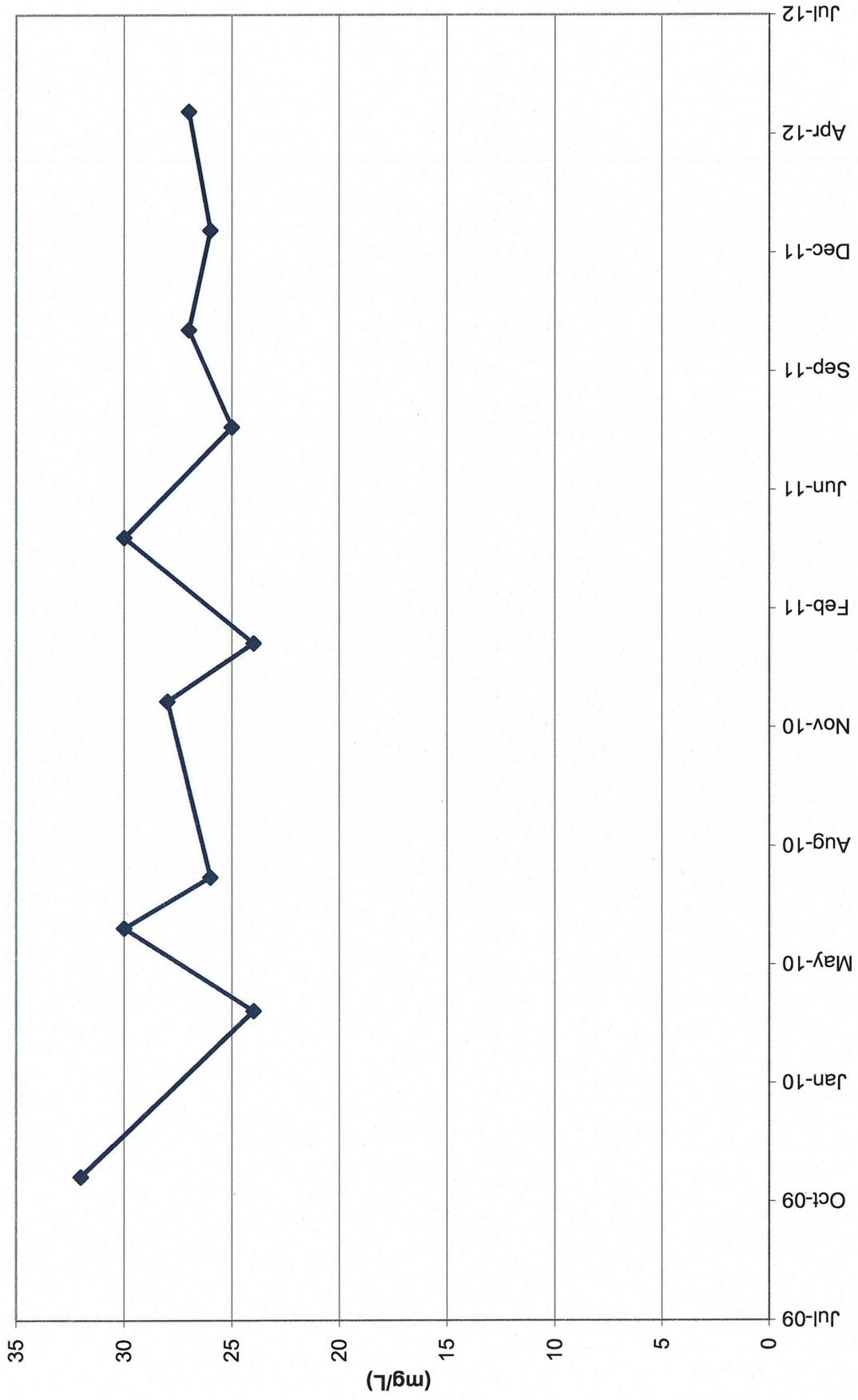
TWN-13 Chloride Concentrations



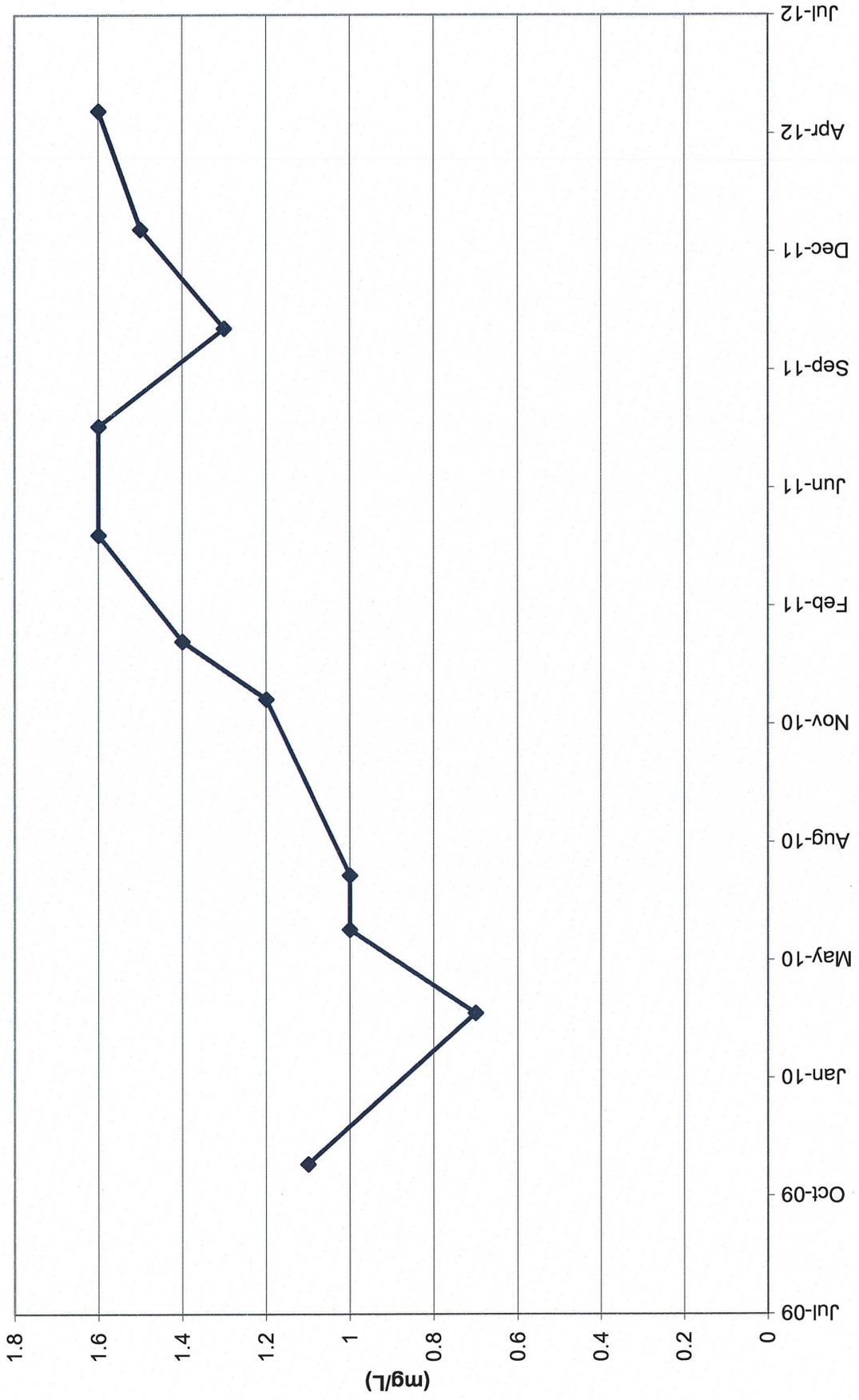
TWN-14 Nitrate Concentrations



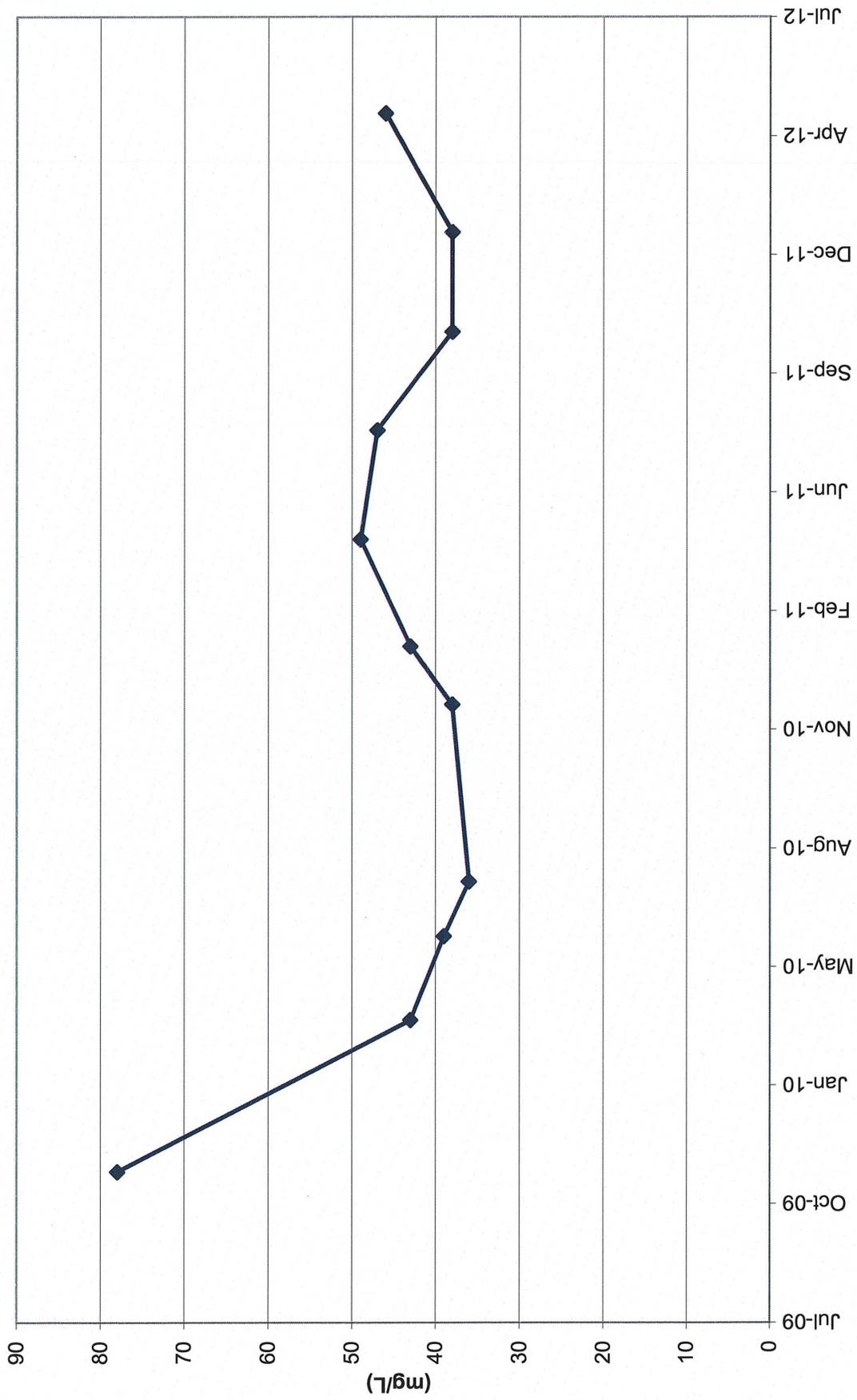
TWN-14 Chloride Concentrations



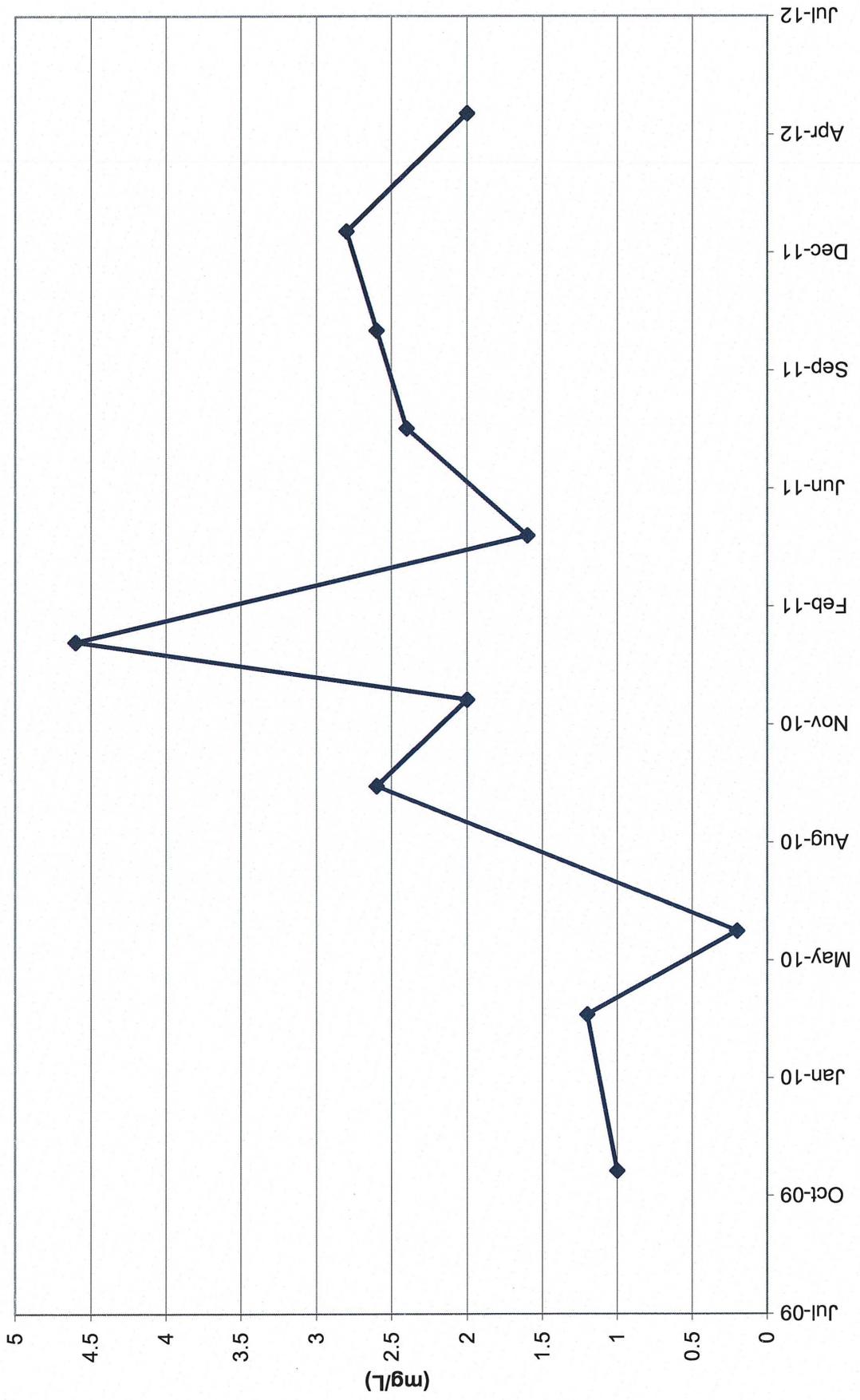
TWN-15 Nitrate Concentrations



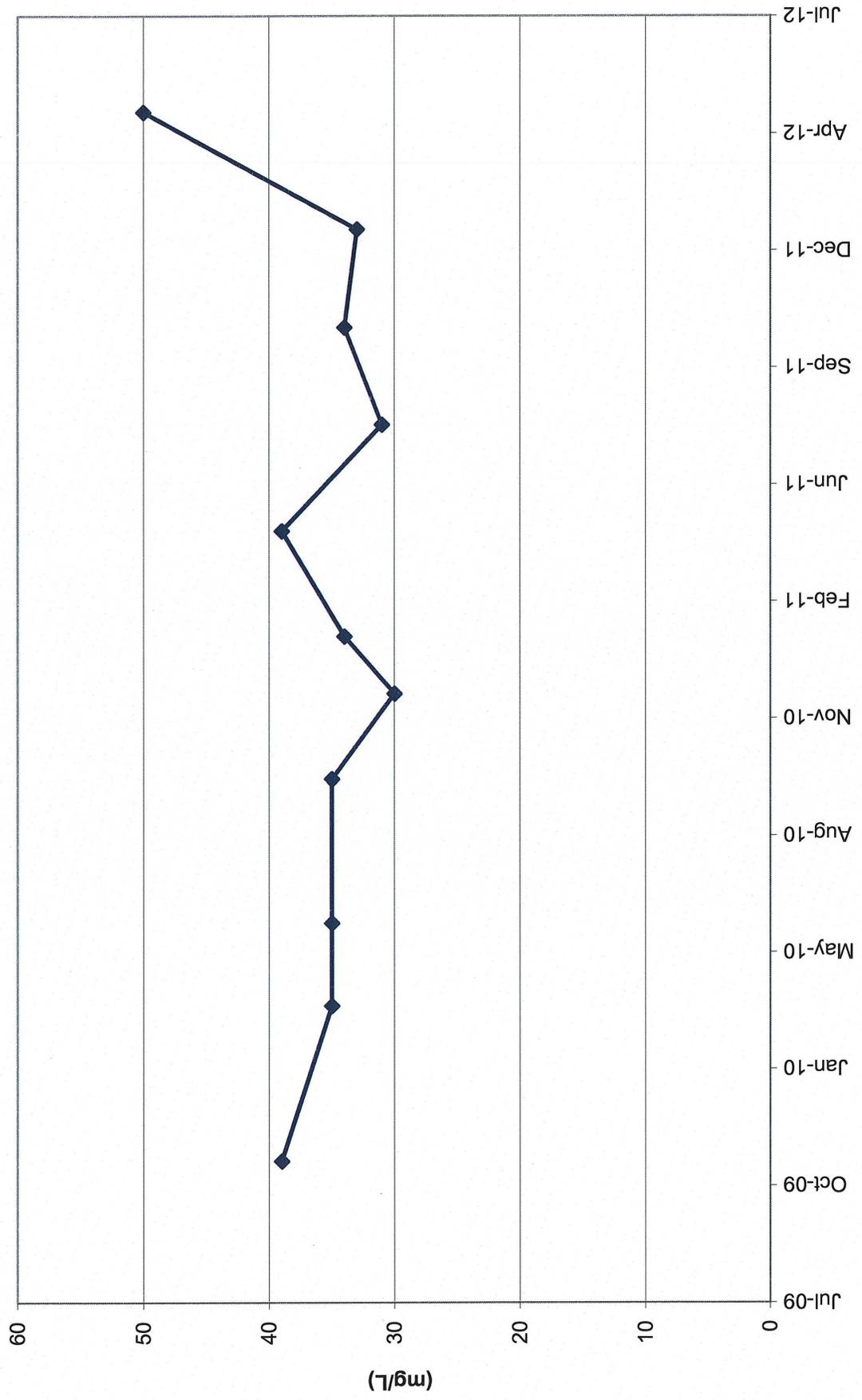
TWN-15 Chloride Concentrations



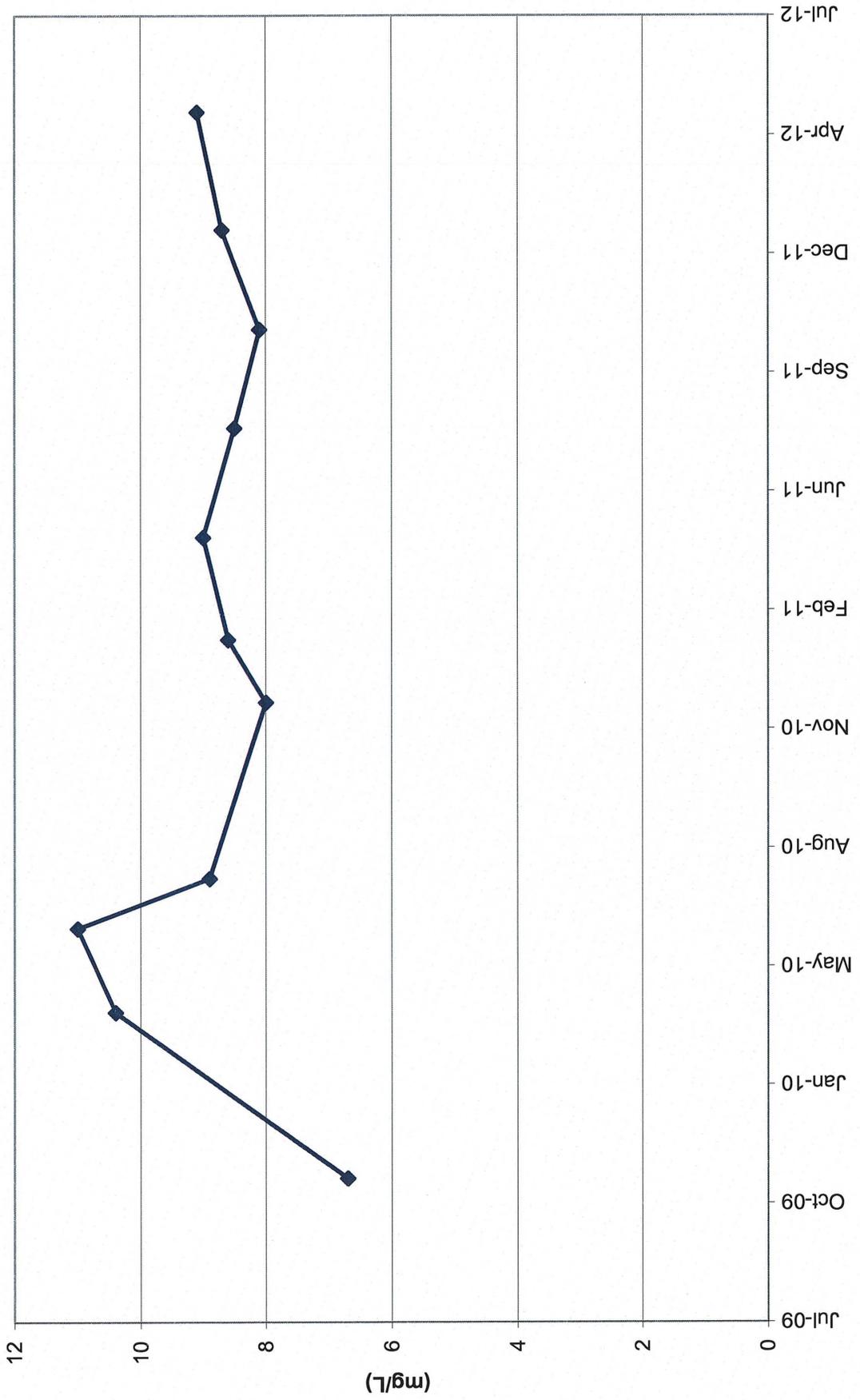
TWN-16 Nitrate Concentrations



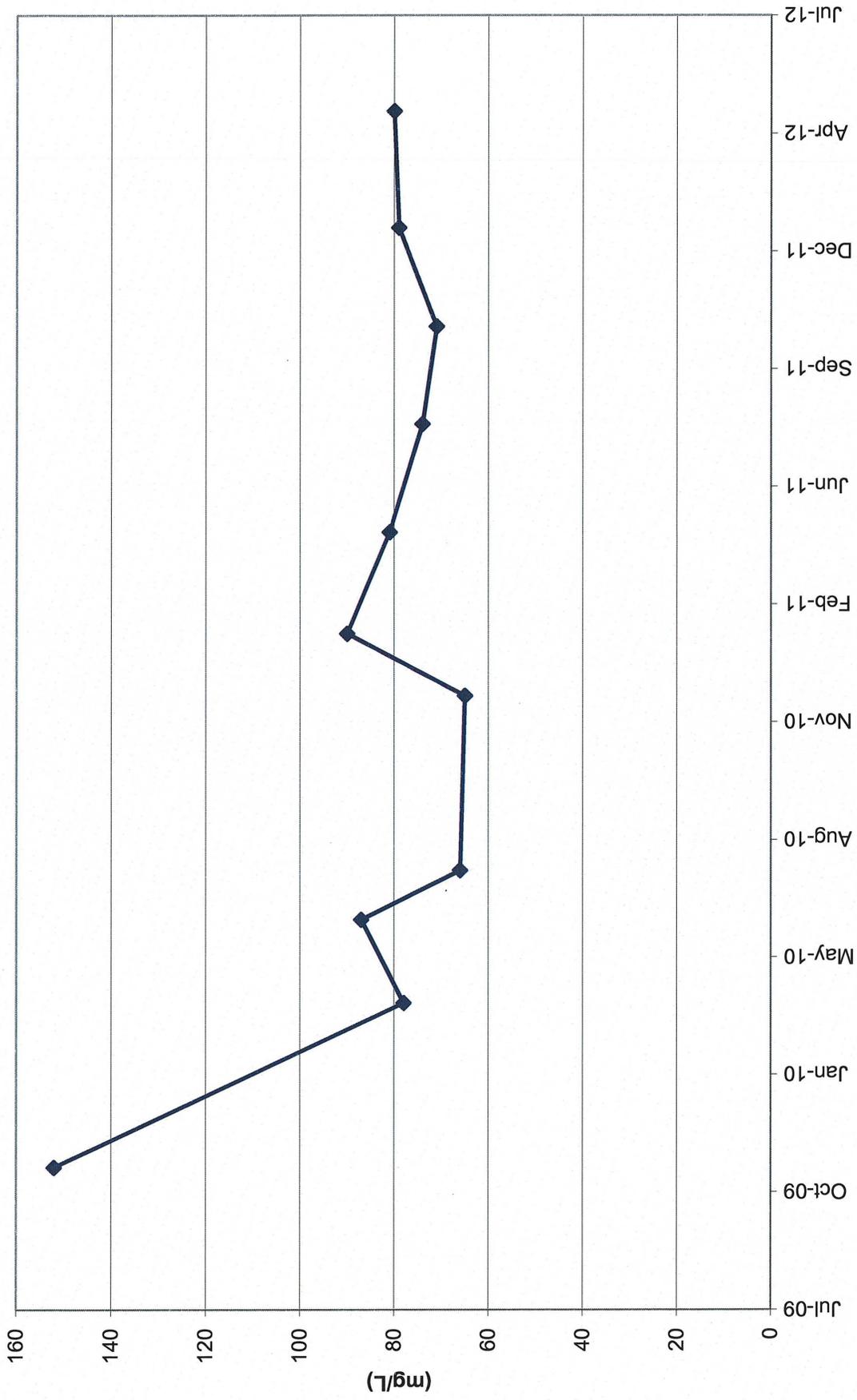
TWN-16 Chloride Concentrations



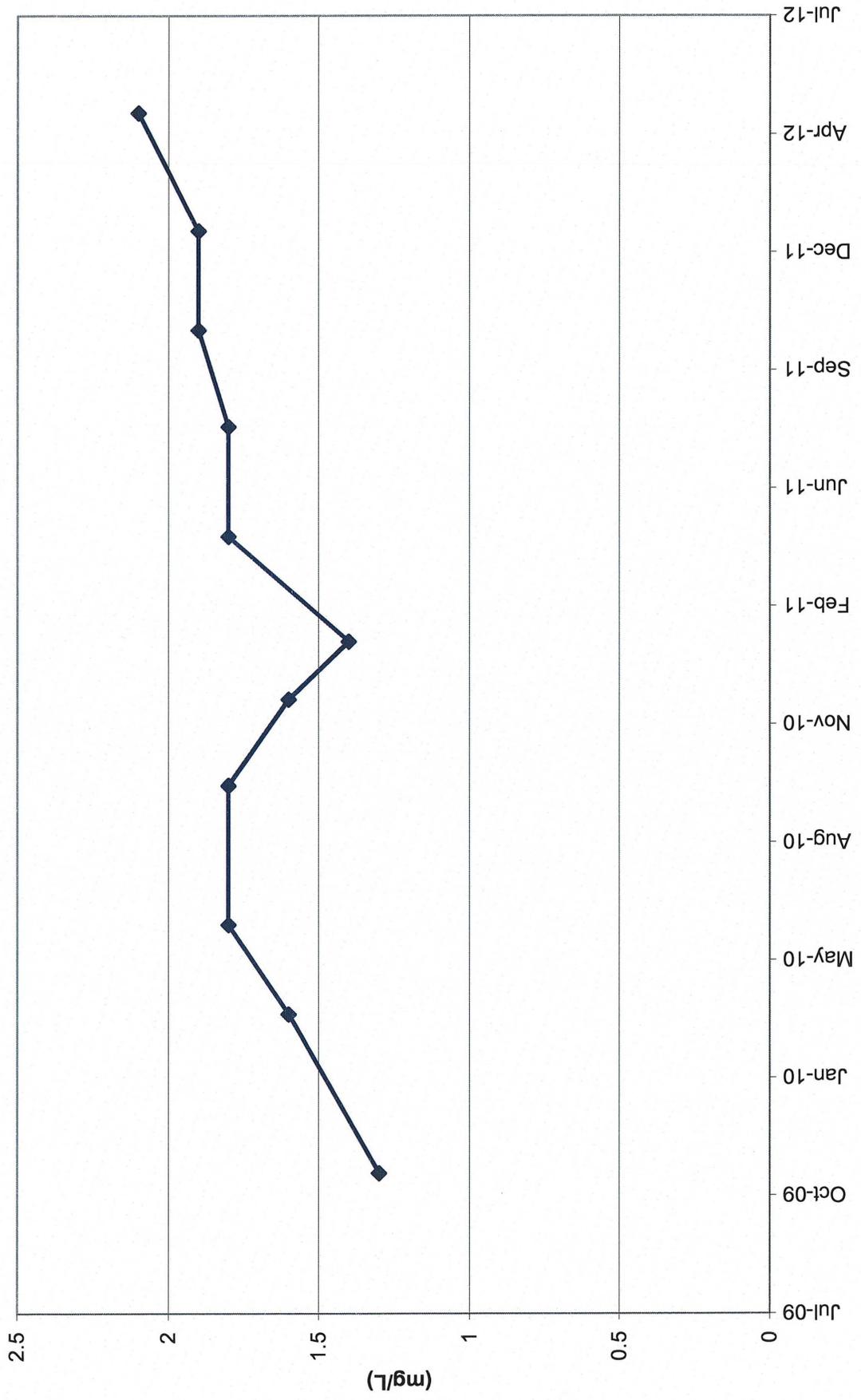
TWN-17 Nitrate Concentrations



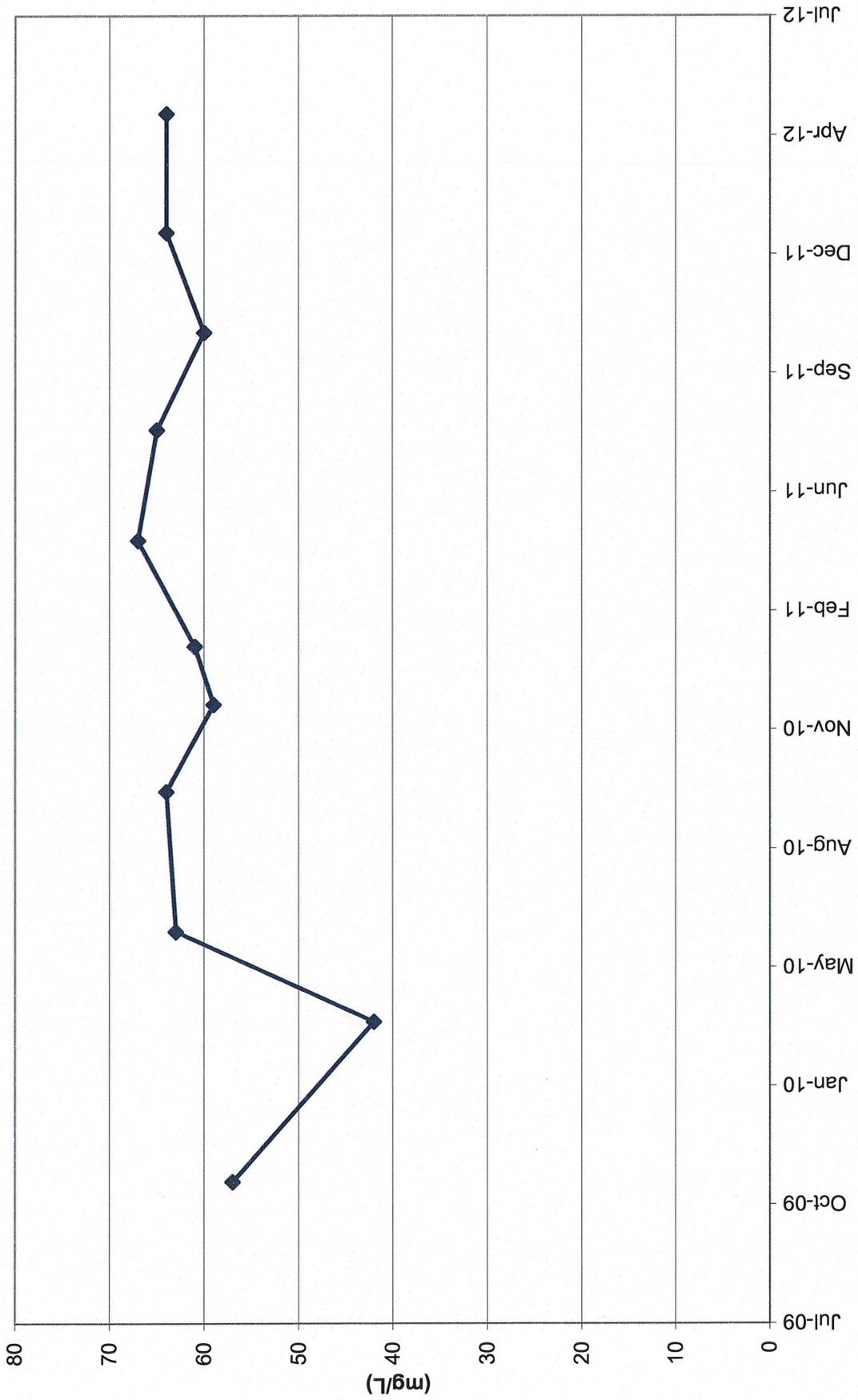
TWN-17 Chloride Concentrations



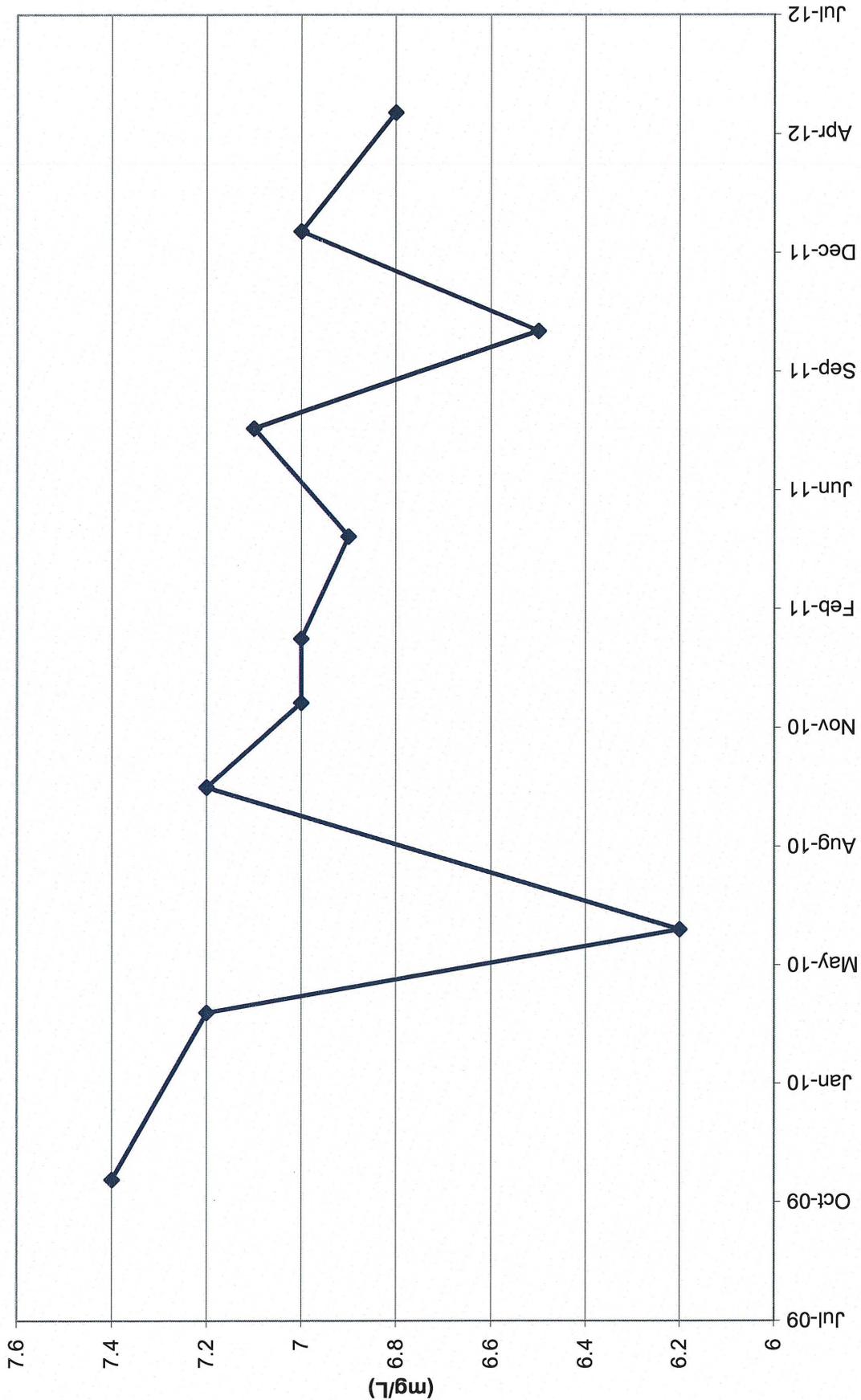
TWN-18 Nitrate Concentrations



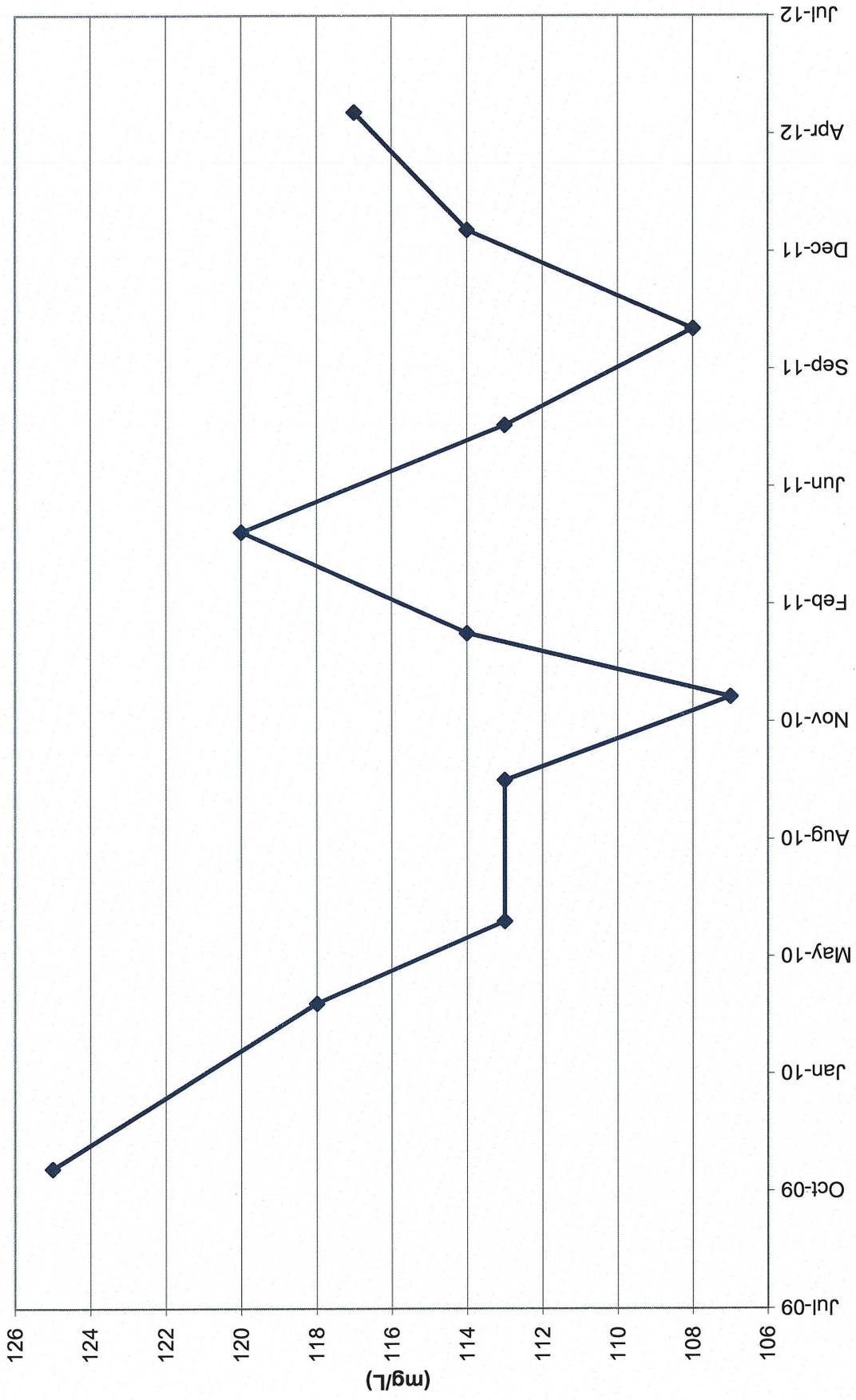
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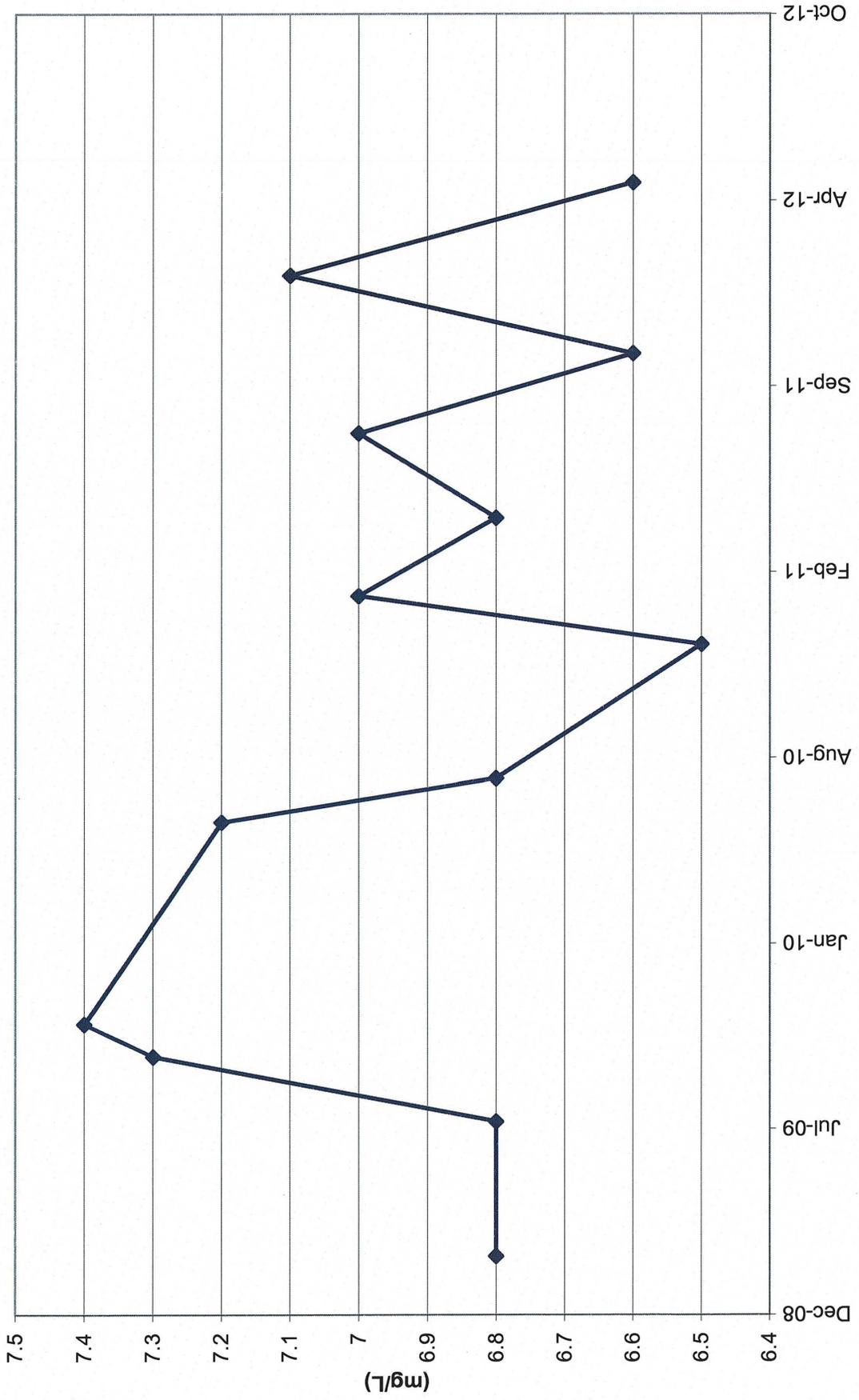
TWN-19 Nitrate Concentrations



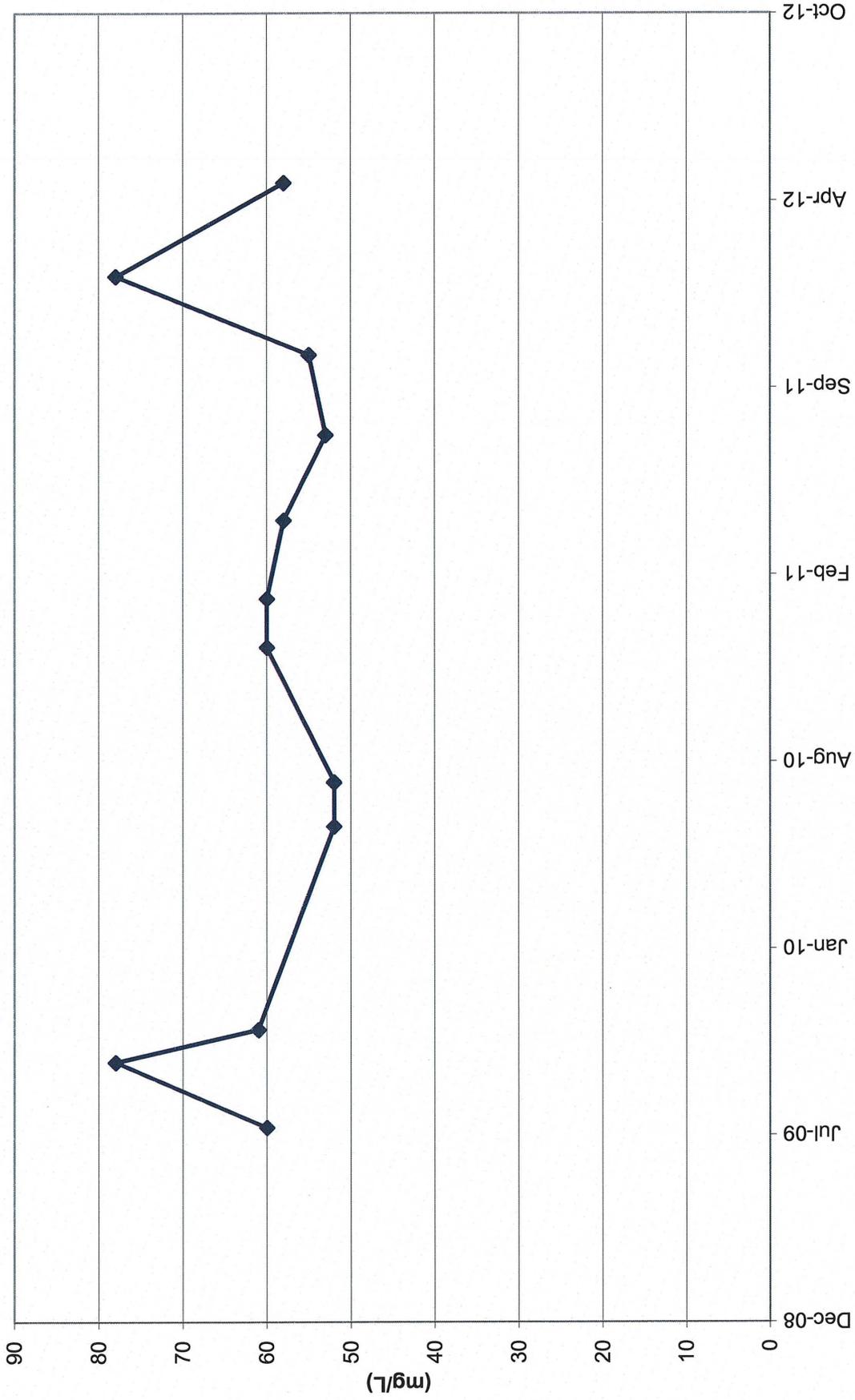
TWN-19 Chloride Concentrations



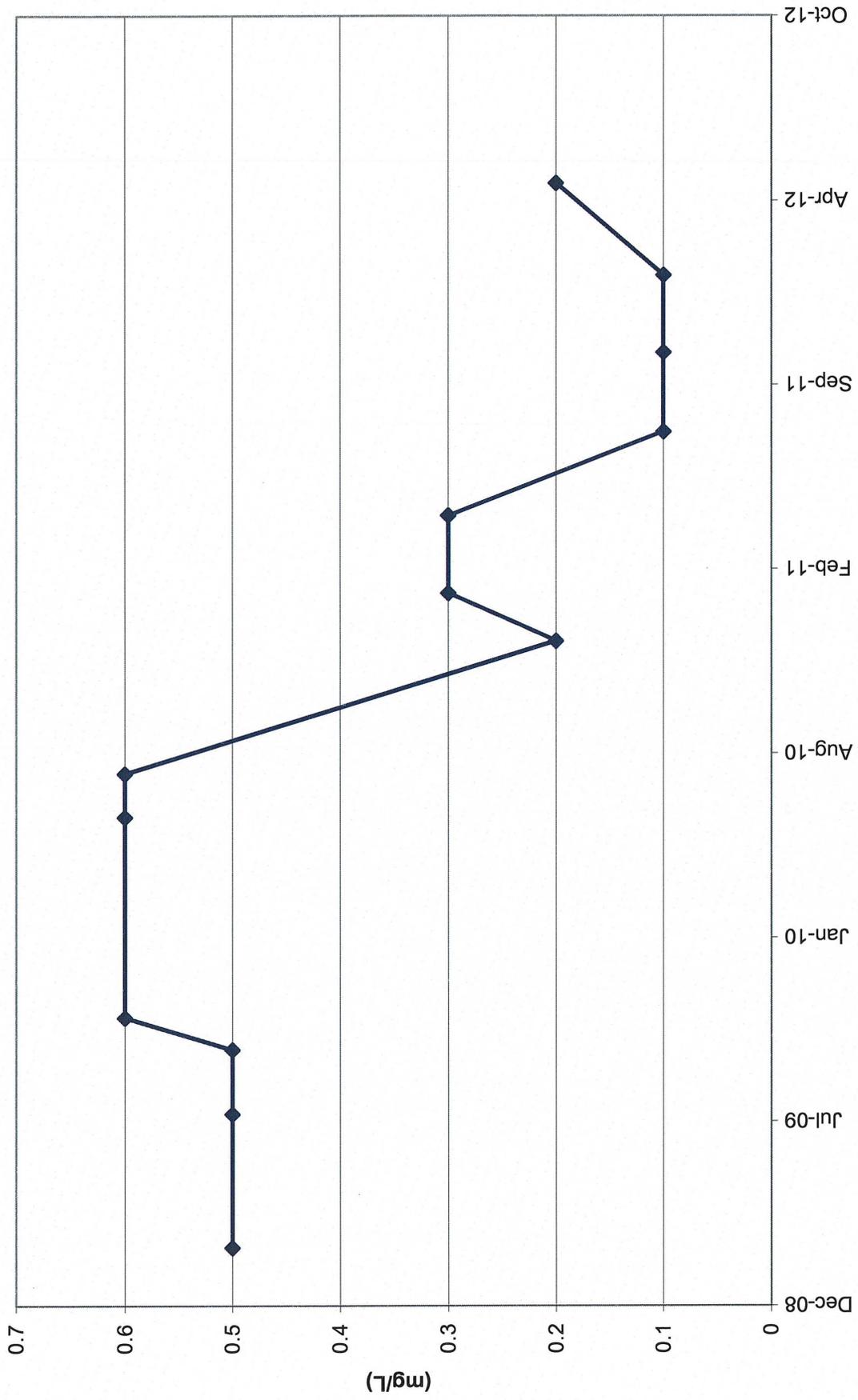
Piezometer 1 Nitrate Concentrations



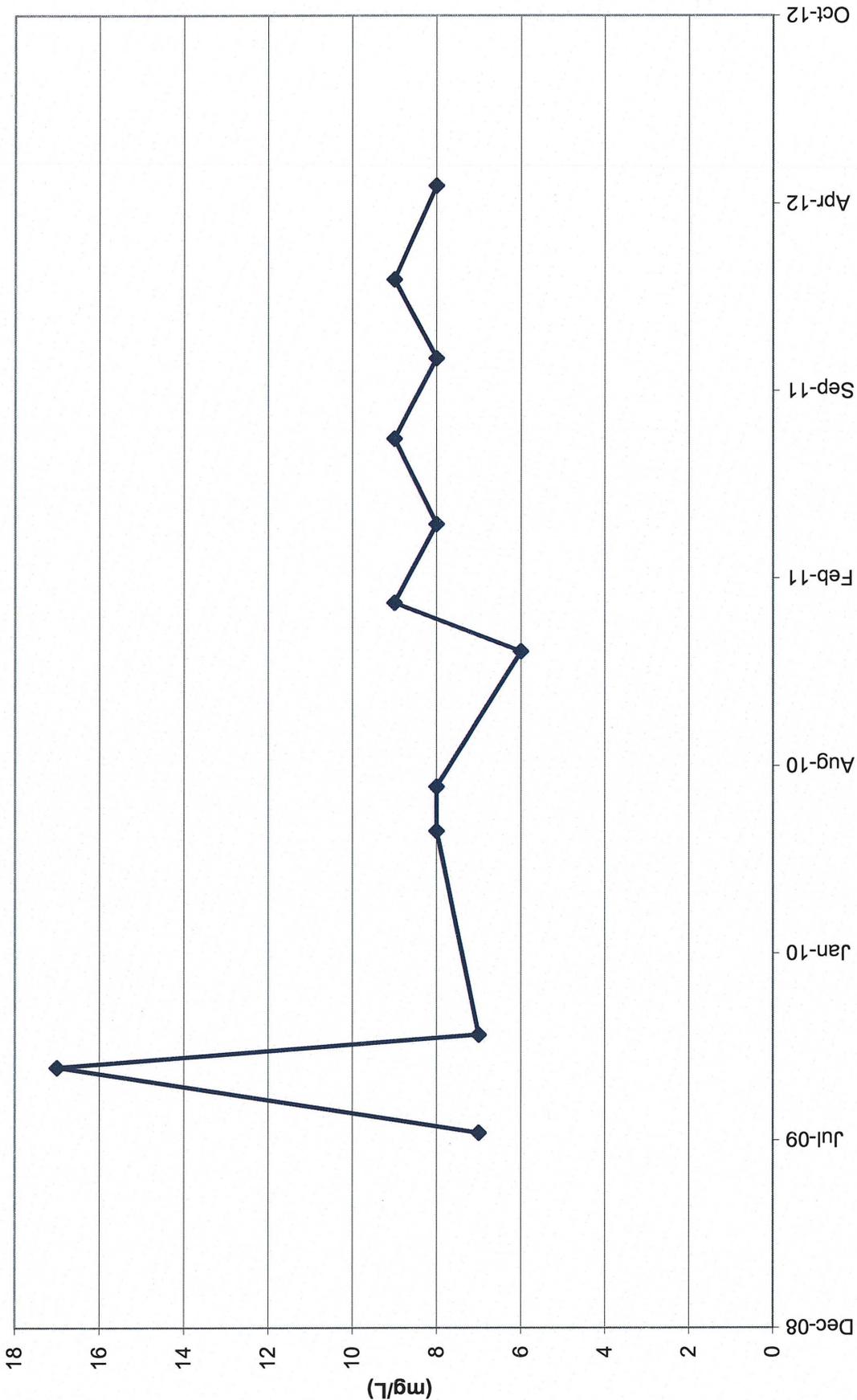
Piezometer 1 Chloride Concentrations



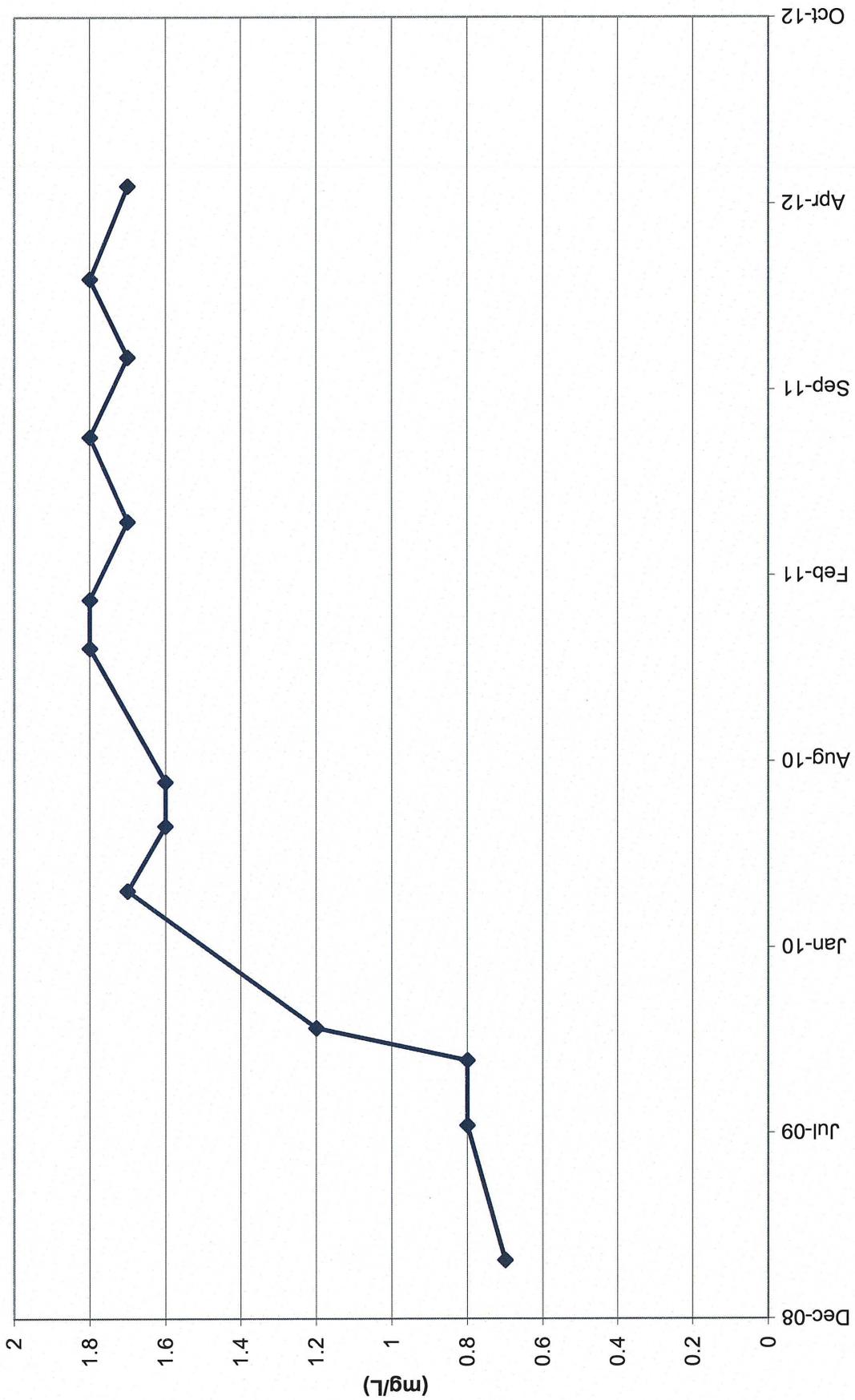
Piezometer 2 Nitrate Concentrations



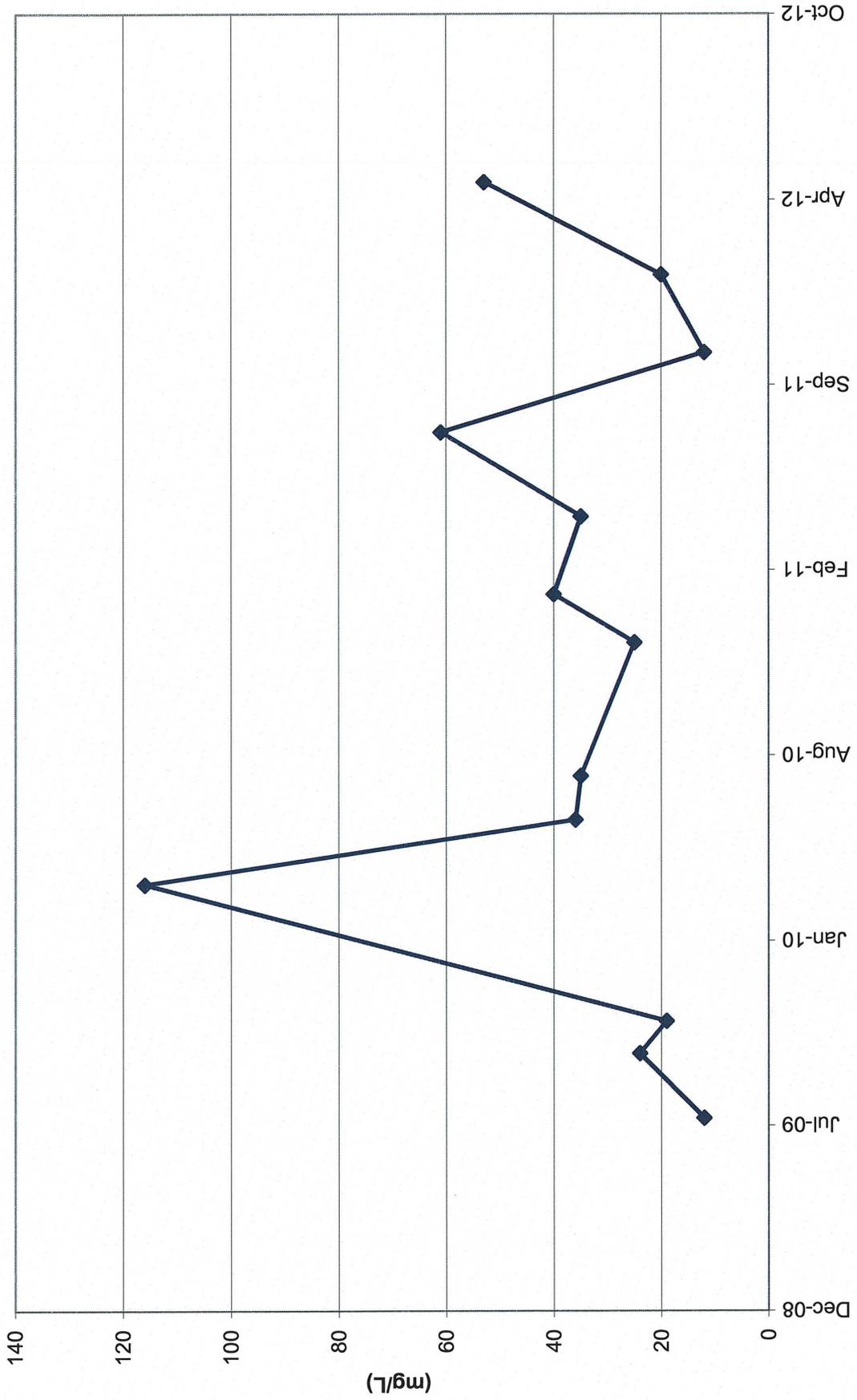
Piezometer 2 Chloride Concentrations



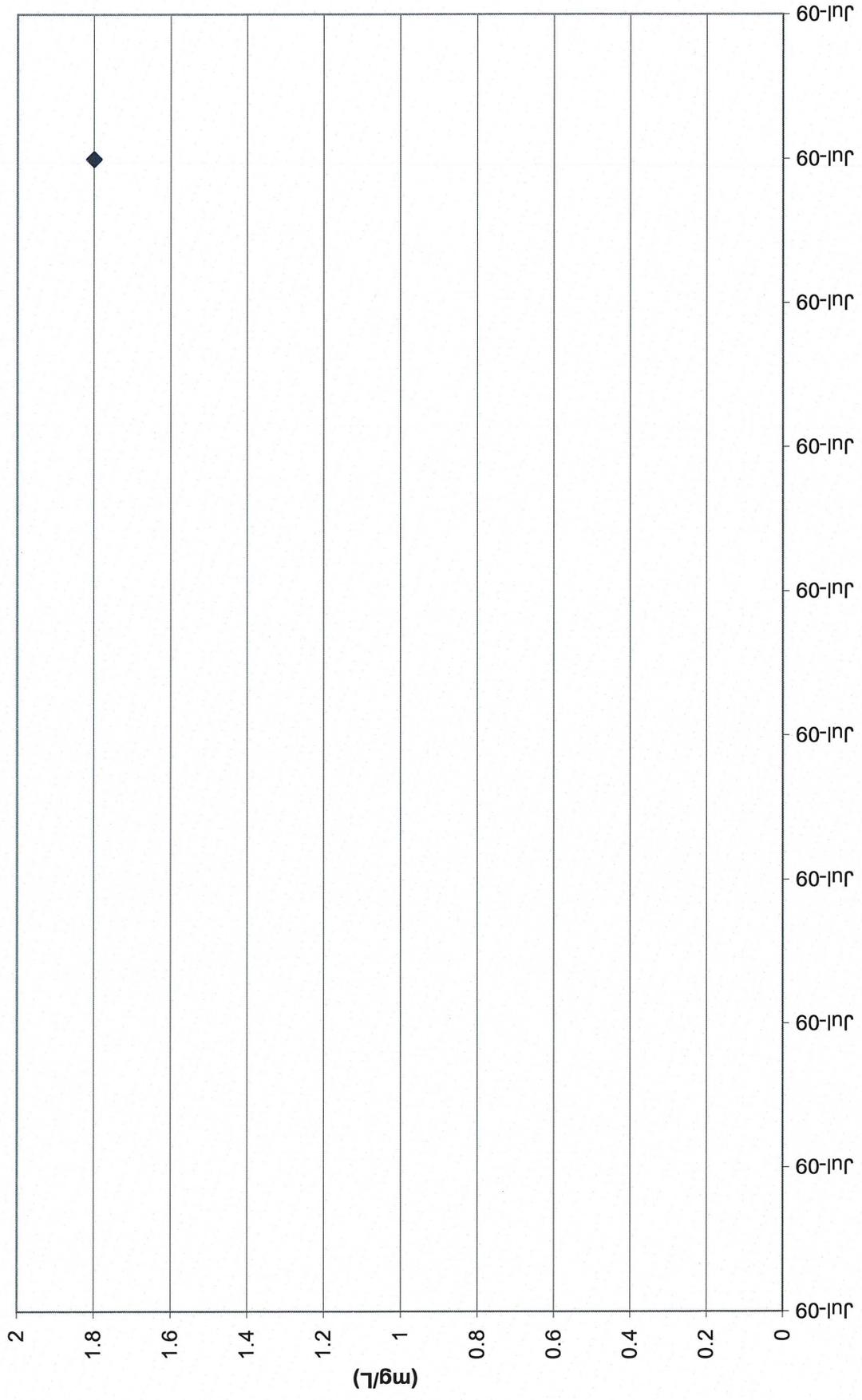
Piezometer 3 Nitrate Concentrations



Piezometer 3 Chloride Concentrations



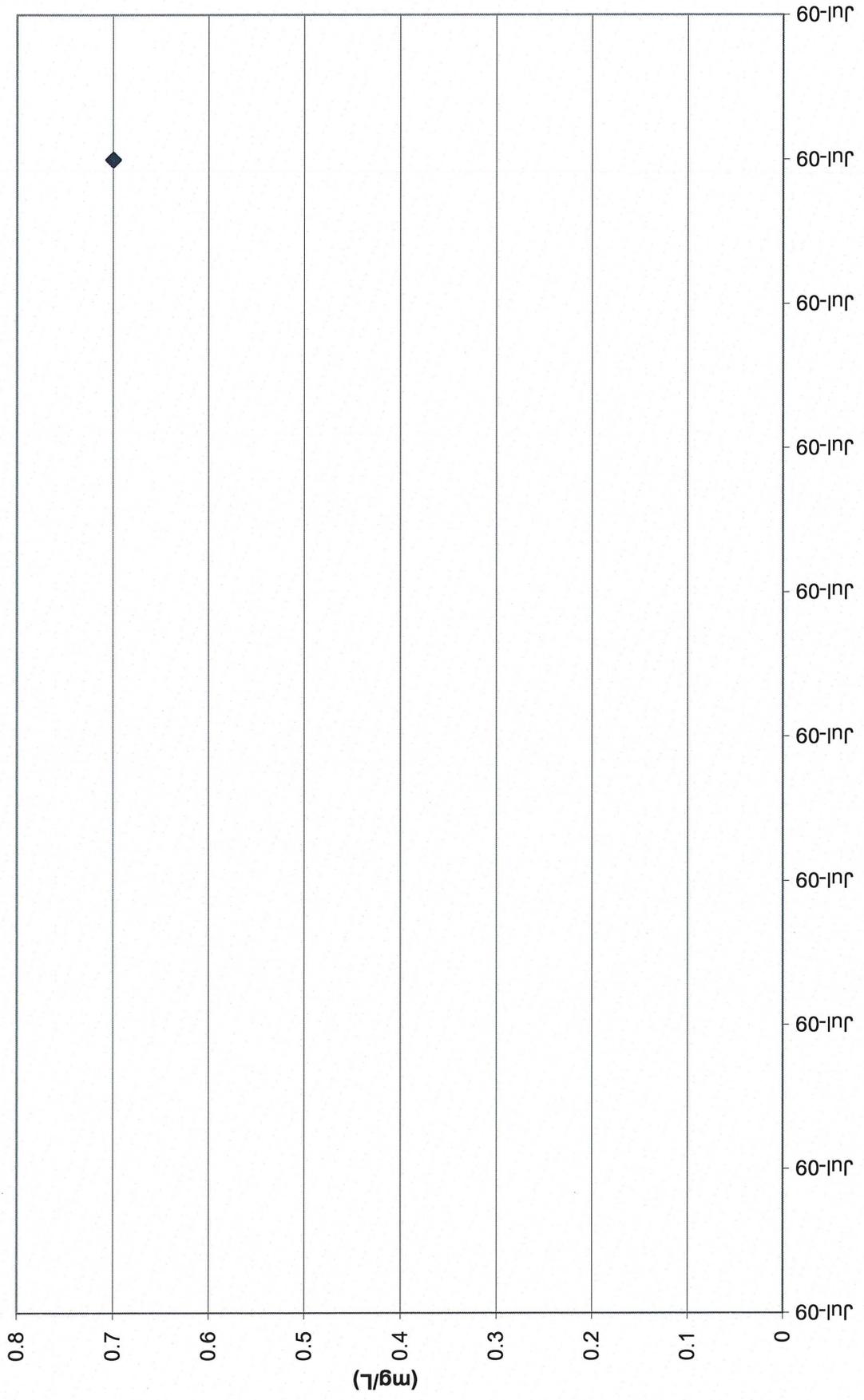
Piezometer 4 Nitrate Concentrations



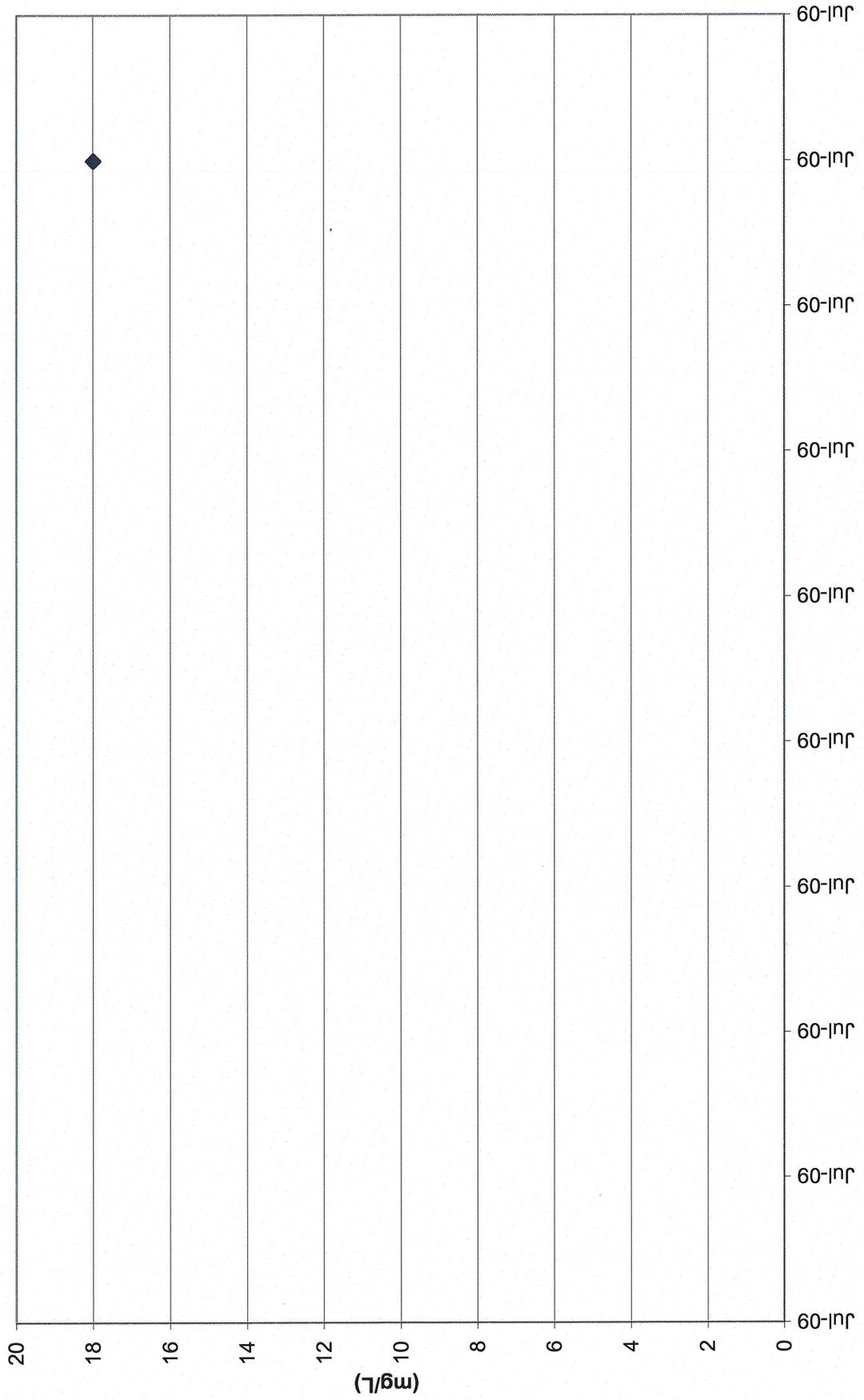
Piezometer 4 Chloride Concentrations



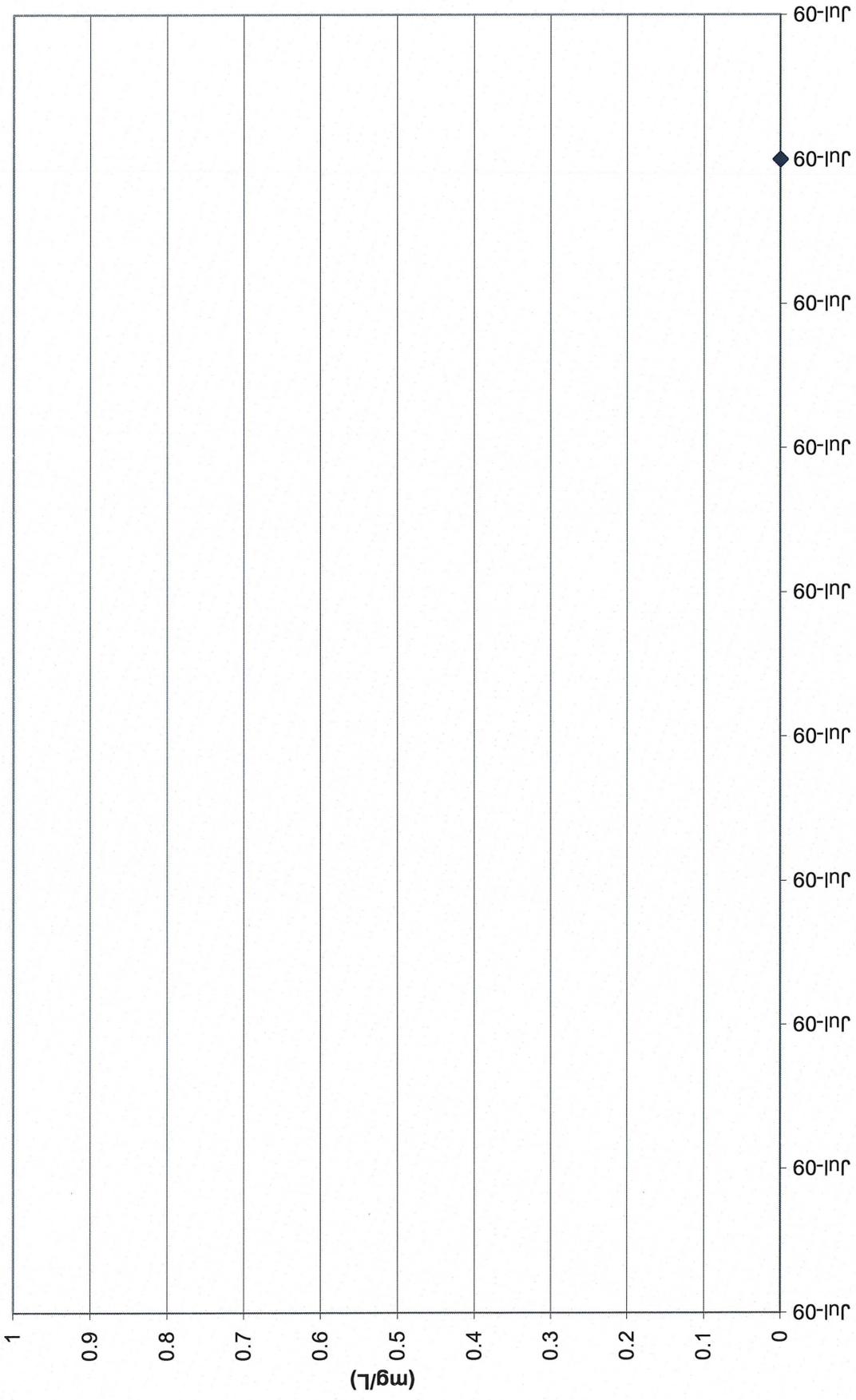
Piezometer 5 Nitrate Concentrations



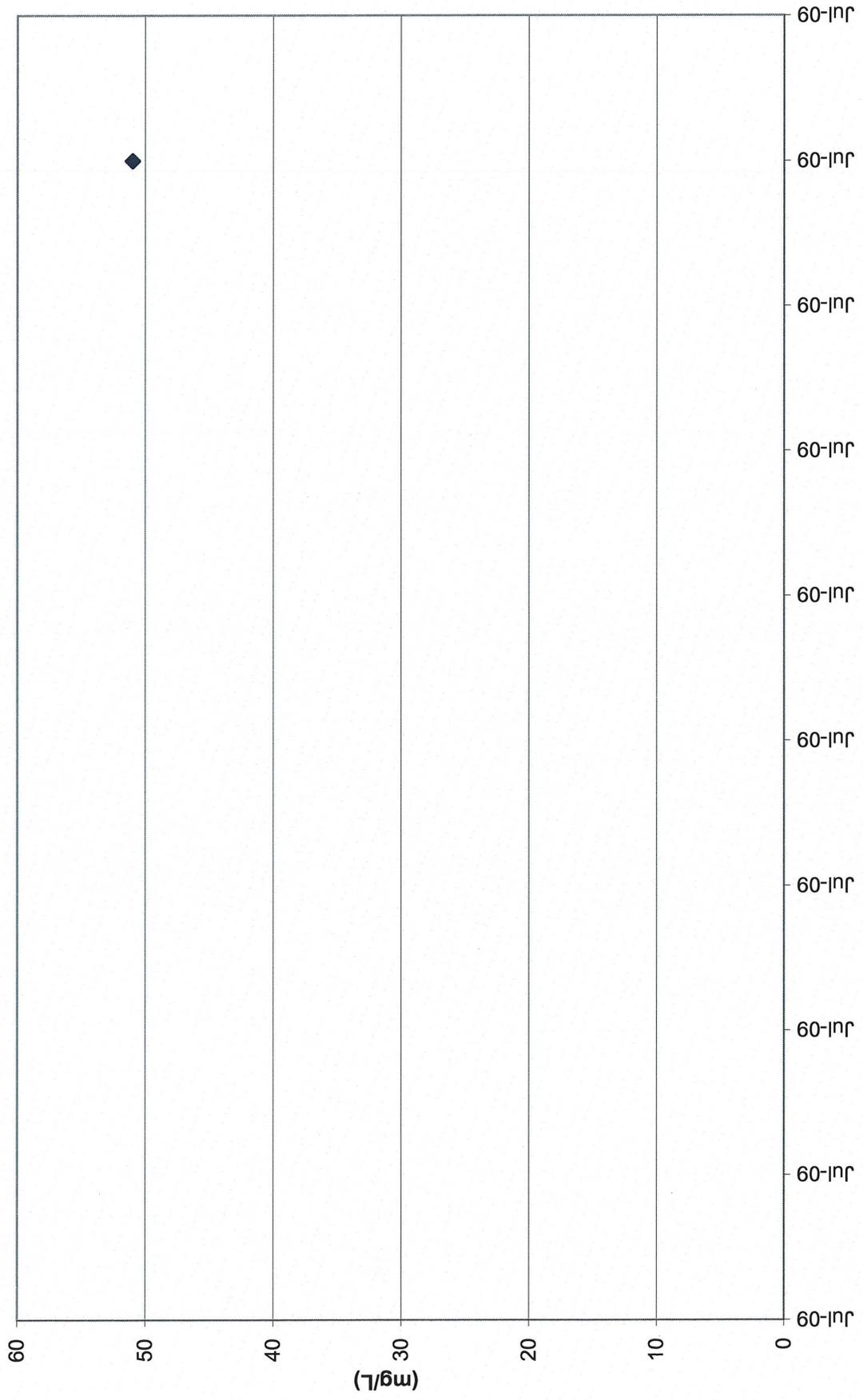
Piezometer 5 Chloride Concentrations



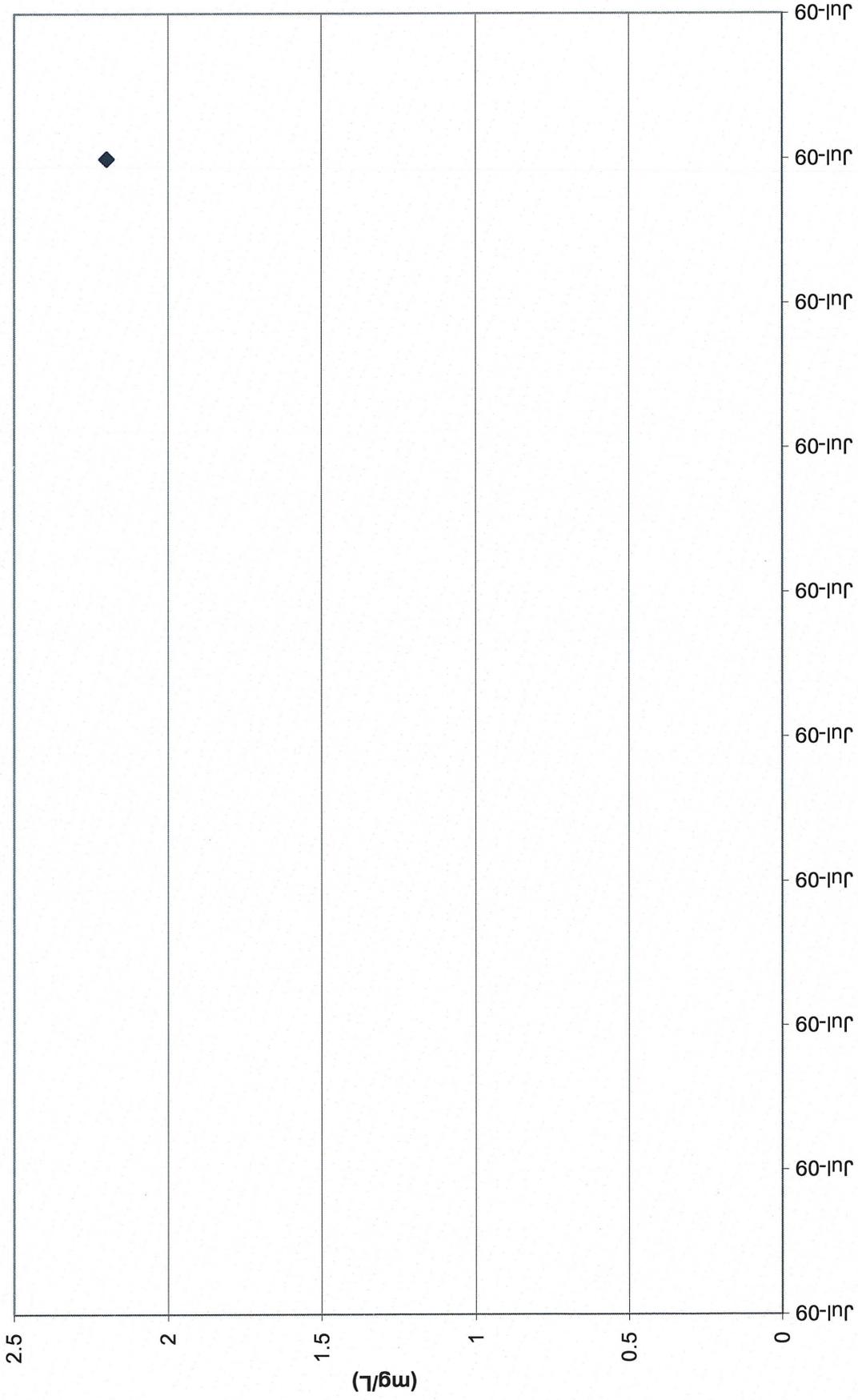
MW-18 Nitrate Concentrations



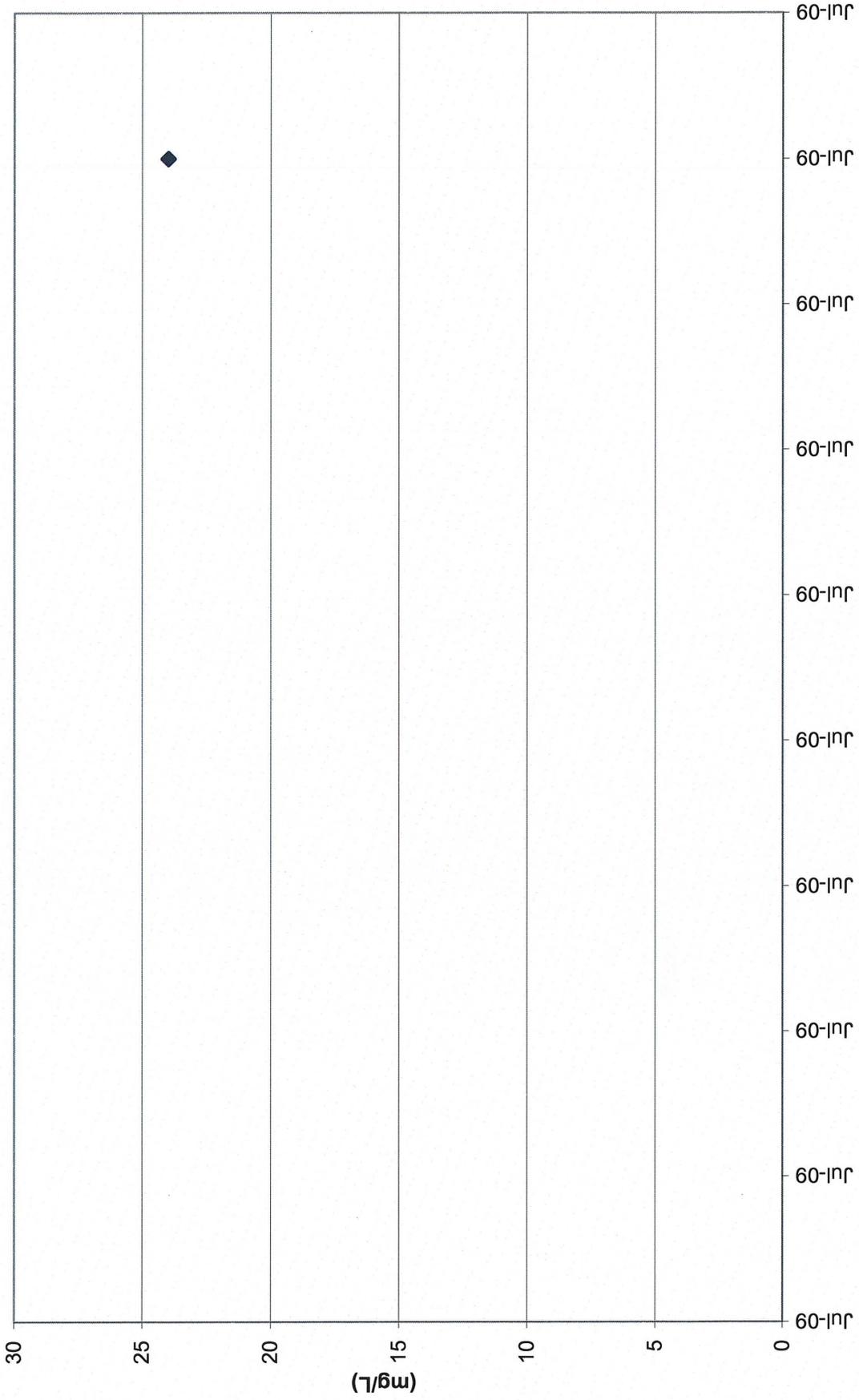
MW-18 Chloride Concentrations



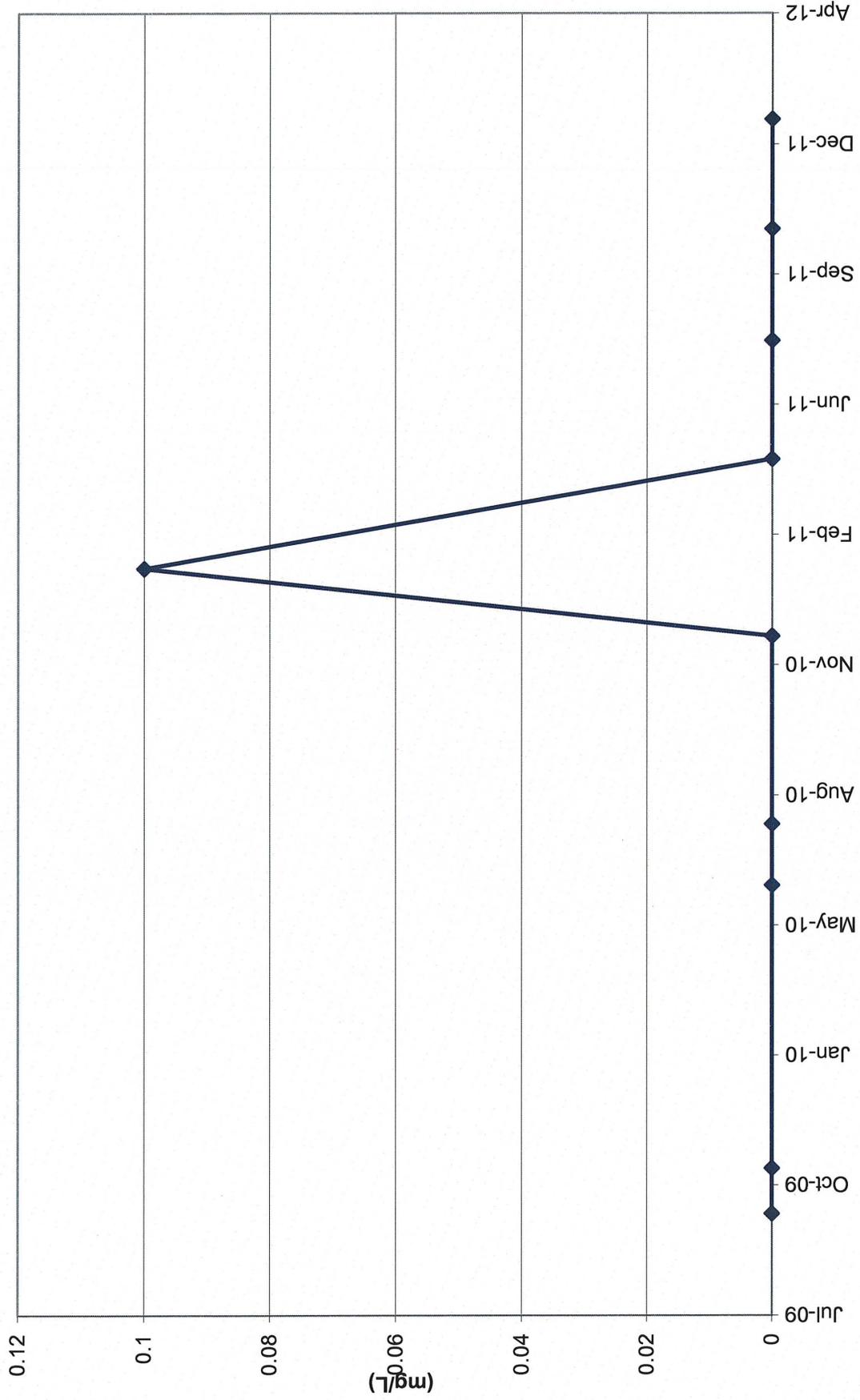
MW-19 Nitrate Concentrations



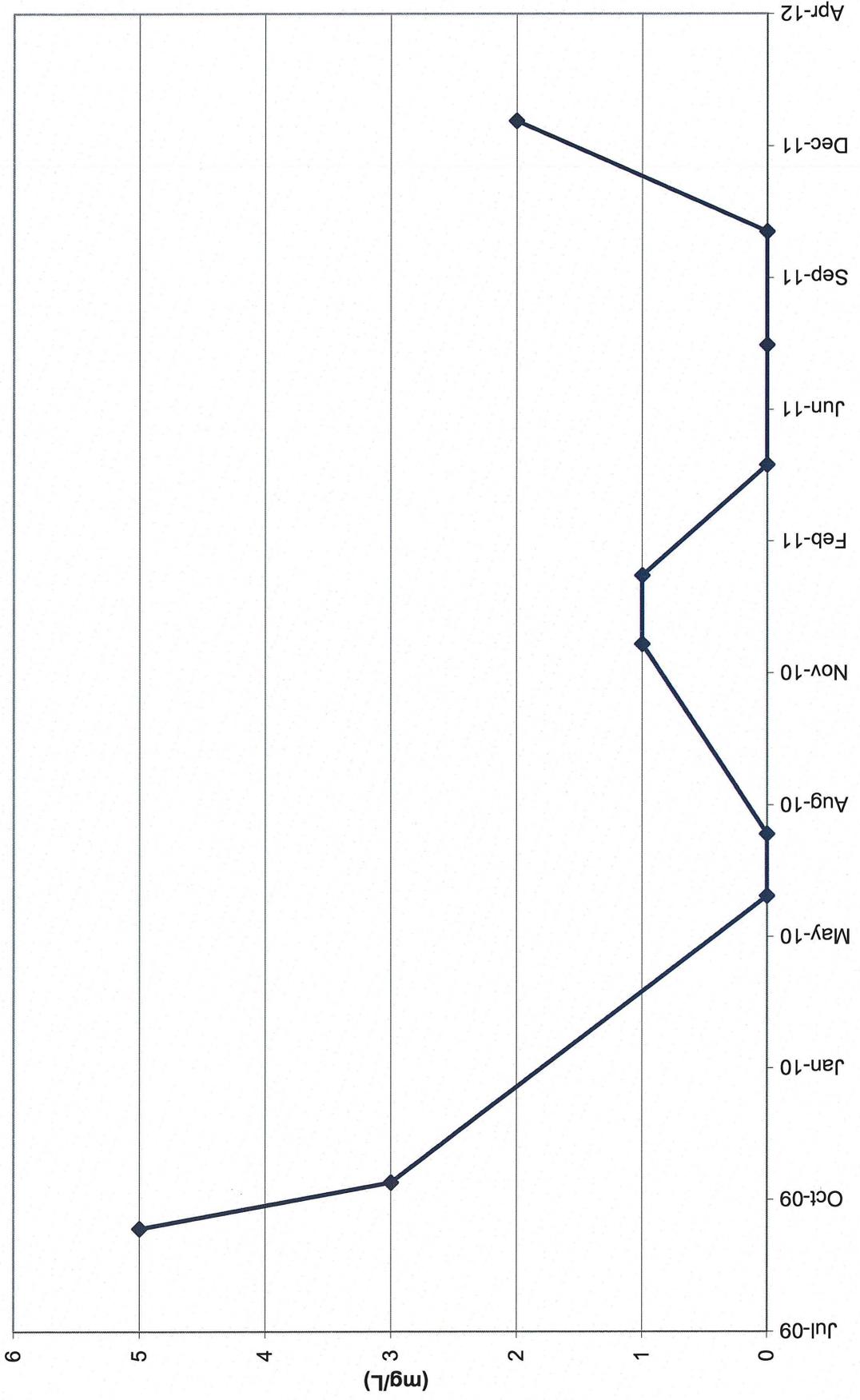
MW-19 Chloride Concentrations



Upper Wildlife Pond Nitrate Concentrations



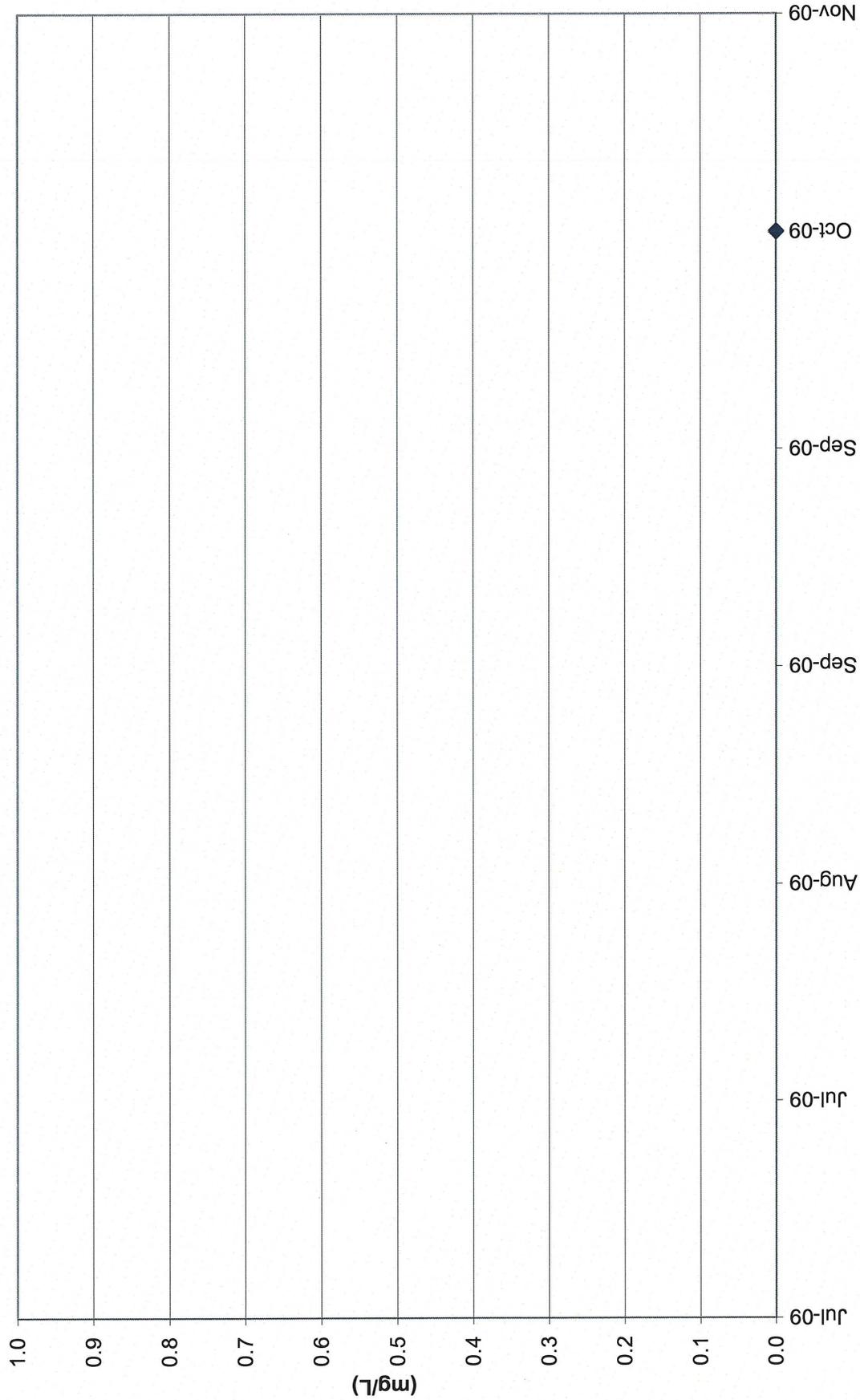
Upper Wildlife Pond Chloride Concentrations



Frog Pond Nitrate Concentrations



Frog Pond Chloride Concentrations



Tab L

CSV Transmittal Letter

Kathy Weinel

From: Kathy Weinel
Sent: Tuesday, August 14, 2012 1:09 PM
To: 'rlundberg@utah.gov'
Cc: 'Phillip Goble'; 'Thomas Rushing ii'; David Frydenlund; Jo Ann Tischler; David Turk; Harold Roberts; Jaime Massey
Subject: Transmittal of CSV Files White Mesa Mill 2012 Q2 Nitrate Monitoring
Attachments: C12041150.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 second 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
Energy Fuels Resources (USA) Inc.
Quality Assurance Manager